

Paul B. DeLaune

Assistant Professor, Environmental Soil Science

Texas AgriLife Research

11708 HWY 70 South, P.O. Box 1658, Vernon, TX 76385

Office: (940) 552-9941 x207, Fax: 940-552-2317; E-mail: pbdelaune@ag.tamu.edu

EDUCATIONAL BACKGROUND:

Ph.D. in Soil Science, University of Arkansas, Fayetteville, AR, May 2002.

Dissertation Title: "Development of a Phosphorus Index for Pastures"

M.S. in Agronomy, University of Arkansas, Fayetteville, AR, August 1999.

Thesis Title: "Effect of Chemical and Microbial Amendments on Composted Poultry Litter"

B.S. in Agronomy, Oklahoma State University, Stillwater, OK, May 1997.

A.S. in Agronomy, Eastern Oklahoma State College, Wilburton, OK, May 1995.

PROFESSIONAL EXPERIENCE:

Assistant Professor of Environmental Soil Science, Texas AgriLife Research, Vernon (September 2007-present)

- Develop research on water quality and quantity issues and nutrient management planning.

Research Associate, Univ. of Arkansas, Biological & Agricultural Engineering Dept. (August 2003-August 2007)

- Developed the Eucha-Spavinaw Phosphorus Index as member of Environmental Task Force P Index Team. This P Index was mandated by Federal Court. Conducted research at the plot and field scale to determine risk of pollutant transport from agricultural settings.

Research Associate, Univ. of Arkansas, Crop, Soil, & Environmental Sciences Dept. (May 2002-August 2003)

- Designed and conducted research evaluating management practice effects on nutrient transport.

Sr. Graduate Research Assistant, Univ. of Arkansas, Crop, Soil, & Environmental Sciences Dept. (Aug. 1999-May 2002)

- Developed and validated the Phosphorus Index for Pastures, adopted by the State of Arkansas to develop nutrient management plans throughout the state beginning February 2001.
- Determined factors affecting As, Cu, Zn, P, and 17 β -estradiol concentrations in surface runoff from pastures fertilized with poultry litter.

Graduate Research Assistant, Univ. of Arkansas, Crop, Soil, & Environmental Sciences Dept. (May 1997-Aug. 1999)

- Determined air, water, and forage quality as affected by composted and fresh poultry litter.

PROFESSIONAL SOCIETIES:

American Society of Agronomy
Soil Science Society of America
SERA IEG-17

SELECTED AWARDS:

*2003 USDA Secretary's Plow Honor Award for Group Achievements in "Maintaining and Enhancing the Nation's Natural Resources and Environment."

*2004 ARS Technology Transfer Award "For development and implementation of a Phosphorus Indexing procedure to target remedial measures for nutrient management strategies that maintain productivity and protect water quality."

RELEVANT PUBLICATIONS:

DeLaune, P.B., P.A. Moore, Jr., and J.L. Lemunyon. 2006. Effect of chemical and microbial amendments on phosphorus runoff from composted poultry litter. *J. Environ. Qual.* 35:1291-1296.

DeLaune, P.B., B.E. Haggard, T.C. Daniel, I. