

The background of the entire page is a grayscale aerial photograph of a vast, flat landscape, likely a prairie or agricultural region. The terrain is characterized by subtle undulations and patterns of land use, possibly crop fields or pastures, stretching towards the horizon. The sky above is filled with soft, scattered clouds, creating a bright but slightly overcast atmosphere. The overall composition is vertical and minimalist, focusing on the natural beauty and scale of the landscape.

SOUTHERN SECTION

**American Society
of Animal Science**

**ANNUAL
MEETING**

**February 4–8, 2005
Little Rock, Arkansas**

**In Conjunction with the 102nd
Annual Convention
of the Southern Association
of Agricultural Scientists**

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2005 Southern Section ASAS

The Southern Section of the American Society of Animal Science expresses appreciation to the following organizations for financial assistance:

Swine Industry Award for Innovation

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Young Animal Scientist – Research

Elanco Animal Health
Greenfield, IN

Extension Award

Boehringer Ingelheim, Vetmedica Division
St. Joseph, MO

Young Animal Scientist – Education

Undergraduate Paper Competition

Graduate Student Awards Competition

PROGRAM EVENTS

Friday, February 4

Academic Quadrathlon (AQ)

9:00 pm: Advisor's Meeting Fayetteville, AR

Saturday, February 5

AQ Lab Practicum

8:00 am - Noon Fayetteville, AR

AQ Written Exam

1:00 - 5:00 pm Fayetteville, AR

Sunday, February 6

AQ Quiz Bowl

8:00 am - noon Caraway I,
Caraway II

AQ Oral Presentations

8:00 am - noon Caddo, Caraway III,
Osage, Quapaw,
Toltec

Registration

1:00 - 5:00 pm Rotunda

AQ Quiz Bowl Championship & Awards Program

2:00 - 3:30 pm Caraway I

ARPAS Exam

3:00 - 5:00 pm Peck

Information Exchange Groups:

IEG-72 Enhancing Reproduction in Cattle - Randy
Stanko, President

1:00 - 4:00 pm Neosho

IEG-75 Strategies for Southern Forages - Gary Hill,
President

1:00 - 4:00 pm Izard

IEG - Small Ruminant Production - Joan Burke,
President

1:00 - 4:00 pm Harris

SAAS Opening Symposium

4:00 - 6:00 pm Conway

ASAS Southern Section Advisory Committee/Executive
Committee
6:00 - 8:00 pm Miller

Monday, February 7

Registration
7:00 am - Noon Rotunda

ARPAS Exams
10:00 - noon Peck

Undergraduate Student Competition
8:00 - 10:00 am Statehouse
Ballroom B

Graduate Student Paper Competition
10:15 am - Noon Statehouse
Ballroom B

Registration
1:00 - 5:00 pm Rotunda

ARPAS Exams
2:00 - 4:00 pm Peck

Breeding and Genetics
1:00 - 3:00 pm Lafayette

Pastures and Forages I and II
1:00 - 4:00 pm Statehouse
Ballroom A

Physiology
1:00 - 4:30 pm Caraway II

Small Ruminant Production I and II
1:00 - 4:15 p.m. Statehouse
Ballroom B

Business Meeting
5:00 - 7:00 pm Statehouse
Ballroom A

Tuesday, February 8

Registration
8:00 - noon Rotunda

Extension I and II 8:15 am - 12:15 pm	Statehouse Ballroom B
Meat Science 8:00 - 9:45 am	Neosho
Tropically Adapted Breeds - Regional Project S1013-S277 I and II 8:00 - noon	Caraway I
Ruminant Animal Production 9:00 - noon	Ouachita
Extension Luncheon 12:30 - 2:30 pm	Fulton
Tropically Adapted Breeds - Regional Project S1013-S277 III and IV 1:00 - 5:00 pm	Caraway I
Small Ruminant Production III and IV 1:00 - 5:00 pm	Statehouse Ballroom B

ASAS Southern Section Meeting Little Rock, Arkansas February 4-8, 2005

Monday, February 7, 2005

Undergraduate Student Competition

Room: Statehouse Ballroom B

Monday 8:00-10:00

**Chair: Juan Marcos Fernandez, Louisiana State
University, Baton Rouge, LA**

Abstract Time

- | | | |
|---|------|---|
| 1 | 8:00 | Increased meat goat production through anestrous doe management. L. L. Schneider* ¹ and R. L. Stanko ^{1,2} , ¹ Texas A&M University-Kingsville, ² Texas A&M University Agricultural Research Station. |
| 2 | 8:15 | Validation of spectrophotometric methods for determining sperm concentration in ram and bull semen. E. L. Chamberlain* ¹ and R. W. Godfrey ² , ¹ Department of Animal Sciences, Louisiana State University, ² Agricultural Experiment Station, University of the Virgin Islands. |
| 3 | 8:30 | Castration and concentrate feeding influence performance and carcass characteristics of meat goats. S. R. Johnson*, M. H. Poore, A. D. Shaeffer, S. R. Freeman, H. M. Glennon, and J.-M. Luginbuhl, North Carolina State University. |
| 4 | 8:45 | Improving voluntary feed intake by the sow during lactation. C. W. O’Gorman* ¹ , J. Miller ¹ , J. W. Rounsavall ¹ , F. Neher ² , and J. C. Laurenz ¹ , ¹ Texas A&M University-Kingsville, ² Biomin, Inc. |
| 5 | 9:00 | Level and source of supplemental selenium in beef calves. R. S. Fry* ¹ , E. B. Kegley ¹ , M. E. Davis ¹ , M. D. Ratcliff ¹ , D. L. Galloway ¹ , and R. A. Dvorak ² , ¹ University of Arkansas, Division of Agriculture, ² Alltech. |
| 6 | 9:15 | Dehydroepiandrosterone-sulfate (DHEAS) enhances immunization response to keyhole limpet hemocyanin (KLH) and ovalbumin (OVA). J. Dominguez* ¹ , N. Burdick ¹ , T. H. Welsh, Jr. ² , and J. C. Laurenz ¹ , ¹ Texas A&M University-Kingsville, ² Texas Agricultural Experiment Station-College Station. |
| 7 | 9:30 | Effects of dexamethasone, and selenium and vitamin E on steers consuming tall fescue baleage. C. Garner*, M. Nihsen, Z. Johnson, D. Kreider, and C. Rosenkrans, Jr., Department of Animal Science, University of Arkansas. |

- 8 9:45 The effect of fatty acids on the insulin response of L6 myoblasts. N. C. Burdick* and J. C. Laurenz, Texas A&M University-Kingsville.
- 10:00 Break

Graduate Student Competition
Room: Statehouse Ballroom B
Monday 10:15–noon
Chair: Chance Brooks, Texas Tech University,
Lubbock, TX

