

Karla Jenkins Wilke, Ph.D., P.A.S.

Current Title: Professor Animal Science/Extension Cow-Calf, Stocker Specialist

Appointment: 58% Extension, 39% Research, 3% Service University of Nebraska-Lincoln Animal Science Department

Extension and Research Responsibilities: My research program includes finding more efficient and economical ways to produce beef cattle while sustaining the range resource. I have conducted research on the confined production cow and the calf raised in confinement for over 10 years. I have also studied using by-products such as distillers grains or beet pulp in the diet or alternative crops such as peas or chopped sugar beets when they are not adequate for human consumption. Currently I am also studying supplementation and marketing strategies for yearling cattle on summer grass. My extension program involves working with producers to explain and implement practices found to be beneficial through my research program. Typically I provide consultation with about 120-150 producers a year. I provide rations and research based suggestions for improving efficiency. I write articles for our electronic newsletter and those are accessed about 1000 times each in a year. Popular press often picks them up. Two major extension programs I am involved planning and executing are the Nebraska Ranch Practicum and the Range Beef Cow Symposium.

In 2019, I spent 10 days in Argentina visiting with producers about using distillers grains to provide metabolizable protein for growing cattle and management of production cows in confinement.

Additional Extension Responsibilities

2009-present – Member of the Range Beef Cow Symposium Committee – have helped plan 6 conferences and hosted 2. This conference has been held every other year since 1969 and has an attendance of 450-600 people from many facets of the beef industry.

2023-present – Member of the Nebraska Ranch Practicum committee – responsible for teaching cow body condition scoring, nutrition and management of range cows and growing calves

2012 – present -Responsible for editing the Nebraska Beef Report - Responsibilities include reviewing and editing submissions, acquiring peer reviews for each submission, ensuring technical details are appropriate for a producer audience, proof reading revised submissions, managing document flow and coordinating with Educational Media to ensure publication accuracy and quality as well as adherence to deadlines for printing timeliness.

2017 – 2022 – Member of the Capacity Building Team for extension educators - Responsibilities include planning and executing training sessions for UNL extension educators particularly those with a beef focus

Department Affiliation: Animal Science

Biographical Data

Education: West Texas State University 1985-87
Texas A&M University B.S. 1987-89 Agricultural Education GPA 3.8
University of Nebraska M.S. 1989-92 Animal Science GPA 3.6 Ruminant Nutr.
University of Nebraska Ph.D. 1992-94 Animal Science GPA 3.9 Ruminant Nutr.

Professional Experience:

Associate Professor of Animal Science
University of Nebraska, Panhandle Research and Extension Center
April 2015- present

Assistant Professor of Animal Science
University of Nebraska, Panhandle Research and Extension Center
July 2009 –April 2015

Assistant Research Scientist
Texas AgriLife Research, Bushland, TX
August 2007 – June 2009

Assistant Professor of Animal Science
University of Tennessee-Knoxville
January 1995-1997

Research Technician II
University of Nebraska-Lincoln
May 1993-December 1994

Awards:

2013 Nebraska Range and Conservation Endowment – awarded by the Nebraska Cattlemen Research and Education Foundation - \$5000

2014 Nebraska Range and Conservation Endowment – awarded by the Nebraska Cattlemen Research and Education Foundation - \$5000

2021 Nebraska Range and Conservation Endowment – awarded by the Nebraska Cattlemen Research and Education Foundation - \$5000

2021 Gamma Sigma Delta Outstanding Extension Award

Memberships in Professional Organizations:

American Society of Animal Science
American Registry of Professional Animal Scientists

Refereed Publications From 2015 to Present:

1. Thapa, Vesh, Bijesh Maharjan, and **Karla Wilke**. 2024. Applying coal char to cattle pens for sustainable agriculture in the semiarid US High Plains. *Agrosystems, Geosystems, & Environment*. 7:2. <https://doi.org/10.1002/agg2.20492>
2. Miller, J.L, N.R. Meier, **K.H. Wilke**, G.E. Erickson, and P.L. Loza. 2024. Effect of corn silage inclusion with different corn processing on finishing steer performance and carcass characteristics. *Trans. Anim. Sci.* <https://doi.org/10.1093/tas/txae101>
3. Wheeler, K.E., M.S. Most, D.T. Dustin, J. Parsons, M.E. Drewnoski, and **K.H. Wilke**. 2023. Effects of strategic supplementation of distillers grains on gains and economic return of yearling cattle grazing cool season pastures in the summer. *Appl. Anim. Sci.* 39:494-501. <https://doi.org/10.15232/aas.2023-02432>
4. Blanco-Canqui, H., **K. Wilke**, J. Holman, C.F. Creech, A.K. Obour, and L. Anderson. 2023. Grazing cover crops: How does it influence soils and crops? *Agron. J.* 115:2801-2828. <https://doi.org/10.1002/agj2.21475>
5. Burken, A.J., D.B. Burken, R.G. Bondurant, A.K. Watson, K. Brooks, G.E. Erickson, **K.H. Wilke**, and J.C. MacDonald. 2023. Evaluation of performance of beef stocker cattle when fed distillers grains daily in feed bunks or distillers grains in self-feeding tubs. *Appl. Anim. Sci.* 39:363-370. <https://doi.org/10.15232/aas.2023-02389>
6. Gibbons, J.C., B.M. Boyd, H.C. Wilson, J.W. Wilson, **K.H. Wilke**, G.E. Erickson, A.K. Watson. 2023. Evaluation of condensed algal residue solubles as an ingredient in cattle finishing diets and the effects on digestibility and fatty acid flow. *Appl. Anim. Sci.* 39:133-145. <https://doi.org/10.15232/aas.2022-02349>
7. Spore, T.J., Z. E. Carlson, **K.H. Wilke**, G.E. Erickson, T.J. Klopfenstein, J. C. MacDonald, A.K. Watson. 2021. Effects of replacing wet distillers grains with supplemental SoyPass in forage-based growing cattle diets. *Transl. Anim. Sci.* 5:1-10.
8. **Wilke, K.H.**, P. L. Loza, A.K. Watson. 2021. Sugar beets as an energy source in gestating, growing, and finishing diets for beef cattle. *Appl. Anim. Sci.* 37:115–121 <https://doi.org/10.15232/aas.2020-02111>
9. Hall, H.R., K.I. Domenech, E.K. Wilkerson, F.A. Ribeiro, **K.H. Jenkins**, J.C. MacDonald, and C.R. Calkins. 2020. Fresh beef quality from cattle fed field peas during pasture and finishing phases of production. *Meat and Muscle Biol.* 4:1-8. <https://doi.org/10.22175/mmb.8762>

10. Troyer, B.C., H.L. Greenwell, A.K. Watson, J.C. MacDonald, and **K.H. Wilke**. 2020. Relative value of field pea supplementation compared with distillers grains for growing cattle grazing crested wheatgrass. *Appl. Anim. Sci.* 36:615-621. <https://doi.org/10.15232/aas.2020-02026>
11. Gardine, S.E., B. M. Boyd, C. J. Bittner, F. H. Hilscher, G. E. Erickson, **K. H. Jenkins**, T. J. Klopfenstein, and A. K. Watson. 2019. Effects of cow-calf production system and postweaning management on calf performance. *Appl. Anim. Sci.* 35:66–73 <https://doi.org/10.15232/aas.2018-01785>
12. Gardine, S.E., J. M. Warner, R. G. Bondurant, F. H. Hilscher, R. J. Rasby, T. J. Klopfenstein, A. K. Watson, and **K. H. Jenkins**. 2019. Performance of cows and summer-born calves and economics in semi-confined and confined beef systems. *Appl. Anim. Sci.* 35:521–529 <https://doi.org/10.15232/aas.2019-01858>
13. **Jenkins, K.H.**, C. F. Creech, G. W. Hergert, and A. L. Berger. 2019. Forage yield and nutritive quality of summer-planted annual forages in semi-arid regions after irrigated wheat or in a dryland cropping rotation. *Appl. Anim. Sci.* 35:371–378 <https://doi.org/10.15232/aas.2018-0182>
14. Ulmer, K., R. Rasby, J. Cox-O'Neill, **K. Jenkins**, J. MacDonald, M. Rakkar, H. Blanco, M. Drewnoski. 2018. Baling or grazing of corn residue does not reduce following crop production in central United States. *Agron. J.* 110:1–6 (2018) doi:10.2134/agronj2018.04.0226
15. Rakkar, M.K., H. Blanco-Canqui, R.J. Rasby, K. Ulmer, J. Cox-O'Neill, M. Drewnoski, R.A. Drijber, K. Jenkins, and J.C. MacDonald. 2018. Grazing crop residues has less impact in the short-term on soil properties than baling in the Central Great Plains. *Agron. J.* 110:1-13. doi:10.2134/agronj2018.03.0224. Published online October 18, 2018.
16. Greenwell, H., K. Jenkins, J. MacDonald. 2018. Evaluating field peas as an energy source for growing and finishing cattle. *Prof. Anim. Scientist* 34:202-209.
This paper is one of four resulting from research funded by a UNL foundation grant I was lead PI on. I wrote the grant and developed the design. I helped feed the cattle, mentored the student, was corresponding author on the paper (Approx. percentage contribution 80%)
17. Greenwell, H., J. Gramkow, M. Jolly-Breithaupt, J. MacDonald, and K. Jenkins. 2018. Effects of field pea supplementation on digestibility and rumen volatile fatty acid concentration of diets containing high and low quality forages. *Prof. Anim. Scientist* 34:631-641.
18. Bradshaw, J., Jenkins, K., Whipple, S. Impact of Grasshopper Control on Forage Quality and Availability in Western Nebraska. 2018. *Rangelands*. 40(3):71-76.
19. Buttrey, E., **Jenkins, K.**, McCollum III, T., Cole, A., Tedeschi, L., MacDonald, J. 2016. Effects of sorghum wet distillers grain plus solubles in steam flaked corn-based finishing diets on steer performance, carcass characteristics and digestibility characteristics. *Prof. Anim. Scientist*, 32: 768-776.

