

## KC Olson

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Department of Animal Science and Industry  
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### Education

#### **Doctor of Philosophy**

May 1998  
Animal Sciences and Industry  
Kansas State University  
Manhattan, KS

#### **Master of Science**

June 1994  
Animal and Range Sciences  
North Dakota State University  
Fargo, ND

#### **Bachelor of Science**

June 1990  
Biology / Chemistry  
Minnesota State University  
Moorhead, MN

### Board Certification

#### **American College of Animal Nutrition**

May 1998  
American Registry of Profession Animal Scientists - Savoy, Illinois

### Professional Experience

**Title** Associate Professor / Professor and W.M. & F.A. Lewis Distinguished Chair

**Employer** Kansas State University – Department of Animal Sciences and Industry

**Supervisor** Dr. Michael Day  
232 Weber Hall, Kansas State University, Manhattan, KS 66506

**Period** January 2006 to Present

**Duties** Research (60%): Position responsibilities were to: 1) develop and maintain a beef cattle research program with emphasis on the nutrition and management of beef cows, calves, and stocker cattle grazing native range, 2) managerial oversight of financial, production, and research affairs for the KSU Commercial Cow-Calf Unit, and 3) direct graduate programs of M.S. and Ph.D. students. Expectations were to: 1) develop a research program with international visibility that resulted in a sustained record of publication and extramural funding and 2) to engage the cooperation of scientists within KSU and other Land Grant Universities. Research was supported by over \$3,000,000 in grants.  
Teaching (40%): Responsibilities were to: 1) teach undergraduate and graduate courses, 2) advise undergraduate and graduate students, and 3) contribute to the excellence of the teaching mission at KSU. Specific teaching endeavors include a semester course on domestic animal energy metabolism, a course on general ruminant nutrition, a course on management of grazing ruminants, and a capstone senior-level course in beef cattle science.

**Title** Assistant Professor / Associate Professor / Extension Beef Cattle Specialist

**Employer** University of Missouri - Animal Sciences Department

**Supervisor** Dr. Michael Smith & Dr. Rex Ricketts  
S-105 Animal Sciences Center, University of Missouri, Columbia, MO 65211

**Period** February 1998 to January 2006

**Duties** Extension (80%): Developed educational programs for beef producers, feeders, packers, processors, retailers, and consumers as a member of the Commercial Agriculture Beef Industry and Meat Industry Focus Teams. Educational initiatives involved nutrition, management, and marketing of beef cattle and emphasized economic and environmental sustainability. These programs were supported by more than \$630,000 in extramural funds.  
Research (20%): Research emphasis was three-fold: 1) ruminant energy metabolism, 2) sustainable use of forages and grain-milling byproducts, and 3) nutritional factors affecting beef quality. Research projects were supported by more than \$195,000 in extramural funds.  
Teaching (voluntary): Taught semester courses in ruminant energy metabolism, extension education, and food animal medicine. Courses emphasized whole animal energy metabolism; student training for careers in extension; and beef cattle nutrition, respectively.

**Title** Research Assistant  
**Employer** Kansas State University - Department of Animal Sciences and Industry  
**Supervisor** Dr. Robert Cochran  
136 Call Hall, Kansas State University, Manhattan, KS 66506  
**Period** June 1993 to January 1998  
**Duties** Research: Responsible for designing, conducting, and reporting various research projects dealing with the nutrition and management of beef cattle grazing native range. The position also required instruction of graduate students in research methods.  
Livestock and Facilities Management: Managed aspects of operation at the KSU Commercial Cow-Calf Unit, including record keeping and research project management.

**Title** Graduate Research Assistant  
**Employer** North Dakota State University - Department of Animal and Range Sciences  
**Supervisor** Dr. Joel Caton  
185 Hultz Hall, North Dakota State University, Fargo, ND 58105  
**Period** December 1990 to May 1993  
**Duties** Thesis topic involved nutrition of cattle grazing native range. Thesis research was conducted independently at an outlying research station (Central Grasslands Research Center, Streeter, ND). Taught three semesters of Feeds and Feeding laboratory. Assisted on many research projects involving aspects of grazing management, grassland ecology, and livestock nutrition.

**Title** Research Technician  
**Employer** North Dakota State University - Department of Animal and Range Sciences  
**Supervisor** Dr. Donald Kirby  
159 Hultz Hall, North Dakota State University, Fargo, ND 58105  
**Period** May 1990 to December 1990  
**Duties** Conducted research in grazing management and range ecology. Duties involved adapting written research protocol into practical rangeland monitoring techniques and employing a variety of methods to evaluate the effects of domestic livestock grazing on range condition and plant community dynamics.

#### **Professional Associations**

American Society of Animal Science	Society for Range Management
American College of Animal Nutrition	American Registry of Professional Animal Scientists
Tallgrass Legacy Alliance	Weed Science Society of America

#### **Academic and Professional Development Awards**

Animal Management Award, American Society of Animal Science – July 2019  
Professorial Performance Award, College of Agriculture, Kansas State University – July 2018  
Advisor of the Year, College of Agriculture. Kansas State University – April 2012  
Walter M. and Francis A. Lewis Distinguished Chair in Animal Sciences and Industry. Kansas State University – October 2011  
Excellence in Graduate Teaching, College of Agriculture. Kansas State University – April 2011  
Early Promotion to the Rank of Associate Professor, University of Missouri College of Agriculture, Food, and Natural Resources – January 2003  
Governor's Impact Award, Missouri Agricultural & Small Business Enterprise Center – August 2002  
Award for Outstanding Extension Programming, University of Missouri College of Agriculture, Food, and Natural Resources – August 2001  
Award for Outstanding Individual Achievement, Carnegie Scholars Communication Training – December 2000  
First Place, Doctoral Student Paper Competition, Society for Range Management Annual Convention – February 1996.  
First Place, Masters Student Paper Competition, Society for Range Management Annual Convention – February 1993.

## **Academic Service**

### ***National***

American Society of Animal Science

- Associate Editor, Ruminant Nutrition Section – Journal of Animal Science, 2008-2010
- Editorial Board – Journal of Animal Science, 2006-2014.
- Judge, Graduate Student Paper Competition, Midwestern Section Meetings, 2000, 2006
- Session Chair, Ruminant Nutrition and Forages, Midwestern Section Meetings, 2001, 2003, 2004
- Joint Committee on Animal Health – ASAS/ADSA, 2007-2010

Society for Range Management

- Director, Kansas Section, 2009-2010
- Peer Reviewer, 1998-present
- Awards Committee – Annual Convention, 2002
- Publicity Committee – Annual Convention, 2002
- Symposia Committee – Annual Convention, 2002

American Registry of Professional Animal Scientists

- Associate Editor-in-Chief – The Professional Animal Scientist, 2007-2009
- Editorial Board – The Professional Animal Scientist, 2004-2014

USDA / CSREES / NRCS

- Peer Review Panel – CSREES Teaching and Research Capacity Building Grants Program, 2003-2006

Agronomy Journal

- Peer Reviewer, 2003-present

Wildlife Society Bulletin

- Peer Reviewer, 2001-present

### ***International***

Israeli Ministry of Agriculture & Rural Development

- Professional Development Leave, 2018

World Association for Buiatrics

- Invited Speaker – 29<sup>th</sup> World Buiatrics Congress, 2016

Mongolian Agricultural University

- Guest Lecturer – Master of Veterinary Science Degree Program, 2008-present
- Professional Development Leave – VetNet N.G.O., Spring 2009

French Livestock Institute

- Host – Tour for members of the French Livestock Institute, 2008

Animal Nutrition Association of Canada

- Invited Speaker – 28<sup>th</sup> Annual Western Nutrition Conference, 2007

Diamond V International

- Host – Animal Agriculture Tour for Diamond V Mexico Division, 2006

### ***University of Missouri***

College of Agriculture, Food, and Natural Resources / Department of Animal Sciences

- Chair, Professional-Track Faculty Committee, College of Agriculture, Food, and Natural Resources, University of Missouri, 2000-2003.
- Member, Promotion Committee - Professional-Track Faculty, College of Agriculture, Food, and Natural Resources, University of Missouri, 2003-2006.

