

Thomas J. Gerik

Texas AgriLife Research Blackland Research & Extension Center
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EDUCATION:

Ph.D., University of Nebraska, 1979
M.S., Texas Tech University, 1974
B.S., Texas Tech University, 1973

ADMINISTRATIVE, RESEARCH RESPONSIBILITIES AND INTERESTS:

Oversees the research and management of 4.2 Faculty, 13.0 Research Scientists, and 55 research/support staff with annual budgets of 1.0 million in appropriated and 4.0 million in contract dollars. Research programs center on improving knowledge of agriculture and natural resource systems and the development and application of agricultural/natural resource system models and computer decision aids to determine the impact/benefit/consequences of land/crop management on the environment and on agricultural and economic productivity. Personal research interest focuses on improving knowledge of biological and environmental constraints to irrigated and rainfed farming systems, with particular emphasis on developing superior management practices to enhance yield and production efficiency of the through the use of field scale research and the development and application of computer simulation analysis. Research include: the development user interfaces for farming system/agricultural ecosystem models (EPIC and APEX) for on-farm analyses of production and risks; coordination of the USDA-NRCS National Cropland Assessment for the USDA-Conservation Effects Assessment Project.

PROFESSIONAL AND ACADEMIC APPOINTMENTS:

Center Director and Professor, 2006 to present.
Interim Resident Director and Professor. 2006-2006.
Professor-- Agronomy/Crop Physiology, 1991 – 2006.
Associate Professor-- Agronomy/Crop Physiology, 1985 - 1991.
Assistant Professor-- Agronomy/Crop Physiology, 1979 - 1985

PROFESSIONAL ACTIVITIES AND RECOGNITION:

Chair, Budget/Finance Committee, Crop Science Society of America (2006)
Superior Service Team Award: Texas Cooperative Extension (2004)
Board of Directors, Crop Science Society of America (2004-2008)
Finance Committee, Crop Science Society of America (2004-2005)
Fellow, Crop Science Society of America (1999)
Fellow, American Society of Agronomy (1998)
Editorial Advisor, Field Crops Research, 1987 - 2007.
Technical Editor, Journal of Crop Management, 2001 - 2004.

GRANTS AND CONTRACTS (2004-2014: \$ 9.5 million)

SELECTED PUBLICATIONS :

Research has been reported in 60 refereed journal publications, 100 research, technical reports and abstracts, 3 book chapters, and 1 edited book. Selected publications are listed below:

Manyowa N. Meki, Armen R. Kemanian, Steven R. Potter, Jürg M. Blumenthal, Jimmy R. Williams, Thomas J. Gerik. 2013. Cropping systems effects on sorghum grain and biomass yield, soil organic carbon and global warming potential in central and south Texas. *J. Agricultural Systems* 117:19-29.

Manyowa N. Meki, Jay D. Atwood, Lee M. Norfleet, Jimmy R. Williams, Thomas J. Gerik and James R. Kiniry. 2012. Corn residue removal effects on soybean yield and nitrogen dynamics in the Upper Mississippi River Basin. *J. Agroecology and Sustainable Food Systems* 37(3):379-400.

Manyowa N. Meki, Javier P. Marcos, Jay D. Atwood, Lee M. Norfleet, Evelyn M. Steglich, Jimmy R. Williams, and Thomas J. Gerik. 2011. Effects of site-specific factors on corn stover removal thresholds and subsequent environmental impacts in the Upper Mississippi River Basin. *J. of Soil and Water Conservation* 66(6): 386-399.

Torbert, H.A., Gerik, T.J., Harman, W.L., Williams, J.R. and Magre, M. 2008. Impact of Poultry Litter Application Timing on Nutrient Losses. *Communications in Soil Science and Plant Analysis*,39:19,3002-3031 DOI: 10.1080/00103620802432899 URL: <http://dx.doi.org/10.1080/00103620802432899>

Pettigrew, W.T., and T. J. Gerik. 2007. Photosynthesis and carbon metabolism in leaves. *Advances in Agronomy* 94: 209-236. *Agron. J.* 96: 1222-1230.

Gerik, T.J., W.D. Rosenthal, R.L. Vanderlip, and L.J. Wade. 2004. Simulating seed number in grain sorghum from increases in plant dry weight. *Agron. J.* 96: 1222-1230.

Gerik, T.J. B. Bean, and R. Vanderlip. 2003. Sorghum Growth and Development. Texas Cooperative Extension. B-6137.

Kiniry, J. R., Y. Xie, and T.J. Gerik. 2002. Similarity of Maize Seed number Responses for a Diverse Set of Sites. (*Agronomie* 22: 265-272).

Gerik, T.J., W. Harman, J. Williams, L. Francis, J. Greiner, M. Magre, A. Meinardus, and E. Steglich. 2001. CroPMan: A CroP Production and Management Model. User Guide. Version 3.1. Blackland Research and Extension Center Report. No. 02-02. Texas Agricultural Experiment Station, Temple, TX. 145p.

Potter, K.N. and Gerik, T.J. 2001. The Vertisols of Texas. pp. 267-279. In J.K. Syers, F.W.T. Penning de Vries, and P. Nyamudeza. (eds.) *The Sustainable Management of Vertisols*. CABI Publishing Wallingford, UK.

Torbert, H.A., K.N. Potter, D.W. Hoffman, T.J. Gerik, and C.W. Richardson. 1999. Surface residue and soil moisture affect fertilizer loss in simulated runoff on a heavy clay soil. *Agron. J.* 91:606-612.

Gerik, T.J., R.G. Lemon, E.M. Steglich. 1999. Ultra-narrow row cotton performance under drought conditions. p. 581. In: P.Dugger and D. Richter (eds.) *Proceedings Beltwide Cotton Conferences 3-7 January 1999*. Orlando, FL.

Steglich, E.M., T.J. Gerik, T.J., J.T. Cothren. 1999. Change in the light extinction coefficient with cotton row spacing. p. 614-615. In: P.Dugger and D. Richter (eds.) *Proceedings Beltwide Cotton Conferences 3-7 January 1999*. Orlando, FL.