Abstract Time

- 9 10:15 Supplementation with dietary fat compared to ryegrass grazing on carcass traits and reproductive efficiency in yearling beef heifers. A. R. Dos Santos*^{1,2}, S. T. Willard¹, and R. C. Vann², ¹Department of Animal and Dairy Sciences, Mississippi State, MS, ²Brown Loam Experiment Station.
- 10 10:30 Effects of sericea lespedeza hay on goats infected with *Haemonchus contortus*. S. A. Shaik*¹, T. H. Terrill¹, B. Kouakou¹, G. Kannan¹, J. E. Miller², R. M. Kaplan³, J. M. Burke⁴, and J. A. Mosjidis⁵, ¹Fort Valley State University, ²Louisiana State University, ³The University of Georgia, ⁴USDA, ARS-DBSFRC, ⁵Auburn University.
- 11 10:45 Efficacy of copper oxide wire particles against gastrointestinal nematodes of goats. R. K. Kallu*¹, T. H. Terrill¹, and J. E. Miller², ¹Fort Valley State University, ²Louisiana State University.
- 12 11:00 Effects of feeding *ascophyllum nodosum* supplementation in finishing cattle diets to improve overall quality grades. M. Anderson*¹, J. W. Johnson¹, S. Kim¹, M. Miller¹, J. C. Brooks¹, J. Gleghorn², D. Woerner¹, Z. Vineyard¹, J. Byrd¹, W. Palmore¹, M. Jaks¹, M. Teague¹, and J. Blanton Jr.¹, ¹Texas Tech University, ²Nutrition Service Associates.
- 13 11:15 No-till compared to reduced-till and conventional tillage systems for small-grain forages. M. Bowman*, P. Beck, K. Lusby, S. Gunter, and D. Hubbell, University of Arkansas.
- 14 11:30 Mutations in the NADH complex 1 gene sequence of tissues from Holstein bulls and their dams. C. Stanley*, J. Chandler, A. Canal, C. Williams, A. Anderson, and D. Blouin, LSU Agricultural Center.
- 15 11:45 Dexamethasone (DEX) and Insulin-like growth factor-1 (IGF-1) effects on pig macrophage nitric oxide production *in vitro*. L. A. Soliz*¹, T. H. Welsh, Jr.², and J. C. Laurenz¹, ¹Texas A&M University-Kingsville, ²Texas Agricultural Experiment Station-College Station.

Breeding and Genetics

Room: Lafayette

Monday 1:00–3:00

Chair: S. M. DeRouen, Hill Farm Research Station, Louisiana State University AgCenter

Abstract Time

- 16 1:00 Different measures of energetic efficiency, ultrasound and carcass merit and their relationships with mitochondrial activity in Angus cattle. B. A. Sandelin*¹, A. H. Brown, Jr.¹, C. Ojano-Dirain¹, M. Iqbal¹, W. G. Bottje¹, M. A. Brown², W. O. Herring³, M. Akin⁴, Z. B. Johnson¹, and R. T. Baublits¹, ¹University of Arkansas, ²USDA-ARS Grazinglands Research Laboratory, ³Smithfield Premium Genetics Group, ⁴Circle A Angus Ranch.
- 17 1:15 Success at first insemination in Australian Angus cattle: analysis of uncertain binary responses. M. Spangler*, R. Sapp, R. Rekaya, and J. Bertrand, University of Georgia.
- 18 1:30 Simulation of first insemination success in beef cattle: Analysis of uncertain binary responses using fuzzy logic classification. R. L. Sapp*, M. L. Spangler, R. Rekaya, and J. K. Bertrand, The University of Georgia.
- 19 1:45 Effects of climatic and phototrophic conditions prior to feeding on feed intake of beef bulls during post-weaning feedlot performance tests. G. T. Tabler*¹, A. H. Brown, Jr.¹, E. E. Gbur², I. L. Berry³, Z. B. Johnson¹, D. W. Kellogg¹, and K. C. Thompson², ¹University of Arkansas Department of Animal Science, ²University of Arkansas Agricultural Statistics Lab, ³University of Arkansas Department of Biological and Agricultural Engineering.
- 20 2:00 Effects of climate and photoperiod on feed intake of beef bulls during feedlot performance tests. G. T. Tabler*¹, A. H. Brown, Jr.¹, E. E. Gbur², I. L. Berry³, Z. B. Johnson¹, K. C. Thompson², and D. W. Kellogg¹, ¹University of Arkansas Department of Animal Science, ²University of Arkansas Agricultural Statistics Lab, ³University of Arkansas Department of Biological and Agricultural Engineering.
- 21 2:15 Relationships between performance test traits and age at first farrowing in four breeds of swine. Z. Johnson*¹, J. Chewing¹, and R. Nugent, III², ¹University of Arkansas, ²The Pork Group, Tyson Foods, Inc.
- 22 2:30 Estimation of (co) variance components due to genetic competition effects in pigs. J. P. Cassady*¹ and L. D. Van Vleck², ¹North Carolina State University, ²USDA-ARS, Roman L. Hruska U.S. Meat Animal Research Center.
- 23 2:45 A study of parasite challenge in goats. J. M. Dzakuma*¹, L. C. Nuti¹, B. M. Johnson¹, N. C. Beckford¹, S. E. Kom¹, P. L. Diamond², and T. M. Craig², ¹Prairie View A&M University, ²Texas A&M University.

Pastures and Forages I
Room: Statehouse Ballroom A
Monday 1:00–2:30
Chair: Stacey Gunter, University of Arkansas,
Hope, AR

Abstract	Time	
24	1:00	Evaluation of two digestibility markers for cattle consuming wheat pasture or alfalfa hay based diets. L. Appeddu* ¹ , K. Sweeney ¹ , J. Su ¹ , K. Mediano ¹ , and M. Brown ² , ¹ Southwestern Oklahoma State University, ² USDA-ARS Grazinglands Research Laboratory.
25	1:15	Remote sensing of crude protein in bermudagrass pastures during the summer grazing season. P. J. Starks* ¹ , W. A. Phillips ¹ , and S. W. Coleman ² , ¹ USDA-ARS Grazinglands Res. Lab, ² USDA-ARS Subtropical Ag. Res. Sta.
26	1:30	Influence of crude protein concentration in bermudagrass hay on organic matter digestibility. M. S. Gadberry*, T. R. Troxel, J. A. Jennings, and G. V. Davis, University of Arkansas, Cooperative Extension Service.
27	1:45	<i>In situ</i> degradation of native legumes and alfalfa in goats and cattle. J. Foster* ¹ , J. Muir ¹ , B. Lambert ^{1,2} , and D. Pawelek ¹ , ¹ Texas Agricultural Experiment Station, ² Department of Animal Sciences, Tarleton State University.
28	2:00	Nutritional quality evaluation of forage from bahiagrass selections. R. Myer* ¹ , S. Coleman ² , J. Carter ¹ , A. Blount ¹ , and R. Littell ¹ , ¹ University of Florida, ² USDA-ARS, STARS.
29	2:15	Aerobic stability of wheat and orchardgrass balage during winter months. R. Rhein, W. Coblentz*, J. Turner, C. Rosenkrans, R. Ogden, and D. Kellogg, University of Arkansas Division of Agriculture.
	2:30	Break

Pastures and Forages II
Room: Statehouse Ballroom A
Monday 2:45–4:00
Chair: Warren Gill, University of Tennessee,
Nashville, TN

Abstract	Time	
30	2:45	Interseeding small grains and(or) annual ryegrass into bermudagrass sod for growing cattle. P. A. Beck*, S. A. Gunter, C. B. Stewart, and J. M. Phillips, University of Arkansas, SW Research & Extension Center.
31	3:00	Timing of herbage allocation 1. Effect on beef heifers daily grazing pattern. P. Gregorini* ^{1,2} , M. Eirin ¹ , R. Refi ¹ , M. Ursino ¹ , and O. Ansin ¹ , ¹ FCAyF, Universidad Nacional de La Plata, ² Animal Science Department, University of Arkansas.

