

CURRICULUM VITAE

James K. Rogers

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EDUCATION:

Ph.D.: Agronomy, Clemson University, Clemson, S.C., 1995. (Advisor: W.C. Stringer)
Dissertation title: *Fiber, mineral and nitrogen content of tall fescue (Festuca Arundinacea, Schreb.) clones as influenced by plant genotype and endophyte (Acremonium coephalum) infection.*

M.S.: Animal Science, Clemson University, Clemson, S.C., 1988. (Advisor: C.W. Thompson) Thesis title: *Performance of embryo transplant calves from five recipient dam breeds.*

B.S.: Animal Science, Clemson University, Clemson, S.C. 1986.

PROFESSIONAL EXPERIENCE:

Assistant Professor, Pasture and Range, Samuel Roberts Noble Foundation, 2010 – Present.

NF3 Team Manager, Pasture and Range Consultant, Samuel Roberts Noble Foundation, 2008-2010.

Discipline Coordinator, Pasture and Range Consultant, Samuel Roberts Noble Foundation, 2004-2010.

Pasture and Range Consultant, Samuel Roberts Noble Foundation, 2002-2004.

County Program Director, Livestock Specialist, University Outreach and Extension, University of Missouri, Columbia, MO, 1995-2002.

Livestock Specialist, University Outreach and Extension, University of Missouri, Columbia, MO, 1992-1995.

Instructor of Biology, Tri-County Technical College, Pendleton, S.C., 1991-1992.

RESEARCH INTEREST:

Grazing Season Extension, Forage Systems, Forage/Grazing Animal Interaction, Tall Fescue Endophyte, Winter Pasture, Cover Crops.

PUBLICATIONS:

- Hauque, M., J.T. Biermacher, J. Mosali, and J.K. Rogers. 2016 Economic feasibility of using switchgrass pasture to produce beef cattle gain and bioenergy feedstock. **In revision. January, 2016.**
- Rogers, J.K., N.R. Walker, and C.A. Young. 2016. The effect of endophyte on nematode populations in summer-dormant and summer-active tall fescue. **Journal of Nematology** 48(2):87-94.
- Rogers, J.K., C.A. Young, J. Mosali, S.L. Norton, and A.A. Hopkins. 2014. Stockpiled forage yield and nutritive value of summer-dormant and summer-active tall fescue in a marginal environment. **Forage and Grazinglands**. doi:10.2134/FG-2014-0065-RV.
- Rogers, J.K., B. Nichols, J.T. Biermacher, and J. Mosali. 2014. The value of native, warm-season perennial grasses grown for pasture or biofuel in the southern Great Plains, USA. **Crop & Pasture Science**. Vol. 65. pp. 550-555. <http://dx.doi.org/10.1071/CP13396>.
- Rogers, J.K. and J. Mosali. 2014. No-till seeding chicory into bermudagrass sod results in poor chicory stands in south central Oklahoma. **Forage and Grazinglands**. Vol. 12. No. 1. Doi:10.2134/FG-2012-0161-BR.
- Rogers, J.K., B. Nichols, J.T. Biermacher, and J. Mosali. 2013. The values of warm-season perennial grasses grown for pasture or biofuel in the southern Great Plains, USA. **Proceedings of the 22nd International Grassland Congress**. Sydney, AU. September 15-19. pp. 352-353.
- Rogers, J.K. and B. Nichols. 2013. Switchgrass establishment. **Noble Foundation Press**, NF-FO13-01.
- Rogers, J.K. and J.M. Locke. 2013. Tall fescue: History, application, establishment and management. **Noble Foundation Press**, NF-FO-13-03.
- Biermacher, J. T., R.R. Reuter, M.K. Kering, J.K. Rogers, J.R. Blanton, J. Guretzky, J., and T.J. Butler. 2012. Expected economic potential of substituting legumes for nitrogen in bermudagrass pastures. **Crop Science**, 52 (4), 1923-1930. doi: 10.2135/cropsci2011.08.0455.

Nichols, B., J. Rogers, J. Biermacher, and J. Mosali. 2013. Switchgrass as a dual-purpose grazing and bioenergy crop. **Noble Foundation Press**, NF-AS-12-03.

Rogers, J. K., F.J. Motal, and J. Mosali. 2012. Yield, yield distribution, and forage quality of warm-season perennial grasses grown for pasture or biofuel in the southern great plains. **ISRN Agronomy Journal**, (Article ID 607476). doi: 10.5402/2012/607476.

Biermacher, J.T., R.R. Reuter, T.J. Butler, M.K. Kering, J.D. Springer, J.K. Rogers, J.R. Blanton, Jr., and J.A. Guretzky. 2011. Economic potential of substituting legumes for nitrogen in warm season pastures used for stocker cattle grazing. **Proceedings of the 18th International Farm Management Association's Congress**, (2011): 362-368.

Rogers, J. K., B.C. Morton, and J. Mosali. 2011. Plant and endophyte effect on fiber, N, and P concentrations in tall fescue. **International Journal of Agronomy**, (Article ID 948605). doi: 10.1155/2011/948605.

Rogers, J.K. 2011. Drought Management. **Noble Foundation Press**, NF-FO-11-01.

Rogers, J., and Locke, J., 2007. Forage record book and pocket guide. **Noble Foundation Press**, NF-FO-07-03.

Rogers, J. 2006. Warm season perennial grass evaluation. **Noble Foundation Press**, NF-FO-05-05.

Rogers, J., and F. Motal. 2006. Oklahoma 2005 warm-season perennial variety grass trial results. **Plant Management Network**. No. 48.

Rogers, J. 2005. Grazing stick instruction manual. **Noble Foundation Press**, NF-FO-04-05.

Gentry, M., R. Alexander, M. Brees, R. Clark, M. Redelfs, W. Roberts, J. Rogers, and M. Sobba. 1994. Soybean tillage study no-till vs. conventional/conservation till, 1994. **University of Missouri Outreach and Extension**. Columbia, MO.

Gentry, M., R. Alexander, M. Brees, R. Clark, M. Redelfs, W. Roberts, J. Rogers, and M. Sobba. 1993. Soybean tillage study no-till vs. conventional/conservation till, 1993 **University of Missouri Outreach and Extension**. Columbia, MO.

Working Manuscripts:

Biedenbach, A., J. T. Biermacher, and J.K. Rogers. 2016. Effectiveness and economics of native pasture restoration practices designed for the Southern Great Plains. **Manuscript draft completed.**

- Reuter, R. R., J. T. Biermacher, J.K. Rogers, and C. A. Moffet. 2016. Effects of establishment method on performance and profitability of a wheat grazing enterprise. **Manuscript draft completed.**
- Biermacher, J.T., J.K. Rogers, C. Moffet and R. Reuter. 2016. Supplementing Soybean Hulls to Stocker Cattle Grazing Wheat During Periods of High N Prices.
- Rogers, J.K., J. Pitman, B. Crawford, T. Rice, and E. Van Santen. 2017. Grazing preference of warm-season perennial grasses in the southern Great Plains. **Manuscript partially completed.**
- Rogers, J.K., J. Mosali, S. Norton. 2017. The effect of Vitazyme, a liquid bio-stimulant, either alone or in combination with N on yield and nutritive concentration of bermudagrass in south central Oklahoma. **Manuscript written and is being revised for submission.**
- Young, C.A., T. Butler, and J.K. Rogers. Ergot alkaloid levels with differing fertilizer rates in the southern Oklahoma environment.
- Reuter, R. R., J. Springer, J. Rogers, and J. Biermacher. Economic Potential for Intensive Grazing of Lightweight Stocker Cattle in the Southern Plains.

ABSTRACTS:

- Rogers, J.K., S. G. Robertson, and G.R. Sweeten. 2016. Tillage and soil moisture effects on winter pasture production and stocker average daily gain. ASA, CSSA, and SSSA Annual Meeting. Phoenix, AZ. November 6-9.
- Mattupalli, C., C.A. Moffet, J.K. Rogers, and C.A. Young. 2016. Monitoring spread of Phymatorichopsis root rot disease in alfalfa hay production fields using UAV and VLSA aerial imagery. Schroth Faces of the Future Symposium 2016, American Phytopathological Society Meeting. Pasadena, California. August 1-5, 2016.
- Biedenbach, A., J. T. Biermacher, and J.K. Rogers. 2015. Effectiveness and economics of native pasture restoration practices designed for the Southern Great Plains. 2016 SAEA Annual Meeting. San Antonio, TX. February 6-9.
- Rogers, J.K., J. Biermacher, and A. Biedenbach. 2015. Systems for the conversion of bermudagrass to switchgrass or a diversity of nativegrasses. 2016 AFGC Annual Meeting. Baton Rouge, LA. January 10-13.
- Rogers, J.K., J. Biermacher, and A. Biedenbach. 2015. Evaluation of twelve conversion systems for the conversion of bermudagrass to switchgrass or nativegrass mixture. Sixth National Conference on Grazing Lands. Grapevine, TX. December 13-16.

