

CURRICULUM VITAE

MARK LEE MCFARLAND
Professor and Extension Specialist
Department of Soil and Crop Science
College Station, Texas 77843-2474

Education

Doctor of Philosophy in Soil Science - December 1988; Texas A&M University,
Master of Science in Range Science - May 1984; Texas A&M University
Bachelor of Science in Biology - December 1980; Angelo State University

Research and Education Emphasis

Education and research programs through the Texas Cooperative Extension involve the development and delivery of resources and educational programs for agricultural producers, industry groups, agency personnel and the general public concerning nutrient management, water resource management, waste management and disturbed land reclamation. Major emphasis is directed toward the use of best management practices to minimize agricultural nonpoint source pollution and to improve the economic sustainability of agricultural production systems.

Experience

Sept. 2003 - present: Texas Cooperative Extension, College Station, Texas
Professor and Extension Soil Fertility Specialist, and Extension Water Quality Coordinator,
Department of Soil and Crop Sciences.

Sept. 1998 - Aug. 2003: Texas Cooperative Extension, College Station, Texas
Associate Professor and Extension Soil Fertility Specialist, and Extension Water Quality
Coordinator, Department of Soil and Crop Sciences.

Aug. 1995 - Sept. 1998: Texas Agricultural Extension Service, College Station, Texas
Assistant Professor and Extension Soil Fertility Specialist, and Extension Water Quality
Coordinator, Department of Soil and Crop Sciences.

Dec. 1993 - July 1995: Texas Natural Resource Conservation Commission, Austin, Texas
Section Manager, Agriculture and Rural Assistance Division.

June 1992 - Dec. 1993: West Virginia University, Morgantown, West Virginia
Extension Soil and Water Resources Specialist and Assistant Professor of Agronomy (70%
Extension, 30% Research/Teaching).

Professional Memberships

Soil Science Society of America; American Society of Agronomy; Southern Region Extension Water
Quality Planning Committee; Southern Soil Fertility Conference Committee.

Honors and Awards

Extension Specialist Award (2002); Sigma Xi Scientific Research Society (1997); Excellence in
Extension - Water Quality, Texas Agricultural Extension Service (1992); Alpha Chi Omega (1979)

Refereed Publications

- Grichar, W.J., J.D. Nerada and M.L. McFarland. 2003. Response of Coastal Bermudagrass to Gypsum Applications. Texas Journal of Agriculture and Natural Resources. 15:15-22.
- Grichar, W.J., B.A. Besler, A.J. Jaks, K.D. Brewer and M.L. McFarland. 2001. Use of Agricultural and Power Plant By-Product Gypsum for South Texas Potato Production. Texas J. Sci. Vol. 13.
- Monks, C.D., M.L. McFarland, J. Hatton, S. Poland, and T. Basden. 1997. Cover crop response to

