*Dean A. Scarbrough*

*Abbreviated Curriculum Vitae*

Office Address: Home Address:

106 Jesse Dunn 327 High Street

Northwestern Oklahoma State University Alva, OK 73717

Alva, OK 73717 Ph: (580) 327-8072

Ph: (580) 327-8487

Email: dascarbrough@nwosu.edu

*Professional Experience*

Northwestern Okla. State Univ. Chair, Agriculture Department Aug. 2009 - Present

Northwestern Okla. State Univ. Professor of Agriculture Aug. 2012 - Present

Northwestern Okla. State Univ. Associate Professor of Agriculture Aug. 2007 - May 2009

Northwestern Okla. State Univ. Assistant Professor of Agriculture Aug. 2002 - May 2007

University of Arkansas Research Specialist I Jan. 2001 - Aug. 2002

University of Arkansas Graduate Research Assistant June 1998 - Dec. 2001

# *Education*

University of Arkansas PhD Animal Science, Ruminant Nutrition 2000-2002

 Major Professor – Dr. Wayne K. Coblentz

University of Arkansas MS Animal Science, Ruminant Nutrition 1998-2000

 Major Professor – Dr. Wayne K. Coblentz

Oklahoma State University BS Animal Science, Food Industry / Meats 1995-1998

 Academic Advisor – Dr. H. Glen Dolezal

Carl Albert State College General Education Requirements 1994-1995

# *Special Awards*

* John Barton Award for Distinguished Teaching and Service - 2021
* Oklahoma Honorary State FFA Degree - 2013
* NWOSU Bus. / E-Comm. / Agri. Department Outstanding Faculty Award - 2009

#### *Professional Organizations*

* American Registry of Professional Animal Scientists (ARPAS)
* American Quarter Horse Association (AQHA)
* Higher Education Alumni Council of Oklahoma (HEACO)

# *Teaching Experience*

Professor of Agriculture - Northwestern Oklahoma State University, Alva, OK

Developed course materials for 8 hours of lower-level, and 36 hours of upper-level Agriculture and Mechanized Agriculture courses that included:

* Fall
	+ UNIV 1011 Ranger Connection
	+ AGRI 1124 Introduction to Animal Science
	+ AGRI 3033 Forage Crops & Pastures
	+ AGRI 3413Animal Genetics
	+ AGRI 3800 Internship in Animal Science
	+ AGRI 4542 Sheep Science
	+ AGRI 4643 Swine Science
	+ AGRI 4623 Stocker & Feedlot Cattle Management
* Spring
	+ AGRI 2123 Livestock Feeding
	+ AGRI 3422 Horse Production
	+ AGRI 3443 Animal Reproduction
	+ AGRI 3543 Principles of Animal Nutrition
	+ AGRI 4613 Purebred & Cow-Calf Cattle Management
	+ AGRI 4480 Capstone to Agriculture
* Summer
	+ AGRI 4453 Natural Resource Conservation
	+ MCAG 3211 Engines & Power
	+ MCAG 4101 Agricultural Electrification

Teaching Assistant – University of Arkansas, Fayetteville, AR

Served as a teaching assistant in the following courses:

* ANSC 2143 Feeds and Feeding
* ANSC 4452 Milk Production
* AGRN 6253 Forage / Ruminant Relations
* ANSC 5103 Advanced Hay and Silage Production
* ANSC 3143 Animal Nutrition

Doctoral Dissertation Title

Using Simulated Rainfall Techniques to Predict Losses of Forage Dry Matter Using Fiber Constituents as Internal Markers, and to Evaluate Changes in Nutritive Value and Ruminal DM Degradability in Wilting Orchardgrass and Bermudagrass Forages.

# *Master’s Thesis Title*

Effects of Calendar Date and Summer Management on In Situ Dry Matter, Nitrogen, and Fiber Degradation of Stockpiled Bermudagrass. Activities included: (i) investigating the relationships of summer harvest management scheme (hay vs. grazing), and stockpiling of bermudagrass on winter season quality characteristics and (ii) evaluating the effects of quality changes in stockpiled bermudagrass on ruminal degradation kinetics using the *in situ* procedure.

# *Publications*

###### Refereed Journal Publications

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, D. S. Hubbell, III, T. F. Smith, J. B. Humphry, J. A. Jennings, R. K. Ogden, and J. E. Turner. 2006. Effects of forage management on the nutritive value of stockpiled bermudagrass. Agron. J. 98:1280-1289.

**Scarbrough, D. A.**, W. K. Coblentz, R. K. Ogden, J. E. Turner, J. B. Humphry, K. P. Coffey, T. C. Daniel, T. J. Sauer, J. A. Jennings, and D. W. Kellogg. 2006. Nitrogen partitioning and estimates of degradable intake protein in wilting orchardgrass and bermudagrass hays damaged by simulated rainfall. Agron. J. 98:85-93.