### ***Kansas State University***

College of Agriculture / Department of Animal Sciences and Industry

- Member – Honor Council, 2017-present
- Chair – Faculty Evaluation Committee, 2016-2017
- Member – Faculty Evaluation Committee, 2012-2017
- Advisor – Collegiate Cattlemen's Club at KSU, 2012-present
- Faculty Supervisor, KSU Commercial Cow-Calf Unit, 2006-present
- Superintendent - Cattlemen's Day Poster Session, 2007-2019

## Grants, Contracts, and Gifts Awarded

### *Principal Investigator Status – Kansas State University*

Source: Under review: National Science Foundation  
Funding: \$20,000,000  
Duration: October 2021 to September 2026  
Title: The Kansas State University Artificial Intelligence Institute  
Investigators: S. DeLoach, P. Hinzler, S. Welch, I. Ciampitti, A. Sharda, D. Flippo, L. Shamir, KC Olson, D. Thomson, M. Sanderson, N. Hendricks, J. Tack, M. Draper, J. Harner, D. Caragea, S. Hunchinson, M. Neilsen, A. Munir, E. Vasserman, W. Hsu, S. Tanona, C. Jackson

Source: Under review: Kansas Department of Wildlife, Parks, and Tourism  
Funding: \$1,890,329  
Duration: January 2021 to December 2025  
Title: Effects of prescribed-fire timing on population dynamics of sericea lespedeza, grazing cattle performance, native plant composition, native grassland birds, and soil health in the Flint Hills of Kansas  
Investigators: KC Olson, Dave Haukos, Walt Fick, Carol Baldwin, Dale Blasi

Source: Kansas Livestock Association  
Funding: \$2,500  
Duration: December 2019 to December 2020  
Title: Technology for non-invasive disease traceability for the beef and dairy industries  
Investigators: KC Olson and Dan Thomson

Source: Black Hereford Holdings, Inc.  
Funding: \$25,000  
Duration: December 2019 to December 2020  
Title: Technology for non-invasive disease traceability for the beef and dairy industries  
Investigators: KC Olson and Dan Thomson

Source: Kansas Beef Council  
Funding: \$48,500.00  
Duration: January 2020 to December 2020  
Title: A comparison of chemical composition, toxicology screening, estrogenic activity, taste panel evaluation, and price of meat substitutes with ground beef  
Investigators: Mike Apley, Fadi Aramouni, Dale Blasi, Steve Ensley, Mark Haub, Matt Miesner, KC Olson, Travis O'Quinn, Anthony Tarpoff, and Dan Thomson

Source: The Tallgrass Legacy Alliance  
Funding: \$25,000.00  
Duration: March 2019 to March 2020  
Title: Graduate Fellowship: effects of late-summer prescribed burning on population dynamics of old-world bluestems in Kansas mixed-grass prairie.  
Investigators: KC Olson

Source: A.P. and H.P. Heymann Agricultural Research Fund  
Funding: \$925,229.95  
Duration: December 2017 to December 2025  
Title: Effects of late-summer prescribed burning on population dynamics of Lespedeza cuneata, grazing cattle performance, plant species composition, and native-plant root carbohydrate reserves in the Flint Hills of Kansas  
Investigators: KC Olson

Source: The Tallgrass Legacy Alliance  
Funding: \$68,780.00  
Duration: July 2016 to October 2018  
Title: Restoration of Tallgrass Prairie Degraded by Sericea Lespedeza Invasion through Prescribed Fire and Fall Herbicide Application  
Investigators: KC Olson

Source: National Fish and Wildlife Foundation  
 Funding: \$870,740.00  
 Duration: June 2013 to November 2016  
 Title: Restoration of tallgrass prairie infested with sericea lespedeza through grazing and fire during the late growing season.  
 Investigators: KC Olson and D. Haukos

Source: Multimin USA, Inc.  
 Funding: \$187,000  
 Duration: September 2013 to August 2015  
 Title: The effects of Multimin® injectable trace-mineral solution on reproductive performance and semen quality of breeding beef bulls.  
 Investigators: KC Olson, J. Stevenson, B. Weaber, J. Jaeger, and J. Waggoner

Source: National Cattlemen's Beef Association  
 Funding: \$190,455  
 Duration: May 2013 to August 2014  
 Title: Animal health and welfare implications of beta adrenergic agonists (BAA) in feedlot cattle  
 Investigators: D. Thomson, L. Hulbert, M. Dikeman, C. Reinhardt, KC Olson, J. Gonzalez, S. Warren, D. Renter, S. Bartle, and D. Frese

Source: Archer Daniels Midland – Corn Milling Division  
 Funding: \$13,247  
 Duration: December 2011 – April 2012  
 Title: Effects of corn steep liquor as a prepartum protein supplement for beef cows grazing dormant tallgrass range during winter on performance and subsequent reproductive efficiency.  
 Investigators: KC Olson

Source: Archer Daniels Midland – Corn Milling Division  
 Funding: \$5,163  
 Duration: May 2011 – October 2011  
 Title: Use of corn steep liquor to stimulate consumption of sericea lespedeza by beef cows  
 Investigators: KC Olson

Source: Animal Health and Disease Research Funds, Section 1433  
 Funding: \$16,000  
 Duration: October 2010 – September 2011  
 Title: Effects of transport duration on health and growth of ranch-preconditioned beef calves during receiving and finishing  
 Investigators: KC Olson

Source: Animal Health and Disease Research Funds, Section 1433  
 Funding: \$19,757  
 Duration: May 2010 to December 2010  
 Title: Effects of transport duration on health status of preconditioned beef calves  
 Investigators: KC Olson

Source: Animal Health and Disease Research Funds, Section 1433  
 Funding: \$17,125  
 Duration: May 2010 to September 2010  
 Title: Effects of preweaning vaccination and preshipment weaning on calf health and growth II  
 Investigators: KC Olson

Source: Multimin USA, Inc.  
 Funding: \$40,800  
 Duration: December 2009 to June 2011  
 Title: The effect of Multimin® injectable trace mineral solution on reproductive efficiency of commercial beef cows.

Investigators: KC Olson and J. Jaeger

Source: Ralco International

Funding: \$31,035

Duration: May 2009 to January 2010

Title: The effect of chelated cobalt supplement on summer grazing performance by beef cows and calves

Investigator: KC Olson

Source: National Cattleman's Beef Association

Funding: \$50,000

Duration: August 2009 to June 2010

Title: Effects of supplementing DDGS to heavy, yearling stocker cattle during the last 90 days of grazing to improve carcass characteristics when utilizing a short feeding protocol.

Investigators: Terry Houser, Mike Dikeman, KC Olson, Dale Blasi, and Jim Drouillard

Source: Animal Health and Disease Research Funds, Section 1433

Funding: \$16,000

Duration: October 2008 to September 2009

Title: Effects of preweaning vaccination and preshipment weaning on calf health and growth

Investigators: KC Olson and J. Jaeger

Source: Alpha Animal Health

Funding: \$17,000

Duration: November 2008 to October 2009

Title: The effect of Aureomycin fed to beef calves on growth and health during receiving

Investigators: KC Olson and J. Jaeger

Source: New Generation Feeds

Funding: \$35,000

Duration: 12 months commencing June 2007

Title: The effect of mineral supplement delivery system on mineral intake, frequency of use, and performance by beef cows

Investigators: KC Olson and Jim Drouillard

Source: Agricultural Research Service Animal Issues Laboratory – Lubbock, TX

Funding: \$34,000

Duration: 12 months commencing September 2007

Title: Effects of time between maternal separation and shipping on feed intake, health, growth performance, and carcass merit of beef cattle weaned during the fall

Investigators: KC Olson, J. Jaeger, D. Thomson, and J. Carroll

Source: Duratech Industries, Inc. – Jamestown, ND

Funding: \$25,000

Duration: February 2007 to February 2010

Title: Improved efficiency of harvested forage use

Investigators: KC Olson and Twig Marston

Source: NRI 42.0 Animal Growth and Nutrient Utilization

Funding: \$349,957

Duration: March 2007 to March 2010

Title: Quantification of urea kinetics in beef cattle

Investigators: Evan Titgemeyer, KC Olson, and Mark Hanigan

***Principal Investigator Status – University of Missouri***

Title: Software-Assisted Nutritional Management for Beef Cattle Operations II

Amount: \$12,183

Source: University of Missouri Outreach Development Fund

Status: Completed 2005

Availability: Competitive

Title: The Missouri Quality Systems Assessment Program  
Amount: \$30,000  
Source: Missouri Department of Agriculture  
Availability: Non-competitive

Title: In-Service Education Grant 427: Biennial Update on Livestock Nutrition  
Amount: \$9,764  
Source: University of Missouri Outreach Development Fund  
Availability: Competitive

Title: Effect of bovine respiratory disease on carcass quality in finishing beef steers  
Amount: \$14,500  
Source: Multimin USA, Inc.  
Status: Completed 2005  
Availability: Competitive

Title: Northern IRM Working Group Mini-Grants Program  
Amount: \$550  
Source: National Cattlemen's Beef Association  
Status: Completed 2003  
Availability: Competitive

Title: 2005 Missouri Beef Tour  
Amount: \$9,350  
Source: Missouri Beef Industry Council  
Status: Completed 2005  
Availability: Non-competitive

Title: Development of a Competitive Audit for the Missouri Beef Industry  
Amount: \$19,766  
Source: Missouri Beef Industry Council  
Status: Completed 2004  
Availability: Competitive

Title: The Missouri Premier Beef Marketing Program  
Amount: \$121,000  
Source: University of Missouri Outreach Development Fund  
Status: Completed 2002  
Availability: Competitive

Title: Premier Beef Marketing Program Summer Marketing Tour - 2001  
Amount: \$5,720  
Source: University of Missouri Outreach Development Fund  
Status: Completed 2001  
Institution: University of Missouri  
Availability: Competitive

Title: Effect of Forage Quality and Supplemental Feed Level on Performance of Growing Beef Cattle  
Amount: \$20,879  
Source: Dakota Gold Commodities  
Status: Completed 2003  
Institution: University of Missouri  
Availability: Non-competitive

Title: Effect of Energy Source, Forage Availability, and Implant Type on Growth and Carcass Performance of Finishing Beef Steers  
Amount: \$3,215  
Source: Dakota Gold Commodities / Northeast MO Grain / Fort Dodge Animal Health

Status: Completed 2002  
Availability: Non-competitive

Title: Effect of Limit-Feeding on Performance, Carcass Merit, and Nutrient Excretion by Finishing Steers  
Amount: \$46,500  
Source: Intervet, Inc.  
Status: Completed 2006  
Availability: Non-competitive

Title: Establishing a Warm-Season Component in Existing Cool-Season Pastures without Loss of Grazing Opportunity  
Amount: \$22,000  
Source: Missouri Conservation Commission  
Status: Completed 2003  
Availability: Competitive

Title: Software-Assisted Nutritional Management for Missouri Beef Cattle Operations  
Amount: \$4,200  
Source: University of Missouri Outreach Development Fund  
Status: Completed 2000  
Availability: Competitive

Title: Rapid measurement of tall fescue pasture biomass using multispectral radiometry  
Amount: \$30,000  
Source: Missouri Competitive Agricultural and Natural Resource Grants  
Status: Completed 2000  
Availability: Competitive

Title: Effect of starch, fiber, or degradable intake protein supplementation on DMI and DMD  
Amount: \$5,000  
Source: Missouri Dairy Association  
Status: Completed 1999  
Availability: Competitive

Title: Feeding management software for state-level livestock nutrition extension specialists  
Amount: \$4,200  
Source: Brill Corporation  
Status: Completed 1998  
Availability: Non-competitive

***Co-Principal Investigator Status – Kansas State University***

Title: Mitigation of antimicrobial resistance through alternative treatment regimens to control bovine anaplasmosis  
Amount: \$1,199,948  
Source: USDA-NIFA-AFRI  
Status: November 2017 to November 2020  
Availability: Competitive

Title: The Beef Cattle Institute at Kansas State University  
Amount: \$490,000  
Source: KSU Targeted Excellence  
Status: Completed 2015  
Availability: Competitive

***Co-Principal Investigator Status – University of Missouri or North Dakota State University***

Title: Developing Educational Strategies to Add Value to Replacement Heifers  
Amount: \$197,500  
Source: University of Missouri Outreach Development Fund  
Status: Completed 2001



Availability: Competitive

Title: An integrated educational program to enhance Missouri's cow-calf industry  
Amount: \$176,208  
Source: University of Missouri Outreach Development Fund  
Status: Completed 2005  
Availability: Competitive

Title: Mid-Missouri Consumer Education Workshop  
Amount: \$12,750  
Source: Missouri Beef Industry Council  
Status: Completed 2003  
Availability: Competitive

Title: Missouri Seedstock Exportation Initiative  
Amount: \$25,000  
Source: Missouri Enterprise Business Assistance Center  
Status: Completed 2003  
Availability: Competitive

Title: Twenty-One Day Supplementation of  $\alpha$ -Lipoic Acid to Improve Beef Shelf Stability, Tenderness, and Intramuscular Lipid  
Amount: \$18,535  
Source: Missouri Beef Industry Council  
Status: Completed 2005  
Availability: Competitive

Title: The effect of yeast supplementation on forage utilization by grazing beef cattle  
Amount: \$10,000  
Source: Diamond V Mills  
Status: Completed 1994  
Availability: Non-competitive

## Publications and Presentations

### Refereed Journal Articles (n = 66; bold font = corresponding author)

1. Duncan, Z. M., A. J. Tajchman, M. P. Ramirez, J. Lemmon, W. R. Hollenbeck, D. A. Blasi, W. H. Fick, and **K. C. Olson**. 2021. Effects of prescribed fire timing on grazing performance of yearling beef cattle, forage biomass accumulation, and plant community characteristics on native tallgrass prairie in the Kansas Flint Hills. *Transl. Anim. Sci.* [10.1093/tas/txab077](https://doi.org/10.1093/tas/txab077)
2. Alexander, J. A., W. H. Fick, S. B. Ogden, D. A. Haukos, J. Lemmon, G. A. Gatson, and **K. C. Olson**. 2021. Effects of prescribed fire timing on vigor of the invasive forb sericea lespedeza (*Lespedeza cuneata*), total forage biomass accumulation, plant-community composition, and native fauna on tallgrass prairie in the Kansas Flint Hills. *Transl. Anim. Sci.* [10.1093/tas/txab079](https://doi.org/10.1093/tas/txab079).
3. Reppert, E, K. Reif, S. Montgomery, G. Magnin, Y. Zang, T. Martin-Jimenez, K. C. Olson, and J. Coetzee. 2020. Rapid communication: determination of plasma chlortetracycline (CTC) concentrations in beef cattle on range being fed one of four FDA-approved, free-choice, CTC-medicated minerals. *Transl. Anim. Sci.* 4:1128-1133. <https://doi.org/10.1093/tas/txaa048>.
4. Schrag, N., K. Hope, K. C. Olson, G. Magnin, Y. Zhang, J. F. Coetzee, and M. D. Apley. 2020. Blood plasma concentrations of chlortetracycline achieved by administration of a mineral formulation fed to adult beef cows. *Appl. Anim. Sci.* 36:8-18. <https://doi.org/10.15232/aas.2019-01917>
5. Ogden, S., D. A. Haukos, K. C. Olson, J. Lemmon, W. H. Fick, J. A. Alexander, and G. A. Gatson. 2019. Grassland bird and butterfly responses to sericea lespedeza control via late-season grazing pressure. *Am. Midl. Nat.* 181:147-169. <https://doi.org/10.1674/0003-0031-181.2.147>

6. Sowers, C. A., G. A. Gatson, J. D. Wolf, W. H. Fick, and **K. C. Olson**. 2019. Botanical composition of yearling-steer and mature-ewe diets in the Kansas Flint Hills. *Range. Ecol. Manage.* 72:126-135. <https://doi.org/10.1016/j.rama.2018.09.003>
7. Hill, S. L., K. C. Olson, J. R. Jaeger, and J. S. Stevenson. 2018. Serum metabolites associated with postpartum ovulation and pregnancy risks in suckled beef cows subjected to artificial insemination. *J. Anim. Sci.* 96:258-272. doi:10.1093/jas/skx033.
8. Preedy, G. W., S. L. Hill, J. S. Stevenson, R. L. Weaber, and **K. C. Olson**. 2018. Injectable trace-mineral supplementation improves sperm motility and morphology of young beef bulls. *Prof. Anim. Sci.* 34:1-9. doi.org/10.15232/pas.2017-01667
9. Hoehn, A. N., E. C. Titgemeyer, T. G. Nagaraja, J. S. Drouillard, M. D. Miesner, and **K. C. Olson**. 2018. Effects of high-tannin substrate, prior dietary tannin exposure, antimicrobial inclusion, and animal species on fermentation parameters following a 48-h in vitro incubation. *J. Anim. Sci.* 96:343-353. doi:10.1093/jas/skx018.
10. Stevenson, J. S., S. L. Hill, D. M. Greiger, K. C. Olson, J. R. Jaeger, J. Ahola, G. E. Seidel, and R. K. Kasimanickam. 2017. Two split-time artificial insemination programs in suckled beef cows. *J. Anim. Sci.* 95:5105-5111.
11. Hill, S. L., D. M. Grieger, K. C. Olson, J. R. Jaeger, C. Dahlen, G. A. Bridges, J. A. Larson, J. Ahola, M. C. Fisher, G. A. Perry, T. L. Steckler, W. D. Wittier, J. F. Curren, and J. S. Stevenson. 2016. Using estrus-detection patches to optimally time insemination improved pregnancy risk in suckled beef cows in a fixed-time artificial insemination program. *J. Anim. Sci.* 94:3703-3710.
12. Bailey, E. A., J. R. Jaeger, T. B. Schmidt, J. W. Waggoner, L. A. Pacheco, D. U. Thomson, and **K. C. Olson**. 2016. Effects of degree of respiratory disease vaccination during preconditioning on health, performance, and carcass merit of ranch-direct beef calves during receiving and finishing. *Prof. Anim. Sci.* 32:271-278.
13. Bailey, E. A., J. R. Jaeger, J. W. Waggoner, G. W. Preedy, L. A. Pacheco, and **K. C. Olson**. 2016. Effects of fence-line or drylot weaning on the health and performance of beef calves during weaning, receiving, and finishing. *Prof. Anim. Sci.* 32:220-228.
14. White, K. L., J. M. Bormann, K. C. Olson, J. R. Jaeger, S. Johnson, B. Downey, D. M. Grieger, J. W. Waggoner, D. W. Moser, and R. L. Weaber. 2016. Phenotypic relationships between docility and reproduction in Angus heifers. *J. Anim. Sci.* 94:483-489.
15. Bailey, E. A., J. R. Jaeger, T. B. Schmidt, J. W. Waggoner, L. A. Pacheco, D. U. Thomson, and **K. C. Olson**. 2015. Effects of weaning period length on growth and health of preconditioned, spring-born beef calves originating from the Great Plains II. early weaning. *Prof. Anim. Sci.* 31:30-39.
16. Bailey, E. A., J. R. Jaeger, T. B. Schmidt, J. W. Waggoner, L. A. Pacheco, D. U. Thomson, and **K. C. Olson**. 2015. Effects of weaning period length on growth and health of preconditioned, spring-born beef calves originating from the Great Plains I. conventional weaning ages. *Prof. Anim. Sci.* 31:20-29.
17. Hill, S. L., G. A. Perry, V.R.G. Mercadante, G. C. Lamb, J. R. Jaeger, K. C. Olson, and J. S. Stevenson. 2014. Altered progesterone concentrations by hormonal manipulations before a fixed-time artificial insemination Co-Synch + CIDR program in suckled beef cows. *Theriogenology* 82:104-113.
18. Linden, D. R., E. C. Titgemeyer, K. C. Olson, and D. E. Anderson. 2014. Effects of gestation and lactation on forage intake, digestion, and passage rates of primiparous beef heifers and multiparous beef cows. *J. Anim. Sci.* 92:2141-2151.
19. Marquezini, G.H.L., V.R.G. Mercadante, K. C. Olson, J. R. Jaeger, G. A. Perry, J. S. Stevenson, and G. C. Lamb. 2013. Effects of equine chorionic gonadotropin on follicle development and pregnancy rates in suckled beef cows with or without calf removal. *J. Anim. Sci.* 91: 1216-1224.

20. Bailey, E. A., E. C. Titgemeyer, K. C. Olson, D. W. Brake, M. L. Jones, and D. E. Anderson. 2012. Effects of supplemental energy and protein on forage digestion and urea kinetics in growing beef cattle. *J. Anim. Sci.* 90:3492-3504.
21. Bailey, E. A., E. C. Titgemeyer, K. C. Olson, D. W. Brake, M. L. Jones, and D. E. Anderson. 2012. Effects of ruminal casein and glucose on forage digestion and urea kinetics in beef cattle. *J. Anim. Sci.* 90:3505-3514.
22. Zimmerman, L.C., T. C. Schroeder, K. C. Dhuyvetter, K. C. Olson, G. L. Stokka, J. T. Seeger, and D. M. Grotelueschen. 2012. The effect of value-added management on calf prices at Superior Livestock Auction video markets. *J. Agric. and Res. Econ.* 37(1):128-143.
23. Mundell, L. R., Jaeger, J. R., J. W. Waggoner, J. S. Stevenson, D. M. Grieger, L. A. Pacheco, J. W. Bolte, N. A. Aubel, G. J. Eckerle, M. J. Macek, S. M. Ensley, L. J. Havenga, and **K. C. Olson**. 2012. Effects of prepartum and postpartum bolus injections of trace minerals on performance of beef cows and calves grazing native range. *Prof. Anim. Sci.* 28:82-88.
24. Jaeger, J. R., J. W. Waggoner, K. C. Olson, K. R. Harmoney, and J. W. Bolte. 2012. Growth and performance of beef replacement heifers fed development diets containing soybean meal or wet distillers grains. *Prof. Anim. Sci.* 28:300-305.
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37. Macek, M. J., **K. C. Olson**, J. R. Jaeger, T. B. Schmidt, J. W. Iliff, D. U. Thomson, and L. A. Pacheco. 2010. The relative importance of weaning management and vaccination history on performance by ranch-direct beef calves during weaning and receiving. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 61:25-29.
38. Eckerle, G. J., **K. C. Olson**, J. R. Jaeger, J. L. Davidson, T. K. Kraft, and L. A. Pacheco. 2010. Effects of sun-curing and harvest maturity on concentration and protein-binding capacity of condensed tannins in sericea lespedeza (*Lespedeza cuneata*). *Proc. West. Sec. Amer. Soc. Anim. Sci.* 61:30-34.
39. Macek, M. J., J. W. Iliff, **K. C. Olson**, J. R. Jaeger, T. B. Schmidt, D. U. Thomson, and L. A. Pacheco. 2010. The relative importance of weaning management and vaccination history on finishing performance and carcass characteristics of beef calves. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 61:186-189.
40. Macek, M. J., J. R. Jaeger, T. B. Schmidt, D. U. Thomson, J. W. Bolte, L. A. Pacheco, N. A. Sproul, L. R. Hibbard, G. J. Eckerle, and **K. C. Olson**. 2010. Effects of degree of respiratory disease vaccination on health and growth performance of ranch-direct beef calves during weaning and receiving. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 61:190-193.
41. Pacheco, L. A., J. R. Jaeger, L. R. Hibbard, M. J. Macek, N. A. Sproul, G. J. Eckerle, E. A. Bailey, J. W. Bolte, and **K. C. Olson**. 2010. Effects of prepartum ruminally-protected choline supplementation on performance of beef cows and calves. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 61:259-261.
42. Jaeger, J. R., J. W. Waggoner, K. C. Olson, J. W. Bolte, and S. R. Goodall. 2010. Effects of wet distillers grain and a direct-fed microbial on finishing performance and carcass characteristics of beef steers fed a sorghum-based finishing diet. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 61:279-282.
43. Eckerle, G. J., **K. C. Olson**, W. H. Fick, L. A. Pacheco, and K. Walburger. 2009. Microhistological characterization of the botanical composition of diets grazed by beef cows in the Kansas Flint Hills during winter. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 60:399-402.
44. Linden, D. R., **K. C. Olson**, J. R. Jaeger, L. W. Murray, D. E. Anderson, L. A. Pacheco, K. E. Holcomb, J. W. Bolte, N. A. Sproul, and M. D. Thomas. 2009. Effects of advancing gestation on DMI, DM digestion, and ruminal dynamics of primiparous beef heifers fed low-quality hay. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 60:350-353.