- 32 3:15 Timing of herbage allocation 2. Effect on beef heifers weight gain, body condition score and daily herbage intake. P. Gregorini*^{1,2}, M. Eirin¹, R. Refi¹, M. Ursino¹, and O. Ansin¹, ¹FCAYF, Universidad Nacional de La Plata, ²Animal Science Department, University of Arkansas.
- 33 3:30 Effect of weaning date and pasture rotation frequency on weaning and post-weaning growth performance by fall-born calves grazing tall fescue pastures. K. Coffey*¹, W. Coblenz¹, R. Ogden¹, T. Smith¹, D. Scarbrough¹, D. Hubbell, III¹, C. Rosenkrans¹, and J. Jennings², ¹University of Arkansas, ²Cooperative Extension Service.
- 34 3:45 Incidence of fecal shedding of *E. coli* O157:H7 and *Salmonella* in stocker steers grazing different forages. M. L. Looper*¹, T. S. Edrington², R. Flores³, C. F. Rosenkrans, Jr.³, M. E. Nihsen³, and G. E. Aiken⁴, ¹USDA-ARS, Dale Bumpers Small Farms Research Center, ²USDA-ARS, Feed and Food Safety Lab, ³University of Arkansas, ⁴USDA-ARS, Forage Animal Production Research Unit.

Physiology

Room: Caraway II

Monday 1:00–4:30

**Chair: M.J. Estienne, Virginia Tech,
Blacksburg, VA**

Abstract Time

- 35 1:00 Hormonal profiles in pregnant ewes following intra-uterine inoculation with *Escherichia coli*. K. Moulton*¹, S. Willard¹, P. Ryan¹, A. Chromiak¹, D. Tucker¹, C. Klauser², S. Rodts-Palenik², C. Rose², J. Morrison², and W. Bennett², ¹Department of Animal and Dairy Science, ²Department of Obstetrics and Gynecology, University of Mississippi Medical Center.
- 36 1:15 Use of digital infrared thermal imaging to evaluate the effect of scrotal color on scrotal surface temperatures of hair sheep rams in the tropics. S. Augustin*, R. W. Godfrey, R. E. Dodson, and A. J. Weis, Agricultural Experiment Station, University of the Virgin Islands.
- 37 1:30 Effect of pyruvate and lactate on motility of cold stored stallion spermatozoa. G. Webb* and C. Dekat, Southwest Missouri State University.
- 38 1:45 Motility characteristics of boar spermatozoa during long-term storage in different extenders. M. Estienne*¹, J. Day², and A. Harper¹, ¹Virginia Polytechnic Institute and State University, ²Auburn University.
- 39 2:00 The acute-phase response of cloned pigs following an immune challenge. J. Carroll*¹, B. Carter², S. Korte³, S. Dowd¹, and R. Prather⁴, ¹Livestock Issues Research Unit, ARS-USDA, Lubbock, Texas, ²College of Veterinary Medicine, Kansas State University, Manhattan, ³Department of

- Veterinary Pathobiology, University of Missouri, Columbia, ⁴Department of Animal Science, University of Missouri, Columbia.
- 40 2:15 Cortisol concentrations in gilts housed individually in stalls or in groups in pens during the first 30 d post-mating. M. Estienne*, A. Harper, and J. Knight, Virginia Polytechnic Institute and State University.
- 2:30 Break
- 41 2:45 Effects of GnRH in combination with PGF_{2α} on ovarian function in post-pubertal Holstein heifers. R. Harper¹, W. Bennett², E. Cuadra*¹, C. Vaughn¹, and N. Whitworth², ¹Alcorn State University, ²University Medical Center.
- 42 3:00 Utilization of progesterone releasing devices on improving reproductive performance of 'at-risk' beef cows. R. C. Vann*¹ and T. Engelken², ¹MAFES-Brown Loam Experiment Station, ²CVM-Mississippi State University.
- 43 3:15 Effects of intra-vaginal progesterone releasing devices on the survival of embryos transferred to recipient suckling multiparous beef cows. E. J. Cuadra¹, R. C. Vann*², W. A. Bennett³, R. Johnson¹, S. T. Willard⁴, and T. Kiser⁴, ¹Alcorn State University, ²Brown Loam Experiment Station, ³University of Mississippi Medical Center, ⁴Dept of Animal & Dairy Science, Mississippi State University.
- 44 3:30 Effects of supplemental progesterone in a timed insemination protocol in beef heifers. N. Post*, D. Kreider, R. Rorie, and T. Lester, University of Arkansas.
- 45 3:45 Effect of melengestrol acetate (MGA) and monensin supplementation on puberty and pregnancy rates in crossbred beef heifers. J. L. Roberts¹, R. P. DelVecchio¹, G. T. Gentry, Jr.*^{1,2}, D. Sanders², P. E. Humes¹, and R. A. Godke¹, ¹Department of Animal Sciences, LSU Agricultural Center, ²Idlewild Research Station.
- 46 4:00 Growth traits and reproductive parameters of Holstein and Gir (*Bos indicus*) x Holstein bulls and heifers. A. Denson*¹, S. Schmidt¹, S. Bowers¹, T. Dickerson¹, K. Graves¹, R. Vann², and S. Willard¹, ¹Department of Animal and Dairy Sciences, Mississippi State University, ²Brown Loam Branch Experiment Station.
- 47 4:15 Puberty in beef heifers fed high or low starch diets. R. P. Wettemann*, N. H. Ciccioli, S. L. Charles-Edwards, H. T. Purvis, K. S. Lusby, G. W. Horn, and D. L. Lalman, Oklahoma Agricultural Experiment Station.

