

Bonnie J. Warnock

Curriculum Vita

Updated June 2022

Contact Information

Box C-110
College of Agriculture, Life, and Physical Sciences
Sul Ross State University
Alpine, TX 79832
(432) 837 8201
(432) 837 8406 (fax)
bwarnock@sulross.edu

Education

Ph.D., Soil Science, May 2003, Texas A&M University, College Station, Texas. GPA 4.0. Dissertation: Bioaccumulation of Salts by Halophytes as a Means of Reclaiming Saline Soils; Dr. Tom Hallmark, major advisor.

M.S., Range and Wildlife Management, minor in Biology, July 1997; Sul Ross State University, Alpine, Texas. GPA 4.0. Thesis: Relationships between soil properties and banded vegetation patterns in the Stockton Plateau, Texas; Dr. Robert J. Kinucan and Dr. Lynn Loomis, major advisors

B.S., Range Management, minor in Biology, December 1995; Sul Ross State University, Alpine, Texas. GPA 3.9. Summa Cum Laude.

Research Interests

Soil and vegetation restoration and management with an emphasis on landscape level factors, hydrology, plant ecology and livestock management.

Professional Experience

- 2021-Present **Professor and Dean of Agriculture, Life, and Physical Sciences**, College of Agriculture, Life and Physical Sciences, Sul Ross State University, Alpine, TX 79832. Responsibilities include teaching ranch management curriculum, providing administrative support to the Departments and programs in the College of ALPS including Natural Resource Management, Animal Science, Agriculture, Industrial Technology, Biology, Geology, Chemistry, Physics, Math, Computer Science, Nursing, Borderlands Research Institute, Rodeo, Meat lab and market, and University Ranches in Alpine and Sierra Blanca.
- 2018-2021 **Professor and Dean of Agriculture and Natural Resource Sciences and Clint Josey Endowed Chair for Sustainable Ranch Management**, College of Agricultural and Natural Resource Management, Sul Ross State University, Alpine, TX 79832. Responsibilities include developing and teaching the Sustainable Ranch Management curriculum, teaching range science curriculum, providing administrative support to the Departments and programs in the College of ANRS including Natural Resource Management, Animal Science, Industrial Technology, Borderlands Research Institute, Rodeo, Meat lab and market, and University Ranches in Alpine and Sierra Blanca.
- 2014-2018 **Professor, Clint Josey Endowed Chair for Sustainable Ranch Management, and Chair**, Department of Natural Resource Management, Sul Ross State University, Alpine, TX 79832. Responsibilities include developing and teaching the Sustainable Ranch Management curriculum, teaching range science curriculum, co-advising the Range and Wildlife Club advising the Cattleman's club, recruiting, advising undergraduate and

- graduate students on degree plans, serving as chair and committee member on graduate student research projects, pursuing research interests, and administrative activities related to Department Chair.
- 2013-2014 **Professor and Chair**, Department of Natural Resource Management, Sul Ross State University, Alpine, TX 79832. Responsibilities included teaching range science curriculum, advising the Range and Wildlife Club and Delta Tau Alpha, recruiting, advising undergraduate and graduate students on degree plans, serving as chair and committee member on graduate student research projects, pursuing research interests, and administrative activities related to Department Chair.
- 2008-2013 **Associate Professor and Chair**, Department of Natural Resource Management, Sul Ross State University, Alpine, TX 79832. Responsibilities included teaching range science curriculum, advising the Range and Wildlife Club and Delta Tau Alpha, recruiting, advising undergraduate and graduate students on degree plans, serving as chair and committee member on graduate student research projects, pursuing research interests, and administrative activities related to Department Chair.
- 2003-2008 **Assistant Professor**, Department of Natural Resource Management, Sul Ross State University, Alpine, TX 79832. Taught all range classes. Developed syllabi, lecture material, tests, and assignments for each of the courses. Assisted with the Range and Wildlife Club. Actively assisted with recruiting students. Advised undergraduate and graduate students. Actively pursued research interests and grants to support that research.
- 2001-2002 **Instructor**, Department of Natural Resource Management, Sul Ross State University, Alpine, TX 79832.
- 2001 **Lecturer**, Department of Natural Resource Management, Sul Ross State University, Alpine, TX 79832.
- 2000 **Teaching Assistant**, Department of Soil and Crop Science, Texas A&M University, College Station, TX 77843
- 2000 **Research Assistant**, Department of Soil and Crop Science, Texas A&M University, College Station, TX 77843
- 1996-1997 **Teaching and Research Assistant**, Department of Range Animal Science, Sul Ross State University, Alpine, TX 79832
- 1992-1993 **Herbarium Assistant**, Department of Range and Wildlife Management, Texas Tech University, Lubbock 79409

