

Karol E. Fike, PhD

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Strengths Quest Top 5: Adaptability ~ Relator ~ Responsibility ~ Belief ~ Connectedness

EMPLOYMENT

Department of Animal Sciences & Industry, Kansas State University (May, 2008 to present)

Position: Faculty Member (non-tenure track)

- **Teach undergraduate and graduate students**
 - Farm Animal Reproduction (ASI 400: Fall 2013-present; enrollment = 69-143)
 - Animal Sciences & Industry Internship (ASI 599; Year round; enrollment= 5-40)
 - Animal Sciences & Industry Career Preparation (ASI 580; 2010-present; enrollment =109-270)
 - “Embryo Techniques” – Special Topics (ASI 662 – 2017-18; enrollment =10-12)
 - “Feedlot Management” – Special Topics (ASI 662 – 2019-present; enrollment = 20)
 - Physiology of Reproduction in Farm Animals (ASI 710; 2009-present biennially; enrollment range=8-22)
 - Beef Science (2 semesters/ year; Fall, 2009-Spring, 2013; co-taught; enrollment range=55 to 103)
 - Animal Behavior (ASI 655; Fall, 2008; enrollment=67)
 - Stress Physiology (ASI 825; Fall, 2008; graduate course; enrollment=13)
- **Advise undergraduate students**
 - Formal (assigned advisor) academic, personal, and career advisement~70 undergraduate students
 - Informal (seek counseling from me though I’m not their assigned advisor) academic, personal and career advisement – approximately 100+ different undergraduate students per year
- **Conduct research evaluating physiological mechanisms of reproduction in livestock, beef bull development and management, and factors influencing value of calves sold via video auction; experimental design; data collection and analysis; write grant proposals, scientific journal articles, and publications for livestock producers**
- **Advise graduate students**
 - Master of Science student, Ms. Natalie Miller (completed June, 2012)
 - Master of Science student, Ms. Alissa Kirchhoff (completed July, 2015)
 - Master of Science student, Ms. Dayna Shaw (co-advised; completed Dec., 2016)
 - Master of Science student, Ms. Esther McCabe (completed Jan., 2018)
 - PhD student, Ms. Esther McCabe (completed Dec., 2020)
 - Master of Science student, Ms. Maggie Smith (completed May, 2020)
 - Master of Science student, Mr. Kolton Aubuchon (co-advised; completed August, 2022)
 - PhD student, Ms. Ashley Hartman (co-advise; current)
 - Master of Science student, Mr. Wyatt Banks (current)
- **Program development**
 - Established ASI Mentors (undergraduate student team) with key roles in student recruitment, social media engagement, prospective student visits, and Departmental stakeholder-facing activities.
 - Planned and executed (with collaboration from ASI faculty, staff, and students & Ag Comm/Ag Ed faculty) the 2022 Kansas State University Cattlemen’s Day - Student Edition recruitment/engagement event attended by 100 students and 14 high school ag advisors.

Department of Animal Sciences & Industry, Kansas State University (2006 to 2008)

Position: Research Associate

Manage research program evaluating electronic animal identification technologies and issues impacting their effectiveness in livestock production environments including development of research protocols, oversight of undergraduate and graduate student workers; data collection and analyses; budget management and report generation

Contract Work (2004 to 2008)

Certified Angus Beef, LLC

- “Here’s the Premium” price tracking project: organized and collected feeder calf sale data from auction markets; wrote popular press article summarizing results

McCormick Company

- Compiled and summarized research information and wrote a news release regarding Mycomune® product

Ohio State University, Department of Animal Sciences

- Modified nine animal welfare PowerPoint teaching modules

Kansas State University, College of Veterinary Medicine, Department of Clinical Sciences

- Compiled and summarized research information and wrote a book chapter
- Developed an education pamphlet on livestock transport issues
- Reconciled electronic animal identification data & tracking information & wrote summary reports as component of USDA grant: “Animal Transport: Use of mobile technologies to link premise identification, animal location and individual animal identification to semi-loads of cattle or swine during commercial transport” with Dr. Mark Spire

Kansas State University, Department of Animal Sciences and Industry

- Wrote USDA National Animal Identification System grant entitled “Impact of Environmental Interferences and Performance Variation on Radio-Frequency Transponder and Transceiver Reliability and Economic Assessment of Radio-Frequency Identification Technology Implementation in Animal Production Environments” for Dr. Dale Blasi in cooperation with the Kansas Animal Health Department; grant was fully-funded (\$441430)

Department of Animal Sciences, The Ohio State University, Columbus, OH (July, 2000 to July, 2004)

Position: Assistant Professor

Appointment: 70% teaching and 30% research

- Taught Introductory Animal Sciences, Freshman Research Seminar, Animal Products (team taught)
- Developed and coordinated departmental undergraduate internship program
- 1. Advised 50-70 undergraduate students (est. 60% pre-vet initially); 2 MS graduate students, 6 Honors students
- Developed and managed research program in male and female reproductive physiology

Western Iowa Tech Community College, Denison Campus, Denison, IA (June, 1998 to May, 2000)

Adjunct Instructor

Courses taught: Anatomy and Physiology II Basic Anatomy and Physiology
Human Nutrition Introduction to Biology

Iowa State University Extension East Pottawattamie County, Oakland, IA (Summers, 1997 & 1999)

Extension Livestock Assistant

Collected and analyzed 4-H beef carcass data. Developed summary reports and program slide presentation of data collection process and carcass data summary.