20. Volesky, J.D., S.L. Young, **K.H. Jenkins**. 2016. Cattle grazing effects on *Phragmites australis* in Nebraska. *Invasive Plant Science and Management* 9:121-127.
21. Boyd, B.M., A. Jones, L. Franzen-Castle, **K. Jenkins**, R. Rasby, M. Luebbe, R. Stowell, S.C. Fernando, and G.E. Erickson. 2015. Case Study: Producer concerns and perceptions regarding the effects of methane on cattle production and the environment: A survey of Nebraska producers. *Prof. Anim. Sci.* 31:601-607.
22. Warner, J.M., K. H. Jenkins, R. J. Rasby, M. K. Luebbe, G. E. Erickson, T. J. Klopfenstein. 2015. The effect of calf age at weaning on cow and calf performance and feed utilization by cow-calf pairs. *Prof. Anim. Sci.* 31:455-461; doi:10.15232/pas.2015-01393
23. Judy, J.V., **K.H. Jenkins**, T.J. Klopfenstein, L.A. Stalker, J. D. Volesky. 2015. Effects of stocking rate on forage nutrient composition of Nebraska Sandhills upland range when grazed in early summer. *J. Anim. Sci.* 93:9:4343-4349.
24. **Jenkins, K.H.**, S. A. Furman, J. A. Hansen, T. J. Klopfenstein. 2015. Limit feeding high energy by-product based diets to late gestation beef cows in confinement. *Prof. J. Anim. Sci.* 31:109-113.
25. Musgrave, J.A., J.V. Judy, **K. Jenkins**, T. Klopfenstein, A. Stalker, 2015. Technical note: Collection and preparation techniques change nutrient composition of masticate collected from esophageally fistulated cattle. *J. Anim. Sci.* 93(12) 5774-5780.

Refereed Publications from Appointment to Associate Professor (2009-2014):

- Franzen-Castle, L., **Jenkins, K.**, Berger, A. 2014. Utilizing short- and long-term evaluation to measure the impact of a long-standing, multi-state educational venue. *Journal of Human Sciences and Extension.* 2(3):15-31.
- Nichols, C.A., C.J. Schneider, **K.H. Jenkins**, G.E. Erickson, S.A. Furman, M.K. Luebbe. 2014. Effects of sugar beet-pulp concentration during grain adaptation and in finishing diets with different corn processing methods on performance and carcass characteristics. *Prof. Anim. Sci.* 30:318-326.
- Titlow, A.H., M.K. Luebbe, D.L. Lyon, T.J. Klopfenstein, **K.H. Jenkins**. 2014. Using Dryland Annual Forage Mixtures as a Grazing Option for Beef Cattle. *Forage and Grazinglands.* doi: 10.2134/FG-2014-0006-RS
- Pesta, A.C., A.H. Titlow, J.A. Hansen, A. Berger, S.A. Furman, M.K. Luebbe, G.E. Erickson, **K.H. Jenkins**. 2012. Effects of feeding field peas in combination with distillers grains plus solubles in finishing and growing diets on cattle performance and carcass characteristics. *Prof. Anim. Sci.* 28(5), 534-540.
- Buttrey, E.K., N.A. Cole, **K.H. Jenkins**, B.E. Meyer, F.T. McCollum, III, S. L.M. Preece, B.W. Auvermann, K.R. Heflin, J.C. MacDonald. (2012) Effects of 20% corn wet distillers grains plus

solubles in steam-flaked and dry-rolled corn-based finishing diets on heifer performance, carcass characteristics, and manure characteristics. *J. Anim. Sci.* 90:5086-5098.

Buttrey, E.K., **K.H. Jenkins**, J.B. Lewis, S.B. Smith, R.K. Miller, T.E. Lawrence, F.T. McCollum III, P.J. Pinedo, N.A. Cole, and J.C. MacDonald. 2013. Effects of 35% corn wet distillers grains plus solubles in steam-flaked and dry-rolled corn-based diets on animal performance, carcass characteristics, beef fatty acid composition, and sensory attributes. *J. Anim. Sci.* 91:1850-1865. Doi:10.2527/jas.2013-5029

Buttrey, E.K., F.T. McCollum III, **K.H. Jenkins**, J.M. Patterson, B.E. Clark, M.K. Luebbe, T.E. Lawrence, and J.C. MacDonald. 2012. Use of dried distillers grains throughout a beef production system: Effects on stocker and finishing performance, carcass characteristics, and fatty acid profile of beef. *J. Anim. Sci.* Published ahead of print January 27, 2012 doi:10.2527/jas.2011-4807.

Luebbe, M.K., J. M. Patterson, **K. H. Jenkins**, E. K. Buttrey, T. C. Davis, B. E. Clark, F. T. McCollum III, N. A. Cole, and J. C. MacDonald 2012. Wet distillers grains plus solubles concentration in steam-flaked corn-based diets: Effects on feedlot cattle performance, carcass characteristics, nutrient digestibility, and ruminal fermentation characteristics. *J ANIM SCI* December 6, 2011 jas.2011-4567; published ahead of print December 6, 2011, doi:10.2527/jas.2011-4567.

Jenkins, K.H., K.J. Vander Pol, J.T. Vasconcelos, S.A. Furman, C.T. Milton, G.E. Erickson, T.J. Klopfenstein. 2011. Effect of degradable intake protein supplementation in finishing diets containing dried distillers grains or wet distillers grains plus solubles on performance and carcass characteristics. *Professional Animal Scientist.* 27(2011):312-318.

Jenkins, K.H., J.T. Vasconcelos, J.B. Hinkle, S.A. Furman, A.S. de Mello, jr. L.S. Senartne, S. Pokharel, C.R. Calkins. 2011. Evaluation of performance, carcass characteristics, and sensory attributes of beef from finishing steers fed field peas. *Journal of Animal Science* 89:1167-1172.

Jenkins, K.H., J.C. MacDonald, F.T. McCollum III, and S.A. Amosson. 2009. Effects of level of supplementary dried distiller's grains on calves grazing native pastures and subsequent wheat pasture performance. *Professional Animal Scientist.* 25(2009)596-604.

Refereed Publications Prior to Appointment at UNL:

Hollingsworth-Jenkins, K.J., T.J. Klopfenstein, D.C. Adams, J.B. Lamb. 1996. Rumen degradable protein requirements of gestating beef cows grazing dormant native sandhills range. *J. Anim. Sci.* 74:6, 1343

Hollingsworth, K.J., D.C. Adams, T.J. Klopfenstein, J.B. Lamb, G. Villalobos. 1995. Supplement and forage effects on fecal output estimates from an intra-ruminal marker device. *J. Range Management.* March 1995 v. 48(2) p. 137-140.

Hollingsworth, K.J., T.J. Klopfenstein, M.H. Sindt. 1993. Metabolizable protein of summer annuals for grazing calves. *J. Prod. Agric.* 6:415.

Proceedings:

Wilke, K. 2021. Adding Yearlings to the Cow-Calf Enterprise for Drought Mitigation or Income Diversification. Range Beef Cow Symposium XXVII.

Jenkins, K and S. Paisley. 2017. Body Condition Scoring in Beef Cows. Range Beef Cow Symposium XXV.

Jenkins, K. 2016. Technology for the Cowherd revisited. 2016. State of Beef Conference.

Gardine, S., Warner, J., Klopfenstein, T., Rasby, R., **Jenkins, K.** 2016. Using Cornstalk Grazing as a Component of a Partial Confinement System for Production Beef Cows. (pp. 21-26). Dr. Kenneth and Caroline Eng Symposium Proceedings

Musgrave, J.A., J.V. Judy, L.A. Stalker, T.J. Klopfenstein and **K.H. Jenkins.**2014.Effects of ingestion and collection bag type on nutrient composition of masticate samples collected from esophageally fistulated cattle. Vol.65. Pp. 125-128. Proceedings of the Western Section American Society of Animal Science.

Judy, J.V., J. A. Musgrave, L. A. Stalker, **K. H. Jenkins,** and T. J. Klopfenstein. 2014. Effects of stocking rate on forage nutrient composition of Nebraska Sandhills upland range when grazed in early summer. Vol. 65. Pp. 134-137. Proceedings of the Western Section American Society of Animal Science.

Judy, J.V., J. A. Musgrave, L. A. Stalker, **K. H. Jenkins,** and T. J. Klopfenstein. 2014. Grazing effects on Nebraska Sandhills meadow diet nutrient composition. Vol. 65. Pp. 138-140. Proceedings of the Western Section American Society of Animal Science.

Jenkins, K.H., J. Warner, R.J. Rasby, and T.J. Klopfenstein. 2014. Limit feeding production cows in confinement. Ken and Caroline Eng Foundation Cow-Calf Symposium.

Jenkins, K.H. 2014. Limit feeding production cows in confinement. High Plains Nutrition Roundtable.

Jenkins, K.H. 2014. Limit feeding production cows in confinement. State of Beef Conference.

Jenkins, K. (2013). Using Crop Residues and By-Products to Limit Feed Cows in Confinement. Rapid City SD: XXIII Range Beef Cow Symposium Proceedings. <http://beef.unl.edu/range-beef-cow-symposium-XXIII>

Jenkins, K. (2013). Using Crop Residues and By-Products to Limit Feed Cows in Confinement. (pp. 3-6). Ken and Caroline Eng Foundation Cow-Calf Symposium.

- Jenkins, K.** (2013). No-till Dryland Cover Crops as a Forage Option for Beef Cattle. (pp. 55-61). Lincoln, NE: Nebraska Grazing Conference Proceedings. Center for Grassland Studies. http://grassland.unl.edu/c/document_library/get_file?uuid=16e596bc-7872-4011-b7fe-32f9e888ca8e&groupId=1980339&.pdf
- Judy, J., Musgrave, J., Stalker, L., **Jenkins, K.**, Klopfenstein, T. 2013. Grazing effects on Nebraska Sandhills meadow nutrient composition. (vol. 64, pp. 330-331). Proceedings of the Western Section American Society of Animal Science.
- Pesta, A.C., S. A. Furman, M. K. Luebbe, G. E Erickson, and **K. H. Jenkins**. 2011. Effects of field peas fed with distillers grains with solubles and dry-rolled corn on finishing performance and carcass traits of feedlot cattle. Proceedings, Western Section, American Society of Animal Science Vol. 62.
- Musgrave, J.A., L.A. Stalker, T.J. Klopfenstein, M.C. Stockton, and **K.H. Jenkins**. 2010. Effects of corn hybrid on the amount of residue available for grazing relative to grain yield. Proceedings, Western Section, American Society of Animal Science Vol. 61 p131.
- Jenkins, K.H.**, G.E. Erickson, J.T. Vasconcelos. 2010. University of Nebraska – Panhandle Research and Extension Research Update In: Proc. 2010 Plains Nutrition Council Spring Conference, San Antonio, TX. AREC 10-57. Texas AgriLife Research and Extension Ctr, Amarillo, TX.
- MacDonald, J.C. and **K.H. Jenkins**. 2008. Research update from Texas AgriLife Research at Amarillo. Pp. 93-97. In: Proc. 2008 Plains Nutrition Council Spring Conference, San Antonio, TX AREC 08-19. Texas AgriLife Research and Extension Ctr, Amarillo, TX.
- Redfearn, D.D. and **K.H. Jenkins**. Native warm-season grasses: research trends and issues. Proceedings of the Native Warm-Season Grass Conference and Expo Des Moines, IA USA 12-13 Sept. 1996. Crop Science Society of America, Madison, USA: 2000.3-21.
- Hollingsworth-Jenkins, K. J.**, J. C. Waller, and H. A. Fribourg. 1995. Nutritional management of replacement heifers: A five step approach. Proc. 1995 Beef Management Conf. The Univ. of Tennessee, Knoxville Exp. Sta. 22 Jun. pp. 1-22.
- Hollingsworth, K.J.**, T.J. Klopfenstein, D.C. Adams, J.B. Lamb. 1992. Escape protein or energy for nursing calves grazing native sandhills range. Proceedings of the Western Section, American Society of Animal Science. July 8-10, 1992. 43:495.
- Hollingsworth, K.J.**, T.J. Klopfenstein, M.H. Sindt, B.E. Anderson. 1991. Metabolizable protein of summer annuals. Proceedings of the Forage and Grassland Conference (USA). pp.281-284.

Abstracts:

- Adair, K., A.K. Watson, J.C. MacDonald, K. Wilke. 2022. Evaluation of forage quality of crested wheatgrass. *Journal of Animal Science*, Volume 100, Issue Supplement_2, May 2022, Page 106, <https://doi.org/10.1093/jas/skac064.178>
- Meier, N.R., K. Wilke, G.E. Erickson, and P.L. Loza. 2022. Effects of corn processing and silage inclusion levels in feedlot diets on steer performance. *Journal of Animal Science*, Volume 100, Issue Supplement_2, May 2022, Page 96, <https://doi.org/10.1093/jas/skac064.159>
- Wheeler, K. E., K. Wilke, M.E. Drewnoski, J. Parsons, and D. Dustin. 2022. Strategically supplementing yearling cattle on cool season pasture: implications for cattle performance and return to management. *Journal of Animal Science*, Volume 100, Issue Supplement_4, November 2022, Pages 4–5, <https://doi.org/10.1093/jas/skac313.005>
- Grabau, M., **Wilke, K.H.**, Drewnoski, M.E. 2021. Management of the young calf when dams are limited in confinement. Midwest Animal Science Abstracts. *Journal of Animal Science*, Volume 99, Issue Supplement_1, May 2021, Pages 116–117, <https://doi.org/10.1093/jas/skab054.193>
- Troyer, B., Greenwell, H., Watson, A. K., MacDonald, J., **Jenkins, K.** (2018). Economics of field pea supplementation for cattle grazing crested wheatgrass. (vol. 96(2), pp. 223-224). Midwest Animal Science Abstracts.
- Gardine, S., Warner, J., Boyd, B., Bittner, C., Hilscher, H., **Jenkins, K.**, Erickson, G., Klopfenstein, T. (2018). Effects of cow-calf production system and post-weaning management on finishing performance. (vol. 96(2), pp. 248). Midwest Animal Science Abstracts.
- Greenwell, H., Gramkow, J., Jolly, M., MacDonald, J., **Jenkins, K.** (2016). Effects of field pea supplementation on digestibility and rumen volatile fatty acid concentration of diets containing high- and low-quality forages. (vol. 94:suppl. 5, pp. 742-742.). *Journal of Animal Science*.
- Greenwell, H., **Jenkins, K.**, MacDonald, J. (2016). Evaluating the Feeding Value of Field Peas for Growing and Finishing Cattle. (vol. 94:suppl. 5, pp. 685-685). *Journal of Animal Science*.
- Gardine, S., Warner, J., Bittner, C., Bondurant, R., **Jenkins, K.**, Rasby, R., Luebbe, M., Erickson, G., Klopfenstein, T. (2016). Effects of wintering system on cow and calf performance in a summer-calving intensive production system. (vol. 94:suppl. 2, pp. 166-166). *Journal of Animal Science*.
- Sudbeck, K.M., G.E. Erickson, M.K. Luebbe, **K.H. Jenkins**, R.G. Bondurant, T. Wishtuba, K. DeHaan, J.C. MacDonald. 2015. Effects of supplementation of OmniGen-AF and ractopamine hydrochloride on feedlot performance and carcass characteristics. *J. Anim. Sci.* 93 (Suppl.2 p.89, abstract #203)
- Warner, J.M., **K.H. Jenkins**, R.J. Rasby, M.K. Luebbe, D.R. Smith, G.E. Erickson, T.J. Klopfenstein. 2015. Herd health observations in an intensively managed cow-calf production system. *J. Anim. Sci.* 93 (Suppl. 2, p. 110, abstract #249.)
- Warner, J.M., **K. H. Jenkins**, R. J. Rasby, M. K. Luebbe, G. E. Erickson, T. J. Klopfenstein. 2014. Effects of calf age at weaning on cow and calf performance and feed utilization in an intensive production system. (Supp. E-2, Vol. 92, p. 345, abstract # 691.)

- Bittner, C.J., G. E. Erickson, **K. H. Jenkins**, M. K. Luebbe, G. I. Zanton, M. A. Andersen. 2014. Effects of Next Enhance concentrations in finishing diets on performance and carcass characteristics of yearling feedlot cattle. (Supp. E-2, Vol. 92, p. 309, abstract # 595.
- Warner, J.M., **K. H. Jenkins**, R. J. Rasby, M. K. Luebbe, G. E. Erickson, T. J. Klopfenstein. 2014. Effects of calf age at weaning on cow and calf performance and feed utilization in an intensive production system. (Supp. 2, Vol. 92, p. 44, abstract # 101.) J. Anim. Sci.
- Bittner, C.J., G.E. Erickson, **K.H. Jenkins**, M.K. Luebbe, T. Wistuba. 2013. Including NEXT ENHANCE essential oils in finishing diets on performance with or without monensin and tylosin. (Supplement 2, Vol. 91, p. 81, abstract # O250.) J. Anim. Sci.
- Harris, M.E., G.E. Erickson, **K.H. Jenkins**, M.K. Luebbe. 2013. Comparing condensed distillers soluble concentration in steam-flaked corn finishing diets on cattle performance and carcass characteristics. (Supplement 2 vol. 91, p.54, abstract # O157.) J. Anim. Sci.
- Schneider, C.J., M.K. Luebbe, **K.H. Jenkins**, S.A. Furman, G.E. Erickson, T.J. Klopfenstein. 2013. Effects of monensin level during grain adaptation on animal performance and carcass traits. (Supplement 2 Vol. 91, p.79, abstract # O243.) J. Anim. Sci.
- Jenkins, J.D., S. Whipple, **K.H. Jenkins**, J. Bradshaw. 2012. "Investigation of the effects of cattle diet and nutrition on dung beetle attraction and utilization in Nebraska rangelands" North Central Branch of the entomological Society of America.
- Nichols, C.A., M.K. Luebbe, **K.H. Jenkins**, G.E. Erickson, S.A. Furman, T.J. Klopfenstein (2012). Effects of corn processing on feedlot steers fed sugar beet pulp (Supplement 2 ed., vol. 90, p. 11, abstract #27. J. Anim. Sci.
- Titlow, A.H., J.A. Hansen, M.K. Luebbe, **K.H. Jenkins** (2012). Evaluation of a dried distillers grains with solubles cube using field peas as a binder (Supplement 2 ed., vol. 90 p.44, abstract #112) J. Anim. Sci.
- Titlow, A.H., S.A. Furman, M.K. Luebbe, **K.H. Jenkins**, A.L. Shreck, G.E. Erickson. 2012. Replacing steam-flaked corn or dry rolled corn with condensed distillers solubles in feedlot finishing diets (Supplement 2 ed., vol. 90 p.42. abstract #109) J. Anim. Sci.
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- Nichols, C.A., **K. H. Jenkins**, G. E. Erickson, S. A. Furman, and T. J. Klopfenstein. 2011. Effects of different ratios of steam-flaked corn and dry-rolled corn on finishing performance and carcass traits of feedlot cattle fed distillers grains with solubles. J. Anim. Sci. 89: E-supplement 2.