- Rogers, J.K., J. Biermacher, and A. Biedenbach. 2015. Conversion systems of bermudagrass to switchgrass or mixed nativegrass. ASA, CSSA, and SSSA Annual Meeting. Minneapolis, MN. November 15-18.
- Mattupalli, C., C. Curtsinger, C.A. Moffet, J.K. Rogers, and C.A. Young. 2015. Spatial-temporal dynamics of phymatotrichopsis root rot disease in alfalfa hay production fields. 7th Annual Agronne Soil Metagenomics Meeting. Lisle, IL. October 21-23.
- Galyen, W., B. Kegley, J. Powell, P. Beck, D. Hubbell, T. Hess, T. Butler, and J. Rogers. 2015. Effect of grazing management on performance of steers grazing mixed alfalfa and bermudagrass pastures. Southern Section American Society of Animal Science. Atlanta, GA. January 31- February 3.
- Biermacher, J.T., J.K. Rogers, C. Moffet, and R. Reuter. 2015. Supplementing soybean hulls to stocker cattle grazing wheat during periods of high N prices. Southern Association of Agricultural Scientist. Atlanta, GA. January 31 – February 3.
- Van Santen, E., B. Ortiz, W. Alison, A. Blount, V.A. Corriher, D.W. Hancock, R. Nave, L.R. Nelson, J.K. Rogers, and S. R. Smith, Jr., 2014. Effect of ENSO phase on seasonal forage yield of annual ryegrass. ASA, CSSA, and SSSA Annual Meeting. Longbeach, CA. November 2-5.
- Mosali, J., J.K. Rogers, and J. Biermacher. 2013. Utilization of switchgrass in a dual purpose stocker cattle and bioenergy system under continuous and rotational grazing. ASA, CSSA, and SSSA Annual Meeting. Tampa, FL. November 3-6.
- Rogers, J.K., and J. Mosali. 2013. Interseeding chicory into bermudagrass results in poor chicory stands in south central Oklahoma. ASA, CSSA, and SSSA Annual Meeting. Tampa, FL. November 3-6.
- Rogers, J.K., and J. Mosali. 2013. Conversion of bermudagrass to a switchgrass monoculture or mixed nativegrass. ASA, CSSA, and SSSA Annual Meeting. Tampa, FL. November 3-6.
- Young, C.A., D.P. Malinowski, M.A. Trammell, S.M. Interrante, J.K. Rogers, and T.J. Butler. 2013. Endophyte status in summer-dormant tall fescue in the southern Great Plains of USA. Poster presentation. International Grassland Congress. September 15-18, Sydney, Australia.
- Brummer, C.E., M. Trammell, C. Young, M. Saha, J. Rogers, and T. Butler. 2013. Summer dormant tall fescue breeding as the Noble Foundation. Proceedings of the Summer Dormancy workshop in conjunction with the 22nd International Grasslands Congress. Sydney, AU. September 15-19.

- Reuter, R., J. Rogers, and J. Biermacher. 2013. Feeding the pasture vs. feeding the steer: Interaction of fertilizer and supplement inputs to a wheat grazing system. 66th Annual Meeting of the Society for Range Management. February 4, 2013, Oklahoma City, OK.
- Reuter, R., J.K. Rogers, and J. Biermacher. 2012. Interaction of fertilizer and supplement inputs to a wheat grazing system. The 5th National Conference on Grazing Lands. December 9-12, 2012, Orlando, FL.
- Moffet, C.A., R. Reuter, and J.K. Rogers. 2012. Predicting forage mass for cereal forages with a rising plate meter. The 5th National Conference on Grazing Lands. December 9-12, 2012, Orlando, FL.
- Rogers, J.K., N.R. Walker, J. Mosali, and C. Young. 2012. Response of summer-dormant and summer-active type tall fescue with and without fungal endophyte infection to plant parasitic nematode exposure. American Society of Agronomy. October, 2012, Cincinnati, OH.
- Moffet, C.A., R. Reuter, and J.K. Rogers. 2012. Predicting forage mass for cereal forages with a rising plate meter. Proceeding 66th Southern Pastures and Forage Crop Improvement Conference. June 6-9, 2012, San Juan, Puerto Rico.
- Reuter, R., J.K. Rogers, and J. Biermacher. 2012. Feeding the pasture vs. feeding the steer: Interaction of fertilizer and supplement inputs to a wheat grazing system. Proceeding 66th Southern Pastures and Forage Crop Improvement Conference. June 6-9, 2012, San Juan, Puerto Rico.
- Rogers, J.K., N.R. Walker, J. Mosali, and C. Young. 2012. Response of summer-dormant and summer-active type tall fescue with and without fungal endophyte infection to plant parasitic nematode exposure. Proceeding 66th Southern Pastures and Forage Crop Improvement Conference. June 6-9, 2012, San Juan, Puerto Rico.
- Moffet, C., J. Rogers, R. Reuter. 2012. An electronic plate meter improves ability to accurately determine cool-season annual forage availability: I. calibration. Submitted to the National Animal Science Meeting, Phoenix, AZ. July 15-19.
- Reuter, R., J. Rogers, C. Moffet. 2012. An electronic plate meter improves ability to accurately determine cool-season annual forage availability: II. application. Submitted to the National Animal Science Meeting, Phoenix, AZ. July 15-19.
- Rogers, J.K. 2012. Growing forage – The fundamentals. Proceedings Grassfed Beef Conference, May 30-31, Texas A&M University, College Station, TX.
- Mosali, J., E. Funderburg, J. Biermacher, and J.K. Rogers. 2011. Yield response of nine introduced perennial summer grasses to nitrogen in Oklahoma. ASA, CSSA, and SSSA Annual Meetings. San Antonio, TX. Oct. 16-19, 2011.

- Nichols, B.M., C.A. Moffet, J.T. Biermacher, T.J. Butler, R.R. Reuter, J.K. Rogers, J.A. Guretzky and J.R. Blanton Jr. 2011. Bermudagrass-legume forage systems for summer stockers. *J. Anim. Sci.* 89 (Suppl. 1):172
- Biermacher, J.T., R. Reuter, T.J. Butler, M.K. Kering, J.D. Springer, J.K. Rogers, J.R. Blanton, Jr., and J.A. Guretzky. 2011. Economic Potential of Substituting Legumes for Nitrogen in Warm Season Pastures Used for Stocker Cattle Grazing. 18th International Farm Management Association's Congress, Christchurch, New Zealand, March 24, 2011.
- Rogers, J.K., J. Mosali, and S.L. Norton. 2011. Yield response of summer-dormant and – active tall fescue to stockpiling. ASA, CSSA, and SSSA Annual Meetings. San Antonio, TX. Oct. 16-19, 2011.
- Rogers, J.K., J. Mosali and B.E. Morton. 2011. Plant and endophyte effect on fiber, N, and P concentrations in tall fescue. ASA, CSSA, and SSSA Annual Meetings. San Antonio, TX. Oct. 16-19, 2011.
- Rogers, J.K., J. Mosali, and S.L. Norton. 2011. Yield response of summer-dormant and – active tall fescue to stockpiling. Proceedings paper. American Forage and Grassland Council Annual Meeting. June 12-15. French Lick, IN.
- Rogers, J.K., J. Mosali and F.J. Motal. 2011. Yield, yield distribution and forage quality of warm-season perennial grasses grown for pasture or biofuel in south central Oklahoma. ASA, CSSA, and SSSA Annual Meetings. San Antonio, TX. Oct. 16-19, 2011.
- Rogers, J.K., C. Young, J. Mosali, and S. Norton. 2011. Yield response of summer-dormant and –active tall fescue to stockpiling. Abstracts, Society for Range Management Annual Meeting, Billings, MT.
- Reuter, R. R., J. K. Rogers, J. D. Springer, B. C. Flatt, and J. T. Biermacher. 2011. An intensive production system using lightweight stocker cattle as an alternative to traditional systems. *J. Anim. Sci.* (Abstr).
- Mosali, J., J.K. Rogers, R. Huhnke, D. Bellmer and B.J. Cook. 2010. Effect of Nitrogen Fertilization Timing on Juice and Bagasse Quality of Sweet Sorghum for Biofuel Production. Proceedings of the 19th World Congress of Soil Science, Brisbane, Australia.
- Mosali, J, J. Rogers, F. Motal, C. Glidewell, T. Rice, B. Crawford and J. Pitman. Stocker Cattle Grazing Preference of Warm Season Perennial Grasses. Selected Paper for Presentation at the ASA-CSSA-SSSA International Annual Meetings, Long Beach, CA, October 31 – November 3, 2010.