45. Linden, D. R., **K. C. Olson**, J. R. Jaeger, L. W. Murray, D. E. Anderson, L. A. Pacheco, K. E. Holcomb, J. W. Bolte, N. A. Sproul, and M. D. Thomas. 2009. Effects of early lactation on DMI, DM digestion, and ruminal dynamics by primiparous beef heifers fed low-quality hay. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 60:346-349.
46. Jaeger, J. R., K. C. Olson, S. R. Goodall, and J. W. Bolte. 2009. Beef cow performance following rumen-protected choline supplementation during the prepartum period. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 60:280-283.
47. Jaeger, J. R., K. C. Olson, S. R. Goodall, and J. W. Bolte. 2009. Beef calf performance and carcass characteristics following rumen-protected choline supplementation of cows during the peri-parturient period. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 60:59-62.
48. Pacheco, L. A., J. R. Jaeger, J. M. Bormann, and K. C. Olson. 2009. Relationship between ultrasonically-measured beef cow carcass traits and lifetime productivity. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 60:37-39.
49. Jaeger, J. R., S.R. Goodall, K.R. Harmoney, and K. C. Olson. 2008. Beef cow performance following rumen-protected choline supplementation during the periparturient period. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 59:114-117.
50. **Olson, K. C.**, R. J. Rasby, T. B. Schmidt, and J. R. Jaeger. 2007. Early weaning as a drought mitigation strategy for commercial cattle ranches. Pages 349-364 in *Proc., 2007 Western Nutrition Conference, Volume 28, Number 1: Coping with a Changing Ingredient Marketplace and Evolving Consumer Expectations.* Animal Nutrition Association of Canada, Saskatoon, SK.
51. Cochran, R. C., K. C. Olson, J. S. Heldt, C. P. Mathis, and B. C. Woods. 1997. Observations regarding the amount and source of degradable intake protein in supplements for beef cattle consuming low-quality forages. In: *Proc, American Feed Industry Assoc. Liquid Feed Symposium.* Sept. 8-10 1997, St. Louis, MO.
52. Sletmoen, K. E., J. S. Caton, J. D. Kirsch, L. P. Reynolds, V. I. Burke, K. C. Olson, and L. A. Burgwald-Balstad. 1994. Effects of escape protein supplementation during late gestation and early lactation on forage intake, reproductive performance, calf weight, and body condition. in beef cows fed low-quality hay. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 45:232-236.
53. Olson, K. C., J. S. Caton, and D. R. Kirby. 1992. Influence of yeast culture (YC) on in situ forage degradability, dietary chemical composition and ruminal pH in steers grazing native range in the Northern Great Plains. *Proc. West. Sec. Amer. Soc. Anim. Sci.* 43:531-535.

**Invited Papers and Presentations – International, National, and Regional Venues (n = 111)**

1. Griekspoor, P. J., and K. C. Olson. 2020. Research shows late-summer burn defeats sericea lespedeza. *Kansas Farmer.* December 9, 2020. <https://www.farmprogress.com/conservation/research-shows-late-summer-burn-defeats-sericea>.
2. Atkinson, E., and K. C. Olson. 2020. Late-summer prescribed burning. *K-State Research and Extension News.* November 18, 2020. <https://www.ksre.k-state.edu/news/radio-network/ag-today.html>.
3. Olson, K. C. 2020. Facial recognition for disease traceability in cattle. *Doc Talk.* November 13, 2020. <https://www.youtube.com/watch?v=kzc7bUQvNZQ>.
4. Olson, K. C. 2020. K-State team eyes facial recognition technology for Cattle. *K-State Research and Extension News.* November 11, 18. <https://www.ksre.k-state.edu/news/stories/2020/09/facial-recognition-for-cattle.html>.
5. Olson, K. C., 2020. Getting your cows ready for winter. *Doc Talk.* October 28, 2020. <https://www.youtube.com/watch?v=ZMQCIPtbwKY>.

6. Olson, K. C. 2020. Facial recognition for beef cattle. KOSU – National Public Radio. October 27, 2020. <https://www.kosu.org/post/facial-recognition-not-just-your-phone-it-could-be-used-prevent-livestock-disease>.
7. Griekspoor, P. J., and K. C. Olson. 2020. Cows have individual faces, can be traced by facial recognition. Kansas Farmer. October 14, 2020. <https://www.farmprogress.com/livestock/cows-have-individual-faces-can-be-traced-facial-recognition>.
8. Olson, K. C. 2020. Facial recognition for beef cattle. AgAM in Kansas with Brityne Rucker. October 13, 2020.
9. Olson, K. C. 2020. Facial recognition for beef cattle. WIBW media interview. September 30, 2020. <https://www.wibw.com/2020/10/02/smartphone-app-to-use-facial-recognition-technology-to-identify-cows/>.
10. Crawford, G, and K. C. Olson. 2020. Facial recognition for beef cattle. USDA Radio. September 30, 2020.
11. Atkinson, E., and K. C. Olson. 2020. Facial recognition for cattle. K-State Research and Extension News. September 24, 2020. <https://www.ksre.k-state.edu/news/radio-network/ag-today.html>.
12. Olson, K. C. 2020. Managing invasive range plants in beef cattle grazing systems. Oklahoma State University Rancher's Lunchtime Series, Stillwater, OK. July 9, 2020.
13. Olson, K. C. 2020. Economics of mineral supplementation. Multimin USA Podcast. June 25, 2020.
14. Bryant, G. V. 2020. Biannual BCS? Working Ranch Magazine. June/July, 2020.
15. Olson, K. C. 2020. The benefits of burning with KC Olson. Kansas Grazing Lands Coalition and Natural Resources Conservation Service. June 3, 2020. <https://www.youtube.com/watch?v=FCceOJ2D1bl>.
16. Olson, K. C. 2020. Pasture burning with KC Olson. Doc Talk. April 27, 2020. <https://www.youtube.com/watch?v=6uBcl3RQCwU>.
17. Olson, K. C. 2020. Body condition Score. Doc Talk. April 7, 2020. <https://www.youtube.com/watch?v=jTxXIAq1svY>.
18. Bryant, G. V., and K. C. Olson. 2020. Injectable minerals before breeding boosts benefits. Working Ranch Magazine. April/May, 2020.
19. Pearce, M., and K. C. Olson. How invasive plants could overrun America's largest remaining tallgrass prairie. The Beacon. March 12, 2020. <https://mailchi.mp/thebeacon/invasive-species-prairie?e=49e5c8bf5a>.
20. Olson, K. C. 2020. Managing invasive range plants in beef cattle grazing systems. Pacific Northwest Animal Nutrition Conference. Boise, ID. January 13-15, 2020.
21. Olson, K. C. 2020. Naturalizing sericea lespedeza in the tallgrass prairie ecosystem. Osage Co. Cattlemen's Association Annual Conference. Pawhuska, OK. January 6, 2020.
22. Olson, K. C. and A. Tajchman. 2019. Pyric control of sericea lespedeza. Nebraska Prescribed Fire Conference. Kearny, NE. December 10, 2019.
23. Olson, K. C. 2019. Holistic approaches to management of invasive range plants. University of Missouri Plant Science Seminar Series. Columbia, MO. December 4, 2019.
24. Olson, K. C. 2019. ASAS Animal Management Award – Tares among the wheat: sericea lespedeza invasion of native tallgrass prairie. ASAS-CSAS Annual Meeting, Austin, TX. July 8-11, 2019.