**Small Ruminant Production I
Reproduction**

Room: Statehouse Ballroom B

Monday 1:00–2:30

**Chair: Joan Burke, USDA, Agricultural Research
Service, Booneville, AR**

Abstract	Time	
48	1:00	The effect of hCG on circulating progesterone in goats at the end of the breeding season. A. Landry*, H. DiMaggio, W. Burnside, L. Sarradet, J. Saenz, D. Landry*, L. Gentry, K. Bondioli, and R. Godke, Department of Animal Sciences, Louisiana State University Agricultural Center.
49	1:15	Hair sheep performance in an accelerated lambing and extensive management system in the tropics: A ten year summary. R. W. Godfrey*, J. R. Collins, E. L. Hensley, H. A. Buroker, J. K. Bultman, and A. J. Weis, Agricultural Experiment Station, University of the Virgin Islands.
50	1:30	Use of melengestrol acetate (MGA) feeding to synchronize mating in hair sheep and meat goats during seasonal breeding. S. Wildeus* ¹ , D. H. Keisler ² , and J. R. Collins ¹ , ¹ Virginia State University, ² University of Missouri.
51	1:45	Effects of oocyte transport methods on maturation rate in sheep. B. Sayre*, Virginia State University.
52	2:00	Application of a bovine electronic estrus mount detection system for use in goats and hair sheep. S. Wildeus* and J. R. Collins, Virginia State University.
53	2:15	Initial assessment of three meat goat breeds for preweaning doe-kid performance. R. Browning, Jr.* , S. Kebe, T. Payton, B. Donnelly, P. Pandya, and M. Byars, IAgER - Tennessee State University.
	2:30	Break

**Small Ruminant Production II
Parasite Control**

Room: Statehouse Ballroom B

Monday 2:45–4:15

**Chair: Steve Hart, Langston University,
Langston, OK**

Abstract	Time	
54	2:45	Effect of breed, rearing management, and supplement type on gastrointestinal parasitism in hair sheep lambs. S. Wildeus* ¹ , J. E. Miller ² , and J. R. Collins ¹ , ¹ Virginia State University, ² Louisiana State University.
55	3:00	The use of copper oxide wire particles (COWP) in pregnant ewes. J. Burke* ¹ and J. Miller ² , ¹ USDA, Agricultural Research Service, ² School of Veterinary Medicine, Louisiana State University.

- 56 3:15 Interaction between copper oxide wire particles (COWP) and *Duddingtonia flagrans* in hair breed lambs. J. Burke*¹, J. Miller², M. Larsen³, and T. Terrill⁴, ¹USDA, Agricultural Research Service, ²School of Veterinary Medicine, Louisiana State University, ³The Royal Veterinary and Agricultural University, ⁴Agricultural Research Station, Fort Valley State University.
- 3:30 Break
- 57 3:45 Effect of 0.5, 1.0 and 1.5 gram copper oxide wire particles on natural infection in lambs. J. Miller¹, J. Burke², and T. Terrill*³, ¹Louisiana State University, ²USDA ARS Booneville, ³Fort Valley State University.
- 58 4:00 Effect of the condensed tannin containing forage, sericea lespedeza, fed as hay, on natural and experimental challenge infection in lambs. K. Lange¹, D. Olcott¹, J. Miller*¹, J. Mosjidis², T. Terrill³, and J. Burke⁴, ¹Louisiana State University, ²Auburn University, ³Fort Valley State University, ⁴USDA ARS Booneville.

Business Meeting

5:00–7:00 p.m.

Statehouse Ballroom A

Tuesday, February 8, 2005

Extension I

Development and Evaluation of Original Programs

Room: Statehouse Ballroom B

Tuesday 8:15–10:00

**Chair: John Arthington, University of Florida,
Ona, FL**

- | Abstract | Time | |
|-----------------|-------------|---|
| 74 | 8:15 | Results of technology questions as part of Master Cattle Producer Survey. J. B. Neel*, C. D. Lane, W. W. Gill, and A. E. Fisher, University of Tennessee. |
| 75 | 8:30 | Cooperative multi-state extension programming; the five state beef initiative. Project development and extension program impacts in Kentucky. L. Meyer*, K. Burdine, and J. Johns, University of Kentucky. |
| 76 | 8:45 | Cooperative multi-state extension programming; the five state beef initiative. Carcass data, case studies and pricing scenarios for improving on-farm herd management in Kentucky. K. Burdine*, J. Johns, and L. Meyer, University of Kentucky. |
| 77 | 9:00 | Producer education using a cattle feeding profitability prediction contest. J. A. Parish* and W. B. McKinley, Mississippi State University. |
| 78 | 9:15 | Horse Round Table: A unique approach to a one evening program. F. Harper* ¹ , N. Denton ¹ , T. |

- Petty¹, K. Hart¹, and S. Jerrell², ¹University of Tennessee, ²Virginia Polytechnic Institute and State University.
- 79 9:30 Live placing of pigs from discrete categories of a packer value index at the Virginia State Fair Youth Market Hog Show. A. Harper*, C. Wood, M. Estienne, and J. Zhao, Virginia Polytechnic Institute and State University.
- 80 9:45 Effect of herd size on production costs and returns for farms enrolled in the Arkansas Beef Improvement, Integrated Resource Management program. J. T. Richeson*, M. S. Gadberry, and T. R. Troxel, University of Arkansas, Cooperative Extension Service.
- 10:00 Break

Extension II
Applied Research and Demonstrations
Room: Statehouse Ballroom B
Tuesday 10:15–12:15
Chair: John T. Johns, University of Kentucky,
Lexington, KY

- | Abstract | Time | |
|----------|-------|---|
| 81 | 10:15 | Preconditioning reduces sickness and death loss in weaned calves. D. Lalman* ¹ , A. Hutson ¹ , W. Shearhart ¹ , C. Ward ¹ , and S. McKinley ² , ¹ Oklahoma State University, ² Oklahoma Cattlemen's Association. |
| 82 | 10:30 | The effects of method of castration, and/or implantation on cow/calf performance when creep grazing either tall fescue or crabgrass. B. Stewart* ¹ , S. Gunter ¹ , P. Beck ¹ , M. Phillips ¹ , J. Parrish ² , and T. Troxel ² , ¹ University of Arkansas, SW Research & Extension Center, ² University of Arkansas Cooperative Extension Service. |
| 83 | 10:45 | Impact of implant anomaly on performance and return of stocker cattle. P. A. Beck* and S. A. Gunter, University of Arkansas, SW Research & Extension Center. |
| 84 | 11:00 | Corn gluten feed as a diet ingredient for Senepol- or Angus-sired finishing steers. M. H. Poore*, J. P. Cassady, and G. A. Benson, North Carolina State University. |
| 85 | 11:15 | Effects of feeding soybean hulls or corn gluten feed during the preconditioning period on feedlot performance and carcass characteristics of Angus steers. J. E. Rossi* ¹ and P. Worley ² , ¹ University of Georgia, Coastal Plain Experiment Station, ² Northwest Research and Education Center, Calhoun. |
| 86 | 11:30 | Milk production evaluation of straightbred Nellore and Nellore x Red Angus crossbred primiparous cows. J. M. B. Vendramini* and N. C. Favero, University of Florida. |
| 87 | 11:45 | Assessing and improving mineral status of a cow-calf herd. J. Gentry* ¹ , K. Downs ¹ , W. Gill ² , and A. |

- 88 12:00 Fisher², ¹Middle Tennessee State University, ²University of Tennessee.
 Effect of source of energy on growth and reproduction of replacement beef heifers. J. C. Wuenschel*, D. L. Cuddy, S. P. Greiner, and J. B. Hall, Virginia Tech.

