

# MICHAEL L. LOOPER

## Department Head and Professor

Department of Animal Science, Division of Agriculture, and  
Dale Bumpers College of Agricultural, Food & Life Sciences  
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## EDUCATION

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**PhD** Oklahoma State University, Reproductive Physiology/Animal Breeding, 1999  
**MS** University of Arkansas, Animal Science - Reproductive Physiology, 1994  
**BS** University of Arkansas, Animal Science (Cum Laude), 1992

## ADMINISTRATIVE EXPERIENCE

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### Head of the Department of Animal Science and Professor – Sept. 2011 to present.

Responsibilities include, but not limited to:

- Management and oversight of
  - ~\$4.3 million budget
    - \$3.04 million salary
    - \$1.24 million maintenance and operations
  - \$1.1 million scholarship endowment
- Leadership and oversight for
  - 23 faculty members located in Fayetteville, Little Rock and Hope
  - 24 salaried research staff
  - 9 administrative staff (Fayetteville and Little Rock)
  - 5 Livestock Market News Service reporters (Little Rock)
  - 35-40 graduate students in two locations (Fayetteville and Hope)
  - Division of Agriculture research farms including
    - Stocker Cattle Receiving/Backgrounding Unit
    - Cow/Calf Unit
    - Swine Research/Teaching Unit (off-site nursery and farrowing facility)
    - Physiology Farm
    - North Farm Unit
      - Pauline Whitaker Animal Science Arena
      - Dorothy King Equine Pavilion
      - Animal Science Feed Mill
      - Red Meat Abattoir
- Faculty recruitment and development, instructional program development and delivery, coordination of departmental research and Extension programs, and evaluation of personnel delivery of service programs.

- Represent the department's interest within and outside the University and maintain relationships with students, administrators, University committees, alumni, professional organizations, and various other public and private groups.
- Co-instruct Seminar (ANSC 5901; 5 semesters), and advise, co-advise or serve as a committee member for eight M.S. and four Ph.D. graduate students.

### *Accomplishments*

- **Faculty hires** - Since January 2015, hired eight faculty members; six in Fayetteville and two in Little Rock. In the process of advertising for two additional faculty positions.
- **Enhanced faculty and student diversity** - The faculty has more than doubled in number of female members over the past five years; two non-Caucasian male faculty members were recently hired. Coordinated and developed MOU between Lincoln University (1890's Institution) and Department for graduate student training – five students have completed or in the process of completing graduate degrees.
- **Growth in graduate program; emphasis on Ph.D. candidates** - Increased M.S. (28% increase) and Ph.D. (54.5% increase) students from 2015 to 2016. Secured additional assistantships for growth in graduate program. Implemented the Dr. Paul Noland (former faculty member and Head) Graduate Student Award for M.S. and Ph.D. Winners receive travel stipends to scientific meetings.
- **Increased research efforts - renovation of laboratory space** - Initiated and received partial funding for up-grades to outdated laboratory spaces, farm facilities, and graduate student offices; peer-reviewed research publications have increased from 10 in 2011 to 50 annually in 2016; enhanced collaboration with increased funding (two additional MOUs) from USDA-ARS locations in Booneville, AR; Lexington, KY; and Marshfield, WI.
- **Improved Departmental morale, transparency, and communication** - Maintain an open-door policy. Improved camaraderie and communication has resulted in greater cooperation and collaboration among the faculty.
- **Enhanced the undergraduate experience** - Enrollment has increased 18.6% since 2011; 16% of students are enrolled in the Honors College; established three areas of study concentrations with the Animal Science curriculum: General Animal Science, Equine Science and Pre-Professional to provide students with more options; established a Horse Judging Team, Ranch Horse Team, and a Departmental ambassador group (REPS); in the process of enhancing international experiences (recent specific efforts in Belgium, Panama, China, and Argentina).

- **Integration of on- and off-campus faculty** - Enhanced integration of off-campus faculty with grant submissions, student committees, etc. On a regular basis, I travel to off-campus locations.
- **Increased awareness of Department** - Established a departmental advisory committee using a wide-variety of industry stakeholders; hired a public relations person to develop newsletters, press releases, social media of Departmental activities to the College, University and stakeholders.