University of Nebraska-Lincoln, Department of Animal Science, Lincoln, NE (1991 to 1997)

Graduate Research and Teaching Assistant

Conducted research trials in animal science field; collected, analyzed data and presented research results at scientific meetings and livestock extension education events; wrote and published research

results; sole responsibility for teaching Animal Management; coached Livestock Judging Team; organized/presented 10-15 livestock judging clinics

Peters Farms (family operation), rural Bellevue, IA

Raised on diversified crop and livestock (beef cattle and sheep) operation that was sole income source for family. Responsibilities included assisting in crop planting and harvest, feeding and health care of cattle and sheep, calving and lambing assistance, cattle estrous detection and artificial insemination, pasture maintenance, and fence-building.

EDUCATION

Ph.D. in Animal Science; emphasis in Beef Cattle Reproductive Physiology, University of Nebraska-Lincoln
August, 1997

Dissertation: "Regulation of LH secretion by progestins and their use in estrous synchronization programs in beef cattle"

Advisor: Dr. James E. Kinder

M.S. in Animal Science; emphasis in Beef Cattle Reproductive Physiology, University of Nebraska-Lincoln
December, 1994

Thesis: "Role of LH in development of ovarian follicles and corpora lutea in cattle"

Advisor: Dr. James E. Kinder

B.S. in Animal Science, Iowa State University, May, 1991

PUBLICATIONS (myself or my students)

Book Chapter

Fike K and M F Spire. "Transportation of Cattle" 2006. Veterinary Clinics of North America: Food Animal Practice Vol 22, Issue 2, 2006:305-320.

Journal Articles

McCabe, ED, ME King, **KE Fike**, and KG Odde. 2022. Effect of Holstein and beef-dairy cross breed description on the sale price of feeder and weaned calf lots sold through video auctions. *Applied Animal Science* 38:70-78. <https://doi.org/10.15232/aas.2021-02215>

Smith, MJ, ED McCabe, **KE Fike**, GM Rogers, TE Wittum, and KG Odde. 2021. Factors affecting the sale price of bred heifers and bred beef cows sold through video auctions. *Applied Animal Science* 37(2):P217-224. DOI: <https://doi.org/10.15232/aas.2020-02066>

McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2020. Breed trends in beef calf lots marketed through video auctions from 1995 through 2018. *Applied Animal Science* 36:78-90 <https://doi.org/10.15232/aas.2019-01902>

McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2019. Breed composition affects the sale price of steer and heifer calves sold through video auctions from 2010 through 2016. *Applied Animal Science* 32(2): 221-226. <https://doi.org/10.15232/aas.2018-01806>

NA Miller and **KE Fike**. 2014. Exposure of prepubertal beef bulls to cycling females does not enhance sexual development. *Theriogenology* 82(3):447-454.

Ryan, S, D Blasi, C Anglin, A Bryant, B Rickard, M Anderson, and **K Fike**. 2010. Read distance performance and variation of 5 low-frequency radio frequency identification panel transceiver manufacturers. *J Anim Sci* 88:2514-2522.

Fike, KE, F Kojima, B Lindsey, E Bergfeld, J Quintal, E Melvin, E Zanella, M Wehrman and J Kinder. 2004. Regulation of frequency of luteinizing hormone pulses by magnitude of acute change in circulating concentration of progesterone of female cattle *Anim Reprod Sci* 84: 279-291.

Fike, KE, ME Wehrman, BR Lindsey, EG Bergfeld, EJ Melvin, JA Quintal, EL Zanella, FN Kojima, and JE Kinder. 1999 Estrous synchronization in beef cattle with a combination of melengestrol acetate and an injection of progesterone and 17 β -estradiol. *J Anim Sci* 77:715-723.

- Fike, KE**, ML Day, EK Inskeep, JE Kinder, PE Lewis, RE Short, and HD Hafs. 1997. Estrus and luteal function in suckled beef cows that were anestrous when treated with an intravaginal device containing progesterone with or without a subsequent injection of estradiol benzoate. *J Anim Sci* 75:2009-2015.
- Fike, KE**, ME Wehrman, EGM Bergfeld, FN Kojima, and JE Kinder. 1997. Prolonged increased concentrations of 17 β -estradiol associated with development of persistent ovarian follicles do not influence conception rates in beef cattle. *J Anim Sci* 75:1363-1367.
- Fike, KE**, EG Bergfeld, AS Cupp, FN Kojima, V Mariscal, T Sanchez, ME Wehrman, HE Grotjan, DL Hamernik, RJ Kittok, and JE Kinder. 1997. Gonadotropin secretion and development of ovarian follicles during oestrous cycles in heifers treated with luteinizing hormone releasing hormone antagonist. *Anim Reprod Sci* 49:83-100.
- Fike, KE**, EG Bergfeld, AS Cupp, FN Kojima, V Mariscal, T Sanchez, ME Wehrman and JE Kinder. 1996. Influence of fenceline bull exposure on postpartum anestrous interval and pregnancy rate in beef cows. *Anim Reprod Sci* 41:161-167.
- Peters, KE**, EG Bergfeld, AS Cupp, FN Kojima, V Mariscal, T Sanchez, ME Wehrman, HE Grotjan, DL Hamernik, RJ Kittok, and JE Kinder. 1995. Luteinizing hormone has a role in development of fully functional corpora lutea (CL) but is not required to maintain CL function in heifers. *Biol Reprod* 51:1248-1254.