Meat Science

Room: Neosho

Tuesday 8:00–9:45

Chair: Susan Duckett, University of Georgia,
 Athens, GA

Abstract Time

- 89 8:00 Relationship between ultrasound and carcass measures of Charolais-cross harvest cattle using an automated computer tracing software. T. Perkins*¹, C. Fercherio², and J. Worthington¹, ¹Southwest Missouri State University, ²Purina Mills, LLC.
- 90 8:15 Fatty acid profiles and meat characteristics of different biological types of beef cattle developed on grazed forages under a rotational management-intensive grazing system. M. Thomas*¹, D. Kellogg¹, A. Brown¹, D. Rule², Z. Johnson¹, K. Anschutz¹, R. Baublits¹, and C. Murietta², ¹University of Arkansas, ²University of Wyoming.
- 91 8:30 Effects of dietary fat source on carcass fatty acid composition of pigs slaughtered at 113.6 kg. J. K. Apple*, C. V. Maxwell, D. L. Galloway, and L. K. Rakes, Department of Animal Sciences, University of Arkansas.
- 92 8:45 Effects of sodium chloride, phosphate type and concentration, and pump rate on beef *biceps femoris* quality and sensory characteristics. R. T. Baublits*, F. W. Pohlman, A. H. Brown, Jr., and Z. B. Johnson, University of Arkansas.
- 93 9:00 Effects of sodium chloride, phosphate type and concentration, and pump rate on beef *biceps femoris* instrumental color characteristics. R. T. Baublits*, F. W. Pohlman, A. H. Brown, Jr., and Z. B. Johnson, University of Arkansas.
- 94 9:15 Meat quality and sensory characteristics of beef *biceps femoris* steaks treated with sodium chloride and differing phosphate types, concentrations and pump rates, compared with untreated steaks or steaks treated with only sodium chloride. R. T. Baublits*, F. W. Pohlman, A. H. Brown, Jr., and Z. B. Johnson, University of Arkansas.
- 95 9:30 Instrumental color characteristics of beef *biceps femoris* steaks treated with sodium chloride and differing phosphate types, concentrations or pump rates, compared with untreated steaks or steaks treated with only sodium chloride. R. T. Baublits*,

F. W. Pohlman, A. H. Brown, Jr., and Z. B. Johnson, University of Arkansas.

**Tropically Adapted Breeds - Regional Project
S1013-S277 I**

Room: Caraway I

Tuesday 8:00-10:00

**Chair: Larry V. Cundiff, U.S. Meat Animal
Research Center, ARS, USDA, Clay Center, NE**

Abstract	Time	
	8:00	Introduction, Larry Cundiff, U.S. Meat Animal Research Center, ARS, USDA, Clay Center, NE.
96	8:05	Rationale for evaluating alternative sources of subtropically adapted beef cattle germplasm. F. A. Thrift* ¹ and T. A. Thrift* ² , ¹ University of Kentucky, ² University of Florida.
97	8:25	Florida crossbreeding research. D. G. Riley* ¹ , G. R. Hansen ² , J. R. Crockett ² , T. A. Olson ² , and C. C. Chase, Jr. ¹ , ¹ ARS, ² Univ. of Florida.
98	8:45	Reproduction of <i>Bos indicus</i> breeds and crosses. R. D. Randel*, Texas A&M University Agricultural Research and Extension Center - Overton.
99	9:00	Birth to harvest attributes of Brahman and Brahman-influenced steers. F. M. Rouquette* ¹ , C. R. Long ¹ , J. J. Cleere ² , and R. D. Randel ¹ , ¹ Texas Agricultural Experiment Station, ² Texas Cooperative Extension.
100	9:20	Zero, 1/4, and 1/2 Brahman cows in spring vs fall calving programs. D. Buchanan* and R. Frahm, Oklahoma Agricultural Experiment Station.
101	9:35	Cow-calf performance of Brahman-British and Brahman-Continental beef females. S. M. DeRouen* ¹ , W. E. Wyatt ² , P. E. Humes ³ , D. E. Franke ³ , and D. C. Blouin ³ , ¹ Louisiana State University Agricultural Center, Homer, ² Jeanerette, ³ Baton Rouge.
102	9:50	Feedlot performance and carcass characteristics of Brahman x British and Brahman x Continental Beef Steers. W. Wyatt*, S. DeRouen, T. Bidner, P. Humes, D. Franke, and D. Blouin, Louisiana State University Agricultural Center.

**Tropically Adapted Breeds - Regional Project
S1013-S277 II**

Room: Caraway I

Tuesday 10:05-noon

Chair: M. D. Brown, ARS, USDA, El Reno, OK

Abstract	Time	
103	10:05	Reciprocal differences in gestation length and birth weight in <i>Bos indicus</i> / <i>Bos taurus</i> crosses. C. A. Gill*, T. S. Amen, J. O. Sanders, and A. D. Herring, Texas A&M University.

- 104 10:20 Maternal and fetal genotype influences on fetal growth. C. L. Ferrell*, USDA-ARS, U.S. Meat Animal Research Center.
- 105 10:35 Evaluation of F₁ crosses of five *Bos indicus* breeds with Hereford for birth, growth, carcass, cow productivity and longevity traits. J. Sanders*¹, D. Riley², J. Paschal¹, and D. Lunt¹, ¹Texas Agricultural Experiment Station, ²United States Department of Agriculture, Agricultural Research Service, Subtropical Agricultural Research Station.
- 106 10:55 Evaluation of Brahman and tropically adapted *Bos taurus* breeds in the humid subtropics. C. C. Chase, Jr.*¹, D. G. Riley¹, T. A. Olson², and S. W. Coleman¹, ¹USDA, ARS, Subtropical Agricultural Research Station, ²University of Florida.
- 107 11:15 Lifetime performance and efficiency of F₁ tropically adapted beef cattle breeds x Angus in arid rangeland. J. Holloway*¹, B. Warrington¹, D. Forrest², R. Randel³, and C. Long³, ¹Texas Agricultural Experiment Station, ²Texas A&M University, ³Texas Agricultural Experiment Station.
- 108 11:35 Evaluation of the F₁ crosses of the Tuli, Boran, and Brahman with Hereford and Angus for birth, growth, carcass, cow productivity and longevity characteristics. J. Sanders*¹, S. Cunningham¹, A. Ducoing², A. Herring¹, and D. Lunt¹, ¹Texas Agricultural Experiment Station, ²Universidad Nacional Autonoma de Mexico.