- Mosali, J., J.K. Rogers, R. Huhnke, D. Bellmer and B.J. Cook. 2010. Effect of Nitrogen Fertilization Timing on Juice and Bagasse Quality of Sweet Sorghum for Biofuel Production. Selected paper for presentation at the 19th World Congress of Soil Science, Brisbane, Australia, August 1-6, 2010.
- Reuter, R. R., J. T. Biermacher, J. K. Rogers, T. J. Butler, M. K. Kering, J. R. Blanton, and J. A. Guretzky. 2010. Potential of legumes as substitutes for nitrogen fertilizer in summer stocker grazing systems. Abstract presented at the 4th Grazing Livestock Nutrition Conference, Estes Park, CO, July 9-10.
- Kering, M.K., J.T. Biermacher, R. Reuter, T.J. Butler, J.D. Springer, J.K. Rogers, J. Blanton, Jr., J.H. Bouton, and J.A. Guretzky. "Economic Potential for Substituting Synthetic Nitrogen in Warm Season Grasses Used for Stocker Cattle Grazing." *Journal of Agricultural and Applied Economics* 42-3(2010): 582.
- Springer, J.D., R. Reuter, J.K. Rogers, and J.T. Biermacher. 2010. What is the Potential for an Intensively Managed, Year-Round Lightweight Stocker Cattle System in the Southern Plains. Poster prepared for presentation at the American Agricultural Economics Association's annual meeting, Denver, CO, July 25-28, 2010.
- Biermacher, J.T., R. Reuter, J.D. Springer, J.K. Rogers, J. Blanton, Jr., T.J. Butler, and J.A. Guretzky. 2010. Economic potential of substituting legumes for nitrogen in summer stocker grazing systems. Selected paper for presentation at the Southern Agricultural Economics Association's Annual Meeting, Orlando, FL, February 6-11, 2010.
- Rogers, J.K., C. Young, J. Mosali, and S. Norton. 2010. Yield response of summer-dormant and – active tall fescue to stockpiling. Abstracts, American Forage and Grassland Council Annual Meeting. Springfield, Mo. June, 2010.
- Rogers, J.K., J. Mosali, J. Pitman, B. Crawford, and T. Rice. 2010. Yield stability and grazing preference of warm season perennial grasses. Abstracts, Society for Range Management and Weed Science Society of America Annual Meeting, Denver, CO.
- Rogers, J., A.A. Hopkins, C. Young. 2009. Response of summer active and dormant cool season perennial grasses to stockpile. Proceedings, SERA-IEG 8 Tall Fescue Toxicosis/Endophyte Workshop, Cadiz, Kentucky.
- Rogers, J., 2009. Legumes for pecan orchards. Proceedings, Oklahoma Pecan Growers Association. Vol. 79, Oklahoma City, OK.
- Guretzky, J., R. Reuter, J. Biermacher, J. Springer, T. Butler, H. Aljoe, J. Rogers, and B. Cook. 2009. Economic potential of stocker cattle grazing legume-interseeded bermudagrass. Abstracts, ADSA-CSAC-ASAS meeting, Montreal, Canada

- Rogers, J., J. Pitman, F. Motal, and C. Glidewell. 2008. Yield stability and grazing preference of warm season perennial grasses with biofuel potential. Abstracts, Farming with Grass Conference, Oklahoma City, OK.
- Rogers, J., J. Pitman, F. Motal, and C. Glidewell. 2008. Evaluation of warm season perennial grasses for biomass, seasonal distribution and grazing preference. Proceedings, Joint Annual Meetings: American Forage and Grassland Council and Society for Range Management, Louisville, KY., January 26-31.
- Pitman, J.W., J.K. Rogers, F.J. Motal, and C. Glidewell. 2008. Grasses for wildlife and livestock in the Southern Great Plains. Abstracts, the Wildlife Society National Conference, Miami, Fl.
- Rogers, J., A. Hopkins, F. Motal. 2007. Response of summer active and dormant tall fescue cultivars to stockpiling. Proceedings, SERA-IEG 8 Tall Fescue Toxicosis/Endophyte Workshop, Wildersville, TN.
- Rogers, J., and A. Hopkins. 2006. Species and variety response of cool season perennial forages to stockpiling. Proceedings, 3rd National Conference on Grazing Lands, St. Louis, MO. December 10-13.
- Rogers, J., and F. Motal. 2006. Evaluation of warm season perennial grasses. Proceedings, 3rd National Conference on Grazing Lands, St. Louis, MO. December 10-13.
- Rogers, J. 2006. Forage establishment. Proceedings, Arkansas Forage and Grassland Council.
- Rogers, J. 2004. Evaluation of warm season perennial grasses common to southern Oklahoma. Noble Foundation 2004 Research and Demonstration Project Summaries.
- Rogers, J. 2003. Evaluation of warm season perennial grasses common to southern Oklahoma. Noble Foundation 2004 Research and Demonstration Project Summaries.
- Johnson, J., J. Ball, E. Funderburg, B. Flatt, W. Thomason, and J. Rogers. 2003. Long-term small grain nitrogen rate and date of application. Noble Foundation 2004 Research and Demonstration Project Summaries.
- Stewart, M., and J. Rogers. 2000. Evaluating the impact of management intensive grazing schools in Central Missouri. *J. Anim. Sci.* Vol. 78, Suppl. 1 *J. Dairy Sci.* Vol. 83 Suppl. 1/2000.
- Rogers, J., M.A. Stewart, M. Brees, and D.R. Day. 2000. Determining the impact of grazing schools in Central Missouri. Proceedings, National Association of County Agricultural Agents Annual Meeting, Jackson, MS.

Rogers, J., C. Thompson, R. Chrestman, S. Byrd, and W. Bridges. 1988. Progeny evaluation program for Simmental sires 1978-1986. Abstracts, American Society of Animal Science Southern Section.

CURRENT RESEARCH PROJECTS:

Impact of a grazed summer cover-crop on production of subsequent winter pasture.

This project will examine: 1) the impact that a summer cover crop has on winter pasture forage mass, 2) how a cover crop impacts soil moisture, 3) examine no-till and tillage effects, and 3) the economics of a summer cover crop/winter pasture system compared to a winter pasture summer fallow system.

Fall-winter forage systems for beef cows. This project will evaluate cow performance and cost of three forage systems: 1) bermudagrass to frost followed by bermudagrass hay and supplement (traditional), 2) stockpiled bermudagrass/ winter pasture interseeded into bermudagrass, and 3) stockpiled bermudagrass/winter pasture time grazed.

Conversion of established bermudagrass to a monoculture of switchgrass or mixed nativegrasses. Bermudagrass is difficult to suppress and control, this project will: 1) compare methods for the control and suppression of bermudagrass prior to establishment, 2) compare tillage and no-till methods of grass establishment, and 3) determine the benefit to the utilization of a cover crop during the establishment process.

- Data collection for this project has been completed and manuscript preparation is currently underway.

Utilization of switchgrass in a dual purpose stocker cattle and bioenergy system under continuous and rotational grazing. This project seeks to examine: 1) switchgrass persistence and dormant season biomass following a stocker cattle rotational grazing season, 2) the effect of a continuous and rotational switchgrass grazing system on stocker performance, and 3) the economics of retained ownership on switchgrass versus marketing stocker cattle to feed yards after winter pasture grazes out.

- Data collection has been completed, data analysis and manuscript preparation is currently underway.

OUTREACH, EXTENSION, and POPULAR PRESS PUBLICATIONS:

Biermacher, J., J. Bradley, and J. Rogers. 2016. Noble Foundation reports expected forage establishment costs. Ag. News and Views. Noble Foundation Press, Vol. 34, No. 8.

Rogers, J. 2016. Preparation promotes successful winter pasture season. Ag. News and Views. Noble Foundation Press, Vol. 34, No. 8.

Rogers, J.K. 2016. Introducing forages: To renovate pasture or not. Progressive Forage Grower. June 1. Issue 6. Pgs. 18-19.