**Research Animal Scientist, USDA, Agricultural Research Service** May 2002- Aug. 2011.

Responsibilities included, but were not limited to:

- Conducted independent research in the areas of growth and development, physiology, and nutrition of grazing cattle.
- Assembled and led or co-led numerous multi-disciplinary research teams including the University of Arkansas, University of Missouri, University of Georgia, New Mexico State University, and Langston University as well as numerous ARS researchers and Natural Resources Conservation Service (NRCS) personnel.
- Served as location Lead Scientist of the Food Animal Production National Program
- Served as Authorized Departmental Officer's Designated Representative (ADODR) for Specific Cooperative Agreements between ARS and University of Arkansas, Oregon State University, and University of Missouri.
  - responsible for program stewardship, oversight and accountability for approximately \$1 million in funding for partnerships between ARS and university partners
  - foster team building and strategic long-term planning (5 year projects)
  - ensure partnerships are cooperative in nature, mission relevant, properly budgeted, monitored, and completed in accordance with the terms and conditions of the agreement.
- Served as Acting Research Leader USDA-ARS, Poultry Production/Product Safety Research Unit, Fayetteville, AR, 2011.
- Adjunct Professor, Department of Biology, University of Arkansas, Ft. Smith – instructed Anatomy/Physiology and Biological Science courses (a total of 20 semesters), January 2003-May 2011.
- Adjunct Assistant Professor and Graduate Faculty, Department of Animal Science, University of Arkansas, Fayetteville. August 2002- August 2011.

***Accomplishments***

- **New projects were implemented between ARS and University partners.** I was requested to participate in focus groups that provided planning for ARS laboratories in Kentucky and Oklahoma. At the request of the ARS National Program Staff, I assessed specific research programs at laboratories in Montana and Nebraska.

- **Co-advised six M.S. and three Ph.D. graduate students.** Trained the next generation of animal science professionals that are employed at Universities, allied industry personnel, and government agencies.
- **Funded research projects (\$800,000) and published over 386 authored or coauthored publications.** (61 peer-refereed journal articles, 2 book chapters, 77 peer-refereed agriculture experiment station reports, 26 conference proceedings, 85 misc. publications/popular press articles, 22 Extension fact sheets/bulletins, and 113 research abstracts).
- **Invited to present over 25 seminars** on various livestock-related topics throughout the United States, China, and Argentina.

**Extension Dairy Specialist, Assistant Professor (80% Extension:20% Research). New Mexico State University.** June 1999-May 2002.

Responsibilities included, but were not limited to:

- Develop and deliver formal and informal educational programs for producers, county extension faculty, and allied industry personnel.
- Develop and coordinate youth (4-H and FFA) educational activities.
- Graduate advisor to four Master of Science students.
- Instruct
  - Dairy Production (ANSC 417; 2 semesters)
  - Dairy Cattle Judging (ANSC 295 and ANSC 395; 1 semester)
  - New Mexico Dairy Production/Processing (ANSC 350/550; 1 semester)
  - Special Topics (ANSC 448; 4 semesters)

***Accomplishments***

- **Creation of an advisory board.** Provided communication among dairy producers, allied industry partners, and the University. These activities included an annual convention and trade show.
- **Development of a state-wide dairy industry tour, dairy judging team, and Dairy Science Club.** These activities provided interaction between students that had an interest in learning more about the dairy industry as they pursued their college degree.
- **Conducted “Dairy Employee Certification” workshops.** These trainings offered "hands-on" experience to the state's dairy employees and persons interested in employment on dairy operations. This project was funded through a grant from the New Mexico Works program (\$38,925).
- **Conducted research on beef quality assurance in the dairy industry.** Identified and designed preventative management strategies to reduce antibiotic residues in market dairy cows. This research was funded by the National Cattlemen's Beef Association (\$47,335).

## **SELECTED AWARDS and HONORS**

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- 2017 - Diplomate of the American College of Animal Sciences, American Registry of Professional Animal Scientists
- 2014 - Advanced Graduate of Distinction, Department of Animal Science, Oklahoma State University
- 2009 - Presidential Early Career Award for Scientists and Engineers (PECASE)
- 2005-2010 - USDA/ARS, Certificate of Merit (Outstanding Performance Rating)
- 2009 - USDA/ARS, Herbert L. Rothbart Outstanding Early Career Research Scientist
- 2009 - USDA/ARS, Southern Plains Area, Early Career Research Scientist of the Year
- 2009 - American Society of Animal Science (Southern Section) Outstanding Young Animal Scientist Research Award
- 2008 - Luella M. Krehbiel Teaching Excellence Award, Univ. of Arkansas, Ft. Smith
- 2006 - American Society of Animal Science (Southern Section) Outstanding Young Animal Scientist Education Award

## **PROFESSIONAL DEVELOPMENT**

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- LEAD21 - Leadership for the 21<sup>st</sup> Century - Class X, 2014-15.
- Fellow, Southeastern Conference University Academic Leadership Program, 2012-13.
- ARS/NIFA National Animal Production Program Planning Workshop, Baltimore, 2011.
- Brookings Institution Course - "Managing the Federal Employee Discipline and Performance Process", College Station, TX, 2010.
- USDA-Southern Plains Area Leadership Conference, Dallas, TX, 2009.
- ARS/CSREES National Animal Production Program Planning Workshop, Kansas City, MO, 2006.
- Agricultural Research Service National Scientific Leadership Conference, New Orleans, LA, 2004.
- Grant Writers' Seminars and Workshops, Houston, TX, 2002.
- Institutional Animal Care & Use Committee (IACUC) Training, 2000-01.
- Member - American Registry of Professional Animal Scientists (ARPAS), 1998-current.
- Member - American Society of Animal Science, 1994-current.