**Scarbrough, D. A.**, W. K. Coblentz, J. B. Humphry, K. P. Coffey, T. C. Daniel, T. J. Sauer, J. A. Jennings, J. E. Turner, and D. W. Kellogg. 2005. Evaluation of dry matter loss, nutritive value, and in situ dry matter disappearance for wilting orchardgrass and bermudagrass forages damaged by simulated rainfall. Agron. J. 97:604-614.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, K. F. Harrison, T. F. Smith, D. S. Hubbell, III, J. B. Humphry, Z. B. Johnson, and J. E. Turner. 2004. Effects of nitrogen fertilization rate, stockpiling initiation date, and harvest date on canopy height and dry matter yield of fall stockpiled bermudagrass. Agron. J. 96:538-546.

**Scarbrough, D. A.**, W. K. Coblentz, J. B. Humphry, K. P. Coffey, T. J. Sauer, J. A. Jennings, T. C. Daniel, J. E. Turner, and D. W. Kellogg. 2004. Estimating losses of dry matter from simulated rainfall on bermudagrass and orchardgrass forages using cell wall components as markers. Agron. J. 96:1680-1687.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, J. E. Turner, G. V. Davis, D. W. Kellogg, and D. H. Hellwig. 2001. Effects of calendar date and summer management on the in situ dry matter and fiber degradation of stockpiled bermudagrass. J. Anim. Sci. **79:3158-3169**.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, J. E. Turner, G. V. Davis, D. W. Kellogg, and D. H. Hellwig. 2002. Effects of summer management and fall harvest date on the ruminal in situ disappearance of nitrogen in stockpiled bermudagrass. Anim. Feed Sci. Technol. 96:119-133.

*Arkansas Animal Science*

**Scarbrough, D. A.**, W. K. Coblentz, J. B. Humphry, K. P. Coffey, T. C. Daniel, T. J. Sauer, J. A. Jennings, J. E. Turner, and D. W. Kellogg. 2005. Evaluation of dry matter loss, nutritive value, and in situ dry matter disappearance for wilting bermudagrass forages damaged by rainfall. Research Series 535. Ark. Anim. Sci. 8:92-95.

**Scarbrough, D. A.**, W. K. Coblentz, J. B. Humphry, K. P. Coffey, T. C. Daniel, T. J. Sauer, J. A. Jennings, J. E. Turner, and D. W. Kellogg. 2004. Evaluation of dry matter loss, nutritive value, and in situ dry matter disappearance for wilting orchardgrass forages damaged by simulated rainfall. Research Series 522. Ark. Anim. Sci. 7:35-38.

**Scarbrough, D. A.**, W. K. Coblentz, J. B. Humphry, K. P. Coffey, T. J. Sauer, J. A. Jennings, T. C. Daniel, J. E. Turner, and D. W. Kellogg. 2004. Estimating losses of dry matter in response to simulated rainfall for bermudagrass and orchardgrass forages using plant cell wall components as internal markers. Research Series 522. Ark. Anim. Sci. 7:39-44.

**Scarbrough, D. A**., W. K. Coblentz, K. P. Coffey, K. F. Harrison, J. B. Humphry, Z. B. Johnson, and J. E. Turner. 2002. Effects of nitrogen fertilization rate, stockpiling initiation date, and harvest date on the dry matter yield of fall stockpiled bermudagrass. Research Series 499. Ark. Anim. Sci. 5:38-40.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, J. E. Turner, J. B. Humphry, and K. F. Harrison. 2001. Effects of stockpiling initiation date and nitrogen fertilization rate on the yield of stockpiled bermudagrass harvested throughout the fall and winter. Research Series 488. Ark. Anim. Sci. 4:103-106.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, J. E. Turner, G. V. Davis, D. W. Kellogg, and D. H. Hellwig. 2000. Effects of calendar date and summer management on in situ crude protein degradation of stockpiled bermudagrass. Research Series 478. Ark. Anim. Sci. 3:95-99.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, J. E. Turner, G. V. Davis, D. W. Kellogg, and D. H. Hellwig. 2000. Effects of calendar date and summer management on in situ dry matter and fiber degradation of stockpiled bermudagrass. Research Series 478. Ark. Anim. Sci. 3:88-94.

*Bulletins and Reports*

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, T. F. Smith, K. F. Harrison, D. S. Hubbell, III, J. B. Humphry, Z. B. Johnson, and J. E. Turner. 2004. Effects of nitrogen fertilization rate, stockpiling initiation date, and harvest date on dry matter yield of fall-stockpiled bermudagrass. Proceedings of Batesville Livestock and Forestry Branch Station Field Day. April 20, 2004. Batesville, AR.

**Scarbrough, D. A.**, W. K. Coblentz, J. B. Humphry, T. C. Daniel, T. J. Sauer, K. P. Coffey, D. W. Kellogg, and J. E. Turner. 2002. Using simulated rainfall techniques to evaluate losses of dry matter and changes of quality in rain-damaged hay crops. Proceedings of the University of Arkansas Animal Science Livestock and Forage Field Day. June 4, 2002. Fayetteville, AR.