Journal Abstracts – oral or poster presentations at national or regional ASAS meetings

- Fike, KE** and PT Anderson. 2022. Kansas State University Feedlot Boot Camp and Teaching Program: Growing Student Interest and Engagement in the Feedlot Industry. *Journal of Animal Science*, Volume 100, Issue Supplement_2, May 2022, Pages 121–122, <https://doi.org/10.1093/jas/skac064.206>
- Hartman, AR, ED McCabe, D Jacobs, DM Grieger, and **KE Fike**. 2022. Sire Distribution of Calves in a Herd with use of Fixed Time Artificial Insemination Followed by Immediate Bull Exposure for Natural Service. *Journal of Animal Science*, Volume 100, Issue Supplement_2, May 2022, Pages 84–85, <https://doi.org/10.1093/jas/skac064.136>
- Bortoluzzi, EM, K Aubuchon, ND Robben, M Goering, C Bronkhorst, JA Odde, C Breiner, **KE Fike**, LE Hulbert, and KG Odde. 2021. Comparing methods of Raising Twin Beef Calves. *Journal of Animal Science*, Volume 99, Issue Supplement 1, May 2021, Pages 3–4, <https://doi.org/10.1093/jas/skab054.005>
- McCabe, ED, MJ Smith, ME King, **KE Fike**, GM Rogers, and KG Odde. 2021. Effect of Beef-dairy Cross Breed Description on the Sale Price of Lots of Steer Calves Sold Through Superior Livestock Auction in 2020 Summer Video Sales. *Journal of Animal Science*, Volume 99, Issue Supplement 1, May 2021, Pages 10–11, <https://doi.org/10.1093/jas/skab054.017>
- McCabe, ED, MJ Smith, ME King, **KE Fike**, GM Rogers, and KG Odde. 2020. Effect of trucking distance on sale price of beef calf and feeder cattle lots sold through video auctions from 2010 through 2018. *Journal of Animal Science*, Volume 98, Issue Supplement 3, November 2020, Pages 10–11, <https://doi.org/10.1093/jas/skaa054.017>
- McCabe, ED, LP Sorell, M Zhang, A Hartman, **KE Fike**, KG Odde, and DM Grieger. 2020. Imitating the dynamic bovine cervix with 3D printing technology to teach artificial insemination in cattle. *Journal of Animal Science*, Volume 98, Issue Supplement_3, November 2020, Page 147, <https://doi.org/10.1093/jas/skaa054.258>
- Smith, MJ, ME King, **KE Fike**, ED McCabe, GM Rogers, and KG Odde. 2020. Trends in the percentage of modified live, killed, and combination respiratory viral vaccines administered to beef calves offered for sale in summer video auctions from 2000 through 2018. *Journal of Animal Science*, Volume 98, Issue Supplement_3, November 2020, Pages 9–10, <https://doi.org/10.1093/jas/skaa054.016>
- Fike, KE**. Addressing the diverse needs and career interests of animal sciences undergraduate students in a career preparations course, *Journal of Animal Science*, Volume 97, Issue Supplement 3, December 2019, Pages 177–178, <https://doi.org/10.1093/jas/skz258.365>
- McCabe, ED MJ Smith, ME King, **KE Fike**, GM Rogers, KG Odde. Sale price of Holstein feeder steer lots relative to other breed descriptions sold through Superior Livestock video sales from 2010 through 2018, *Journal of Animal Science*, Volume 97, Issue Supplement 3, December 2019, Pages 29–30, <https://doi.org/10.1093/jas/skz258.058>