- Biermacher, J., J.K. Rogers, and A. Biedenbach. 2016. Research shows economics of pasture conversion. *Ag. News and Views*. Noble Foundation Press, Vol. 34, No. 5.
- Rogers, J.K. 2016. Cow-calf research evaluates fall, winter forage systems. *Ag. News and Views*. Noble Foundation Press, Vol. 34, No. 4.
- Young, C. and J. Rogers. 2016. Alliance offers 1-day tall fescue renovation schools. *Ag. News and Views*. Noble Foundation Press, Vol. 34, No. 3.
- Mattupalli, C., C.A. Young, J.K. Rogers, and C. Moffet. 2016. Drones used to monitor alfalfa root rot disease. *Hay & Forage Grower*. February. p. 22.
- Rogers, J. 2015. Proper management promotes fall, winter grazing. *Ag. News and Views*. Noble Foundation Press, Vol. 33, No. 10.
- Rogers, J. 2015. Planning, management promotes year-round grazing. *Ag. News and Views*. Noble Foundation Press, Vol. 33, No. 5.
- Rogers, J. 2014. Alliance provides seed quality control. *Ag. News and Views*. Noble Foundation Press, Vol. 33, No. 12.
- Rogers, J. 2014. Bermudagrass stem maggot invades Southern states. *Ag. News and Views*. Noble Foundation Press, Vol. 32, No. 7.
- Young, C., J. Rogers, and T. Baughmann. 2014. Cotton root rot inhibits alfalfa stand longevity. *Ag. News and Views*. Noble Foundation Press, Vol. 32, No. 7.
- Rogers, J. 2014. First hollow stem in wheat triggers grazing decision. *Ag. News and Views*. Noble Foundation Press, Vol. 32, No. 2.
- Rogers, J. 2013. Common sense guides stockpiled forage management. *Ag. News and Views*. Noble Foundation Press, Vol. 31, No. 11.
- Rogers, J. 2013. Extending the grazing season: It's not too late. *Red Poll Journal*. Vol. 69, No. 2.
- Rogers, J. 2013. Studies examine nontraditional bermudagrass fertilizers. *Ag. News and Views*. Noble Foundation Press, Vol. 31, No. 6.
- Rogers, J. 2013. Careful management aids drought survival. *Ag. News and Views*. Noble Foundation Press, Vol. 31, No. 1.
- Kallenbach, R., and J.K. Rogers. 2013. Speed pasture recovery after drought. *Range and Pasture Steward*. Dow AgroSciences, Vol. 10, No.1.
- Biermacher, J.T., J.K. Rogers, and R. Reuter. 2013. Do high nitrogen prices justify feeding soybean hulls? *Ag. News and Views*. Noble Foundation Press, Vol. 31, No. 1.

- Rogers, J. 2012. Forage drought recovery: looking back, planning ahead. *Ag. News and Views*. Noble Foundation Press, Vol. 30, No. 8.
- Moffet, C., R. Reuter, J. Rogers, and J. Blanton. 2012. Using a plate meter to measure forage productivity. *Ag news and Views*. Noble Foundation Press, Vol. 30, No. 6.
- Rogers, J. 2012. Stocking rate following drought. *Ag. News and Views*. Noble Foundation Press, Vol. 30, No. 4.
- Rogers, J. 2011. Fall and winter management of toxic tall fescue. *Ag. News and Views*. Noble Foundation Press, Vol. 29, No. 12.
- Rogers, J. 2011. Drought management. *The Cattleman Magazine*. Vol. XCVIII, No. 5. Page. 8.
- Rogers, J. 2011. Clearing up some tall fescue misconceptions. *Ag. News and Views*. Noble Foundation Press, Vol. 29, No. 1.
- Rogers, J. 2011. Extending the cattle grazing season: It's not too late. Online. Feb. 2, Drovers CattleNetwork. www.cattlenetwork.com/cattle-resources.
- Rogers, J. 2011. Springtime is pasture and range "Go Time". *Ag. News and Views*. Noble Foundation Press, Vol. 29, No. 3.
- Rogers, J. 2011. Use moisture management strategies to survive drought. *Ag. News and Views*. Noble Foundation Press, Vol. 29, No. 5.
- Rogers, J. 2010. Grazing preference of warm-season perennial grasses. *Ag. News and Views*. Noble Foundation Press, Vol. 28, No. 4.
- Rogers, J. 2010. Use these methods to reduce hay feeding costs. *The Cattleman Magazine*. Vol. XCVII No. 6. Pages 8-9.
- Rogers, J. 2010. Extending the grazing season: It's not too late. *Ag. News and Views*. Noble Foundation Press, Vol. 28, No. 9.
- Rogers, J. 2010. Little things mean a lot. Cattlenetwork.com. Vance Publishing.
- Rogers, J. 2010. Extending the grazing season: It's not too late. www.beefmagazine.com. September 16, 2010. *Beef Daily*.
- Rogers, J. 2010. Extending the cattle grazing season: It's not too late. Cattlenetwork.com. Vance Publishing.
- Rogers, J. 2010. Little things mean a lot. *Ag. News and Views*. Noble Foundation Press, Vol. 28, No. 10.

- Rogers, J. 2010. Grazing preference of warm-season perennial grasses. Cattlenetwork.com. Vance Publishing.
- Rogers, J., Butler, T.J., Hopkins, A.A., Locke, J.M., 2009. Seeding techniques for fescue pastures. Drovers.com. Vance Publishing. (contributor)
- Rogers, J. 2009. Take care of your hay; it has value. Native Warm-Season Grass Newsletter. Vol. 27 No. 1.
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GRANT-IN-KIND:

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GRANTS SUBMITTED (PRE-PROPOSALS APPROVED, NOT-FUNDED):

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Crop yield response to tillage system, phosphorus rate and placement on blackland soils." Earthtec Solutions. James Rogers, Jagadeesh Mosali, Russell Sutton, and Curtis Jones. The Noble Foundation and Texas A&M University. Submitted to Earthtec Solutions. 2010. \$225,000.

SCIENTIFIC PRESENTATIONS, PROGRAMS, AND OUTREACH:

What we are learning by introducing cover crops into a winter pasture system. Presented at the 2016 North Mississippi Beef Expo/MCA Cattlemen's College. Batesville Civic Center. Batesville, MS. October 28, 2016.

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What we are learning by introducing cover crops into a winter pasture system. Presented at the 2016 Association of Farm and Rural Appraisers Annual Meeting. Quartz Mountain State Park. Lone Wolf, OK. October 20, 2016.

Soil testing basics and results interpretation. Presented at the 2016 Association of Farm and Rural Appraisers Annual Meeting. Quartz Mountain State Park. Lone Wolf, OK. October 20, 2016.

The effect of cover crops on winter pasture production and extending the grazing season in cow-calf operations. Presentation and field tour prepared for Tim Jones and guest from the Japanese Dairy Industry. Ardmore, OK. October 14, 2016.

What we are learning by introducing cover crops into a winter pasture system. Presented at the Microbiome Workshop. The Noble Foundation. Ardmore, OK. October 7, 2016.

Introduced forage management. Presented to Working Effectively with Livestock Producers. The Noble Foundation. Ardmore, OK. September 21, 2016.

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Forage365 cow-calf forage systems research and cover crop grazing research. Presented At the Eisenhower Fellowship tour. The Noble Foundation. Ardmore, OK. April 19, 2016.

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Stockpiling bermudagrass pastures. Presented at the East Texas Forage Conference. Rains County Fairgrounds, Emory, TX. February 26, 2016.

Warm season pasture establishment perennials and annuals. Presented at the East Texas Forage Conference. Rains County Fairgrounds, Emory, TX. February 26, 2016.

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Opportunities in science, technology, engineering and math (SEM): perspectives from the Noble Foundation. Presented to the Pontotoc Biotechnology Class. Pontotoc Technology Center. Ada, OK. January 8, 2016.

Evaluation of twelve conversion systems for the conversion of bermudagrass to switchgrass or nativegrass mixture. Presented at the Sixth National Conference on Grazing Lands. Grapevine, TX. December 13-16, 2015.

Agronomics and grazing qualities of new Noble Foundation small grains variety releases. Presented at the Noble Foundation small grain plot tour. Apache, OK. December 3, 2015.

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Overview of the Noble Foundation Forage365 projects. Presented at the Fall Grazing Workshop. The Noble Foundation. Ardmore, OK. November 10, 2015.

Methods of estimating forage mass and reserve herd days. Presented at the Fall Grazing Workshop. The Noble Foundation. Ardmore, OK. November 10, 2015.

Conversion systems of bermudagrass to switchgrass or mixed nativegrass. Presented at the ASA, CSSA, and SSSA Annual Meeting. Minneapolis, MN. November 15-18, 2015.

