

Michael Shane Davis

1120 Montclair • Pueblo West, Colorado 81007
(719) 547 - 1103 • shane@beef4u.com

–Employment–

Consulting Nutritionist, Koers-Turgeon Consulting, December 2001 to present
Independent feedlot consulting firm with a client base of a one time capacity of 1,000,000 head
Provide nutritional and managerial consultation to feedlots and dairies
Manage contract research division of the company (Bos Technica Research Services)

Graduate Research Assistant, June 1999 to December 2001

University of Nebraska-Lincoln, Dr. Terry L. Mader, Ruminant Nutrition
Conducting research dealing with environmental stress in feedlot cattle and effective management strategies to mitigate adverse production responses

- Modeling body temperature responses to elevated ambient temperatures
- Implementing management systems to improve feedlot performance during heat stress

Graduate Assistant, August 1997 to May 1999

Texas A&M University, Dr. Gordon E. Carstens, Ruminant Nutrition

Research

- Prenatal and postweaning copper supplementation effects on performance and immunity in calves

Teaching

- Feeds and Feeding Laboratory, Dr. Gordon E. Carstens (5 Sections)
- Animal Nutrition, Dr. Darrel Knabe (1 Section)
- Introductory Animal Science Laboratory, Dr. Chris Skaggs (1 Section)

Laboratory Assistant, May 1997 to August 1997

Texas A&M University, Dr. Gordon E. Carstens, Ruminant Nutrition

- Assisted with research involving quantification of brown adipose tissue in *Bos taurus* and *Bos indicus* fetuses

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–Education–

Doctor of Philosophy, December 2001

University of Nebraska-Lincoln

Major: Animal Science, Ruminant Nutrition; Advisor: Dr. Terry L. Mader

Master of Science, August 1999

Texas A&M University

Major: Animal Science, Ruminant Nutrition; Advisor: Dr. Gordon E. Carstens

Bachelor of Science, May 1996

Baylor University – Waco, Texas

Major: Education

–Scholarships and Honors–

- Folsom Distinguished Doctoral Dissertation, April 2002
- Graduate Student Council Representative, August 1998 to May 1999
- Dan F. Jones Memorial Scholarship, April 1998
- Baylor Baseball Letterman, August 1992 to May 1996
- Fred “Red” Harris 110% Award, May 1995

–Memberships–

- American Registry of Professional Animal Scientists, 2000
- Texas A&M 12th Man Foundation, 1999
- American Dairy Science Association, 1999
- American Society of Animal Science, 1998
- Baylor Lettermen’s Association, 1996

–Publications–

Refereed Journal Articles

Mader, T.L., M. S. Davis and J. B. Gaughan. Effect of sprinkling on feedlot microclimate and cattle behavior. *Int. J. Biometeorol.* 51:541-551.

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–Publications –(continued)

Mader, T.L., M.S. Davis and T. Brown-Brandl. 2006. Environmental factors influencing heat stress in feedlot cattle. *J. Anim. Sci.* 84:712-719.

Mader, T.L., M.S. Davis and W.M. Kreikemeier. Case Study: Tympanic temperature and behavior associated with moving feedlot cattle. *Prof. Anim. Sci.* 21:339-344.

Mader, T.L. and M.S. Davis. 2004. Effect of management strategies on reducing heat stress of feedlot cattle: Feed and water intake. *J. Anim. Sci.* 82:3077-3087.

Davis, M. S., T. L. Mader, S. M. Holt, and A. M. Parkhurst. 2003. Strategies to reduce feedlot cattle heat stress: effects on tympanic temperature. *J. Anim. Sci.* 81:649-661.

Gaughan, J. B., M. S. Davis and T. L. Mader. Wetting and the physiological responses of grain fed cattle in a heated environment. *Aust. J. of Agric. Res.* (Accepted)

Mader, T. L., S. M. Holt, G. L. Hahn, M. S. Davis and D. E. Spiers. 2002. Feeding strategies for managing heat load in feedlot cattle. *J. Anim. Sci.* 80:2373-2382.

Mader, T. L., M. S. Davis, J. M. Dahlquist, A. M. Parkhurst. 2001. Switching feedlot diet roughage level for cattle fed in winter. *Prof. Anim. Sci.* 17:183-190.

Abstracts

Davis, M. S., and T. L. Mader. 2002. Accounting for wind speed and solar radiation in the temperature humidity index. *J. Anim. Sci.* 80 (Suppl. 2):38.

Davis, M.S., and T. L. Mader. 2002. Effect of feeding time and sprinkling on performance and body temperature of steers. *J. Anim. Sci.* 80 (Suppl. 2):98.

Kreikemeier, W. M., T. L. Mader, M. S. Davis and D. P. Colling. 2002. The effects of Tasco-14 supplementation on feedlot cattle. Plains Nutrition Council. Publ. no. AREC 02-20. Texas A & M Res. & Ext. Center, Amarillo, TX. p 129 (abstr.).

Mader, T. L., M. S. Davis, and W. M. Kreikemeier. 2003. Tympanic temperature and behavior associated with moving feedlot cattle. *J. Anim. Sci.* 81(Suppl. 1). Midwest Abstr.