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Funded Post-tenure (2015-present) Grants:

Wilke, K. (Principal Investigator) 139911, Grant, "Monensin with Beef Cattle", Ridley Block Operations, \$70,000, Awarded. (Start: 8/18/2023, end: 12/31/2024)

Wilke, K. (Principal Investigator) 139911, Grant, "Monensin with Beef Cattle", Ridley Block Operations, \$70,000, Awarded. (Start: 8/18/2021, end: 12/31/2022)

Drewnoski, M. (Principal Investigator), **Wilke, K.** (Principal Investigator), Vander Ley, B. (Investigator), Redfearn, D. (Investigator), Parsons, J. (Investigator), 128851, Grant, "Cow/Calf with Limited Grass", Univ of Minnesota-SARE, Universities, Research, \$199,642.00, Awarded. (start: January 1, 2020, end: January 1, 2023)

Drewnoski, M. (Principal Investigator), **Jenkins, K.** (Investigator), Guretzky, J. (Investigator), Parsons, J. (Investigator), Redfearn, D. (Investigator), MacDonald, J. (Investigator), Volesky, J. (Investigator), Stephenson, M. (Investigator), IC-15898, Grant, "NC1181: Optimizing land use for beef cattle production", Internal, \$398,406.00, Awarded. (start: October 1, 2019, end: September 30, 2024).

Maharjan, B. (Principal Investigator), **Wilke, K.** (Investigator), Maharjan, B. (Investigator), Wilke, K. (Investigator), 138100, Contract, "Coal Char Mixed with Manure", Western Sugar Cooperative, Associations/Foundations, Research, \$5,500.00, Awarded. (sub: December 22, 2020, start: January 1, 2021, end: December 31, 2021).

Erickson, G. (Principal Investigator), **Jenkins, K.** (Investigator), 124303, Contract, "Enogen and WDGS Inclusion", Syngenta, Industry, Research, \$63,789.00, Awarded. (sub: May 10, 2018, start: May 15, 2018, end: May 15, 2021).

Maharjan, B. (Principal Investigator), **Wilke, K.** (Investigator), 133087, Contract, "Coal Char Mixed with Manure", Western Sugar Cooperative, Associations/Foundations, Research, \$15,000.00, Awarded. (sub: December 19, 2019, start: January 1, 2020, end: December 31, 2020).

Erickson, G. (Principal Investigator), **Jenkins, K.** (Investigator), 124755, Contract, "Green Grass Inclusion", Green Grass, Industry, Research, \$50,720.00, Awarded. (sub: June 4, 2018, start: June 1, 2018, end: June 30, 2020).

Erickson, G. (Principal Investigator), **Jenkins, K.** (Investigator), 124754, Contract, "Green Grass Inclusion", Green Grass, Industry, Research, \$73,350.00, Awarded. (sub: June 4, 2018, start: June 1, 2018, end: June 30, 2020).

Maharjan, B. (Principal Investigator), **Wilke, K.** (Investigator), 127617, Contract, "High Carbon Char in Manure", Western Sugar Cooperative, Associations/Foundations, Research, \$10,500.00, Awarded. (start: January 1, 2019, end: December 31, 2019).

MacDonald, J. (Principal Investigator), Rasby, R. (Investigator), Volesky, J. (Investigator), Stalker, L. (Investigator), Massengale, M. (Investigator), **Jenkins, K.** (Investigator), Anderson, B. (Investigator), Schacht, W. (Investigator), Guretzky, J. (Investigator), IC-342, Grant, "Enhancing resiliency of beef production under shifting forage resources", Internal, \$499,144.00, Awarded. (start: October 1, 2014, end: September 30, 2019).

Erickson, G. (Principal Investigator), **Jenkins, K.** (Investigator), 122860, Contract, "Feed Wheat for Feedlot Cattle", Ne Wheat Board, State Agencies, Research, \$20,000.00, Awarded. (sub: February 1, 2018, start: July 1, 2018, end: June 30, 2019).

Jenkins, K. (Principal Investigator), 123179, Contract, "Shredded Corn Silage in Cattle Diet", CLAAS Omaha Inc, Industry, Research, \$52,000.00, Awarded. (sub: February 20, 2018, start: September 1, 2017, end: April 30, 2019).

Maharjan, B. (Principal Investigator), **Jenkins, K.** (Investigator), 122372, Contract, "High Carbon Char in Manure", Western Sugar Cooperative, Associations/Foundations, Research, \$9,600.00, Awarded. (sub: December 21, 2017, start: February 18, 2017, end: February 28, 2019).

Jenkins, K. (Principal Investigator), 122375, Contract, "Complete Sugar Beets for Cattle", Western Sugar Cooperative, Associations/Foundations, Research, \$6,800.00, Awarded. (sub: December 19, 2017, start: February 1, 2018, end: January 31, 2019).

Stephenson, M. (Principal Investigator), **Jenkins, K.** (Investigator), Creech, C. (Investigator), 93211, Contract, "Eval of Grazable Cover Crop/Forages", Ne Grazing Lands Coalition, Associations/Foundations, Research, \$50,000.00, Awarded. (sub: July 7, 2016, start: January 1, 2017, end: December 31, 2018).