Agriculture in the Southern Great Plains and how research on root biology can help solve local agriculture problems. Presented at the Planting the Roots for Year-round Grazing in the Southern Great Plains Conference. The Noble Foundation. Ardmore, OK. November 6, 2015.

Cover crop grazing, soil health, forage measurement technology. Presented to the German farmers group tour. Ardmore, OK. October 28, 2015.

Grazing systems, cover crops, tillage practices and soil erosion. Presented to the Society of Environmental Journalist. Ardmore, OK. October 8, 2015.

Introduced Forage Management. Presented at the Working Effectively with Livestock Producers Program. Natural Resource Conservation Service and The Noble Foundation. Ardmore, OK. September 21-25, 2015.

Monitoring summer forage for winter management. Presented at the Rebuilding the Beef Herd Program. Texas AgriLife. Bowie, TX. August 28, 2015.

Noble Foundation research update. Presented at the Noble Foundation Winter Pasture Seminar. Ardmore, OK. July 9, 2015.

Forage measurement technology. Presented to the Universidad Autonoma Chapingo tour group. Ardmore, OK. June 23, 2015.

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2015 Research incentive goals. Presented to the Noble Foundation Board of Trustees. Ardmore, OK. April 16, 2015.

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Bermudagrass establishment. Presented to the Texas Christian University Ranch Management Tour. Burneyville, TX. March 23, 2015.

Bermudagrass soil fertility. Presented at the Bermudagrass Production Program. Texas AgriLife, Comanche Community Center, Comanche, TX. February 27, 2015.

Bermudagrass physiology. Presented at the Bermudagrass Production Program. Texas AgriLife, Comanche Community Center, Comanche, TX. February 27, 2015.

Technology to assess forage mass. Presented to the Oklahoma Agriculture Leadership Class. Noble Foundation, Ardmore, OK., November 13, 2014.

Introduced forage management. Presented to the NRCS Workshop Working Effectively with Livestock Producers. Noble Foundation, Ardmore, OK., September 10, 2014.

Forage crop physiology. Presented to the Canadian Nuffield Scholar Tour. Noble Foundation, Ardmore, OK. March 6, 2014.

Warm season pasture management and improvement. Presented to the small land owner class. Texas AgriLife Extension, Denton, TX. March 4, 2014.

Methods of the conversion of bermudagrass to a monoculture of switchgrass or mixed nativegrasses. Presented at the Society for Range Management Annual Meeting. Orlando, Fl. February 8-16, 2014.

Interseeding chicory into bermudagrass results in poor chicory stands in south central Oklahoma. Presented at the ASA, CSSA, and SSSA Annual Meeting. Tampa, FL. November 3-6, 2013.

Conversion of bermudagrass to a switchgrass monoculture or mixed nativegrass. Presented at the ASA, CSSA, and SSSA Annual Meeting. Tampa, FL. November 3-6, 2013.

Utilization of switchgrass in a dual purpose stocker cattle and bioenergy system under continuous and rotational grazing. Presented at the ASA, CSSA, and SSSA Annual Meeting. Tampa, Fl. November 3-6, 2013.

Introduced forage management. Presented to the NRCS working effectively with livestock producers training workshop. Noble Foundation, Ardmore, OK. September 10, 2013.

Utilization of the rising plate meter for measuring forage mass. Presented to the NRCS working effectively with livestock producers training workshop. Noble Foundation, Ardmore, OK. September 10, 2013.

New forage mass measurement technologies. Presented to the Texas AgriLife County Agent Tour. Noble Foundation, Ardmore, OK. August 27, 2013.

Forage trials and forage mass measurement technology. Presented to the Southwest Missouri Cattlemen's Tour. Noble Foundation, Ardmore, OK. August 7, 2013.

Forage mass measurement technology. Presented to the Ecology of Grazing Land Class Tour. Noble Foundation, Ardmore, OK. August 2, 2013.

Managing drought and drought recovery on pasture. Presented at the Southwest Area Arkansas Association of Conservation Districts Annual Meeting. Horatio, AR. July 25, 2013.

Methods for the estimation of forage biomass. Presented at the United Kingdom Nuffield Scholar Tour. Noble Foundation, Ardmore, OK. June 27, 2013.

Tools and technology for forage management. Presented at the Lamar, Delta, and Red River Counties Cattleman's Tour. Noble Foundation, Ardmore, OK. May 6, 2013.

New technologies for estimating forage biomass. Presented at the Noble Foundation Grazing Workshop. Boswell, OK. April 23, 2013.

Conversion of bermudagrass to a monoculture of switchgrass or mixed native grasses. Presented at the Australian Nuffield Scholar Tour. Noble Foundation, Ardmore, OK. April 2, 2013.

Optimizing pasture utilization and interpreting forage analysis. Presented at the Bluebonnet Feeds winter sales training. March 26, 2013. Dallas, TX.

Native pasture establishment and management. Presented at the East Texas Forage Conference. March 1, 2013. Enlow, TX.

Physiology of bermudagrass. Presented at the Texas AgriLife Extension District 8 winter producer meeting. January 17, 2013. Stephenville, TX.

Small plot research. Presented to the Farm Journal Editorial Staff. December 13, 2012. Noble Foundation, Ardmore, OK.

The value of warm-season native perennial grasses grown for pasture or biofuel in the Southern Great Plains. Invited presentation at the 2013 International Grassland Congress. September 15-19, 2013. Sydney, Australia.

Non-destructive methods of estimating forage biomass. Presented to the Oklahoma Ag. Leadership tour group. The Noble Foundation, Ardmore, OK., November 8, 2012.

Which grass is best for me? Presented at the Comanche Cow Clinic. Comanche, TX., November 8, 2012.

Improving forage utilization in drought. Presented at the Fall Cattle Seminar. Noble Foundation, Ardmore, OK., September 6, 2012.

Drought survival. Presented at the Deer Creek Conservation District listening session. September 2, 2012, Weatherford, OK.

Extending the grazing season and adding nitrogen with legumes. Presented at the Cool Season Forages in August Workshop. Fannin County, Texas Soil and Water Conservation District and the USDA – Natural Resources Conservation Service, Bonham, TX. August, 24, 2012.

Forage and grazing research. Presented at the Australian Nuffield Scholar Tour. Noble Foundation, Ardmore, OK. August 14, 2012.

Growing forage – the fundamentals. Presented at the Grassfed Beef Conference. Texas A&M University, College Station, TX. June 30-31, 2012.

Switchgrass establishment, grazing, and biofuels. Presented at the Noble Foundation Grazing Workshop. Ardmore, OK. June 21, 2012.

Understanding forage quality. Presented at the Noble Foundation Grazing Workshop. Ardmore, OK. June 21, 2012.

Feeding the pasture vs. feeding the steer: Interaction of fertilizer and supplement inputs to a wheat grazing system. Presented at the 66th Southern Pasture and Forage Crop Improvement Conference. San Juan, Puerto Rico. June 6, 2012.

Predicting forage mass for cereal forages with a rising plate meter. Presented at the 66th Southern Pasture and Forage Crop Improvement Conference. San Juan, Puerto Rico. June 6, 2012.

Response of summer-dormant and summer-active tall fescue types with and without fungal endophyte infection to plant parasitic nematode exposure. Presented at the 66th Southern Pasture and Forage Crop Improvement Conference. San Juan, Puerto Rico. June 6, 2012.

Overcoming drought – Returning to productivity. Presented at the Texoma Cattlemen's Conference. Ardmore Convention Center, Ardmore, OK. April 14, 2012.

Long-term pasture and livestock sustainability. Presented to Hughes County livestock producers. Horn Town, OK. March 24, 2012.

Overcoming drought and returning to productivity. Presented at the Collin County, Pasture Day. McKinney, TX. March 22, 2012.

Overcoming drought and returning to productivity. Presented at the Young County, Texas Hay, Beef and Forage Day. Graham, TX. March 20, 2012.

Grazing systems for Northeast Texas. Presented at the Northeast Texas pesticide seminar and licensing school. Mount Pleasant, Texas. January 17, 2012.

Re-establishment of warm-season grasses. Presented at the Northeast Texas pesticide seminar and licensing school. Mount Pleasant, Texas. January 17, 2012.

Converting established bermudagrass to a monoculture of switchgrass or mixed native grass. Presented to the Noble Foundation Agriculture Division. Noble Foundation, Ardmore, OK. November 9, 2011.

Yield response of summer-dormant and –active tall fescue to stockpiling. Presented at the ASA, CSSA, SSSA annual meetings. San Antonio, TX. October 17, 2011.