- Smith, MJ, ED McCabe, ME King, **KE Fike**, GM Rogers, KG Odde, 200 Effect of value-added health protocols within region on the sale price of beef calf lots sold through summer video auctions from 2010 through 2018, *Journal of Animal Science*, Volume 97, Issue Supplement 3, December 2019, Page 29, <https://doi.org/10.1093/jas/skz258.057>
- McCabe, ED, ME King, **KE Fike**, MJ Smith, KL Hill, GM Rogers, and KG Odde. 2019. Effect of implant status and non-hormone treated cattle status on sale price of beef calves-Superior Livestock Video Auction. *Journal of Animal Science*, Volume 97, Issue Supplement 2, July 2019, Page 7, <https://doi.org/10.1093/jas/skz122.012>
- Smith, MJ, ED McCabe, ME King, **KE Fike**, MJ Smith, KL Hill, GM Rogers, and KG Odde. 2019. Factors affecting the sale price of bred heifers sold through Superior Livestock video auctions from 2010 through 2017, *Journal of Animal Science*, Volume 97, Issue Supplement 2, July 2019, Pages 8–9, <https://doi.org/10.1093/jas/skz122.014>
- McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2018. Source and Age Verified Lots of Beef Calves Sold for a Premium Via Summer Video Auction from 2010 through 2017. *Journal of Animal Science*, Volume 96, Issue suppl_2, 10 April 2018, Pages 225–226, <https://doi.org/10.1093/jas/sky073.417>
- McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2018. Trends in Percentage of Beef Calf Lots Sired By Single Sire Breeds and Marketed Via Video Auction from 2010 through July 14, 2017. *Journal of Animal Science*, Volume 96, Issue suppl_2, 10 April 2018, Pages 67–68, <https://doi.org/10.1093/jas/sky073.125>
- McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2018. Trends in the Percentage of Lots of Beef Calves Qualifying for Various Health Programs When Sold Via Summer Video Auctions from 1995 through 2017. *Journal of Animal Science*, Volume 96, Issue suppl_2, 10 April 2018, Pages 226, <https://doi.org/10.1093/jas/sky073.418>
- McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2017. Influence of the Brahman breed in beef calf lots marketed through summer video auctions from 1995 through 2015. *Journal of Animal Science*, Volume 95, Issue suppl_2, 1 March 2017, Pages 26, <https://doi.org/10.2527/asasmw.2017.056>
- McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2016. Breed and gender interact to affect the sale price of beef calves sold through video auctions from 2010 through 2014. *J Anim Sci* 94 (Suppl. 2):28.
- Shaw, DC, **KE Fike**, and DM Grieger. 2016. Effect of delayed insemination of non-estrous beef heifers following a 7-d-CO-Synch plus controlled internal drug release (CIDR) insert timed artificial insemination protocol. *J Anim Sci* 94 (E-Suppl. 5):532.
- Kirchhoff, AA and **KE Fike**. 2014. Effect of an injectable trace mineral supplementation in yearling bulls on serum and semen trace mineral levels and reproductive parameters. *J Anim Sci* 92 (Suppl. 2):67.
- Miller, NA and **K Fike**. 2012. Exposure of prepubertal beef bulls to cycling females does not enhance sexual development. *J Anim Sci* 90 (Suppl. 3):519.
- Miller, NA, **K Fike**, D Grieger, A Castro, and D Dean. 2012. Effect of melengestrol acetate and growth promotants on oocyte yield, quality, fertilization rate and developmental competence of in vitro embryo production in beef heifers. *J Anim Sci* 90 (Suppl. 2):118.
- Fike, KE**, BA Rickard, SE Ryan, and DA Blasi. 2009. Performance tests of e-ID devices and equipment under various beef cattle management scenarios. Book of Abstracts of the 60th Annual Meeting of the European Association for Animal Production; 15:484.
- Ryan SE, DA Blasi, **KE Fike**, CO Anglin, AM Bryant, and BA Rickard. 2008. Read distance performance of low frequency radio frequency identification (RFID) panel transceivers varies across transponder manufacturer. *J Anim Sci* 86, (E-Suppl. 3):56.
- Dauch, D, **K Fike**, M Mussard, G Bridges, C Gasser, D Grum, M Davis, and M Day. 2005. Endocrine and follicular dynamics in beef heifers divergently selected for peripheral IGF-1 concentrations. *J Anim Sci* 83 (Suppl. 2):53.
- Osborne, JM, **KE Fike**, KA Grove, GD Fike, KH Hoblet, JE Kinder, and PH Hemsworth. 2004. Animal Welfare Education Modules: Enhancing the quality of education for students of food animal agriculture and health. *J Anim Sci* 82:(Suppl 2):105.
- Behlke, EJ, CR Burke, CL Gasser, ML Mussard, and **KE Fike**. 2003. Effects of long term treatment with GnRH agonist on testicular development and the attainment of puberty in bull calves. *J Anim Sci* 81 (Suppl.

2):20.

- Fike, KE** and AK Lahmers. 2003. Adding value to education: an undergraduate animal sciences internship program. *J Anim Sci* 81:(Suppl 1):26.
- Fike KE**, FN Kojima, EG Bergfeld, BR Lindsey, EJ Melvin, JA Quintal, EL Zanella, ME Wehrman, and JE Kinder. 1997. Magnitude of shift in concentration of progesterone (P4) in circulation does not alter LH secretion to the same extent as absolute concentration of P4 in heifers. *Biol Reprod (Suppl 1)* 56:120.
- Fike, KE**, ME Wehrman, BR Lindsey, EG Bergfeld, EJ Melvin, JA Quintal, EL Zanella, and JE Kinder. 1997. Estrous synchronization in beef cattle with melengestrol acetate (MGA) and an injection of progesterone (P4). *J Anim Sci (Suppl 1)* 75:232.
- Fike, KE**, ML Day, EK Inskeep, JE Kinder, PE Lewis, RE Short, and HD Hafs. 1996. Luteal activity and estrus in anestrus suckled beef cows after implants of progesterone with or without a subsequent injection of estradiol. *Congress Programme of the 13th Intl Congress on Anim Reprod (Vol 2)* P4-17.
- Peters, KE**, ME Wehrman, EGM Bergfeld, EJ Melvin, FN Kojima and JE Kinder. 1994. Protocol of progestin administration influences time to behavioral estrus but does not influence conception rates at the synchronized estrus after cessation of treatment in bovine females. *J Anim Sci (Suppl 1)* 73:89.
- Peters, KE**, EG Bergfeld, AS Cupp, FN Kojima, V Mariscal, T Sanchez, ME Wehrman, HE Grotjan, DL Hamernik, and JE Kinder. 1994. Suppression of pulsatile secretion of LH diminishes ovarian follicular development in heifers. *J Anim Sci (Suppl 2)* 72:78.
- Peters, KE**, EG Bergfeld, AS Cupp, FN Kojima, V Mariscal, T Sanchez, ME Wehrman and JE Kinder. 1993. Influence of fenceline bull exposure on postpartum anestrus interval and conception rate in beef cows. *J Anim Sci (Suppl 1)* 71:72.
- Peters, KE**, EG Bergfeld, AS Cupp, FN Kojima, V Mariscal, T Sanchez, ME Wehrman, H.E. Grotjan, D. Hamernik and J.E. Kinder. 1993 Pulsatile secretion of LH is not necessary for development of fully functional corpora lutea but is not required to maintain CL function in heifers. *J Anim Sci (Suppl 1)* 71:216.