25. Olson, K. C. 2019. 2019 Smoke management in the Flint Hills - a success story. Agriculture Today, KKSU Radio. May 13, 2019.
26. Olson, K. C. 2019. Range management 101. Guest Host Ag AM in Kansas: Doc Talk. May 13, 2019.
27. Olson, K. C. 2019. A decade of research into sericea lespedeza control. Agriculture Today, KKSU Radio. May 6, 2019.
28. Olson, K. C. 2019. The cost of poor fertility. Guest Host Ag AM in Kansas: Doc Talk. January 14, 2019.
29. Olson, K. C. 2018. Farm Factor video segment – AgAM in Kansas. November 6, 2018. <https://www.youtube.com/watch?v=ZRFdv1sF0IY>
30. Olson, K. C. 2018. Effects of growing-season prescribed fire on invasive plants: non-target organisms. Midwest Invasive Species Conference, Rochester, MN. October 15-18, 2018
31. Olson, K. C. 2018. Effects of growing-season prescribed fire on invasive plants: target organisms. Midwest Invasive Species Conference, Rochester, MN. October 15-18, 2018
32. Olson, K. C. 2018. What is sustainable ranching? Oklahoma and Kansas Joint Trustee Meeting, The Nature Conservancy. Pawhuska, OK. September 13-14, 2018
33. Olson, K. C., and D. Haukos. 2018. Current research at Konza Prairie: fire return intervals, native grazers, domesticated grazers, and wildlife. Region 5 and 9 Ecological Site Specialist Workshop. Manhattan, KS. August 28-30, 2018.
34. Olson, K. C. 2018. The role of targeted trace-mineral supplementation in fertility of young bulls. Society for Theriogenology Annual Conference. Milwaukee, WI. July 20-August 20, 2018.
35. Olson, K. C. 2018. Cow-calf production. Module 8 – Executive Veterinary Practitioners. College of Veterinary Medicine, University of Illinois. June 14-15, 2018
36. Olson, K. C. 2018. Stocker cattle production. Module 8 – Executive Veterinary Practitioners. College of Veterinary Medicine, University of Illinois. June 14-15, 2018
37. Olson, K. C. 2018. K-State update on federally-supported research. 2018 Agricultural Research Congressional Exhibition. Washington, D.C. June 6, 2018.
38. Olson, K. C. 2018. Update on Great Plains prescribed fire research. Department of Biology - William & Mary University. Williamsburg, VA. May 15, 2018.
39. Olson, K. C. 2018. Mineral nutrition and stress. Video Segment – Spring 2018. <https://it-it.facebook.com/MultiminUSA/videos/1751736701539075/>
40. Olson, K. C. 2017. Spotlight on fire: grassland, smoke, and preventative management. KSRE Annual Conference. Manhattan, KS. November 1, 2017.
41. Olson, K. C. 2017. Prescribed fire research at KSU. Dean's Advisory Council, KSU College of Agriculture, Manhattan, KS. September 29, 2017.
42. Olson, K. C. 2017. Prescriptions for sericea lespedeza control. Annual Conservation Tour for Senator Jerry Moran. Junction City, KS. September 21, 2017.
43. Olson, K. C. 2017. Marketing cull cows. Guest Host Ag AM in Kansas: Doc Talk. September 21, 2017.
44. Olson, K. C. 2017. Konza prairie research update. National Science Foundation site review. September 6, 2017.

45. Olson, K. C. 2017. Prescribed burning research at KSU. WIBW Radio Interview. Topeka, KS. August 3, 2017.
46. Olson, K. C. 2017. The Future of Prescribed Burning the Flint Hills. KSU College of Agriculture Forum on Natural Resources. Manhattan, KS. July 26, 2017.
47. Olson, K. C. 2017. Fire timing effects on heterogeneity. Department of Biology - William & Mary University. Williamsburg, VA. May 16, 2017.
48. Olson, K. C. 2017. Smoke management in Kansas. Voice of Agriculture – Kansas Farm Bureau. March 6, 2017.
49. Olson, K. C. 2017. Noxious weed control update. Tallgrass Legacy Alliance Biennial Meeting. Clements, KS. February 23, 2017.
50. Olson, K. C. 2017. Late-season burns to control sericea lespedeza. Frontier Farm Credit Regional Meeting. Madison, KS. February 22, 2017.
51. Olson, K. C. 2017. Control of sericea lespedeza with prescribed burning. Kansas Cattle Drive, Buhler, KS. February 18, 2017.
52. Olson, K. C. 2017. Choosing replacement heifers. Guest Host Ag AM in Kansas: Doc Talk. February 14, 2017.
53. Olson, K. C. 2017. Better mineral supplementation for cow-calf herds. BeckAg Webinar Series, January-March, 2017.
54. Olson, K. C. 2017. Management of invasive range plants. Guest Host Ag AM in Kansas: Doc Talk. January 12, 2017.
55. Olson, K. C. 2016. Effects of injectable trace-mineral supplementation on reproductive performance of beef cows and developing beef bulls. World Buiatrics Congress. Dublin, Ireland. July 3-8, 2016.
56. Olson, K. C. 2016. Fire ecology in the Kansas Flint Hills. Department of Biology - William & Mary University. Williamsburg, VA. May, 17, 2016.
57. Olson, K. C. 2016. Effects of injectable trace-mineral supplementation on reproductive performance of beef cows and developing beef bulls. Academy of Veterinary Consultants Annual Conference. Denver, CO. April 1, 2016.
58. Olson, K. C. 2016. Effects of growing-season prescribed burning on vigor of the noxious weed sericea lespedeza (*Lespedeza cuneata*) in the Kansas Flint Hills. Natural Resource Managers Conference, Army Corps of Engineers. February 23, 2016, Manhattan, KS.
59. Olson, K. C. 2016. Effects of growing-season prescribed burning on vigor of the noxious weed sericea lespedeza (*Lespedeza cuneata*) in the Kansas Flint Hills. Tallgrass Management Seminar. January 28, 2016. Nebraska Department of Natural Resources, Beatrice, NE.
60. Olson, K. C. 2015. Effects of growing-season prescribed burning on vigor of the noxious weed sericea lespedeza (*Lespedeza cuneata*) in the Kansas Flint Hills. Great Plains Fire Science Consortium. December 1, 2015, Springfield, MO.
61. Olson, K. C. 2015. Control of sericea lespedeza through grazing and burning. Annual Meeting, Native Environment Conservation Plan. February 10, 2015, Lawrence, KS.
62. Olson, K. C. 2015. Biosecurity for control of noxious weeds. Annual Meeting, County Weed Directors Association of Kansas. March 3, 2015, Manhattan, KS.
63. Olson, K. C. 2014. A brief history of prescribed burning in the Kansas Flint Hills: motives and rewards. Smoke Management Multi-State Meeting. Manhattan, KS. November 6, 2014.