Ruminant Animal Production

Room: Ouachita

Tuesday 9:00–noon

**Chair: Mike Brown, West Texas A&M University,
Canyon, TX**

Abstract Time

- 121 9:00 Relationship of prepartum concentrations of insulin-like growth factor-I (IGF-I) in cows with birth weight, concentrations of IGF-I, and weaning weights of calves. R. Flores*¹, M. L. Looper², K. P. Coffey¹, W. K. Coblenz¹, and C. F. Rosenkrans, Jr.¹, ¹University of Arkansas, ²USDA-ARS, Dale Bumpers Small Farms Research Center.
- 122 9:15 Effects of cool season annuals with legumes on wintering beef cows. J. D. Shockey*², W. A. Whitworth¹, T. G. Montgomery¹, and S. A. Gunter², ¹University of Arkansas SEREC, Moticello, ²University of Arkansas SWREC, Hope.
- 123 9:30 Perennial versus annual grasses as a supplement to gestating beef cows. S. Hutchison*, S. A. Gunter, P. A. Beck, C. B. Stewart, J. D. Shockey, and J. M. Phillips, Southwest Research & Extension Center, University of Arkansas, Hope.
- 124 9:45 Effects of beef cow parity on responses to early calf weaning. S. Galindo-Gonzalez*^{1,2}, J. D. Arthington^{1,2}, and A. De Vries², ¹University of

- Florida, Range Cattle Research and Education Center, ²University of Florida, Department of Animal Sciences.
- 125 10:00 Assessing castration at arrival on long-term growth performance of cattle. M. D. Ratcliff*, E. B. Kegley, K. S. Lusby, S. A. Gunter, L. B. Daniels, and D. S. Hubbell, III, University of Arkansas Division of Agriculture.
- 126 10:15 Effects of time of castration on growth, feedlot performance, and carcass characteristics of Angus and Charolais-sired calves. M. L. Looper*¹, J. M. Burke¹, L. J. McBeth², C. R. Krehbiel², R. Flores³, C. F. Rosenkrans, Jr.³, and G. E. Aiken⁴, ¹USDA-ARS, Dale Bumpers Small Farms Research Center, ²Oklahoma State University, ³University of Arkansas, ⁴USDA-ARS, Forage Animal Production Research Unit.
- 127 10:30 The effects of energy supplementation and metaphylaxis on the performance of newly received cattle. S. A. Gunter*¹, P. A. Beck¹, and D. S. Hubbell, III², ¹University of Arkansas, Southwest Research & Extension Center, Hope, ²Livestock & Forestry Branch Station (LFBS), Batesville.
- 128 10:45 Effects of anthelmintic treatment on calf gains while grazing tall fescue. C. Rosenkrans, Jr.*¹, M. Nihsen¹, Z. Johnson¹, T. Yazwinski¹, D. Kreider¹, K. Coffey¹, W. Coblentz¹, and C. West², ¹Department of Animal Science, University of Arkansas, ²Department of Crop, Soil, and Environmental Sciences, University of Arkansas.
- 129 11:00 Optimizing N supply for growing steers consuming forage diets supplemented with citrus pulp. J. D. Arthington*^{1,2} and A. T. Adesogan¹, ¹University of Florida, Department of Animal Sciences, ²University of Florida, Range Cattle Research and Education Center.
- 130 11:15 Cotton by-product supplements fed with hay: Steer performance and diet digestion. G. M. Hill*, J. F. Baker, B. C. Hand, and B. G. Mullinix, Jr., University of Georgia.
- 131 11:30 The effect of replacing soybean meal with *Mucuna pruriens* on the performance of sheep. S. Chikagwa-Malunga*¹, A. Adesogan¹, M. Huisden¹, S. Kim¹, N. Krueger¹, D. Dean¹, T. Ososanya¹, K. Arriola¹, and S. Phatak², ¹University of Florida, ²University of Georgia.
- 132 11:45 Effects of nitroethane administration on methane production in growing steers. E. G. Brown*¹, G. E. Carstens¹, L. J. Slay¹, S. A. Woods¹, M. J. Quinn¹, J. L. McReynolds², R. C. Anderson², and D. J. Nisbet², ¹Texas Agricultural Experiment Station, ²USDA/ARS, Food and Feed Safety Research Unit.

**Tropically Adapted Breeds - Regional Project
S1013-S277 III
Room: Caraway I
Tuesday 1:00-3:15
Chair: David G. Morrison, Louisiana State
University, Baton Rouge, LA**

Abstract	Time	
109	1:00	Performance of tropically adapted breeds in a temperate environment: Calving, growth, reproduction and maternal traits. L. V. Cundiff*, U. S. Meat Animal Research Center, ARS, USDA.
110	1:20	Feed utilization and performance of tropically adapted cattle. C. L. Ferrell*, T. G. Jenkins, and H. C. Freetly, USDA-ARS, U.S. Meat Animal Research Center.
111	1:35	Carcass and meat traits of tropically-adapted breeds. T. Wheeler*, S. Shackelford, and M. Koohmaraie, U.S. Meat Animal Research Center.
112	1:55	Cow efficiency during the preweaning period of tropically adapted cattle. T. G. Jenkins* and C. L. Ferrell, USDA-ARS, U.S. Meat Animal Research Center.
113	2:15	Foraging behavior of tropically adapted breeds. D. Forbes*, Texas Agricultural Experiment Station.
114	2:35	Evaluation of Boran, Tuli, Gelbvieh, and Brahman F1 crosses in Oklahoma. W. A. Phillips* ¹ , R. P. Wettemann ² , S. W. Coleman ³ , and J. W. Holloway ⁴ , ¹ USDA-ARS Grazinglands Res Lab, ² OK Agric. Exper. Sta., ³ USDA-ARS Subtropical Ag. Res Sta., ⁴ Texas A&M Res and Ext Center.
115	2:50	Genotype x environment interactions in Brahman, Angus, and reciprocal-cross cows and their calves. M. Brown* ¹ and H. Brown, Jr. ² , ¹ USDA-ARS, Grazinglands Research Laboratory, ² University of Arkansas.
	3:15	Break

**Tropically Adapted Breeds - Regional Project
S1013-S277 IV
Room: Caraway I
Tuesday 3:25-4:45
Chair: J. W. Holloway, Texas A&M University,
College Station, TX**

Abstract	Time	
116	3:25	Varying differences between sexes in birth weight and weaning weight of calves sired by tropically adapted breeds at six diverse U.S. locations. A. D. Herring* ¹ , S. F. Cunningham ¹ , L. V. Cundiff ² , C. C. Chase, Jr. ³ , J. O. Sanders ¹ , W. A. Phillips ⁴ , J. F. Baker ⁵ , J. W. Holloway ⁶ , B. G. Warrington ⁶ , and S. W. Coleman ⁴ , ¹ Texas A&M University, ² USDA-ARS, ³ USDA-ARS, ⁴ USDA-ARS, ⁵ University of

- 117 3:40 Georgia, ⁶Texas Agricultural Experiment Station. Genetic (co)variances for growth, carcass, and tenderness traits of Brahman steers. T. Smith*¹, J. Domingue¹, T. Bidner¹, J. Paschal², G. Whipple³, and D. Franke¹, ¹LSU Agricultural Center, ²Texas A&M University, ³University of Nebraska.
- 118 3:55 Evaluation of heterosis retention for cow productivity traits in *Bos indicus*/*Bos taurus* crosses. J. Sanders*¹, K. Key¹, D. Riley², and D. Lunt¹, ¹Texas Agricultural Experiment Station, ²United States Department of Agriculture, Agricultural Research Service, Subtropical Agricultural Research Station.
- 119 4:15 Direct and maternal breed additive and nonadditive genetic effects for reproductive, growth, and carcass traits in Brahman crossbred cattle. D. Franke*¹, S. Derouen¹, and A. Williams², ¹LSU Agricultural Center, ²The Jacob Alliance.
- 120 4:30 Carcass and meat characteristics of Bonsmara-influenced cattle. R. K. Miller*¹, S. M. Falkenberg¹, B. G. Warrington², G. W. Chapman³, G. E. Carstens¹, and J. W. Holloway², ¹Texas A&M University, Department of Animal Science, ²Texas A&M Research Center, Uvalde, ³Chapman Ranches.

