

**Curriculum Vitae -  
William E. Pinchak**

**November 2009**

**Education:**

Ph.D., Range Management, Collateral Field: Animal Science and Statistics, University of Wyoming, 1983.

B.S., Biology, Minors: Chemistry and Agriculture, Angelo State University, 1978.

**Professional and Academic Experience:**

- 2007- Professor, Range Animal Nutritionist, TAES, Vernon  
1990-2006 Associate Professor, Range Animal Nutritionist, TAES-Vernon  
1984-1989 Assistant Professor, Range Animal Nutritionist, TAES-Vernon  
1983-1984 Assistant Professor, Range Science, Colorado State University  
Range Animal Ecologist.  
1979-1983 Graduate Research Assistant, Range Management and Animal Science  
Departments, University of Wyoming  
1976-1978 Undergraduate Assistant, Biology Department, Angelo State University

Dr. Pinchak is a nationally and internationally recognized authority in grazing cattle nutrition; dual-use wheat systems with particular emphasis on the wheat pasture frothy bloat complex in beef cattle, grazing management and beef cattle behavior. He has published 54 peer-reviewed journal articles, a book chapter, presented results of his research at over 150 regional, national and international meetings. Dr. Pinchak has managed over \$3.7 million dollars of research funding. Dr Pinchak is currently the President of the Texas Section of the Society for Range Management, past chair of the Southwest Wheat Research and Education Consortium, Texas Beef Workers, Texas Forage Workers and WERA-110. His current research emphasis on wheat pasture management and bloat mitigation has led to his Laboratory being recognized as leaders in the field.

**Awards:**

Outstanding Professor, Range Science Department, Colorado State University, 1984

Outstanding Achievement Award, Society for Range Management, 2003.

**Refereed Publications Since 2004 (26): Prior to 2004 (28)**

Pinchak, W. E., D. R. Tolleson, M McCloy, R. J. Gill, R. J. Ansley and S. J. Bevers. 2004. Morbidity impacts on production efficiency and profitability of stocker cattle in the Southern Plains. *J. Anim. Sci.* 82:2780-2789.

Ansley, R. J., W. E. Pinchak, W. R. Teague, B. A. Kramp and D. L. Jones. 2004. Longevity of mesquite herbicide treatments determined by herbaceous production responses. *J. Range Manage.* 57: 49-57.

Slosser, J. E., M. N. Parajulee, D. L. Hendrix, T. J. Henneberry and W. E. Pinchak. 2004. Cotton aphid (Homoptera: Aphididae) abundance in relation to cotton sugars. *Environmental Entomol.* 33(3):690-699.