Departmental Publications

- Aubuchon, K. W.; Odde, J. A.; Bronkhorst, C.; Bortoluzzi, E. M.; Goering, M. J.; **Fike, K. E.**; and Odde, K. G. (2022) "Field Trial Assessing the Use of Sex-Sorted Semen in Beef Cattle," *Kansas Agricultural Experiment Station Research Reports: Vol. 8: Iss. 1.* <https://doi.org/10.4148/2378-5977.8233>
- Hartman, A. R.; Goodenow, N. M.; Tucker, S. K.; **Fike, K. E.**; and Grieger, D. M. (2022) "Challenges Associated with Semen Quality While Collecting Beef Bulls for Semen Freezing," *Kansas Agricultural Experiment Station Research Reports: Vol. 8: Iss. 1.* <https://doi.org/10.4148/2378-5977.8232>
- McCabe, E. D.; King, M. E.; **Fike, K. E.**; and Odde, K. G. (2022) "Effect of Holstein and Beef-Dairy Cross Breed Description on the Sale Price of Feeder and Weaned Calf Lots Sold Through Video Auctions," *Kansas Agricultural Experiment Station Research Reports: Vol. 8: Iss. 1.* <https://doi.org/10.4148/2378-5977.8231>
- McCabe, E. D.; King, M. E.; **Fike, K. E.**; Smith, M. J.; Rogers, G. M.; and Odde, K. G. (2021) "Effect of Trucking Distance on Sale Price of Beef Calf and Feeder Cattle Lots Sold Through Video Auctions from 2010 Through 2018," *Kansas Agricultural Experiment Station Research Reports: Vol. 7: Iss. 1.* <https://doi.org/10.4148/2378-5977.8023>
- McCabe, E. D.; King, M. E.; **Fike, K. E.**; Groves, M.; and Odde, K. G. (2021) "Carcass Trait Trends for Steers and Heifers Finished Through the Tri-County Steer Carcass Futurity Cooperative from 2002 Through 2018," *Kansas Agricultural Experiment Station Research Reports: Vol. 7: Iss. 1.* <https://doi.org/10.4148/2378-5977.8025>
- Smith, M. J.; **Fike, K. E.**; King, M. E.; McCabe, E. D.; Rogers, G. M.; and Odde, K. G. (2021) "Trends in the Percentage of Doses of Modified Live, Killed, and Combination Respiratory Viral Vaccines Administered to Beef Calves Offered for Sale in Summer Video Auctions From 2000 Through 2018," *Kansas Agricultural Experiment Station Research Reports: Vol. 7: Iss. 1.* <https://doi.org/10.4148/2378-5977.8024>
- Smith, M. J.; **Fike, K. E.**; King, M. E.; McCabe, E. D.; Rogers, G. M.; and Odde, K. G. (2021) "Relationships Among Terminal Traits and Sale Prices of Red Angus Bulls Sold at Auction From 2017 Through 2019," *Kansas Agricultural Experiment Station Research Reports: Vol. 7: Iss. 1.* <https://doi.org/10.4148/2378-5977.8026>

- Smith, M. J.; **Fike, K. E.**; King, M. E.; McCabe, E. D.; Rogers, G. M.; and Odde, K. G. (2021) "Relationships Among Maternal Traits and Sale Prices of Red Angus Bulls Sold at Auction From 2017 Through 2019," *Kansas Agricultural Experiment Station Research Reports*: Vol. 7: Iss. 1. <https://doi.org/10.4148/2378-5977.8027>
- Smith, M. J.; McCabe, E. D.; King, M. E.; **Fike, K. E.**; Rogers, G. M.; and Odde, K. G. (2020) "Region of Origin in the United States Affects Price Premiums Associated with Value-Added Health Protocols of Beef Calf Lots Sold Through Summer Video Auctions from 2010 Through 2018," *Kansas Agricultural Experiment Station Research Reports*: Vol. 6: Iss. 2. <https://doi.org/10.4148/2378-5977.7889>
- Smith, M. J.; McCabe, E. D.; King, M. E.; **Fike, K. E.**; Rogers, G. M.; and Odde, K. G. (2020) "Factors Affecting the Sale Price of Bred Heifers and Bred Cows Sold Through Superior Livestock Video Auctions," *Kansas Agricultural Experiment Station Research Reports*: Vol. 6: Iss. 2. <https://doi.org/10.4148/2378-5977.7888>
- McCabe, E. D.; Smith, M. J.; King, M. E.; **Fike, K. E.**; Rogers, G. M.; and Odde, K. G. (2020) "Sale Price of Holstein Feeder Steer Lots Relative to Other Breed Descriptions Sold Through Superior Livestock Video Sales from 2010 Through 2018," *Kansas Agricultural Experiment Station Research Reports*: Vol. 6: Iss. 2. <https://doi.org/10.4148/2378-5977.7887>
- Odde, K. G.; King, M. E.; McCabe, E. D.; Smith, M. J.; Hill, K. L.; Rogers, G. M.; and Fike, K. E. 2019. "Trends in "Natural" Value-Added Calf Programs at Superior Livestock Video Auction." *Kansas Agricultural Experiment Station Research Reports*: Vol. 5: Iss. 1. <https://doi.org/10.4148/2378-5977.7718>
- McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2018. Trends in Beef Calf Lots Sired by Single Sire Breeds Marketed Via Video Auction From 2010 Through July 14, 2017. *Kansas Agricultural Experiment Station Research Reports* (Vol 4 Issue 1) (<https://doi.org/10.4148/2378-5977.7553>)
- McCabe, ED, ME King, **KE Fike**, KL Hill, GM Rogers, and KG Odde. 2018. Trends in Source and Age Verification for Beef Calves Sold via Summer Video Auction from 2010 Through 2017 *Kansas Agricultural Experiment Station Research Reports* (Vol. 4 Issue 1) <https://doi.org/10.4148/2378-5977.7553>
- McCabe, E, M King, **K Fike**, K Hill, G Rogers, and K Odde. 2017. Influence of the Brahman breed in beef calf lots marketed through summer video auctions from 1995 through 2015. *Kansas Agricultural Experiment Station Research Reports*: Vol. 3: Iss. 1. <https://doi.org/10.4148/2378-5977.1343>
- McCabe, E, M King, **K Fike**, K Hill, G Rogers, and K Odde. 2016. Breed and gender interact to affect the sale price of beef calves sold through video auctions from 2010 through 2014. *Kansas State University Cattlemen's Day Beef Cattle Research Report*: Vol. 2, Issue 1. <https://doi.org/10.4148/2378-5977.1343>
- Shaw, D, **K Fike**, and D Grieger. 2016. Delayed Insemination of Non-Estrual Beef Heifers in 7-day CO-Synch Timed Artificial Insemination. *Kansas State University Cattlemen's Day Beef Cattle Research Report*: Vol. 2, Issue 1.
- Kirchhoff, A, **K Fike**, and R Breiner. 2015. An injectable trace mineral supplement in yearling bulls causes a short term increase in circulating trace mineral levels, but does not improve sperm quality. *Kansas Agricultural Experiment Station Research Reports*: Vol. 1, Issue 1.
- Miller, N, R Breiner, T Taul, S Tucker and **K Fike**. 2013. Exposure of prepubertal beef bulls to cycling females does not affect age at puberty nor ability to pass an initial breeding soundness examination. *Kansas State University Cattlemen's Day Beef Cattle Research Report* pp 30-33.
- Miller, N, D Grieger and **K Fike**. 2012. MGA and growth promotants administered to beef feedlot heifers have no effect on subsequent oocyte quality or in vitro embryo production. *Kansas State University Cattlemen's Day Beef Cattle Research Report* pp 39-41.
- Fike, K**, M Day, K Inskeep, J Kinder, P Lewis, R Short and H Hafs. 1998. Induction of estrus in anestrous suckled beef cows. *Nebraska Beef Report* pp 26-28.
- Fike, K**, M Wehrman, B Lindsey, E Bergfeld, E Melvin, J Quintal, E Zanella, F Kojima and J Kinder. 1998 A novel estrous synchronization program for cattle using melengestrol acetate. *Nebraska Beef Report* pp 29-33.
- Fike, K**, B Lindsey, E Bergfeld, F Kojima, J Quintal, E Zanella, E Melvin, M Wehrman, and J Kinder. 1998 Regulation of LH secretion by progesterone in heifers. *Nebraska Beef Report* pp 35-37.