- late-season planting and nitrogen application. *J. Production Ag.* 10:289-293.
- Monks, C.D., W.K. Vincill, J.P. Hatton, M.L. McFarland and D.P. Dalaney. 1997. Effect of glyphosate, imazameth, nicosulfuron and primisulfuron on johnsongrass (*Sorghum halepense* (L.)) regrowth the following year. *Weed Tech.*
 - McFarland, M.L., D.N. Ueckert, F.M. Hons, and S. Hartmann. 1994. Selective placement burial of drilling fluids: Effects on soil properties, buffalograss and fourwing saltbush after four years. *J. Range Management.* 47:475-480.
 - McFarland, M.L., D.N. Ueckert, and F.M. Hons. 1992. Selective-placement burial of drilling fluids in west Texas: I. Effects on soil chemical properties. *J. Environ. Qual.* 21:135-139.
 - McFarland, M.L., D.N. Ueckert, and F.M. Hons. 1992. Selective-placement burial of drilling fluids in west Texas: II. Effects on plant growth and chemical composition. *J. Environ. Qual.* 21:140-144.
 - Ccloro. L-5441S. Texas Cooperative Extension. College Station, Texas.
 - Dozier, M.C. and M.L. McFarland. 2003. Solving Water Quality Problems in the Home. L-5450. Texas Cooperative Extension. College Station, Texas.
 - McFarland, M.L. and M.C. Dozier. 2003. Como resolver los problemas sobre la calidad del agua en el hogar. L-5450S. Texas Cooperative Extension. College Station, Texas.
 - Haby, V.A., M.L. McFarland, and L. Redmon. 2002. Soil Acidity and Liming. Texas Agricultural Experiment Station/Texas Agricultural Extension Service. *Exp. Sta. Bul. No. 1970.* College Station, Texas.
 - McFarland, M.L. and D. Boellstorff. 2002. Nutrient and Pesticide Management in the Southern Region. Texas Cooperative Extension.
 - Boellstorff, D. and M.L. McFarland. 2002. Watershed Management in the Southern Region. Texas Cooperative Extension.
 - McFarland, M.L. and D. Boellstorff. 2002. The Southern Region Water Quality Coordination Project. Texas Cooperative Extension.
 - Boellstorff, D. and M.L. McFarland. 2002. The Southern Region Water Quality Information System. Texas Cooperative Extension.
 - McFarland, M.L. and R.G. Lemon. 2002. Irrigation Water Quality: Critical Levels for Peanuts, Cotton, Corn and Grain Sorghum. L-5417. Texas Cooperative Extension.
 - Livingston, S.D., M.L. McFarland and C. Stichler. 2002. Correcting Iron Deficiencies in Grain Sorghum. Texas Cooperative Extension. L-5155.
 - Espinosa, L.A., C.R. Stichler and M.L. McFarland. 2001. Crop Reference Manual for the Lower Rio Grande Valley. Texas Cooperative Extension. College Station, Texas. SCS-2001-03.
 - Espinosa, L.A., M. L. McFarland and C.R. Stichler. 2001. Phosphorus and Crop Production. Texas Cooperative Extension. SCS-2001-01.
 - Espinosa, L.A., M.L. McFarland and C.R. Stichler. 2001. Nitrogen and Crop Production. Texas Cooperative Extension. SCS-2001-02.
 - Grichar, W. J., B.A. Besler, A.J. Jaks, K.D. Brewer and M.L. McFarland. 2000. Comparison of Agricultural and Power Plant By-Product Gypsum for South Texas Potato Production. CTR-20-02. Texas Agricultural Experiment Station, Yoakum, Texas.
 - Feagley, S., M.L. McFarland and T. Provin. 2000. Nutrient Management Planning Certification Workbook. SCS-01. Texas Agricultural Extension Service, College Station, Texas.
 - McFarland, M.L. and M.C. Dozier. 2000. Typical Water Quality Problems and Treatment Alternatives. SCS-02. Texas Agricultural Extension Service, College Station, Texas.

Proceedings and Abstracts

- McFarland, M.L., M.P. O'Neill, G. Jennings, L. Walker, B. Mahler, J. Potent, K. Ferrel-Poe, A. Gold, T. Simpson, J. Walker, R. Shepard. The CSREES National Integrated Water Quality Program.

