

Dean A. Scarbrough
Abbreviated Curriculum Vitae

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Professional Experience

- Aug. 2009 – Present Chair, Agriculture Department (Northwestern Okla. State Univ.)
- Aug. 2012 – Present Professor of Agriculture (Northwestern Okla. State Univ.)
- Aug. 2007 – May 2009 Associate Professor of Agriculture (Northwestern Okla. State Univ.)
- Aug. 2002 – May 2007 Assistant Professor of Agriculture (Northwestern Oklahoma State University, Alva, OK)
- Jan. 2001 - Aug. 2002 Research Specialist I (Drs. Wayne K. Coblenz and Ken P. Coffey, Dept. of Animal Science; University of Arkansas, Fayetteville, AR)

Education

- University of Arkansas (PhD 2002; Animal Science, Ruminant Nutrition)
Major Professor – Dr. Wayne K. Coblenz
- University of Arkansas (MS 2000; Animal Science, Ruminant Nutrition)
Major Professor – Dr. Wayne K. Coblenz
- Oklahoma State University (BS 1998; Animal Science)
Option – Food Industry (Meat Science)
Academic Advisor – Dr. H. Glen Dolezal
- Carl Albert State College (1994-95)
General Education Requirements

Special Awards

- Recipient of the Oklahoma Honorary State FFA Degree - 2013
NWOSU Bus. / E-Comm. / Agri. Department Outstanding Faculty Award - 2009

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 Ruminant DM Degradability in Wilting Orchardgrass and Bermudagrass Forages.

Masters 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.

Teaching Experience

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

Developed course materials for 8 hours of lower-level, and 31 hours of upper-level Agriculture courses that included:

- Fall
 - Ranger Connection 1011
 - Introduction to Animal Science 1124
 - Forage Crops & Pastures 3033
 - Animal Genetics 3413
 - Internship in Animal Science 3800
 - Sheep Science 4542
 - Swine Science 4643
 - Stocker & Feedlot Cattle Management 4623

- Spring
 - Livestock Feeding 2123
 - Horse Production 3422
 - Animal Reproduction 3443
 - Principles of Animal Nutrition 3543
 - Purebred & Cow-Calf Cattle Management 4613
 - Capstone to Agriculture 4480

- Summer
 - Natural Resource Conservation 4480

Teaching Assistant – University of Arkansas, Fayetteville, AR

Served as a teaching assistant in the following courses:

- Feeds and Feeding (ANSC 2143)
- Milk Production (ANSC 4452)
- Forage / Ruminant Relations (AGRN 6253)
- Advanced Hay and Silage Production (ANSC 5103-Special Problems)
- Animal Nutrition (ANSC 3143)

Publications

Refereed Journal Publications

Scarbrough, D. A., W. K. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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.

Scarborough, D. A., W. K. Coblenz, 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.

Scarborough, D. A., W. K. Coblenz, 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.

Scarborough, D. A., W. K. Coblenz, 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.

Scarborough, D. A., W. K. Coblenz, 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

Scarborough, D. A., W. K. Coblenz, 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.

Scarborough, D. A., W. K. Coblenz, 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.

Scarborough, 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

Scarborough, D. A., W. K. Coblenz, 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-scarborough3267-poster.

Scarborough, D. A., W. K. Coblenz, 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-coblenz840527-poster.

Scarbrough, D. A., W. K. Coblenz, 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. Coblenz, 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. Coblenz, 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-Coblenz105050-Poster).

Scarbrough, D. A., W. K. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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. Coblenz, 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 December 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 December 2004
 - Associate Editor = Dr. Wayne Kellogg, Department of Animal Science, University of Arkansas, Fayetteville.

Organizations

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

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