## **CONTRIBUTIONS TO PROFESSIONAL SOCIETIES**

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- American Society of Animal Science, President-Elect (2014-15), President (2015-16), and Past President (2016-17).
- Southern Section, American Society of Animal Science, Advisory Committee, 2013-18.
- Division Editor, *Journal of Animal Science*, Animal Production Section, 2011-13.
- American Society of Animal Science, Investment Committee, 2010-12.
- American Society of Animal Science, International Activities/Involvement Committee, 2010-12.
- American Society of Animal Science, Director-At-Large, Executive Committee, 2009-12.
- Chair, Southern Pastures and Forage Crop Improvement Conference, 2010.
- Associate Editor, *Journal of Animal Science*, Animal Production Section, 2006-09.

- President - American Registry of Professional Animal Science, Arkansas Chapter, 2006-07.
- President - Arkansas Forage and Grassland Council, 2007-09.
- *The Professional Animal Scientist* Editorial Board, 2003-09.
- Arkansas Forage and Grassland Council Board of Directors, 2004-06.
- 1890 Institution Teaching and Research Capacity Building Grants Program Panel Reviewer, Washington D.C., 2004-2007.
- The Professional Animal Scientist Editorial Board, 2003-2009.
- USDA-CSREES, National Research Initiative Competitive Grants Program -Ad hoc Reviewer, 2006 and 2007.
- USDA-ARS, Southern Plains Area, Diversity Enrichment in Agriculture Research (DEAR) Committee.

### **COMMUNITY INVOLVEMENT**

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- Sebastian County (Arkansas) 4-H Foundation, 2012-current.
- Board of Trustee, Arkansas-Oklahoma Regional Education and Promotion Association, Inc. (Arkansas-Oklahoma State Fair and Old Fort Days Rodeo), 2012-current.
- Sebastian County (Arkansas) Conservation District Board, 2007-13.
- Logan County (Arkansas) Extension Council, 2009-2012.
- Fair Chairman, Arkansas-Oklahoma State Fair, 2013-16.
- Fair President, Sebastian County (Arkansas) Fair, 2009-12.

### **GRANTS RECEIVED – EXTRAMURALLY FUNDED RESEARCH**

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- 2017, Gadberry, S., J. Apple, J. Robinson, T. Justice, and **M. Looper**. Assessment of the Arkansas Beef Industry. Arkansas Beef Council, \$9,925.
- 2012, Rosenkrans, C. F., Jr., **M. L. Looper**, A. Szalanski, H. M. Arelovich, R. D. Bravo, and M. F. Martinez. Management strategies for sustainable beef production: opportunities for student collaborative research and information exchange. DBCAFLS International Programs, \$3,000.
- 2011, **Looper, M. L.**, C. F. Rosenkrans, Jr., J. Apple, F. Pohlman, and A. Szalanski. Management practices to reduce calf stress and increase food safety. Arkansas Beef Council, \$29,650.
- 2010, **Looper, M. L.** Presidential Early Career Award for Scientists and Engineers (PECASE), \$25,000.
- 2010, **Looper, M. L.** USDA/ARS, Herbert L. Rothbart Outstanding Early Career Research Scientist Award, \$25,000.
- 2008, **Looper, M. L.** Effects of pasture management on pathogenic bacteria runoff. Arkansas Natural Resources Commission, \$3,500.