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–Publications–(continued)

- Davis, M. S. and T. L. Mader. 2001. Effect of summer water application on mound microclimate, performance and body temperature of feedlot steers. ASAS National Meeting. Indianapolis, IN.
- Davis, M. S. and T. L. Mader. 2001. Impact of altered feeding time and sprinkling on body temperature and performance of steers finished in the summer. Plains Nutrition Council. San Antonio, TX.
- Davis, M. S., T. L. Mader, S. M. Holt, W. M. Cerconey. 2001. Effect of altered feeding regimen on performance and body temperature of steers finished in the summer. ASAS Midwest Meeting. Des Moines, IA.
- Mader, T. L., L. L. Hungerford, J. A. Nienaber, M. J. Buhman, M. S. Davis, G. L. Hahn, W. M. Cerconey, and S. M. Holt. 2001. Heat stress mortality in Midwest Feedlots. ASAS Midwest Meeting. Des Moines, IA.
- Frank, K. L., T. L. Mader, J. A. Harrington, Jr., G. L. Hahn, M. S. Davis. 2001. Climate change effects on warm-season production of livestock in the United States. ASAE Annual Inter. Meeting. Sacramento, CA.
- Davis, M. S., G. E. Carstens, J. C. Branum, R. E. Mock, A. B. Johnson. 1999. Impact of prenatal dietary copper level on cellular and humoral immunity of newly weaned calves. Plains Nutrition Council, San Antonio, TX.
- Davis, M. S., G. E. Carstens, J. C. Branum, R. E. Mock, A. B. Johnson. 1999. Effects of supplemental copper on cellular and humoral immune responses and performance in newly weaned calves. *J. Anim. Sci.* 77:86 (Suppl 1)
- Davis, M. S., G. E. Carstens, J. C. Branum, R. E. Mock, A. B. Johnson. 1998. Effects of dietary copper on cellular and humoral immunity and performance of growing calves. Plains Nutrition Council, San Antonio, TX.

Symposia Proceedings

- Mader, T. L., and M. S. Davis. 2002. Climatic effects on feedlot cattle and strategies to alleviate the effects. Plains Nutrition Council. Publ. no. AREC 02-20. Texas A & M Res. & Ext. Center, Amarillo, TX. p. 98-115.

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–Publications–(continued)

- Mader, T. and S. Davis. 2002. Wind speed and solar radiation corrections for the temperature-humidity index. 15th Conf. on Biomet. October 2002, Kansas City, MO, Amer. Meteor. Soc. p. 154.
- Frank, K. L., T. L. Mader, J. A. Harrington, G. L. Hahn, and M. S. Davis. 2001. Potential climate change effects on warm-season production of livestock in the United States. Proc. ASAE Ann. Intl. Meeting. (paper #01-3042), Amer. Soc. Agric. Eng., St. Joseph, MI.
- Davis, M. S. and T. L. Mader. 2001. Effects of water application to feedlot mounds during the summer. In: Sixth International Livestock Environment Symposium. Louisville, KY.
- Frank, T., T. L. Mader, J. Harrington, G. L. Hahn, and M. S. Davis. 2001. Climatic change effects on livestock production in the Great Plains. In: Sixth International Livestock Environment Symposium. Louisville, KY.
- J. B. Gaughan, T. L. Mader, S. M. Holt, T. Kunde, and M. S. Davis. 2001. Effects of a missed sprinkling cycle on feedlot cattle. In: Sixth International Livestock and Environment Symposium. Louisville, KY.

Popular Press

- Mader, T. L., M. S. Davis, and S. M. Holt. 2001. Managing cattle in summer heat. Lotfeeding, Australian Lot Feeders Association. Jan. p26.
- Mader, T. L., M. S. Davis, and S. M. Holt. 2000. Management of feedlot cattle exposed to heat is important. Feedstuffs. July 17. p11.

Extension Publications

- Kreikemeier, W., T. Mader, S. Davis, and D. Colling. 2003. Feeding kelp meal in feedlot diets. Nebraska Beef Report MP 80-A. Univ. of Nebraska-Lincoln, pp. 39-41.
- Davis, S., and T. Mader. 2003. Adjustments for wind speed and solar radiation to the temperature-humidity index. Nebraska Beef Report MP 80-A. Univ. of Nebraska-Lincoln, pp. 49-51.

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–Publications–(continued)

- Davis, M. and T. Mader. 2002. Effect of altered feeding and sprinkling on performance and body temperature of steers finished in the summer. Nebraska Beef Report MP 79-A. Univ. of Nebraska-Lincoln, p.61-65.
- Davis, M., T. Mader, and J. Gaughan. 2002. Effect of a double or missed sprinkling application on body temperature, pulse rate, and respiration rate of heat stressed heifers. Nebraska Beef Report MP 79-A. Univ. of Nebraska-Lincoln, p.57-61.
- Davis, M. S., T. L. Mader, S. M. Holt, and W. M. Cerkoney. 2001. Effects of feeding regimen on performance, behavior, and body temperature of feedlot steers. Nebr. Beef Cattle Rep. pp. 69 – 73.
- Mader, T. L., S. M. Holt, T. L. Scott, and M. S. Davis. 2001. Restricted feeding strategies for reducing heat load of yearling steers. Nebr. Beef Cattle Rep. pp 74 – 77.
- Davis, M. S., T. L. Mader, and W. M. Cerkoney. 2001. Managing heat stress in feedlot cattle using sprinklers. Nebr. Beef Cattle Rep. pp. 77 – 81.