Small Ruminant Production III
Meat Quality, Products, and Production
Room: Statehouse Ballroom B
Tuesday 1:00–2:45
Chair: Sam Jackson, Texas Tech University,
Lubbock, TX

- | Abstract | Time | |
|----------|------|--|
| 59 | 1:00 | Preharvest spray washing of goats: effects on stress responses and bacterial counts on skin and carcass surfaces. A. J. Hagerman*, G. Kannan, K. R. Eega, B. Kouakou, and G. W. McCommon, Fort Valley State University. |
| 60 | 1:15 | Effects of breed and carcass electrical stimulation on meat quality characteristics in goats. K. M. Gadiyaram* ¹ , G. Kannan ¹ , S. Galipalli ¹ , T. D. Pringle ² , and K. W. McMillin ³ , ¹ Fort Valley State University, ² The University of Georgia, ³ Louisiana State University AgCenter. |
| 61 | 1:30 | Carcass traits and meat quality of pasture-raised Katahdin crossbred lambs. D. J. Jackson* ¹ , N. C. Whitley ¹ , J. W. Lemaster ² , and S. Schoenian ^{2,3} , ¹ University of Maryland Eastern Shore, ² Maryland Cooperative Extension, ³ WMREC. |
| 62 | 1:45 | Demographic factors influencing consumer preference of chevon products. G. Kannan* ¹ , M. C. Nelson ¹ , T. E. Hollis ¹ , T. D. Pringle ² , and K. W. McMillin ³ , ¹ Fort Valley State University, ² The University of Georgia, ³ Louisiana State University AgCenter. |

- 63 2:00 Objective and subjective evaluations of value-added chevon and beef products. K. R. Eega*¹, K. M. Gadiyaram¹, G. Kannan¹, V. R. Gutta¹, T. D. Pringle², and K. W. McMillin³, ¹Fort Valley State University, ²The University of Georgia, ³Louisiana State University AgCenter.
- 64 2:15 Production of Dorper × St. Croix White and St. Croix White lambs grazing pasture during the wet season in the US Virgin Islands. R. E. Dodson*, A. J. Weis, and R. W. Godfrey, Agricultural Experiment Station, University of the Virgin Islands.
- 65 2:30 Effect of feeding regimens on growth, leptin, and carcass composition in meat-type goats raised in Missouri. E. Walker*¹, W. Walker*¹, N. Whitley², C. Stahl³, D. Keisler³, and E. Berg³, ¹Southwest Missouri State University, ²University of Maryland, Eastern Shore, ³University of Missouri.
- 2:45 Break

**Small Ruminant Production IV
Production and Feeds
Room: Statehouse Ballroom B
Tuesday 3:00–5:00**

Chair: Bob Godfrey, University of the Virgin Islands, Kingshill, St. Croix, VI

Abstract Time

- 66 3:00 Nitrogen fertilizer rates on wheat pastures for goats in north Texas. D. Pawelek*¹, J. P. Muir¹, and B. D. Lambert^{1,2}, ¹Texas Agricultural Experiment Station, ²Tarleton State University.
- 67 3:15 Preference of grazing goats for cool-season annual clovers. T. H. Terrill*¹, W. F. Whitehead¹, B. P. Singh¹, S. Gelaye¹, G. Durham², and C. S. Hoveland², ¹Fort Valley State University, ²The University of Georgia.
- 68 3:30 Performance by goats and sheep consuming a 65% concentrate diet subsequent to co-grazing of grass/forb pastures at different stocking rates. G. Animut*^{1,2}, A. L. Goetsch¹, G. E. Aiken³, R. Puchala¹, G. Detweiler¹, C. R. Krehbiel², R. C. Merkel¹, T. Sahl¹, L. J. Dawson⁴, and Z. B. Johnson⁵, ¹E (Kika) de la Garza American Institute for Goat Research, Langston University, ²Animal Science Department, Oklahoma State University, ³USDA ARS Dale Bumpers Small Farms Research Center, ⁴College of Veterinary Medicine, Oklahoma State University, ⁵Department of Animal Science, University of Arkansas.
- 69 3:45 Growth performance of weaned fallow deer fawns (*Dama dama*) is unaffected by Cattle-Ase™ supplementation. L. Jonovich*, S. Mapel, D. Neuendorff, A. Lewis, and R. Randel, Texas Agricultural Experiment Station.
- 70 4:00 Energy utilization by lactating Alpine goats: dietary concentrate level and stage of lactation. I.

Tovar-Luna¹, A. L. Goetsch*¹, R. Puchala¹, T. Sahlu¹, S. P. Hart¹, and Z. B. Johnson², ¹E (Kika) de la Garza Institute for Goat Research, Langston University, ²Department of Animal Science, University of Arkansas.

- 71 4:15 The relationship between heart rate and energy expenditure in growing crossbred Boer and Spanish wethers. R. Puchala*, I. Tovar-Luna, A. L. Goetsch, and T. Sahlu, E (Kika) de la Garza American Institute for Goat Research.
- 72 4:30 Evaluating the relationship between temperament and production traits of hair sheep. V. McSween*, R. W. Godfrey, R. E. Dodson, and A. J. Weis, Agricultural Experiment Station, University of the Virgin Islands.
- 73 4:45 Production and marketing recommendations for profitable goat production in West Virginia. D. Singh-Knights* and M. Knights, West Virginia University.