64. Olson, K. C. 2013. KSU Multimin research. Multimin Technical Conference, Denver, CO. October, 29, 2013.
65. Olson, K. C. 2013. Management of invasive range plants. Guest Host Ag AM in Kansas: Doc Talk. October 20, 2013. [http://www.doctalktv.com/?page\\_id=1086](http://www.doctalktv.com/?page_id=1086)
66. Olson, K. C. 2013. Mineral nutrition in western beef cow herds. Academy of Veterinary Consultants Annual Conference. Colorado Springs, CO. August 2, 2013.
67. Olson, K. C. 2013. Nutritional management in a low-input cow herd. Nebraska Veterinary Medical Association Annual Conference. Scottsbluff, NE. June 19, 2013.
68. Olson, K. C. 2013. Drought planning and management. Nebraska Veterinary Medical Association Annual Conference. Scottsbluff, NE. June 19, 2013.
69. Olson, K. C. 2013. A case study in low-input management. Nebraska Veterinary Medical Association Annual Conference. Scottsbluff, NE. June 19, 2013.
70. Olson, K. C. 2013. Weaning nutrition. Guest Host Ag AM in Kansas: Doc Talk. May 20, 2013. [http://www.doctalktv.com/?page\\_id=601](http://www.doctalktv.com/?page_id=601)
71. Olson, K. C. 2013. Sericea lespedeza: a serious threat to the Tallgrass Prairie. Governor's Flint Hills Visioning Summit. Junction City, KS. January 11, 2013.
72. Olson, K. C. 2012. Sericea Lespedeza: A Troublesome Noxious Weed. AgAm in Kansas. December 14, 2012. [http://www.agaminkansas.com/index\\_12142012.php](http://www.agaminkansas.com/index_12142012.php)
73. Olson, K. C. 2012. A case study in low-input management: the KSU commercial cow-calf unit. Feature Presentation – Iowa Cattlemen's Annual Convention. December 10, 2012.
74. Olson, K. C. 2012. Winter feeding strategies for beef cows. Guest Host Ag AM in Kansas: Doc Talk. December 10, 2012. [http://www.agaminkansas.com/index\\_12102012.php](http://www.agaminkansas.com/index_12102012.php)
75. Olson, K. C. 2012. Preconditioning beef cattle for the feedlot. Guest Host Ag AM in Kansas: Doc Talk. October 1, 2012. [http://www.agaminkansas.com/doc\\_talk\\_10012012.php](http://www.agaminkansas.com/doc_talk_10012012.php)
76. Olson, K. C. 2012. Novel mineral supplementation methods for grazing beef cattle. RFD-TV Guest Host. June, 2012. <http://www.youtube.com/watch?v=sog9pFd9EGg>
77. Olson, K. C. 2012. Featured Presentation: a case-study in low-input management: the KSU cow-calf unit. Academy of Veterinary Consultants Annual Conference. Kansas City, MO. August 3, 2012.
78. Olson, K. C. 2012. Effects of sericea lespedeza on ecological and economic health of the Flint Hills. Governor's Flint Hills Visioning Summit. Topeka, KS. January 17, 2012.
79. Olson, K. C. and C. D. Reinhardt. 2010. Animal welfare of the cow-calf pair. 2010 International Symposium on Beef Cattle Welfare, Beef Cattle Institute – Kansas State University. May 20, 2010.
80. Olson, K.C. 2010. Management of mineral supplementation for grazing beef cattle. Four State Beef Conference, Jan. 12-14, 2010. Iowa State University Extension, Ames, IA.
81. Olson, K. C. 2009. Early weaning as a means to annual cow-cost savings. Invited Speaker, Certified Angus Beef Working Group on Early Weaning, Fort Collins, CO. June 16, 2009.
82. Olson, K. C. 2009. Range management. Guest Lecture (Repeated), College of Veterinary Medicine, Mongolian Agricultural University, VetNet N.G.O., Ulanbaatar, Mongolia. April 29-May 10, 2009.
83. Olson, K. C. 2009. Range evaluation. Guest Lecture (Repeated), College of Veterinary Medicine, Mongolian Agricultural University, VetNet N.G.O., Ulanbaatar, Mongolia. April 29-May 10, 2009.

84. Olson, K. C. 2009. Equine nutrition. Guest Lecture (Repeated), College of Veterinary Medicine, Mongolian Agricultural University, VetNet N.G.O., Ulanbaattar, Mongolia. April 29-May 10, 2009.
85. Olson, K. C. 2009. Comparative anatomy of cattle and horses. Guest Lecture, College of Veterinary Medicine, Mongolian Agricultural University, VetNet N.G.O., Ulanbaattar, Mongolia. April 27, 2009.
86. Olson, K. C., R. J. Rasby, T. B. Schmidt, and J. R. Jaeger. 2007. Early weaning as a drought mitigation strategy for commercial cattle ranches. 28th Annual Western Nutrition Conference: Coping with a Changing Ingredient Marketplace and Evolving Consumer Expectations. Animal Nutrition Association of Canada, Saskatoon, SK.
87. Olson, K. C. 2006. Forage quality and diet selection. In: Proc., 2006 Kansas Range Management Schools. NRCS-USDA - Salina. August, 22-24 and 29-31, 2006.
88. Olson, K. C. 2006. Forage – animal balance. In: Proc., 2006 Kansas Range Management Schools. NRCS-USDA - Salina. August, 22-24 and 29-31, 2006.
89. Olson, K. C. 2006. Management of grazing distribution. In: Proc., 2006 Kansas Range Management School. NRCS-USDA - Salina. August, 22-24 and 29-31, 2006.
90. Olson, K. C. and P. Guiroy. 2006. Variation in forage quality as it relates to stocker performance. Pages 57-68 in Proc., 2006 KSU Beef Stocker Conference. Kansas State University, Manhattan, KS.
91. Olson, K. C. 2006. Using animal ID to grow beef demand. In: Proc., Kansas, Oklahoma, Missouri, and Arkansas Beef Conference, January 17-18, 2006. Oklahoma State University Extension, Stillwater, OK.
92. Olson, K. C. 2005. Principles of efficient forage-based livestock production. In: Proc, 2005 Kansas Range Management Academy. NRCS-USDA - Salina. August, 23-25, 2005. Rock Springs, KS.
93. Olson, K. C. 2004. Entrepreneurship in research. Invited Lecture, USDA Agricultural Research Service, Northern Great Plains Research Laboratory. September 16, 2004. Mandan, ND.
94. Olson, K. C. 2004. Control of grazing distribution. In: Proc, 2004 Kansas Range Management Academy II. NRCS-USDA - Salina. August 25-27, 2000. Scott City, KS.
95. Olson, K. C. 2004. Basic nutrition of range cattle. In: Proc, 2004 Kansas Range Management Academy II. NRCS-USDA - Salina. August 16-18, 2000. August 25-27, 2000. Scott City, KS.
96. Olson, K. C. 2004. Cost control in extensive cow-calf production systems. In: Proc, 2004 Kansas Range Management Academy I. NRCS-USDA - Salina. August 16-18, 2000. Council Grove, KS.
97. Olson, K. C. and D. Diven. 2004. Use of Body Condition Scoring in Reproductive Management. In: Proc, Low-Cost Cow-Calf Management, Dick Diven Enterprises, August 5, 2004.
98. Olson, K. C. 2003. Energy metabolism in the beef heifer. In: Proceedings, 2003 AABP Preconference Seminar Series. American Association of Bovine Practitioners Annual Conference, Sept. 16-18, 2003. Columbus, OH.
99. Olson, K. C. 2003. Beef heifer development: effects of nutritional mismanagement. In: Proceedings, 2003 AABP Preconference Seminar Series. American Association of Bovine Practitioners Annual Conference, Sept. 16-18, 2003. Columbus, OH.
100. Olson, K. C. 2003. Beef heifer development: managing forage-based growing programs. In: Proceedings, 2003 AABP Preconference Seminar Series. American Association of Bovine Practitioners Annual Conference, Sept. 16-18, 2003. Columbus, OH.