Yield, yield distribution, and forage quality of warm-season perennial grasses grown for pasture or biofuel in south central Oklahoma. Presented at the ASA, CSSA, SSSA annual meetings. San Antonio, TX. October 17, 2011.

Plant and endophyte effect on fiber, N, and P concentrations in tall fescue. Presented at the ASA, CSSA, SSSA annual meetings. San Antonio, TX. October 17, 2011.

Regional grazing management practices. Presented to the North Carolina Cattle Producer's tour. The Noble Foundation, Ardmore, OK. September 21, 2011.

Converting established bermudagrass to a monoculture of switchgrass or mixed native grass. Invited presentation at the S319 Water Quality Session. Jay Community Center, Jay, OK. September 13, 2011.

Yield response of summer-dormant and –active tall fescue to stockpiling. Presented at the American Forage and Grassland Conference. French Lick, IN. June 13, 2011.

Small paddock grazing research. Presented to the Noble Foundation Agriculture Division Non-Resident Fellows. The Noble Foundation, Ardmore, OK. March 30, 2011.

Yield response of summer-dormant and –active tall fescue to stockpiling. Presented at the Society for Range Management annual meeting. Billings, MT. February 7, 2011.

Switchgrass biofuel research. Presented to the Aberystwyth University Ibers tour group. The Noble Foundation, Ardmore, OK. 2011.

Switchgrass biofuel potential. Presented to the North Central Texas College Biology Class tour. The Noble Foundation, Ardmore, OK. 2011.

Converting established bermudagrass to a monoculture of switchgrass or mixed native grass. Invited presentation to The Oklahoma Invasive Plant Council annual meeting. Oklahoma City, OK. 2011.

Persistence of new novel endophyte infected tall fescue in southern Oklahoma. Presented at the Pennington Seed Company and New Zealand Agriculture research tour. Boswell, OK. 2011.

Converting established bermudagrass to a monoculture of switchgrass or mixed nativegrass. Presented at the Texas A&M research tour. The Noble Foundation, Ardmore, OK. 2011.

Converting established bermudagrass to a monoculture of switchgrass or mixed nativegrass. Presented at the Texas A&M Overton Experiment Station research tour. The Noble Foundation, Ardmore, OK. 2011.

Grazing preferences of warm season perennial grasses. Presented at the Universidad Autonoma Chapingo tour. The Noble Foundation, Ardmore, OK. 2011.

Drought management. Presented at the Noble Foundation grazing workshop The Noble Foundation, Ardmore, OK. 2011.

Tall fescue research update. Presented at the retired veterinarians tour. The Noble Foundation, Ardmore, OK. 2011.

Bio-energy opportunities in switchgrass. Presented at the retired veterinarians tour. The Noble Foundation, Ardmore, OK. 2011.

Tall fescue research update. Presented at the Texoma Pasture Conference. Ardmore, OK. 2011.

Nativegrass establishment. Presented at the Pasture Management Conference. Texas Agri-Life Extension, Myers Park, McKinney, TX. 2011.

Bio-energy opportunities in switchgrass. Presented to Nebraska FFA Tour Group. The Noble Foundation, Ardmore, OK. 2011.

Grazing preferences of warm season perennial grasses. Presented at the Fannin County Forage Tour. November 5, 2010. Bonham, TX.

Tall fescue stockpile and pasture weed management. Presented at the Red River County Fall Producer Meeting. Clarksville, TX. 2010.

Tall fescue grazing research. Presented to the Redlands Community College Tour. The Noble Foundation, Ardmore, OK. 2010.

Legume grazing study, bermudagrass production. Presented to the Nuffield Scholar Tour. The Noble Foundation, Ardmore, OK. 2010.

Legume grazing study, cool season perennial stockpile, Dupy Farm. Presented to the Nuffield Scholars Tour. The Noble Foundation, Ardmore, OK. 2010.

Grazing preferences of warm season perennial grasses. Presented at Kansas State Professors and Extension Agents Tour. The Noble Foundation, Ardmore, OK. 2010.

Legume grazing study. Presented at Kansas State Professors and Extension Agents Tour. The Noble Foundation, Ardmore, OK. 2010.

Grazing preferences of warm season perennial grasses. Presented at Texas County Agents District 8 Tour. The Noble Foundation, Ardmore, OK. 2010.

Legume grazing study. Presented at Texas County Agents District 8 Tour. The Noble Foundation, Ardmore, OK. 2010.

Yield stability and grazing preference of warm season perennial grasses. Presented at Society for Range Management and Weed Science Society of America Annual Meeting. Denver, CO. 2010.

Response of summer active and dormant cool season perennial grasses to stockpile. Presented at SERA-IEG 8 Tall Fescue Toxicosis/Endophyte Workshop. Cadiz, Kentucky. 2009.

Drought, grazing management, tall fescue, bermudagrass and other topics of interest. Presented at Texas A&M AgriLife Extension Pesticide Applicator Training. Royse City, TX. 2009.

Pasture and range rejuvenation. Presented at Texas A&M AgriLife Extension Tri- County Farmer and Rancher Symposium. Gainesville, TX. 2009.

Bermudagrass nitrogen use efficiency and tall fescue potential. Presented at Texas A&M AgriLife Extension Fall CEU Program. Gainesville, TX. 2009.

Legumes for pecan orchards. Presented at Oklahoma Pecan Growers Association. Oklahoma City, OK. 2009.

Grazing preferences study. Presented at Garvin County Cattlemen's Tour. The Noble Foundation, Ardmore, OK. 2009.

Cool season perennial forages. Presented at Texas A&M AgriLife Extension Summer CEU Program. Sherman, TX. 2009.

Technology in the hay field. Presented at Texas A&M AgriLife Extension Summer CEU Program. Sherman, TX. 2009.

Grazing preferences. Presented at AgVenture. The Noble Foundation, Ardmore, OK. 2009.

What is the value of native rangeland? Presented at native Prairie Restoration Workshop. Clymer Meadow Preserve, Celeste, TX. 2009.

History and services of the Noble Foundation. Presented at Montague County Property Owners Association. Saint Jo, TX. 2009.

Cost effective range management. Presented at School for Successful Ranching. Texas and Southwestern Cattle Raisers Association, Fort Worth, TX. 2009.

Grazing preference of grasses. Presented at Franklin County Kentucky Producers Tour, The Noble Foundation, Ardmore, OK. 2009.

Forage allowance for stocker cattle on winter pasture. Presented at The Noble Foundation Brown Bag Luncheon, Noble Foundation, Ardmore, OK. 2009.

Warm season perennial preference studies. Presented at Dallas – Fort Worth Agricultural Club Tour. The Noble Foundation, Ardmore, OK. 2009.

Extending the grazing season. Presented at Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2009.

Drought management. Presented at Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2009.

PDF winter pasture and stockpile plots. Presented at Prairie View Cooperative Extension Tour. The Noble Foundation, Ardmore, OK. 2009.

Noble Foundation Agricultural Division – Impacts within the service area and nationwide. Presented at The Noble Foundation third quarter all-employee meeting. The Noble Foundation, Ardmore, OK. 2008.

Economics of hay production. Presented at the 2008 North Texas Cattleman's Conference. Myers Park and Event Center, McKinney, TX. 2008

Economics of hay production. Presented at Blackland Prairie Economics Conference. Fletcher-Warren Civic Center. Greenville, TX. 2008.

Grass variety plots. Presented at the District 3 Texas AgriLife Agents Tour. The Noble Foundation, Ardmore, OK. 2008.

Evaluation of warm season perennial grasses for biomass, seasonal distribution and grazing preference. Presented at Society for Range Management and American Forage and Grassland Council Annual Meeting. Louisville, KY. 2008

Developing a pasture program. Presented at the North Central Texas Basic Ag. Field Day. McKinney, TX. 2008.

Economics of hay production. Presented at the Denton County Hay Show/Clinic. Denton, TX. 2008.

More on Bio-fuel Crops. Presented at the 27th Annual Collin County Crops Field Day. Princeton, TX. 2008.

Managing grasses for wildlife habitat and grazing by cattle in the Southern Great Plains. Presented (co-author) at The Wildlife Society National Conference. Miami, FL. 2008.

Yield stability and grazing preference of warm season perennial grasses with biofuel potential. Presented at the Farming with Grass Conference. Oklahoma City, OK. 2008.

Pasture and soil fertility management. Presented at the Farm Credit Administration Tour. The Noble Foundation, Ardmore, OK. 2008.

What is forage? Basic production and use. Presented at the Fundamentals of Agriculture Production Seminar The Noble Foundation, Ardmore, OK. 2008.

Managing nativegrass pasture. Presented at the Suburban Agriculture MOB Meeting. Sanger, TX. 2008.