- Min, B. R\*, W. E. Pinchak, J. D. Fulford and R. Puchalla. 2005. Wheat pasture bloat dynamics, in vitro ruminal gas production and potential bloat mitigation with condensed tannins. *J. Anim Sci.* 83:1322-1331.
- Malinowski, D. P., H. Zuo, B. A. Kramp, J. P. Muir and W. E. Pinchak. 2005. Obligatory summer-dormant cool-season perennial grasses for semiarid environments of the Southern Great Plains. *Agron. J.* 97:147-154.
- Min, B. R\*, W. E. Pinchak, J. D. Fulford and R. Puchalla. 2005. Effect of feed additives on rumen characteristics and frothy bloat dynamics in steers grazing wheat pasture. *Anim. Feed Sci. Tech.* 123-124:614-629.
- Ansley, R.J., M.J. Castellano and W.E. Pinchak. 2006. Sideoats grama growth responses to seasonal fires and clipping. *Rangeland Ecology and Management* 59:258-266.
- Min\*, B. R., W. E. Pinchak, R. C. Anderson, J. D. Fulford and R. Puchala. 2006. The effect of condensed tannins supplementation on in vitro ruminal bacteria growth, frothy bloat dynamics and average daily gain by steers grazing wheat forage. *J. Anim. Sci* 84:2546-2554.
- Min\*, B. R., W. E. Pinchak, R.C. Anderson and M. E. Hume. 2006. In vitro bacterial growth and in vivo rumen microbiota populations associated with potential bloat dynamics in steers grazing winter wheat forage. *J. Anim. Sci* 84: 2873-2882
- Amador, B. A., J. E. Slosser, G. B. Idol, M. N. Parajulee, W. E. Pinchak, R. J. Ansley and M. K. Owens. 2006. Population dynamics and response to mesquite pod supplementation of *Algarobius bottimeri* and *Mimosetes amicus*. *Southwest. Entomol.* 31:103-112.
- Min\*, B. R., W. E. Pinchak, D. M. Matthews and J. D. Fulford. 2007. In vitro fermentation and in vivo bloat dynamics of steers grazing winter wheat and supplemented with corn oil. *Anim. Feed Sci. Tech.* 133:192-205.
- Min\*, B. R., W. E. Pinchak, R. C. Anderson, and T. R. Callaway. 2007. Effect of tannins on the in vitro growth of *Escherichia coli* O157:H7 and in vivo growth of generic *Escherichia coli* excreted from steers. *J. Food Safety* 70:543-550.
- Malinowski, D. P., W. E. Pinchak, B. A. Kramp, H. Zuo and T. J. Butler. 2007. Supplemental irrigation and fall dormancy effects on alfalfa productivity in a semiarid, subtropical climate with a bimodal precipitation pattern. *Agron. J.* 99:621-629.
- Sij, J. W., W. E. Pinchak, D. P. Malinowski, D. L. Robinson, S. J. Bevers, T. A. Baughman and R. J. Gill. 2007. Yield and economic responses to phosphorus fertilizer placement in dual-use and grain-only wheat production systems. *Agron. J.* 99:773-778.
- Ansley, R. J., W. E. Pinchak and W. R. Teague. 2007. Mesquite cover responses in rotationalgrazing/prescribed fire management systems: Landscape assessment using aerial images. pp 73-78. In: Sosebee, R. E. D. B. Wester eds. *Proceedings: Shrubland dynamics-fire and water.* RMRS-P-47, USDA-Forest Service.
- Gutierrez-Bañuelos\*, Hector; Anderson, Robin; Carstens, Gordon; Tedsechi, Luis; Pinchak, William; Cabrera-Diaz, Elisa; Krueger, Nathan; Callaway, Todd; Nisbet, David. 2008. Effects of nitroethane and monensin on ruminal fluid fermentation characteristics and nitrocompound-metabolizing bacterial populations. *J. Agric. Food Chem.*
- Malinowski, D., D. P. Belesky, B. A. Kramp, J. Ruckle, J. Kigel, and W. E. Pinchak. 2008. A method to differentiate summer-dormant from summer-active cool-season grasses at germination state. *Aust. J. Agric. Res* 59:1-11.

- Min\*, B. R., Pinchak, W. E., Merkel, R., Walker, S., Tomita, G. and Anderson, R. C. 2008. Comparative antimicrobial activity of tannin extracts from perennial plants on mastitis pathogens. *Scientific Research and Essay*. 3:66-73.
- Teague, W. R., W.E. Grant, U.P. Kreuter, H. Diaz-Solis, S. Dube, M.M. Kothmann, W.E. Pinchak and R.J. Ansley. 2008. An ecological economic simulation model for assessing fire and grazing management effects on mesquite rangelands in Texas. *Ecological Economics* 64:611-624.
- Ansley, R. J., W. E. Pinchak and D. L. Jones. 2008. Mesquite, tobassagrass and common broomweed response to fire season and intensity. *Rangeland Ecology and Management*. 61 (In Press).
- Teague, W. R., R. J. Ansley, W. E. Pinchak, S. L. Dowhower, S. A. Gerrard and J. A. Waggoner. 2008. Interannual herbaceous biomass response to increasing levels of honey mesquite cover on two soils. *Rangeland Ecology and Management* 61:496-508.
- Malinowski, D.P., Kigel, J., and W.E. Pinchak. 2009. Water deficit, heat tolerance, and persistence of summer-dormant grasses in the U.S. Southern Plains. *Crop Science* 49 (6): 2363-2370.
- Pitta,\* D.W., W. E. Pinchak, S. E. Dowd, J. Osterstock, V. Gontcharova, E. Youn, K. Dorton, I. Yoon, B. R. Min, J. D. Fulford, T. A. Wickersham, and D. P. Malinowski. 2009. Rumen bacterial diversity dynamics associated with transitioning from bermudagrass hay to grazed winter wheat diets in cattle. *Microbial Ecology* (In Press).
- O. Bretschger, J.B. Osterstock, W.E. Pinchak, Shun'ichi Ishii, and K.E. Nelson. 2009. Microbial fuel cells and microbial ecology: applications in ruminant health and production research. *Microbial Ecology* (In Press).
- Wimberley Kay Krueger\*, Hector Gutierrez-Bañuelos, Gordon E. Carstens, William E Pinchak, B. R. Min, Robin C Anderson, Nathan A Krueger, T.D. A. Forbes, 2010. Effects of dietary tannin source on performance, feed efficiency, ruminal fermentation, and carcass and non-carcass traits in steers fed a high-grain. *Animal Feed Sci. Tech* (accepted)
- Ansley, R.J., W. E. Pinchak, W. R. Teague, B. A. Kramp, and K. Barnett. 2010. Rotational grazing and prescribed fire in mesquite savanna: mesquite landscape cover responses. *Rangeland Ecology and Management* (accepted).
- Pinchak, W. E. W. R. Teague, Ansley, R.J, J. A. Waggoner, and S. L. Dowhower. 2010. Rotational grazing and prescribed fire in mesquite savanna: ranch-scale cow-calf production responses. *Rangeland Ecology and Management* (accepted).