- Fike, K, M Wehrman, E Bergfeld, F Kojima and J Kinder.** 1998. Prolonged elevated concentrations of estradiol do not affect conception rates in beef cattle. *Nebraska Beef Report* pp 38-40.
- Fike, KE.** 1995. Reproductive Anatomy and Physiology. In: *Beef Basics II: Reproduction, Genetics, and Selection Home Study Course*. Sponsored by: University of Nebraska Cooperative Extension and Institute of Agriculture and Natural Resources.
- Peters, K, M Wehrman, E Bergfeld, A Cupp, F Kojima, T Sanchez, V Mariscal and J Kinder.** 1994. Fenceline bull exposure effect on postpartum anestrous interval and pregnancy rate in cows. *Nebraska Beef Report* pp 12-13.

Magazine Articles

- Fike, K.** 2007. Here's the Premium: Angus-based feeder premiums strongest for steers. *Angus Journal* Sept.
- Fike, KE and JE Kinder.** 1996. More bull for your money. *Limousin World*; May.
- Peters, KE and JE Kinder.** 1995. More bull for your money. *Charolais Journal*; March.

SELECTED INVITED TALKS AND EXTENSION EDUCATION ACTIVITIES

“Kansas State University Feedlot Boot Camp and Teaching Program: Growing Student Interest and Engagement in the Feedlot Industry”. Midwest ASAS meeting. (March, 2022)

“Veterinary Undergraduate Internship Experiences”. APVMA Symposium. Manhattan, KS (March, 2022)

Panel Member on “Career Path Opportunities & Challenges”. 2022. Women Managing the Farm Conference. Manhattan, KS (February).

“Feedlot Boot Camp Program Update and Recognition of Student Scholarship Awardees”. 2021. Kansas Livestock Association Annual Convention (December).

“Value-Added Opportunities” Drovers/Farm Journal recorded webinar (June 4, 2021)

Invited podcast contributor – “Training Students in Animal Science, New Technologies in the Repro World, Matching Cows to the Environment” Kansas State University Beef Cattle Institute. (June 18, 2021) <https://ksubci.org/2021/06/18/training-students-in-animal-science-new-technologies-in-the-repro-world-matching-cows-to-the-environment/>

“Feedlot Boot Camp Program Update and Recognition of Student Scholarship Awardees”. 2020. Kansas Livestock Association Annual Convention (December).

“Animal Reproduction” Zoom presentation to ~12 high school students at Erie High School, Kansas as part of College’s prospective student engagement/recruitment efforts (January, 2020)

“Feedlot Boot Camp Program Update and Recognition of Student Scholarship Awardees”. 2019. Kansas Livestock Association Annual Convention (December).

“Internship and Career Opportunities and Resources in Animal Sciences”. Annually from 2012-present. To 6 sections of ASI 101 – Animal Sciences Freshmen Foundations courses, Manhattan, KS (October).