- 2006, Rosenkrans, C.F., Jr., I. Nabhan, A. H. Brown, Jr., M. A. Brown, and **M. L. Looper**. Use of acute phase proteins and glucocorticoid receptor polymorphisms as physiological/genetic markers of animal health, USDA, Animal Health CRIS, \$11,750.
- 2006, Coffey, K. P., M. P. Popp, J. A. Jennings, M. C. Savin, **M. L. Looper**, and C. F. Rosenkrans, Jr. Beef cattle supply chain impacts of novel endophyte fescue: Tradeoffs between animal and forage performance in the tall fescue region. National Research Initiative (NRI), \$453,853.
- 2005, Rosenkrans, Jr., C. F., I. Nabhan, A. H. Brown, Jr., M. A. Brown, and **M. L. Looper**. Use of acute phase proteins and glucocorticoid receptor polymorphisms as physiological/genetic markers of animal health. USDA, Animal Health CRIS, \$14,750.
- 2003, Rosenkrans, Jr., C. F., M. Lamb, J. Kirby, **M. Looper**, and A. Moubarak. Use of lactate dehydrogenase as a physiological/genetic marker of animal health. USDA, Animal Health CRIS, \$11,750.
- 2002, Rosenkrans, Jr., C. F., M. Lamb, J. Kirby, **M. Looper**, and A. Moubarak. Use of lactate dehydrogenase as a physiological/genetic marker of animal health. USDA, Animal Health CRIS, \$12,000.
- 2001, Moore, D. A., M. A. Payne, D. J. Klingborg, R. W. Sams, F. Garry, W. R. Wailes, D. E. Falk and D. Hansen et al. Dairy beef: Maximizing quality and profits. Funded by the American Distance Education Consortium. \$68,901.
- 2001, **Looper, M. L.** Milking procedures certification via distance education. Funded by New Mexico Works Program, Las Cruces, NM. \$38,925.
- 2000, **Looper, M. L.**, and B. R. Covey. Travel funds for NMSU dairy judging team. Funded by Southwest Dairy Farmers/Museum, Sulphur Springs, TX. \$12,545.
- 2000, **Looper, M. L.** Strategies to reduce antibiotic residues in market dairy cows. Funded by National Cattlemen's Beef Association, Denver, CO. \$47,335.
- 2000, **Looper, M. L.** Computer for data collection. Funded by Purina Mills, St. Louis, MO. \$2,257.
- 2000, **Looper, M. L.** Improving reproductive efficiency in dairy cows with proper semen handling. Funded by COBA/Select Sires, Columbus, OH. \$3,500.
- 1999, **Looper, M. L.**, and M. G. Thomas. Investigation of factors affecting estrous behavior and reproductive efficiency in dairy and beef cattle. Funded by DDx, Inc., Denver, CO. \$9,474 (HeatWatch System).

## PUBLICATIONS

Book Chapters	2
Peer-Reviewed Journal Articles	62
Agriculture Experiment Station Publications	77
Conference Proceedings	26
Extension Publications	22
Miscellaneous Publications and Presentations	85
Scientific Abstracts	113
<b>TOTAL</b>	<b>387</b>

**Peer-Reviewed Journal Articles**

- 1) Meyer, L., J. Powell, B. Kutz, **M. Looper**, A. H. Brown, Jr., and C. F. Rosenkrans, Jr. 2017. Associations of single nucleotide polymorphisms in the bovine prolactin gene with phenotypic traits in beef cattle. *AgGene* 5:7-11.
  
- 2) Backes, E. A., J. D. Caldwell, B. C. Shanks, K. R. Ness, A. N. V. Stewart, D. L. Kreider, and **M. L. Looper**. 2015. Performance and behavior of spring-born Katahdin lambs weaned using traditional or fenceline weaning methods in the morning or evening. *Sheep Goat Res. J.* 30:13-17.
  
- 3) Lents, C. A., **M. L. Looper**, A. J. Ojeda, J. A. Vizcarra, and R. P. Wettemann. 2015. Removal of ruminal contents followed by restricted feeding does not affect the frequency of luteinizing hormone pulses in steers. *Prof. Anim. Sci.* 31:349-353.
  
- 4) Jacobs, A., K. R. Brye, J. R. King, J. L. Douglas, L. S. Wood, L. C. Purcell, and **M. L. Looper**. 2015. Switchgrass management practice effects on near-surface soil properties in west-central Arkansas. *Open J. Soil Sci.* 5:69-96.
  
- 5) Devine, T. L., C. F. Rosenkrans, Jr., D. Philipp, A. J. Davis, T. D. Lester, R. W. Rorie, and **M. L. Looper**. 2015. Growth, reproductive development, and estrous behavior of beef heifers treated with growth promotants. *Prof. Anim. Sci.* 31:114-119.
  
- 6) Backes, E. A., J. D. Caldwell, B. C. Shanks, K. R. Ness, A. N. V. Stewart, L. S. Wilbers, C. A. Clifford-Rathert, A. K. Busalacki, H. A. Swartz, D. L. Kreider, and **M. L. Looper**. 2014. Performance by yearling Katahdin ewes grazing toxic tall fescue using either continuous or rotational grazing schemes in late spring through summer. *Sheep Goat Res. J.* 29:11-16.
  
- 7) Roberts, C. A., D. K. Davis, **M. L. Looper**, R. L. Kallenbach, G. E. Rottinghaus, and N. S. Hill. 2014. Ergovaline and total ergot alkaloid concentrations in high- and low-moisture tall fescue silage. *Crop Sci.* 54:1887-1892.
  
- 8) Mays, A. R., **M. L. Looper**, B. C. Williamson, K. P. Coffey, W. K. Coblenz, G. E. Aiken, and C. F. Rosenkrans, Jr. 2013. Forage and breed effects on behavior and temperament of pregnant beef heifers. *J. Anim. Sci. Biotechnol.* 4:20-25.
  