101. Olson, K. C. 2003. Beef heifer development: nutritional management of the heifer from weaning to maturity. In: Proceedings, 2003 AABP Preconference Seminar Series. American Association of Bovine Practitioners Annual Conference, Sept. 16-18, 2003. Columbus, OH.
102. Olson, K. C. 2003. Cooperative feeder cattle marketing as an extension program. March 24. University of Wisconsin, Madison, WI.
103. Olson, K. C. 2002. Marketing alternatives for feeder cattle. In: Proc., Conference on Integrating Forage and Cattle Resources to maximize profitability of beef enterprises, Nov. 19 – Dec. 5, 2002. Northern IRM Working Group / NC-225 / National Cattlemen's Beef Association, Denver, CO.
104. Olson, K. C. 2002. Cost effective mineral supplementation strategies for beef cows and stockers. Four State Beef Conference, Jan. 16 – 17, 2002. University of Nebraska Extension, Lincoln, NE. <http://www.extension.iastate.edu/feci/4StBeef/Olson.html>
105. Olson, K. C., R. L. Larson, V. L. Pierce, and J. L. Horner. 2002. The Missouri premier beef marketing program. KOMA Beef Conference, January 14, 2002. Oklahoma State University Extension, Stillwater, OK.
106. Olson, K. C. 2002. Critical Control Points for Mineral Nutrition of Beef Cattle. Colorado Farm Show, January 29, 2002. Colorado Farm Show Foundation, Greeley, CO.
107. Olson, K. C. 2001. Commingled backgrounding for production of feedlot-ready cattle. Virginia Cattlemen's Association Cow/Calf Seminar. Virginia Polytechnic Institute, Blacksburg, VA. December 3, 2001. Lynchburg, VA.
108. Olson, K. C. 2001. Managing ranch resources for optimal financial return. In. Proc., 2001 Comanche Pool Prairie Resource Foundation Ranch Management Academy. NRCS-USDA. May 30, 2001. Coldwater, KS.
109. Olson, K. C. 2001. By-product feeds and their uses in beef cattle rations. State-Line Cow/Calf Seminar. Iowa State University Extension, Ames, Iowa. February 14, 2001. Lamoni, IA.
110. Olson, K. C. 2001. Cost-effective supplementation strategies for cattle grazing native forages. In: Proc., 2001 Comanche Pool Prairie Resource Foundation Annual Beef Production Seminar. NRCS-USDA, Salina, KS. February 7, 2001. Wilmore, KS.
111. Olson, K. C. 2001. Evaluating preconditioning as a management practice. Elanco Media Breakfast, National Cattlemen's Beef Association Annual Convention. Elanco Animal Health, Indianapolis, Indiana. February 2, 2001. San Antonio, TX.
112. Olson, K. C. 2000. Management and dietary factors affecting the profitability of growing beef cattle. In: Proc., Chonnam National University Conference on Nutrition and Nutrient Management: Sustainable Animal Farming with New Technology. Chonnam National University, College of Agriculture – Inst. Agric. Sci. & Tech. October 16, 2000. Kwangju, South Korea.
113. Olson, K. C. 2000. Reconciling forage nutrient supply with nutrient demand by grazing livestock. In: Proc, 2000 Kansas Range Management Academy. NRCS-USDA, Salina, KS. August 15-17, 2000. Stockton, KS.

**Invited Papers and Presentations – Local Venues (n = 118)**

1. Olson, K. C. 2020. Controlling old-world blustems with prescribed fire. Tallgrass Legacy Alliance Quarterly Meeting, Olsburg, KS. November 12, 2020.
2. Farney, J., and K. C. Olson. 2020. Dealing with sericea lespedeza. Dr. J's Podacst. June 30, 2020.
3. Olson, K. C., R. L. Larson, and B. White. 2020. Beef cow management. Beef Cattle Institute Cattle Chat Podcast, April 28, 2020
4. Olson, K. C., and R. Kowalik. 2020. Prescribed fire and air quality. KSU Radio Podcast, March 18, 2020.



5. Olson, K. C. 2020. Range weed management and biodiversity preservation: are they mutually exclusive? Kansas Society of Farm Managers and Rural Appraisers Winter Meeting. Manhattan, KS. February 20, 2020.
6. Olson, K. C. 2020. Fire ecology revisited. Kansas Recreation and Parks Annual Conference. Topeka, KS. February 10-12, 2020.
7. Olson, K. C. 2019. Prescribed fire and Kansas policies on mandated weed control. County Weed Directors Association of Kansas. Manhattan, KS. March 6, 2019
8. Olson, K. C. 2019. Growing-season prescribed fire and wildlife habitat. Kansas Recreation and Parks Annual Conference. Hutchinson, KS. February 5-7, 2019
9. Tajchman, A., and K. C. Olson. 2018. Fall burning to control sericea lespedeza. 2018 Winter Forage Conference, Kansas Forage and Grassland Council. Emporia, KS. December 11, 2018.
10. Schrag, T., and K. C. Olson. 2018. The value of K-State Research and Extension. K-Stater Magazine. Fall, 2018.
11. Jacques, S., and K. C. Olson. 2018. The making of a meal. Seek – Research Magazine for Kansas State University. Fall, 2018.
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**Abstracts (n = 141)**

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**Management Decision-Aid Software and Spreadsheets (n = 15)**

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**Non-Refereed Research Publications and Extension Presentations (n > 300)**

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2. Duncan, Z. M., A. J. Tajchman, M. P. Ramirez, J. Lemmon, W. R. Hollenbeck, D. A. Blasi, and K. C. Olson. 2021. Yearling cattle grazing pastures burned during summer perform similarly to cattle grazing pastures burned in early spring: year 2 of 6. KAES Research Report, Vol. 7, Iss. 1., <https://doi.org/10.4148/2378-5977.8020>.
3. Duncan, Z. M., A. J. Tajchman, M. P. Ramirez, J. Lemmon, W. R. Hollenbeck, D. A. Blasi, and K. C. Olson. 2021. Effects of prescribed-fire timing on native plant composition, forage biomass accumulation, and root carbohydrate in the Kansas Flint Hills: year 2 of 6. KAES Research Report, Vol. 7, Iss. 1., <https://doi.org/10.4148/2378-5977.8021>.
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5. Grobosky, S. and K. C. Olson. How to get the maximum value from your land. Hereford World, November 2019. [https://hereford.org/article\\_issue/2019-11/](https://hereford.org/article_issue/2019-11/)
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37. Bennett, B. W., J. W. Waggoner, J. R. Jaeger, A. K. Sexton, and KC Olson. 2013. Effects of infrequent dried distillers grain supplementation on spring-calving cow performance. KAES Report of Progress No. 1086:20-23.
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42. Bailey, E. A., J. R. Jaeger, J. W. Waggoner, G. W. Preedy, L. A. Pacheco, and KC Olson. 2013. Transport of up to 12 hours following preconditioning has no impact on health and performance of beef calves during receiving. KAES Report of Progress No. 1086:1-4.
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