Mamo, M. (Principal Investigator), Bradshaw, J. (Investigator), Eskridge, K. (Investigator), Ferguson, R. (Investigator), Guretzky, J. (Investigator), **Jenkins, K.** (Investigator), Schacht, W. (Investigator), Volesky, J. (Investigator), Yang, H. (Investigator), Wingeyer, A. (Investigator), Whipple, S. (Investigator), 65404, Grant, "Grazing Mgmt Effect on Scale Fate", Dept of Agriculture-NIFA, Federal, Research, \$497,000.00, Awarded. (sub: February 20, 2013, start: September 1, 2013, end: August 31, 2018).

Rasby, R. (Principal Investigator), MacDonald, J. (Investigator), Blanco, H. (Investigator), **Jenkins, K.** (Investigator), 64021, Grant, "Crop Residue Removal", Univ of Minnesota-SARE, Universities, Public Service, \$199,059.00, Awarded. (sub: November 5, 2012, start: October 1, 2013, end: November 1, 2017).

Fernando, S. (Principal Investigator), Erickson, G. (Investigator), Klopfenstein, T. (Investigator), Rasby, R. (Investigator), Luebbe, M. (Investigator), **Jenkins, K.** (Investigator), 59605, Grant, "Methane Mitigation in Beef Cattle", Dept of Agriculture-AFRI, Federal, Research, \$749,941.00, Awarded. (sub: December 15, 2011, start: August 1, 2012, end: July 31, 2017).

MacDonald, J. (Principal Investigator), Erickson, G. (Investigator), Kononoff, P. (Investigator), Fernando, S. (Investigator), Drewnoski, M. (Investigator), Watson, A. (Investigator), Funston, R. (Investigator), **Jenkins, K.** (Investigator), Schacht, W. (Investigator), Guretzky, J. (Investigator), IC-3265, Grant, "Replacement of key equipment in ruminant nutrition", Internal, \$29,767.00, Awarded. (start: March 29, 2017, end: March 31, 2017).

Rasby, R. (Principal Investigator), MacDonald, J. (Co-Principal Investigator), Blanco, H. (Co-Principal Investigator), **Wilke, K.** (Investigator), Grant, "Understanding the Impact of Grazing and Baling Corn residue on Subsequent Crop Yields Grown Across Various Soil Types with Different Erosion Potential", NC-SARE, Other Agencies, Research, \$199,019.00, Awarded, No. (expsub: April 15, 2013, sub: April 15, 2013, start: October 15, 2013, end: October 15, 2016).

Fernando, S. (Principal Investigator), Klopfenstein, T. (Co-Principal Investigator), Erickson, G. (Co-Principal Investigator), Luebbe, M. (Co-Principal Investigator), **Wilke, K.** (Co-Principal Investigator), Rasby, R. (Co-Principal Investigator), Grant, "Methane mitigation in Beef Cattle", Department of Agriculture- AFRI / NIFA, Federal, Research, \$749,941.00, Awarded, No. (sub: December 15, 2011, start: August 1, 2012, end: July 31, 2016).

Creech, C. (Principal Investigator), Santra, D. (Investigator), Harveson, B. (Investigator), Stephenson, M. (Investigator), Bradshaw, J. (Investigator), **Jenkins, K.** (Investigator), IC-1031, Grant, "Enhancing Wheat Research & Extension Programs by Increasing Plot Harvest Efficiency -- Wheat/Small Grain Harvest Equipment Request", Internal, \$45,000.00, Awarded. (start: July 1, 2015, end: June 30, 2016).

Jenkins, K. (Principal Investigator), IC-1065, Grant, "Cattle Handling Facility Renovations for the High Plains Ag Lab Near Sidney, NE", Internal, \$51,978.00, Awarded. (start: May 27, 2015, end: April 30, 2016).

Stalker, L. (Principal Investigator), Blanco, H. (Investigator), Burr, C. (Investigator), Hergert, G. W. (Investigator), **Wilke, K.** (Investigator), MacDonald, J. (Investigator), Schacht, W. (Investigator), Shaver, T. (Investigator), Stockton, M. (Investigator), Volesky, J. (Investigator), ICO-1345, Grant, "Integrating Grazing of Crop Residues and Cover Crops into Beef Production Systems across a Precipitation Gradient in Nebraska: Implications for Sustainability", Internal, \$150,000.00, Awarded. (start: October 1, 2013, end: September 30, 2015).

Wilke, K. (Principal Investigator), 75765, Grant, "Range Management and Conservation Research", Ne Community Foundation Inc, Associations/Foundations, Research, \$5,000.00, Awarded. (sub: February 5, 2015, start: January 1, 2015, end: June 30, 2015).

MacDonald, J. (Investigator), Luebbe, M. (Investigator), Calkins, C. (Investigator), **Wilke, K.** (Principal Investigator), ICO-1339, Grant, "Evaluating the Feeding Value of Field Peas for Growing and Finishing Cattle in a Western Nebraska Production System", Internal, \$196,896.00, Awarded. (start: July 1, 2013, end: June 30, 2015).