- 9) Sales, M. A., K. Y. Murphy, S. T. Reiter, A. H. Brown, Jr., M. A. Brown, **M. L. Looper**, and C. F. Rosenkrans, Jr. 2013. Effects of forage type, body condition, and single-nucleotide polymorphisms in the bovine cytochrome P450 regulatory region on cow productivity. *J. Anim. Phys. Anim. Nut.* 97:91-96.
  
- 10) Caldwell, J. D., K. P. Coffey, J. A. Jennings, D. Philipp, A. N. Young, J. D. Tucker, D. S. Hubbell, III, T. Hess, **M. L. Looper**, C. P. West, M. C. Savin, M. P. Popp, D. L. Kreider, D. Hallford, and C. F. Rosenkrans, Jr. 2013. Performance by spring and fall-calving cows grazing with full, limited, or no access to toxic *Neotyphodium coenophialum*-infected fescue. *J. Anim. Sci.* 91:465-476.



- 11) Brauer, D., D. E. Brauer, **M. L. Looper**, D. Burner, D. H. Pote, and P. A. Moore, Jr. 2012. Effects of the establishment of a forested riparian buffer and grazing on soil characteristics. *Comm. Soil Sci. Plant Anal.* 43:1332-1343.
- 12) Sales, M. A., M. J. Larson, S. T. Reiter, A. H. Brown, Jr., M. A. Brown, **M. L. Looper**, K. P. Coffey, and C. F. Rosenkrans, Jr. 2012. Effects of bovine cytochrome P450 single nucleotide polymorphism, forage type, and body condition on production traits in cattle. *J. Anim. Phys. Anim. Nut.* 96:545-553.
- 13) Aiken, G. E., J. L. Klotz, J. M. Carter, **M. L. Looper**, S. F. Tabler, and F. N. Schrick. 2011. Disrupted hair follicle activity in cattle grazing endophyte-infected tall fescue in the summer insulates core body temperatures. *Prof. Anim. Sci.* 27:336-343.
- 14) Strickland, J. R., **M. L. Looper**, J. C. Matthews, C. F. Rosenkrans, Jr., M. D. Flythe, and K. R. Brown. 2011. BOARD-INVITED REVIEW: St. Anthony's Fire in livestock: Causes, mechanisms and potential solutions. *J. Anim. Sci.* 89:1603-1626.
- 15) Caldwell, J. D., K. P. Coffey, W. K. Coblenz, J. A. Jennings, D. S. Hubbell, III, D. L. Kreider, **M. L. Looper**, D. L. Galloway, E. B. Kegley, and C. F. Rosenkrans, Jr. 2011. Weaning and post-weaning performance by fall-born beef calves weaned on different dates in the spring from *Neotyphodium coenophialum*-infected tall fescue pastures. *Livestock Sci.* 135:44-52.
- 16) **Looper, M. L.**, S. T. Reiter, B. C. Williamson, M. A. Sales, D. M. Hallford, and C. F. Rosenkrans, Jr. 2010. Effects of body condition on measures of intramuscular and rump fat, endocrine factors, and calving rate of beef cows grazing common bermudagrass or endophyte-infected tall fescue. *J. Anim. Sci.* 88:4133-4141.
- 17) Burke, J. M., S. W. Coleman, C. C. Chase, Jr., D. G. Riley, **M. L. Looper**, and M. A. Brown. 2010. Interaction of breed type and endophyte-infected tall fescue on milk production and quality in beef cattle *J. Anim. Sci.* 88:2802-2811.
- 18) Rosenkrans, C., Jr., A. Banks, S. Reiter, and **M. Looper**. 2010. Calving traits of crossbred Brahman cows are associated with heat shock protein 70 genetic polymorphisms. *Anim. Repro. Sci.* 119:178-182.
- 19) **Looper, M. L.**, S. G. Black, S. T. Reiter, R. Okimoto, Z. B. Johnson, M. A. Brown, and C. F. Rosenkrans, Jr. 2010. Identification of polymorphisms in the enhancer region of the bovine prolactin gene and association with profitability traits of beef cattle. *Prof. Anim. Sci.* 26:103-108.
- 20) **Looper, M. L.**, G. E. Aiken, and C. F. Rosenkrans, Jr. 2009. Management strategies for cattle grazing toxic tall fescue during summer months. *Forag. Grazlnds.* doi:10.1094/FG-2009-1102-03-RV.
- 21) Wang, H., **M. L. Looper**, Z. B. Johnson, R. W. Rorie, and C. F. Rosenkrans, Jr. 2009. Involvement of signaling pathways in bovine sperm motility, and effect of ergot alkaloids. *In Vitro Cell Dev. Biol. Anim.* 45:483-489.