Southern Section American Society of Animal Science

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2000	Philip Utley	Georgia
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1998	Not Given	
1997	William G. Luce	Oklahoma
1996	Raymond W. Harvey	North Carolina
1995	Gary L. Cromwell	Kentucky
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1987	Lowell E. Walters	Oklahoma
1986	Lemuel Goode	North Carolina
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1984	L.C. Ulberg	North Carolina
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1981	Elliot R. Barrick	North Carolina
1980	J.A. Whatley, Jr.	Oklahoma
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1978	Thomas J. Marlowe	Virginia
1977	Sam Hansard	Tennessee
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1971	Ray H. Dutt	Kentucky
1970	Robert C. Carter	Virginia

1969	Henry H. Leveck	Mississippi
1968	Wesley P. Garrigus	Kentucky
1967	Byron L. Southwell	Georgia
1966	Charles S. Hobbs	Tennessee

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1997	Steven H. Umberger	Virginia
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1993	J.R. Jones	North Carolina
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2003	Texas A&M University
2002	University of Florida
2001	University of Kentucky
2000	Texas A&M University
1999	University of Kentucky
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1997	Oklahoma State University
1996	Oklahoma State University
1995	Virginia Tech
1994	Oklahoma State University
1993	Texas A&M University
1992	Oklahoma State University
1991	University of Kentucky
1990	Virginia Tech
1989	Oklahoma State University
1988	Texas A&M University
1987	University of Georgia
1986	University of Georgia
1985	University of Kentucky
1984	Texas A&M University

**American Society of Animal Science
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Award Recipients**

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2004 ²	Theo Van Kempen	NC State University
2003 ¹	Sam Jackson	Texas Tech University
2003 ²	Tom Spencer	Texas A&M University
2002 ¹	Joel Yelich	University of Florida
2002 ²	Beth Kegley	University of Arkansas
2001 ¹	Shawn Ramsey	Texas A&M University
2001 ²	Jason Apple	University of Arkansas
2000 ¹	Andy D. Herring	Texas Tech University
1999 ²	Chad C. Chase, Jr.	USDA,ARS
1998 ¹	Markus F. Miller	Texas Tech University
1998 ²	Arthur L. Goetsch	Langston University
1997 ¹	Tim Marshall	University of Florida
1996 ¹	William L. Flowers	NC State University
1996 ²	Markus F. Miller	Texas Tech University
1995 ¹	Craig H. Wood	University of Kentucky
1995 ²	Jeffrey D. Armstrong	NC State University
1994 ¹	Debra K. Aaron	University of Kentucky
1994 ²	Peter J. Hansen	University of Florida
1993 ¹	Kevin Pond	NC State University
1993 ²	Rod Geisert	Oklahoma State Univ.
1992 ¹	David S. Buchanan	Oklahoma State Univ.
1992 ²	James L. Sartin	Auburn University
1991 ¹	W.E. Beal	VPI & SU
1991 ²	Wayne Greene	Texas A&M University
1990 ¹	J.W. Mabry	University of Georgia
1990 ²	T.H. Welsh	Texas A&M University
1989	J.W. Spears	NC State University
1988	S.B. Smith	Texas A&M University
1987	D.L. Thompson, Jr.	Louisiana State Univ.
1986	G.J. Hausman	USDA, ARS, Athens, GA
1985	J.W. Savell	Texas A&M University
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1983	T.S. Stahly	University of Kentucky
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¹Education

²Research

**NPB Swine Industry
Award Recipients**

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2003	Theo van Kempen	NC State University
2002	Kim Cole	University of Arkansas
2001	G. E. Conatser	University of Tennessee
2000	Not given	
1999	Not given	
1998	Robert A. Cushman	NC State University
1997	M. Todd See	NC State University
1996	William L. Flowers	NC State University
1995	M. Todd See	NC State University
1994	Robert Dove	University of Georgia

**American Society of Animal Science
Graduate Student Paper
Award Recipients**

Year	Awardee	Place of Meeting	University
2004	E. G. Brown	Tulsa	Texas A&M University
2003	C. Realini	Mobile	Univ. of Georgia
2002	J. A. Parish	Orlando	Univ. of Georgia
2001	J. Montgomery	Ft. Worth	Texas Tech University
2000	M. R. Stivarious	Lexington	University of Arkansas
1999	T. E. Engle	Memphis	NC State University
1998	C. Barnett	Little Rock	Univ. of Tennessee
1997	D.H. Crews, Jr.	Birmingham	Louisiana State Univ.
1996	None Given		
1995	E.B. Kegley	New Orleans	NC State University
1994	R.D. Coffey	Nashville	University of Kentucky
1993	D.K. Bishop	Tulsa	Oklahoma State Univ.
1992	R.L. Stanko	Lexington	NC State University
1991	G.A. Rohrer	Ft. Worth	Texas A&M University
1990	K.A. Meurer	Little Rock	Mississippi State Univ.
1989	G.M. Davenport	Nashville	University of Kentucky
1988	M.J. Esteinne	New Orleans	University of Georgia
1987	T.W. Burnell	Nashville	University of Kentucky
1986	M.J. Wylie	Orlando	Texas A&M University
1985	M.W. Richards	Biloxi	Clemson University
1984	J.C. Betts	Nashville	Texas A&M University
1983	J.B. Lutz	Atlanta	University of Georgia
1982	K.R. Pond	Orlando	Texas A&M University
1981	L.W. Greene	Atlanta	VPI & SU
1980	D.K. Aaron	Hot Springs	University of Kentucky
1979	T.W. Robb	New Orleans	University of Kentucky
1978	E.F. Gray	Houston	University of Kentucky
1977	T.A. Puglisi	Atlanta	University of Georgia
1976	D.L. Thomas	Mobile	Oklahoma State Univ.
1975	J.C. Cornwell	New Orleans	Louisiana State Univ.
1974	D.M. Hallford	Memphis	Oklahoma State Univ.
1973	A.C. Mills	Atlanta	University of Florida
1972	C. McLellan, Jr.	Richmond	Oklahoma State Univ.
1971	C.L. Fields	Jacksonville	University of Kentucky
1970	A.R. Bellve	Memphis	NC State University
1969	W.L. Brown	Mobile	Auburn University
1968	W.E. Powell	Louisville	Auburn University
1967	F.W. Bazer	New Orleans	NC State University
1966	D.G. Ely	Jackson	University of Kentucky
1965	R.D. Goodrich	Dallas	Oklahoma State Univ.
1964	C.K. Vincent	Atlanta	NC State University
1963	C.B. Ramsey	Memphis	Univ. of Tennessee
1962	J.R. Crockett	Jacksonville	University of Florida

American Society of Animal Science Undergraduate Student Paper Award Recipients

Year	Awardee	Place of Meeting	University
2004	J. L. Roberts	Tulsa	Oklahoma State University
2003	M. Seitz	Mobile	Mississippi State Univ.
2002	B. Spader	Orlando	University of Missouri
2001	R. Horsley	Ft. Worth	Virginia Polytechnic Univ.
2000	B. Robbins	Lexington	Virginia Tech
1999	J. L. Bardugone	Memphis	Virginia Tech
1998	S. F. Flohr	Little Rock	Virginia Tech
1997	T.M. Weick	Birmingham	Louisiana State Univ.
1996	K. J. Goodson	Greensboro	Texas A&M University
1995	B. C. Bloom	New Orleans	Auburn University
1994	Beth Good	Nashville	Oklahoma State Univ.
1993	C.J. Kirby	Tulsa	NC State University

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Gill, W, TN
Rouquette, FM, TX
Arthington, JD, FL

Breeding and Genetics

DeRouen, S, LA
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Johnson, Z, AR
Herring, A, TX

Extension

Hall, J, VA
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Meats

Duckett, S, GA
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Franke, D, LA
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Award - Research

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Young Animal Scientist

Award - Education

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Extension Award

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