Practical Experience

1997-Present **Ranch Owner and Manager**, Northeastern Brewster County,

Honors, Awards and Certifications

Clint Josey Endowed Chair for Sustainable Ranch Management, 2014

Excellence in Ecological Restoration, Texas and Southwest Sections, Society for Ecological Restoration, 2014

Sul Ross State University Outstanding Teaching Award, 2012 and 2017

Conservation Teacher, Region II, Runner-up, Texas Conservation Awards, 2011

Conservation Teacher, Big Bend Soil and Water Conservation Awards, 2010

AASCAR Outstanding Teacher, 2005
 NACTA Teaching Award of Merit, 2005
 NASULGC nominee for Excellence in College and University Teaching Award
 Tom Slick Fellow, 2001
 Texas A&M Women's Faculty Network Scholarship, 2001
 Texas A&M Regents Fellow, 1999
 Sul Ross State University Woman of the Year, 1997
 Member Delta Tau Alpha, Honor society
 Texas Section SRM scholarship
 National Merit Scholar
 Texas Tech University Agricultural Dean's Scholar
 Texas Tech University Presidential Scholar

Professional Service

The Nature Conservancy, Texas Board of Trustees
 Dixon Water Foundation
 Society for Range Management
 Soil Science Society of America
 Society for Ecological Restoration
 Ecological Society of America

Research Grants

USDA HSI Avenzando el la Frontera for integrating technology and research into undergraduate agricultural education \$200,000
 World Wildlife Fund for willow restoration along Terlingua Creek. \$9500
 Dixon Water Foundation for creation of endowment to create the Clint Josey Endowed Chair in Sustainable Ranch Management and support the Sustainable Ranch Management program. \$1,200,000.00
 Rio Grande Joint Venture for prescribed fire as a tebuthiuron post treatment for grassland restoration projects. \$44,100.00
 Dixon Water Foundation for Impact of fire on succession and species composition of microflora in grasslands, Marfa plateau, Texas. \$40,714.00
 Research Enhancement Sul Ross State University for the study "Monitoring ecosystem recovery after fire in the Marathon Basin." \$6200.00
 Research Enhancement Sul Ross State University for the study "Development of Seed Collections and Plant Materials for Grassland Restoration" \$6200.00
 Research Enhancement Sul Ross State University for the study "Patch burning as a tool for implementing prescribed fire on desert grasslands in the Trans Pecos. \$6430.00
 Texas Parks and Wildlife, Section 6, Population biology, habitat description and delineation, and conservation of Terlingua Creek Cat'seye. \$158,755.00
 Research Enhancement Sul Ross State University for the study "Stream bank stabilization and channel reconstruction using recycled tires' \$5682.00
 USDA for The impact of dirt tanks on watershed dynamics in the Terlingua Creek Watershed. \$85,404.00.
 USDA for Grassland birds as bioindicators in the Rio Grande basin \$55,450
 Dixon Water Foundation for planning a monitoring strategy for the Mim's Ranch. \$25,000.00/yr 3 years
 Lykes Bros. Inc. for GIS and GPS of the 02 Ranch - \$36,000.00

- Lykes Bros Inc. for Population and Harvest study of ocotillo - \$36,000.00
- USDA as part of the Sustainable Agriculture Water Use in the Rio Grande Basin - \$390,139.00
- Lykes Foundation for the study "Landscape level range reclamation of the Duff Springs area, O2 Ranch, Brewster County, Texas"-\$125,000.00
- Research Enhancement Sul Ross State University for the " Use of digital photography as a tool in vegetation inventory." \$5200.00
- Research Enhancement Sul Ross State University for the "Consolidation and Evaluation of Long-term Fire Ecology Studies in Big Bend National Park"- \$4900.00
- Research Enhancement Sul Ross State University for the "Impact of Natural Fires and Climate Shifts on Papershell Pinyon Pine in the Glass Mountains of Texas"-\$2700.00
- Houston Livestock Show and Rodeo for the study "Development of a variety of *Atriplex canescens* as an alternative forage crop"-\$2400.00
- The Nature Conservancy for the study "Live Oak Recruitment in the Independence Creek Watershed"-\$3700.00
- Research Enhancement Sul Ross State University for the study "Live Oak Recruitment in the Independence Creek Watershed"-\$5650.00
- Research Enhancement Sul Ross State University for the study "Soil, geomorphic, and hydrologic influences upon vegetation patterns in the Trans-Pecos Texas"-\$7270.00