Invited talk – Animal Science Graduate Student Association, Kansas State University – presentation on “Career Preparation: CVs, cover letters, applying for positions” – to ~12 graduate students (November, 2019)

Invited talk – Alpha Gamma Rho Scholarship dinner, Kansas State University –advice on scholarship and

professional development (November, 2019)

Invited talk – Rock Creek Junior/Senior High School Business Foundations class – presentation on “Career Readiness” to ~15 high school students (December, 2018)

K-State Cattlemen’s Day afternoon breakout session presentation entitled “Development of Work Skills Through Internships” and moderated student & industry representative panel (March, 2018)

Invited talks - Kansas State University Pre-Vet Club meeting; delivered presentation on internship opportunities to ~50 students (November, 2011-2015)

Invited talk - Kansas State University GenAg 210 “Human and Cultural Diversity in the Food and Agricultural Sciences”; delivered presentation regarding women in agriculture to ~20 students (March, 2014, 2015, 2016)

Invited talk - Clay Center High School Career Day; delivered presentation on Animal Science major and careers to 30 high school students (October, 2012)

Evaluated materials for and provided faculty assistance to Kansas State 4-H Youth Livestock Skillathon competition (August, 2009 to 2016)

Invited talk - Kansas State University Sigma Alpha meeting; delivered presentation on internship opportunities and resume preparation to 20 students (February, 2011)

Invited talk - Iowa State University Extension northeast district; delivered presentation entitled “Factors Influencing Fertility” to 20 beef producers (December, 2009)

Presented Ag in Classroom workshop about animal disease trace-back (June, 2009)–for 12 elementary science teachers

Invited talk - ASTM RFID Performance Standard Taskforce Meeting; “Radio Frequency Identification Pilot Project Results” (November, 2008) – to 60 USDA National Animal Identification System leaders, academic colleagues, livestock industry and animal identification technology personnel

Invited talk – Kansas Animal Health Department Summer Meeting; “Radio Frequency Identification Pilot Project Results” (June, 2008) – to 30 Department veterinarians and staff

Developed and conducted Ag in Classroom workshop regarding animal disease trace back (June, 2008) – for 12 elementary science teachers

Delivered over 20 presentations impacting approximately 350 people regarding electronic animal identification technologies to livestock producers, teachers, industry professionals, legislative assistants, and students (2006-09)

Invited talk - Select Sires, Inc. male reproductive physiology think tank session- “Early Maturation Attempts in Nebraska and Ohio Using Agonists of GnRH” (October, 2002) – to 20 researchers and industry personnel

Farm Science Review, Molly Caren Agricultural Center, London, OH; co-organizer of Animal Sciences booth (Sept., 2002 & 2003)

Invited talk – Midwestern Sectional Meetings of American Society of Animal Science entitled “An Undergraduate Internship Program: Management to Maximize the Educational Experience” (March, 2002) - to approximately 40 students, academic colleagues, and industry personnel

Delivered presentation at 4-H Youth Expo (summer, 2002) regarding reproduction science in beef, sheep, and swine to approximately 40 4-H youth.

Wrote reproductive management section for the Ohio State University youth dairy resource handbook (spring, 2002) – to be published and distributed to youth in the dairy industry in Ohio.

Invited talk - to dairy producers in Putnam County, OH (winter, 2002) – “Reproductive Management in Dairy Cattle” – to approximately 25 dairy producers and industry personnel.

Agricultural Biotechnology Day Laboratory presentation (spring, 2001) – “Use of Ultrasonography in Food and

Companion Animals” – to 20 high school students that excel in science

Invited talk - at Tri-State Dairy Management Conference (autumn, 2001) entitled “Sexing Bovine Semen: When, How, and How Much?” – to approximately 70 producers and industry personnel

Delivered presentation at 4-H Youth Expo (summer, 2001) regarding reproduction science in beef, sheep, and swine to approximately 40 4-H youth.

FUNDING - Proposals Funded

Source	Authors	Year	Direct Cost (\$)
Sexing Technologies, Navasota, TX <i>Effect of melengestrol acetate and growth promotants on oocyte yield, quality, fertilization rate and developmental competence for in vitro embryo production in beef heifers</i>	K Fike - PI	2010	11905
Zoetis – <i>Western Kansas Feedlot & Dairy Industry Engagement for Undergraduates</i>	K Fike - PI	2013-16	5000
Zoetis, Midwest PMS, participating feedlots - <i>Feedlot Management Undergraduate Teaching Program – “Feedlot BootCamp”</i>	K Fike - PI	2018	45000
Red Angus Association of America – <i>Analysis of Management Factors Affecting Calf Value Marketed Via Video Auction</i>	K Odde and K Fike (Co-PIs)	2018	60000
Phibro Animal Health and various feedlots – <i>“Feedlot Management Undergraduate Teaching Program–“Feedlot BootCamp”</i>	K Fike - PI	2019	27000
Phibro Animal Health, MSBiotec, MicroTechnologies and various feedlots – <i>“Feedlot Management Undergraduate Teaching Program–“Feedlot BootCamp”</i>	K Fike - PI	2020	\$38,000
Livestock & Meat Industry Council (Kansas State University) <i>“Plan for Improving Student Recruitment and Communication Strategies”</i>	A Denton, S Schaake, C Jones, K Fike	2021	\$70,000
CASE Collaborative Recruitment Grant <i>“Engaging High School Students and Agricultural Education Advisors at the Kansas State University Cattlemen's Day”</i>	K Fike – PI (collaborators J Ellis, A Denton, C Jones, B Disberger)	2022	\$7850 (\$3000 via grant; \$4850 College and Dept matches)
Zoetis, Midwest PMS - Feedlot Management Undergraduate Teaching Program – <i>“Feedlot BootCamp”</i>	K Fike - PI	2022	\$40,000**
** verbal commitment for continued			

support over coming years			
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Proposals submitted but not funded