- ASA, National Conference, Denver, Colorado. November, 2003.
- Helton, T.J., M.L. McFarland, F.M. Hons, T.J. Butler and J.P. Muir. 2003. Effects of Dairy Manure Compost on Coastal Bermudagrass Yields and Quality. ASA, National Conference, Denver, Colorado. November 2003.
 - McFarland, M.L. and D. Boellstorff. 2003. The Southern Region Water Quality Coordination Project. Southern Region Water Quality Conference. Ruidoso, New Mexico. November 2003.
 - McFarland, M.L. and D. Boellstorff. 2003. Water Quality Outreach and Education in Texas. Southern Region Water Quality Conference. Ruidoso, New Mexico. November 2003.
 - Boellstorff, D. and M.L. McFarland. 2003. The Southern Region Water Quality Information System. Southern Region Water Quality Conference. Ruidoso, New Mexico. November 2003.
 - McFarland, M.L., D. Boellstorff and M.P. O'Neill. 2003. The CSREES Nation Water Quality Program. Southern Region Water Quality Conference. Ruidoso, New Mexico. November 2003.
 - McFarland, M.L. 2003. Nitrogen Management in Horticultural Crops Production. Texas Horticultural Crops Symposium. College Station, Texas. September 2003.
 - Helton, T.J., T.J. Butler, J. Muir and M.L. McFarland. 2002. Effects of Dairy Manure Compost on Yields and Quality of Coastal Bermudagrass. Texas Surface Mining and Reclamation Workshop. College Station, TX.
 - McFarland, M.L. R.G. Lemon, F.M. Hons and T. Gerik. 2002. Nitrogen Management in UNR Cotton Production Systems. Beltwide Cotton Conf. Atlanta, GA. January 2002.
 - McFarland, M.L., T.J. Helton, F.M. Hons, R.G. Lemon. 2002. Soil Fertility Research and Extension in Texas. Southern Soil Fertility Conference. Memphis, TN. October 2002.
 - McFarland, M.L. 2002. Non-Traditional Soil Additives in Horticultural Crops Production. Texas Horticultural Crops Symposium. College Station, Texas. September 2002.
 - McFarland, M.L. 2002. The Southern Region Water Quality Coordination Project. Southern Region Water Quality Conference. Atlanta, GA. October 2002.
 - McFarland, M.L., R.G. Lemon, F.M. Hons and T.J. Gerik. 2001 Nitrogen Management for UNR Cotton Production in the Texas Blacklands. American Society of Agronomy. Annual Meeting, Charlotte, NC. October, 2001.
 - McFarland, M.L., R.G. Lemon, F.M. Hons, K.F. Bronson, J.J. Sloan, E. Clawson and J.T. Cothren. 2001. Soil Fertility Research and Education in Texas. Southern Soil Fertility Conference. Memphis, TN. Oct. 2001.
 - McFarland, M.L. 2001. Nutrient Management Planning and the Phosphorus Index. Southern Region Water Quality Conference. Gulf Shores, AL. Oct. 2001.
 - McFarland, M.L. 2001. Water Quality for Irrigation. Gulf Coast Cotton Conference. Corpus Christi, TX. Nov. 2001.
 - Lemon, R.G. and M.L. McFarland. 2001. Nutrient Management for High Level Cotton Production. Gulf Coast Cotton Conference. Corpus Christi, TX. Nov. 2001.
 - Haby, V.A., A.T. Leonard and M.L. McFarland. 2001. Limestone Quality and Effectiveness for Neutralizing Soil Acidity. International Soil Acidity Conference. Johannesburg, South Africa.
 - Haby, V.A. A.T. Lenoard and M.L. McFarland. 2001. Limestone Quality. International Forage Congress. Alberta, Canada.
 - McFarland, M.L. 2001. Non-traditional Soil Additives in Horticultural Crop Production. First Annual Horticultural Crops Symposium. College Station, TX. Oct. 2001.
 - McFarland, M.L., T. Whitten and T. Cothren. 2000. Non-Traditional Soil Additives. Southern Soil Fertility Conference. Memphis, TN. Oct. 2000.
 - McFarland, M.L., B. Bade and V.A. Haby. 2000. Nitrogen Management in Forage Production Systems. American Society of Agronomy. Annual Meeting, Minneapolis, MN. Nov. 2000.

Thesis

- Helton, T.J. 2003. Effects of Composted Dairy Manure on Soil Chemical Properties and Forage Yield and Quality of Coastal Bermudagrass [*Cynodon dactylon* (L.) Pers.]. Thesis, Texas A&M University, College Station, Texas.
- Winger, J.D. 1996. Nutrient Enrichment to Enhance Biodegradation of a West Virginia Crude Oil. Thesis, West Virginia University.
- Bricker, R.B. 1996. Nitrogen Mineralization and Plant Response of Soil Amended with Sewage Sludge-Chopped Newspaper Mixtures. Thesis, West Virginia University.