#### **Grants since 2004**

- Pinchak, W. E., M. K. Owens, C. Taylor and T.D.A. Forbes 2004. Role of livestock directed change in patch restoration strategies for degraded rangelands. USDA Joe Skeen Institute. Award: \$41,300. My Award: \$15,267.
- Sij, J., W. Pinchak, J. Ott and T. Baughman. 2004. Wheat response to fertilizer nitrogen in no-till and conventional-till dual-purpose wheat production systems. Texas Wheat Producers Board Award: \$12,800, My Award: \$2,000.

Pinchak, W. E., B. R. Min, D. P. Malinowski and J. Sij 2004. Grain yield and quality responses to grazing intensity and pull-off date in North Texas. Texas Wheat Producers Board Award: \$6,500, My Award: \$5,500.

Malinowski, D., J. Kigel and W. E. Pinchak. 2004. Role of Obligatory Summer Dormancy in Cool-Season Perennial Grasses for Improved Semiarid Grassland Ecosystems. BARD Texas-Israel Exchange Fund Award: \$300,000, My Award : \$50,000.

Pinchak, W. E, B. R. Min, R. C. Anderson and F. T. McCollum. 2006. Novel use of natural plant tannin sources to mitigate risk of Escherichia coli O157:H7 and other food pathogens through integrated pre- and post-harvest strategies. National Cattlemens Beef Association Competitive Grants Program Award: \$92,000, My Award: \$ 65,000.

Pinchak, W. E., M. K. Owens, C. Taylor and T.D.A. Forbes 2005. Role of livestock directed change in patch restoration strategies for degraded rangelands. USDA Joe Skeen Institute. Award: \$41, 302. My Award: \$15,267

M. K. Owens, W. E. Pinchak, R. J. Ansley, S. Cooper, D. Ransom, C. Taylor and D. Rollins. 2006. Patched restoration strategies for degraded rangelands. USDA Joe Skeen Institute Award: \$87,000. My award \$14,509.

Pinchak, W. E., B. R. Min, and R. C. Anderson. 2007. Potential of yeast cultures to decrease bloat and improve performance in stocker cattle grazing wheat. Diamond V Mills: \$43,742. My Award \$40,000

Pinchak, W. E., J. Coverdale, T. Wickersham. 2008. Effect of diet and housing on the cecal environment of the horse. TERAC: \$32,000. My Award: \$18,000

Wickersham, T, J. Sawyer, L. Tedeschi, G. Carstens, J. Coverdale and W. E. Pinchak. Feeding value of algae bio-diesel co-products to ruminants and equids. 2008 Sunrise Ridge, Inc. Award: \$74,275 My Award \$6,500.

Pinchak, W, D. Malinowski, P. DeLaune, R. Teague, J. Sij. 2007 Multi-disciplinary NIRS system for rapid quantification of plant and soil chemistry. PUF. Award: \$25,000. My Award \$20,000

Total Awards: \$676,662

My Portion: \$257,043

#### **Graduate Students since 2004:**

Douglas Tolleson	Ph. D.	2007	Co-Chair
Hector Gutierrez	Ph. D.	2007	Member
Karla Hernandez	M. S.	2007	Member
Three M. S. Students	Currently		Member