Source	Authors	Year	Total Requested (\$)
Kansas State University General Use Strategic Investment Proposal	C Jones, S Schaake, K Fike, and A Denton	2021	100,000
USDA Research and Extension Experiences for Undergraduates entitled <i>Expanding a Skilled Agricultural Workforce in the Ogallala Aquifer Region</i> .	C Jones – PI K Fike , A Crane, L Mendonca, J DeRouchey, J Waggoner – Co-PIs	2018	386,116
United States Department of Agriculture NIFA Multicultural Scholars Program	A Sexten, B Bradford, D Davis, K Fike	2012	200000
United States Department of Agriculture - Agriculture and Food Research Initiative Integrated Solutions for Animal Agriculture	D Davis, H Guthrie, K Dhuyvetter, R Goodband, and K Fike	2009	743748
United States Department of Agriculture Higher Education Challenge Grant	K Odde, K Fike , D Davis, D Nichols, and V Amanor-Boadu	2009	149569
United States Department of Agriculture Higher Education Challenge Grant	K Odde, K Fike , D Davis, D Nichols, and V Amanor-Boadu	2008	149354

Letter of intent proposals submitted and not invited for full proposal submission

Source	Authors	Date	Total Requested (\$)
United States Department of Agriculture - Agriculture and Food Research Initiative Integrated Solutions for Animal Ag	K Odde, T Lambert, L Hollis, and K Fike	2009	Not applicable

SELECTED AWARDS/HONORS

- Kansas State University College of Agriculture Outstanding Advisor Award (KSU, 2022)
- Mark and Eva Gardiner Innovation and Excellence Faculty Award (KSU, 2021)
- David J. Mugler Outstanding Teaching Award, College of Agriculture (KSU, 2020)
- Mentored an undergraduate student in completion of an undergraduate research experience entitled “Effects of Embryo Production Method and Day of Transfer Post-Estrus Into Recipients on Pregnancy Rates with Bovine Embryos”. He presented at the ASI Undergraduate Research Symposium in Dec., 2018 and received “honorable mention”
- “Last Lecturer” – College of Agriculture new graduate and alumni dinner (KSU, 2016)
- College of Food, Agricultural, and Environmental Sciences Rodney Plimpton Teaching Award (OSU, 2004)
- Who’s Who Among America’s Teachers (2004)
- University Career Services Award (OSU, 2003)
- College of Food, Agricultural, and Environmental Sciences Advising Award (OSU, 2003)
- Advisor of Denman Undergraduate Research Award Winner (OSU, 2003)
- Outstanding Teaching Assistant Award for College of Agriculture (UNL, 1997)
- Parents Association and Teaching Council Award (UNL, 1997)
- John Hallman Memorial Award (UNL, 1997)
- Milton E. Mohr Teaching Fellowship (UNL, 1996)
- Widaman Trust Distinguished Graduate Assistant Award (UNL, 1995)

SELECTED SERVICE ACTIVITIES

Kansas State University, College of Agriculture, and Department of Animal Sciences & Industry

- Dept. of Animal Sciences & Industry Recruitment Committee (2022-present)
- Dept of Animal Sciences & Industry Academic Quadrathlon Competition Chair; Team Advisor for participation at Midwestern ASAS section and National ASAS competitions (2009-present)
- Dept of Animal Sciences & Industry Teaching Advisory Committee (2021-present)
- Dept of Animal Sciences & Industry 3 Faculty Position(s) Search Committee member (2022)
- Dept of Animal Sciences & Industry Communications & Marketing Assistant Position Search Committee Chair (2022)
- Dept of Animal Sciences & Industry fall Welcome Back BBQ assistance (2018-present)
- State FFA Ag Systems project judge (2019)
- Animal Sciences Leadership Academy faculty mentor (2013-present)
- State 4-H Livestock Sweepstakes quiz bowl and skillathon facilitator (2012-present)
- Alpha of Clovia Faculty Advisor (2015-2018)
- Teaching Advisory Committee (2009-2016)
- Western Kansas Feedlot and Dairy tour for undergraduate students (2013-17)
- Meat Science Faculty Position Search Committee member (2013-14)
- Purebred Beef Unit Manager Position Search Committee member (2013)
- Animal Behavior Faculty Position Search Committee member (2012)
- Block and Bridle Club Co-advisor (2011-spring, 2012)
- Prospective student visits (2010-present; meet with estimated 50 students and families per year)
- Ag Future of America Animal Health Corridor Tour student advisor (April, 2011 & 2012)
- Beef Stocker Unit Manager (2010) and Assistant Manager Search Committee (2010 & 2011)
- Spring Picnic (2009, 2012, 2017)
- Fall Picnic (2012)

Profession

- Reviewer of journal article submissions for:
 - o *Journal of Animal Science, Theriogenology, and Animal Reproduction Science*

Midwestern Section of American Society of Animal Sciences

- o Teaching committee (2002-04, 2010-11, 2011-present; chair-2004, 2012-13; 2021-present; Chair 2022)
- o Academic Quadrathlon committee (2002-2004; 2011-present)
 - Chair of Oral Presentation (2012-present)
 - Chair of Beef cattle station of lab practicum (2012-present)

Ohio State University

- Department of Animal Science
 - o Academic Affairs Committee
 - o Co-coordinating Advisor
 - o Academic Quadrathlon Chair
- College of Food, Agricultural, and Environmental Sciences
 - o Internships, Placement Committee
 - o Honors Committee
 - o Ohio Agriculture Research and Development Center Annual Conference Committee
 - o Career Services Advisory Board