Publications

- Jackson, C. D., A. M. Powell, and B. J. Warnock. 2015. Rediscovery of *Platylema palmeri* (Asteraceae) in Brewster County, Texas. *Phytoneron*. 14:1-8
- Estep, C. M. and B. J. Warnock. 2014. Self-Efficacy in a natural resources field studies course. *Nacta Journal*. 58:21
- Allcorn, R. A. and B. J. Warnock. 2014. Small mammal community recovery after fire. *Texas Wildlife*. 2014.
- Warnock, B. J. 2013. The road to recovery: Soils and vegetation of the Marfa Grasslands 18 months after the Rockhouse Fire. *Texas Wildlife*. July 2013.
- Warnock, B.J. and J. Edwards. 2012. Short term vegetation response to the Rockhouse fire, Presidio county, Texas. *Proceedings of the Trans-Pecos Wildlife Conference-2012*.
- Grageda Garcia, M. A. and B. J. Warnock. 2011. Wintering grassland birds of the Rio Grande Basin. *Texas Wildlife*. December 2011.
- Warnock, B. J. 2010. A brief history of fire in the Trans Pecos. In: *Proceedings of the Trans Pecos Prescribed Burn Symposium*.
- Warnock, B. J. 2010. Effects of wildfire on flora and fauna of the Big Bend. *Desert Tracks* 4:2.
- Warnock, B. J., and S. Duckett. 2010. Restoring desert grasslands and black-tailed prairie dogs in the Trans Pecos. *Texas Wildlife*. May 2010.
- M. Williams, B. J. Warnock, J. M. Betz, J. J. Beck, D. R. Gardner, S. T. Lee, R. J. Molyneux, and S. M. Colgate. 2010. Detection of High Levels of Pyrrolizidine-N-oxides in the Endangered Plant *Cryptantha crassipes* (Terlingua Creek Cat's-eye) Using HPLC-ESI-MS. *Phytochemical Analysis*.
- Burden, I. and B. J. Warnock. 2010. Using fire and herbicide to control whitebrush. *Desert Tracks* 3:1.

- Warnock, B. J. 2009. The Promise of water: Restoration of Duff Springs. Texas Wildlife. May 2009.
- Warnock, B. J., P. H. Dickerson, and L. A. Harveson. Eds. 2008. Proceedings of the Trans-Pecos Wildlife Conference-2008.
- Warnock, B. J. and W. F. Juett. 2008. How do you store water in the desert?. Cattleman. March 2008.
- Warnock, B. J. and W.F. Juett. 2008. Restoring grasslands in the Chihuahuan Desert: The Burlap Wattle Technique. Texas Wildlife. November 2008.
- Warnock, B. J. and W. F. Juett. 2006. Cotton Burs and burlap used to create wattles for erosion control (Texas). Ecological Restoration 24(4) pp 280-281.
- Warnock, B. J. 2006. Restoration of the Duff Springs riparian area and the associated upland grasslands to increase pronghorn habitat. pp 65-69 IN: Proceedings Pronghorn Symposium 2006.
- Warnock, B. J. 2003. Bioaccumulation of Salts by Halophytes as a Means of Reclaiming Saline Soils. Dissertation, Texas A&M University. 243 pp.
- Warnock, B. J. 2002. Was the Trans Pecos a grassland? Past, present and potential. pp 94-97 IN: Proceedings of the Trans Pecos wildlife conference.
- Kinucan, R.J., L.E. Loomis, B.J. Warnock, and K.A. Cearley. 1999. Banded vegetation and soil patterns in the Stockton Plateau, west Texas, USA. pp 122-124 IN: Proceedings of the VI International Rangeland Congress, Volume I.
- Warnock, B. J. 1997. Relationships between soil properties and banded vegetation patterns in the Stockton Plateau, Texas. Thesis, Sul Ross State University. 102 pp.