- 22) **Looper, M. L.**, T. S. Edrington, and C.F. Rosenkrans, Jr. 2009. Influence of body condition and forage type on prevalence of *Escherichia coli* O157:H7 and *Salmonella* in grazing beef cows. *Let. Appl. Micro.* 49:361-365.
- 23) Aiken, G. E., J. R. Strickland, **M. L. Looper**, L. P. Bush, and F. N. Schrick. 2009. Hemodynamics are altered in the caudal artery of beef heifers fed different ergot alkaloid concentrations. *J. Anim. Sci.* 87:2142-2150.
- 24) **Looper, M. L.**, T. S. Edrington, T. R. Callaway, and C. F. Rosenkrans, Jr. 2009. Fate of *Escherichia coli* O157:H7 and *Salmonella* from contaminated manure slurry applied to soil surrounding tall fescue. *Let. Appl. Micro.* 48:513-516.
- 25) Caldwell, J. D., K. P. Coffey, W. K. Coblenz, J. A. Jennings, D. S. Hubbell, III, D. L. Kreider, **M. L. Looper**, and C. F. Rosenkrans, Jr. 2009. Performance by fall-calving cows grazing tall fescue pastures with different proportions stockpiled. *Forag. Grazlnds.* doi:10.1094/FG-2009-0312-01-RS.
- 26) **Looper, M. L.**, R. W. Rorie, C. N. Person, T. D. Lester, D. M. Hallford, G. E. Aiken, C. A. Roberts, G. E. Rottinghaus, and C. F. Rosenkrans, Jr. 2009. Influence of toxic endophyte-infected fescue on sperm characteristics and endocrine factors of yearling Brahman-influenced bulls. *J. Anim. Sci.* 87:1184-1191.
- 27) **Looper, M. L.**, T. S. Edrington, A. S. Moubarak, T. R. Callaway, and C. F. Rosenkrans, Jr. 2008. Effects of the ergot alkaloids dihydroergotamine, ergonovine, and ergotamine on the growth of *Escherichia coli* O157:H7 in vitro. *Foodborne Path. Dis.* 5:599-604.
- 28) Flores, R., **M. L. Looper**, R. W. Rorie, D. M. Hallford, and C. F. Rosenkrans, Jr. 2008. Endocrine factors and ovarian follicles are influenced by body condition and somatotropin in postpartum beef cows. *J. Anim. Sci.* 86:1335-1344.
- 29) Callaway, T. R., T. S. Edrington, A. D. Brabban, R. C. Anderson, M. L. Rossman, M. J. Engler, K. J. Genovese, J. E. Keen, **M. L. Looper**, E. M. Kutter, and D. J. Nisbet. 2008. Bacteriophage isolated from feedlot cattle can reduce *Escherichia coli* O157:H7 populations in ruminant intestinal tracts. *Foodborne Path. Dis.* 5:183-191.
- 30) Flores, R., W. K. Coblenz, R. K. Ogden, K. P. Coffey, **M. L. Looper**, C. P. West, and C. F. Rosenkrans, Jr. 2008. Effects of fescue type and sampling date on the nitrogen disappearance kinetics of autumn-stockpiled tall fescue. *J. Dairy Sci.* 91:1597-1606.
- 31) Lents, C. A., R. P. Wettemann, M. J. Paape, **M. L. Looper**, and D. S. Buchanan. 2008. Effects of dry cow treatment of beef cows on pathogenic organisms, milk somatic cell counts, and calf growth during the subsequent lactation. *J. Anim. Sci.* 86:748-755.
- 32) **Looper, M. L.**, T. P. Neidecker, Z. B. Johnson, and C. F. Rosenkrans, Jr. 2008. Relationship of lactate dehydrogenase activity with body measurements of beef cows and calves. *Prof. Anim. Sci.* 24:60-66.