Tall fescue's qualities redeemed. Presented at the Forage Production Field Day. Enloe, TX. 2007.

Response of summer active and dormant tall fescue cultivars to stockpiling. Presented at the SERA-IEG 8 Tall Fescue Toxicosis/Endophyte Workshop. Wildersville, TN. 2007.

Prairie grasses vs. bermudagrass. Presented at the Delta County Forage Producers Program. Cooper, TX. 2007.

Developing a forage program. Presented at the Delta County Forage Producers Program. Cooper, TX. 2007.

Warm season perennial grasses production and preference. Presented at the Oklahoma Agricultural leadership Program Class XIII. The Noble Foundation, Ardmore, OK. 2007.

Evaluation of warm season perennial grasses. Presented at the Western Kentucky University Tour. The Noble Foundation, Ardmore, OK. 2007.

Evaluation of warm season perennial grasses. Presented at the Kentucky Cattlemen's Tour. The Noble Foundation, Ardmore, OK. 2007.

Evaluation of warm season perennial grasses. Presented at the Texas-Oklahoma American Society of Agronomy Tour. The Noble Foundation, Ardmore, OK. 2007.

Evaluation of warm season perennial grasses. Presented at the Cleveland County Cattlemen's Association Tour. The Noble Foundation, Ardmore, OK. 2007.

Evaluation of warm season perennial grasses. Presented at the Louisiana Cattlemen's Association Tour. The Noble Foundation, Ardmore, OK. 2007.

Performance of summer active and dormant tall fescue. Presented at Forage Management: Before, During, and After Drought. The Noble Foundation, Ardmore, OK.

Effect of drought on forage yields. Presented at the Oklahoma Agricultural Business Management Coordinators Meeting The Noble Foundation, Ardmore, OK. 2007.

Pasture Management. Presented at the Beef Production Systems Meeting. The Noble Foundation, Ardmore, OK. 2007.

Drought management. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2007.

Extending the grazing season. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2007.

Beef cattle forage production systems. Presented at the North Alabama Cattlemen's Tour. The Noble Foundation, Ardmore, OK. 2007.

Putting together a good forage system. Presented at the Barber County Cattlemen's Association Annual Meeting. Medicine Lodge, KS. 2007.

Forage production systems. Presented at South Central Kansas Agricultural Extension Agent Meeting. Pratt, KS. 2007.

Management of range during drought conditions. Presented at Grassroots for Clean Streams, Managing for Drought. Cheney Lake Watersheds, Inc., Pretty Prairie, KS. 2007.

Species and variety response of cool season perennial forages to stockpiling. Presented at the 3rd National Conference on Grazing Lands. St. Louis, MO. 2006.

Sericea lespedeza history and control. Presented at the NF cooperators meeting, Kiamichi Technology Center. Durant, OK. April 20, 2006.

Drought management. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2006.

Extending the grazing season. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2006.

Forage production. Presented at the Alabama Farm Federation Tour. The Noble Foundation, Ardmore, OK. 2006.

Grazing systems. Presented at the Fannin County Texas NRCS Tour. The Noble Foundation, Ardmore, OK. June 8, 2006.

Sprayer calibration. Presented at the Fannin County Texas NRCS Tour. The Noble Foundation, Ardmore, OK. June 8, 2006.

Evaluation of warm season perennial grasses. Presented at the 3rd National Conference on Grazing Lands. St. Louis, MO. 2006.

Drought management. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2005.

Extending the grazing season. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2005.

Bermudagrass – Tall Fescue mixtures and management. Presented at the Bryan County, OK Cattlemen’s Tour. The Noble Foundation, Ardmore, OK. 2005.

Fall calving cow management. Presented at the Bryan County, OK Cattlemen’s Tour. The Noble Foundation, Ardmore, OK. 2005.

Basic forage production. Presented at the Basic Agricultural Seminar. The Noble Foundation, Ardmore, OK. 2005.

Reducing hay waste. Presented at the NF-4 Cooperator Meeting. Paris, TX. 2005.

Reducing hay waste. Presented at the NF-4 Cooperator Meeting. McAlester, OK. 2005.

Forage production and management. Presented at the Hughes County Cattlemen’s Tour. The Noble Foundation, Ardmore, OK. 2005.

Summer forage production. Presented at the University of Missouri Agricultural Specialist Tour. The Noble Foundation, Ardmore, OK. 2005.

Fall calving cows production and forage management. Presented at the Noble Foundation Mini-Grazing School. The Noble Foundation, Ardmore, OK. 2005.

Extending the grazing season. Presented at the Noble Foundation Mini-Grazing School. The Noble Foundation, Ardmore, OK. 2004.

Beef cattle forage production and management. Presented at the TCU Ranch Management School Tour. The Noble Foundation, Ardmore, OK. 2004.

Forage production and grazing management. Presented at the Fannin County Texas Livestock Producers Tour. The Noble Foundation, Ardmore, OK. 2004.

Grass management considerations for beef cattle production. Presented at the International Brangus Association Tour. The Noble Foundation, Ardmore, OK. 2004.

Beef cattle forage production systems. Presented at the South Texas A&M Extension Agent Tour. The Noble Foundation, Ardmore, OK. 2004.

Grazing management considerations. Presented at the Grazinglands Center of Excellence Tour. The Noble Foundation, Ardmore, OK. 2004.

Haying management. Presented at the Summer Grass Seminar. The Noble Foundation, Ardmore, OK. 2004.

Drought management. Presented at the Noble Foundation Grazing School. The Noble Foundation Ardmore, OK. 2004.

Extending the grazing season. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2004.

Reducing hay waste. Presented at the Noble Foundation NF-4 Cooperator Meeting. Atoka Kiamichi Technology Center, Atoka, OK. 2004.

Why cool season perennials? Presented at the Cool Season Perennial Seminar. The Noble Foundation, Ardmore, OK. 2003.

Drought management. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2003.

Grazing School Summary. Presented at the Noble Foundation Grazing School. The Noble Foundation, Ardmore, OK. 2003.

Grazing and pasture management. Presented at the TCU Ranch Management Class. The Noble Foundation, Ardmore, OK. 2003.

Tall fescue production and management. Presented at the Noble Foundation NF-4 Cooperator Tour. The Noble Foundation, Ardmore, OK. 2003.

Optimum production of ryegrass and bermudagrass. Presented at the Noble Foundation NF-4 Cooperator Tour. The Noble Foundation, Ardmore, OK. 2003.

Estimation of forage standing crop, stocking rate and grazing limitations. Presented at the Winter Annual Production Systems NF-4 Cooperator Tour. The Noble Foundation, Ardmore, OK. 2003.

Including bermudagrass in your forage base? Presented at the 2002 Forage Producers Meeting. Mendon, MO. 2002.

Stockpiling forages. Presented at the 2002 Forage Producers Meeting. Mendon, MO. 2002.

Beef Quality Assurance meeting. Lincoln, MO. 2002.

The Science of Expected Progeny Differences (EPD's). Presented at the 2002 Mid-MO Ag Expo. Sedalia, MO. 2002.

Beef cattle reproductive management. Presented at the Beef management Shortcourse, Versailles, MO. 2002.

Forage cram session. Presented to the Animal Science production class. Lincoln University, Jefferson City, MO. 2002.

Proper management – Enhances beef quality and product value. Presented at the Beef Quality Assurance Meeting. Osceola, MO. 2002.

Gardening Clinic – Master Gardener Plant Sale. Benton County, MO. 2002.

New forage options. Presented at the Howard County Town and Country Event. Fayette, MO. 2002.

Developing a forage system for sheep and goats. Presented at the State Lamb and Kid Management Shortcourse. Lincoln University, Jefferson City, MO. 2001.

Developing a good forage system. Presented at the Ag. Connection Farm Production and Management Conference. Lincoln, MO. 2001.

Developing a good forage system. Presented at the Ag. Connection Farm Production and Management Conference. Tipton, MO. 2001.

Developing a good forage system. Presented at the Ag. Connection Farm Production and Management Conference. Pilot Grove, MO. 2001.

Ag. Connection Farm Production and Management Conference. Lincoln, MO. 2001.

Cattlemen's Shortcourse: Economics and marketing, forages, beef nutrition, and water quality. Sedalia, MO. 2001.

Gardening Day and Master Gardener Plant Sale. Benton County, MO. 2001.

Gardening Day and Master Gardener Plant Sale. Benton County, MO. 2000.

Benton County Carcass Show Evaluation and Results. Presented to Benton County 4-H and FFA members. 2000.

Timely topics in beef nutrition. Presented at the Ag. Connection Agricultural Conference. Pilot Grove, MO. 2000.