Scarbrough, D. A. 2000. Stockpiled bermudagrass quality and ruminal digestibility. Proceedings of the Batesville Livestock and Forestry Branch Station Field Day. Oct. 26, 2000. Batesville, AR.

##### Papers Presented at Scientific Meetings

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, R. K. Ogden, K. F. Harrison, T. F. Smith, D. S. Hubbell, III, J. B. Humphry, and J. E. Turner. 2004. Effects of nitrogen fertilization rate, stockpiling initiation date, and harvest date on the nutritive value of fall-stockpiled bermudagrass. Agron Abstr. C03-scarbrough3267-poster.

**Scarbrough, D. A.**, W. K. Coblentz, J. B. Humphry, J. E. Turner, T. C. Daniel, T. J. Sauer, K. P. Coffey, J. A. Jennings, and J. V. Skinner. 2003. Using simulated rainfall techniques to estimate dry matter losses and changes in nutritive value for wilting bermudagrass hay. Agron. Abstr. C06-coblentz840527-poster.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, T. F. Smith, J. B. Humphry, D. S. Hubbell, III, J. K. Martin, J. E. Turner, K. F. Harrison, and D. H. Hellwig. 2002. Using orchardgrass and endophyte-free fescue overseeded on bermudagrass for cow herds: year 2. J. Anim. Sci. (suppl. 2) 80:92.

**Scarbrough, D. A.**, K. P. Coffey, W. K. Coblentz, J. K. Martin, J. B. Humphry, and D. H. Hellwig. 2002. Pasture and weaning management systems to reduce the incidence of tall fescue toxicosis in cow-calf pairs. J. Anim. Sci. (suppl. 2) 80:92.

**Scarbrough, D. A.**, W. K. Coblentz, J. E. Turner, T. C. Daniel, T. J. Sauer, J. V. Skinner, Jr., K. P. Coffey and D. W. Kellogg. 2002. Estimating dry matter losses in rain-damaged orchardgrass and bermudagrass hays using simulated rainfall and internal markers. Agron Abstr. (#C06-Coblentz105050-Poster).

**Scarbrough, D. A.**, W. K. Coblentz, J. E. Turner, T. C. Daniel, T. J. Sauer, J. V. Skinner, K. P. Coffey, and D. W. Kellogg. 2002. Using simulated rainfall techniques to evaluate changes in DM loss, nutritive value, and ruminal DM degradability for wilting orchardgrass forages. University of Central Oklahoma Research Day. October 11, 2002, Edmond, OK.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, J. E. Turner, J. B. Humphry, and K. F. Harrison. 2001. Effects of nitrogen fertilization rate and stockpiling initiation date on the yield of stockpiled bermudagrass harvested throughout the late fall and early winter. Proceedings of American Forage and Grassland Council. 10:310-314. April 22-24, 2001. Springdale, AR.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, J. E. Turner, G. V. Davis, and D. W. Kellogg. 2000. Effects of calendar date and summer management on in situ nitrogen degradation of stockpiled bermuda. J. Anim. Sci. 78 (suppl. 1):116.

**Scarbrough, D. A.**, W. K. Coblentz, K. P. Coffey, J. E. Turner, G. V. Davis, and D. W. Kellogg. 1999. Effects of calendar date and summer management on in situ dry matter digestibility of stockpiled bermuda. J. Anim. Sci. 77 (suppl. 1):209.

*Castle Chronicle Publication*

**Scarbrough, D**. 2003. Fisher’s subcommittee reviews fundamental requirements for accreditation. Castle Chronicle. Volume. 2. Issue 1. February 3, 2003.

*Review / Editing Manuscripts Considered for Publication in Referred Publications*

* Effects of weaning management strategies on performance and health of calves. For publication in the Professional Animal Scientist. Boyles, S. L., Loerch S. C., and Lowe, G.
	+ Associate Editor = Dr. Wayne Kellogg, Department of Animal Science, University of Arkansas, Fayetteville.
	+ Reviewed June 2007
* Impact of rotation frequency and weaning date on forage availability and nutrient composition, species composition, and growth performance by cows and calves grazing endophyte-infected tall fescue pastures overseeded with crabgrass, lespedeza, and red and white clover. K. P. Coffey, W. K. Coblentz, D. S. Scarbrough, J. B. Humphry, B. C. McGinley, J. E. Turner, T. Smith, D. Hubbell, III, Z. B. Johnson, D. H. Hellwig, M. P. Popp, and C. F. Rosenkrans, Jr. For publication in the Journal of Animal Science.
* Reviewed Dec. 2004
* Differently Processed Barley Grain for Lactating Dairy Cows: A New Clarification to a Conventional Challenge. Nikkhah, A., H. Sadri, G. Ghorbani, and A. Nikkhah. For publication in the Journal of Dairy Science. Manuscript # JDS-04-0647.
* Reviewed Dec. 2004
* Associate Editor = Dr. Wayne Kellogg, Department of Animal Science, University of Arkansas, Fayetteville.

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