- 33) Aiken, G. E., B. H. Kirch, J. R. Strickland, L. P. Bush, **M. L. Looper**, and F. N. Schrick. 2007. Hemodynamic responses of the caudal artery to toxic tall fescue in beef heifers. *J. Anim. Sci.* 85:2337-2345.
- 34) Flores, R., W. K. Coblenz, R. K. Ogden, K. P. Coffey, **M. L. Looper**, C. P. West, and C. F. Rosenkrans, Jr. 2007. Effects of fescue type and sampling date on the ruminal disappearance kinetics of autumn-stockpiled tall fescue. *J. Dairy Sci.* 90:2883-2896.
- 35) Flores, R., **M. L. Looper**, R. W. Rorie, M. A. Lamb, S. T. Reiter, D. M. Hallford, D. L. Kreider, and C. F. Rosenkrans, Jr. 2007. Influence of body condition and bovine somatotropin on estrous behavior, reproductive performance, and concentrations of serum somatotropin and plasma fatty acids in postpartum Brahman-influenced cows. *J. Anim. Sci.* 85:1318-1329.
- 36) **Looper, M. L.**, T. S. Edrington, R. Flores, J. M. Burke, T. R. Callaway, G. E. Aiken, F. N. Schrick, and C. F. Rosenkrans, Jr. 2007. Influence of dietary endophyte-infected (*Neotyphodium coenophialum*) tall fescue (*Festuca arundinacea*) seed on fecal shedding of antibiotic-resistance selected *Escherichia coli* O157:H7 in ewes. *J. Anim. Sci.* 85:1102-1108.
- 37) Edrington, T. S., T. R. Callaway, S. E. Ives, M. J. Engler, **M. L. Looper**, R. C. Anderson, and D. J. Nisbet. 2006. Seasonal shedding of *Escherichia coli* O157:H7 in ruminants: a new hypothesis. *Foodborne Path. Dis.* 3:413-421.
- 38) Edrington, T. S., **M. L. Looper**, S. E. Duke, T. R. Callaway, K. J. Genovese, R. C. Anderson, and D. J. Nisbet. 2006. Effect of ionophore supplementation on the incidence of *Escherichia coli* O157:H7 and *Salmonella* and antimicrobial susceptibility of fecal coliforms in stocker cattle. *Foodborne Path. Dis.* 3:284-291.
- 39) Flores, R., **M. L. Looper**, D. L. Kreider, N. M. Post, and C. F. Rosenkrans, Jr. 2006. Estrous behavior and initiation of estrous cycles in postpartum Brahman-influenced cows after treatment with progesterone and prostaglandin F<sub>2α</sub>. *J. Anim. Sci.* 84:1916-1925.
- 40) **Looper, M. L.**, T. S. Edrington, R. Flores, C. F. Rosenkrans, Jr., and G. E. Aiken. 2006. *Escherichia coli* O157:H7 and *Salmonella* in water and soil from tall fescue paddocks. *Foodborne Path. Dis.* 3:203-208.
- 41) Aiken, G. E., **M. L. Looper**, S. F. Tabler, D. K. Brauer, J. R. Strickland, and F. N. Schrick. 2006. Influence of stocking rate and steroidal implants on growth rate of steers grazing toxic tall fescue and subsequent physiological responses. *J. Anim. Sci.* 84:1626-1632.
- 42) **Looper, M. L.**, T. S. Edrington, R. Flores, C. F. Rosenkrans, Jr., M. E. Nihsen, and G. E. Aiken. 2006. Prevalence of *Escherichia coli* O157:H7 and *Salmonella* in beef steers consuming different forage diets. *Lett. Appl. Micro.* 42:583-588.
- 43) **Looper, M. L.**, G. E. Aiken, R. Flores, and C. F. Rosenkrans, Jr. 2005. Influence of nutrient supplementation on body weight and condition, and pregnancy of market beef cows grazing stockpiled and spring-growth tall fescue. *Prof. Anim. Sci.* 21:225-231.