Livestock feeding options. Presented at the Ag. Connection Drought Response Conference. Lincoln, MO. 1999.

Benton County Carcass Show Evaluation and Results. Presented to Benton County 4-H and FFA members. 1999.

E-I, E-I, Ouch. Presented at the Progressive Farmer Farm Safety Day. Marshall, MO. 1999.

What's new in beef cattle nutrition. Presented at the Moniteau County Hay Day. California, MO. 1999.

Feed to win. Presented to 4-H Beef Club members of Pettis County 4-H. Sedalia, MO. 1999.

Collect live animal data (height at withers and body length) for the National Corriedale Sheep Show and Sale. Sedalia, MO. 1998.

Benton County Carcass Show Evaluation and Results. Presented to Benton County 4-H and FFA members. 1998.

Benton County Carcass Show Evaluation and Results. Presented to Benton County 4-H and FFA members. 1997.

Livestock nutrition. Presented at the Regional Grazing School. Lincoln, MO. 1997.

Livestock nutrition. Presented at the Regional Grazing School. Sedalia, MO. 1997.

MU Cow Calf Records Program. Presented at the Mid-Missouri Agricultural Expo. Sedalia, MO. 1997.

Cattlemen's Shortcourse. Pilot Grove, MO. 1997.

Pork Producer's Educational Series. Versailles, MO. 1997.

Cattlemen's Mini-Shortcourse; Economics of Beef Production. Sedalia, MO. 1997.

Pettis County Carcass Show Evaluation and Results. Presented to Pettis County 4-H and FFA members. 1997.

Forage Options. Presented to Central Region Grazing Schools. Central Missouri Extension Region. 1997.

Environmental Quality Workshop. Cole Camp, MO. 1997.

Pettis County Carcass Show Evaluation and Results. Presented to Pettis County 4-H and FFA members. 1997.

Fiber and mineral content of fescue as influenced by plant genetics and endophyte infection. Presented at the 1996 Soils and Crops Conference. Versailles, MO. 1997.

Cooper County Swine Carcass Show Evaluation and Results. Presented to Cooper County 4-H and FFA members. 1996.

Swine nutrition seminar. Sedalia, MO. 1996.

Cattlemen's Shortcourse; Management strategies for you today – to aid your decision making tomorrow. Sedalia, MO. 1996.

Ration balancing, presented at the Cattlemen's Shortcourse. Sedalia, MO. 1996.

By-product feeds and feeding. Presented at the Mid-Missouri Agricultural Expo. Sedalia, MO. 1996.

Central Missouri Regional Livestock Judging Contest. Lincoln, MO. 1996.

Benton County Carcass Show Evaluation and Results. Presented to Benton County 4-H and FFA members. 1996.

Moniteau County Carcass Show Evaluation and Results. Presented to Moniteau County 4-H and FFA members. 1996.

Saline County Carcass Show Evaluation and Results. Presented to Saline County 4-H and FFA members. 1996.

Judged Missouri State Fair 4-H and FFA Carcass Show. Sedalia, MO. 1996.

Grazing nutrition. Presented to Central Region Grazing Schools. Central Missouri Extension Region. 1996.

Grazing management. Presented to Central Region Grazing Schools. Central Missouri Extension Region. 1996.

Beef cattle nutrition. Presented at the Grassland Workshop Course. Sedalia, MO. 1995.

Pettis County Carcass Show Evaluation and Results Presented to Pettis County 4-H and FFA members. 1995.

Central Region Beef Meeting – Strategies for surviving the low side of the cattle cycle. Sedalia, MO. 1995.

Cooper County Swine Carcass Show Evaluation and Results. Presented to Cooper County 4-H and FFA members. 1995.

Moniteau County Carcass Show Evaluation and Results. Presented to Moniteau County 4-H and FFA members. 1995.

Benton County Carcass Show Evaluation and Results. Presented to Benton County 4-H and FFA members. 1995.

Forage Field Day – Baling, baleage, and preventing storage loss. Cole Camp, MO. 1995.

Cattle herd health; what you should know, what you should do – Disease management, de-worming, beef quality assurance program. Warsaw, MO. 1995.

Beef cattle nutrition. Presented at the Grassland Workshop. Sedalia, MO. 1995.

Matching livestock needs with pasture resources. Presented at the Moniteau County Grazing School. California, MO. 1995.

Livestock nutrition. Presented at the Moniteau County Grazing School. California, MO. 1995.

Central Region Beef Meeting – Opportunities for retained ownership of Missouri calves. Boonville, MO. 1994.

Pettis County Carcass Show Evaluation and Results. Presented to Pettis County 4-H and FFA members. 1994.

Moniteau County Cattlemen’s organizational meeting. High Point, MO. 1994.

Sampling hay for analysis, interpreting analysis resulting and balancing beef rations. Presented at the Benton County Beef Expo. Warsaw, MO. 1994.

Benton-Pettis County Soybean Tour. Benton County and Pettis County, MO. 1994.

Benton County Jackpot Steer Show. Lincoln, MO. 1994.

Beef cattle body condition scoring. Presented at the Morgan County Beef Management Meeting and Mini-Trade Show. Versailles, MO. 1994.

Morgan County Beef Meeting and Mini Trade Show – The calving wreck of 1993, body condition scoring, feeding management of the cowherd. Versailles, MO. 1994.

Benton County Cattlemen’s Field Day and Youth Steer Sale. Benton County, MO. 1994.

What are by-product feeds and how do they fit. Presented at the Moniteau County Beef Seminar. Moniteau County, MO. 1994.

Balancing beef cattle rations using NIRS hay results. Presented at the Sedalia Area Chamber of Commerce Agricultural Exposition. Pettis County, MO. 1994.

Central Region Beef Meeting and Trade Show - Management for efficient reproduction in beef cattle. Warsaw, MO. 1993.

Practical application of Expected Progeny Differences. Presented at the Cattle and Crops 93’ program. Pettis County, MO. 1993.

Cattle and Crops 93’ – Ammoniating hay, electronic cattle identification, EPDs, adjustments and evaluation of no-till equipment and accessories, NIRS mobile forage van, no-till soybean tour, livestock handling. LaMonte, MO. 1993.

Benton County Cattlemen’s Tour. Benton County, MO. 1993.

Conservation tillage and equipment field day and soybean plot tour. Benton County and Pettis County, MO. 1993.

4-H beef cattle fitting clinic. Presented to Benton County 4-H club members, Warsaw, MO. 1992.

Soybean no-till Tour. Benton County, MO. 1992.

No-till Field Day. Benton County and Pettis County, MO. 1992.

Organizational meeting for the establishment of the Benton County Cattlemen's Association. Warsaw, MO. 1992.

MISCELLANEOUS EXTENSION PROGRAMS PRESENTED:

Using by-product feeds with ruminates

Grazing management for sheep

Genetic selection for sheep

Forage options

What is your hay test telling you?

Nutrient cycling

Feeding market beef

Feeding the show lamb

Beef production for profit

Grazing nutrition

Grazing management

Timely topics in beef nutrition (body condition scoring - practical importance and implications)

SALES MANAGEMENT:

Responsible for Show-Me-Select program activities in the region which included administration and enforcement of program guidelines, working with local steering committees, fundraising, sorting of cattle into sale lots, development of the sale catalog, and promotion.

2001– Show-Me-Select Heifer Sale. Sedalia, MO.

1999 – Show-Me-Select Heifer Sale. Sedalia, MO.

1998 – Show-Me-Select Heifer Sale. Sedalia, MO.

INTERN ADVISOR:

Gloria Desanker, Michigan State University – 2016

Nicole Farless, Oklahoma State University – 2012

Tyler Rice, Penn State University – 2009

Brice Crawford, University of Georgia – 2008

James Pitman, Louisiana Tech University – 2007

PROFESSIONAL REVIEW:

Crop & Pasture Science
Forage and Grazinglands
Crop, Forage, & Turfgrass Management
Agronomy Journal
Rangeland Ecology & Management

PROFESSIONAL MEMBERSHIPS & SERVICE:

American Forage and Grassland Council

- **Member of the Board of Directors**

American Society of Agronomy

Crop Science Society of America

- **C06 – Forage & Grazinglands 2017 Chair Elect**

Soil Science Society of America

Society for Range Management

- **2014 President Oklahoma Chapter**
- **2013 co-chairman of the Producer Activities Committee**
- Oklahoma Chapter of the Society for Range Management

Past Associate Editor for Forage and Grazinglands

Member of First Baptist Church of Ardmore, OK.

- Grade 2 Sunday School Teacher