- 44) Aiken, G. E., S. F. Tabler, **M. L. Looper**, and D. K. Brauer. 2005. Supplementation with ground corn is cost effective for increasing weight gain of steers grazing bermudagrass. *Forag. Grazlnds.* doi:10.1094/FG-2005-0210-01-RS.
- 45) Hume, M. E., T. S. Edrington, **M. L. Looper**, T. R. Callaway, K. J. Genovese, and D. J. Nisbet. 2004. Salmonella genotype diversity in nonlactating and lactating dairy cows. *J. Food. Prot.* 67(10):2280-2283.
- 46) Edrington, T. S., C. L. Schultz, K. J. Genovese, T. R. Callaway, **M. L. Looper**, K. M. Bischoff, J. L. McReynolds, R. C. Anderson, and D. J. Nisbet. 2004. Examination of heat stress and stage of lactation (early versus late) on fecal shedding of *E. coli* O157:H7 and *Salmonella* in dairy cattle. *Foodborne Path. Disease* 1(2):114-119.
- 47) Aiken, G. E., F. M. Rouquette, and **M. L. Looper**. 2004. Prediction of future carcass traits in stocker cattle at the conclusion of grazing. *Prof. Anim. Sci.* 20:246-254.
- 48) Edrington, T. S., C. L. Schultz, K. M. Bischoff, T. R. Callaway, **M. L. Looper**, K. J. Genovese, Y. S. Jung, J. L. McReynolds, R. C. Anderson, and D. J. Nisbet. 2004. Antimicrobial resistance and serotype prevalence of *Salmonella* isolated from dairy cattle in the Southwestern United States. *Microb. Drug Resist.* 10:51-56.
- 49) Rogers, C. A., A. C. Fitzgerald, M. A. Carr, B. R. Covey, J. D. Thomas, and **M. L. Looper**. 2004. On-farm management decisions to improve beef quality of market dairy cows. *J. Dairy Sci.* 87:1558-1564.
- 50) Edrington, T. S., M. E. Hume, **M. L. Looper**, A. C. Fitzgerald, T. R. Callaway, K. J. Genovese, K. M. Bischoff, J. L. McReynolds, R. C. Anderson, and D. J. Nisbet. 2004. Variation in the faecal shedding of *Salmonella* and *E. coli* O157:H7 in lactating dairy cattle and examination of *Salmonella* genotypes using pulsed field gel electrophoresis. *Lett. Appl. Micro.* 38:366-372.
- 51) Flores, R., **M. L. Looper**, D. M. Hallford, and M. G. Thomas. 2004. Influence of bovine somatotropin on characteristics of estrus and reproduction of Holstein cows during summer months. *Prof. Anim. Sci.* 20:191-197.
- 52) Moore, D. A., J. H. Kirk, D. J. Klingborg, F. Garry, W. Wailes, J. Dalton, J. Busboom, M. Payne, J. Marchello, M. Poe, **M. Looper**, D. Falk, and T. Wright. 2004. DairyBeef: Maximizing quality and profits – a consistent food safety message. *J. Dairy Sci.* 87:183-190.
- 53) Fitzgerald, A. C., and **M. L. Looper**. 2003. Non-antibiotic treatment of postpartum dairy cows with fever and metabolic disorders. *Prof. Anim. Sci.* 19:429-434.
- 54) Fitzgerald, A. C., T. S. Edrington, **M. L. Looper**, T. R. Callaway, K. J. Genovese, K. M. Bischoff, J. L. McReynolds, J. D. Thomas, R. C. Anderson, and D. J. Nisbet. 2003. Antimicrobial susceptibility and factors affecting the shedding of *Escherichia coli* O157:H7 and *Salmonella* in dairy cattle. *Lett. Appl. Micro.* 37:392-398.

- 55) **Looper, M. L.**, C. A. Lents, and R. P. Wettemann. 2003. Body condition at parturition and postpartum weight changes do not influence the incidence of short-lived corpora lutea in postpartum beef cows. *J. Anim. Sci.* 81:2390-2394.
- 56) Rogers, C. A, T. W. Drummond, R. Flores, C. P. Mathis, and **M. L. Looper**. 2003. Case Study: Estrous characteristics and pregnancy rates of beef heifers administered two synchronization protocols. *Prof. Anim. Sci.* 19:19-22.
- 57) **Looper, M. L.**, J. A. Vizcarra, R. P. Wettemann, J. R. Malayer, T. D. Braden, R.D. Geisert, and G. L. Morgan. 2003. Influence of estradiol, progesterone, and nutrition on concentrations of gonadotropins and GnRH receptors, and gene expression for GnRH receptors and gonadotropin subunits in pituitaries of beef cows. *J. Anim. Sci.* 81:269-278.
- 58) White, F. J., R. P. Wettemann, **M. L. Looper**, T. M. Prado, and G. L. Morgan. 2002. Seasonal effects on estrous behavior and time of ovulation in beef cows. *J. Anim. Sci.* 80:3053-3059.
- 59) **Looper, M. L.**, C. F. Rosenkrans, Jr., Z. B. Johnson, A. H. Brown, Jr., J. A. Hornsby, and J. L. Perkins. 2002. Relationships among growth characteristics of replacement Angus heifers. *Prof. Anim. Sci.* 18:120-126.
- 60) Lents, C. A., R. P. Wettemann, M. J. Paape, J. A. Vizcarra, **M. L. Looper**, D. S. Buchanan, and K. S. Lusby. 2002. Efficacy of intramuscular treatment of beef cows with oxytetracycline to reduce mastitis and to increase calf growth. *J. Anim. Sci.* 80:1405-1412.
- 61) Brown, A. H., Jr., C. F. Rosenkrans, Jr., Z. B. Johnson, **M. L. Looper**, B. A. Sandelin, and E. L. Oxford. 2000. Heritability of lactate dehydrogenase activity in replacement beef heifers. *Doklady Vsesoyuzoni Akademii Sel's Kokhozyaistvennykh Nauk Im. Rep. Russian Acad. Agric. Sci.* 6:40-42.
- 62) **Looper, M. L.**, J. A. Vizcarra, and R. P. Wettemann. 2000. Estrous and luteal activity of postpartum beef cows after treatment with gonadotropin-releasing hormone and prostaglandin F<sub>2</sub> $\alpha$ . *Prof. Anim. Sci.* 16:207-212.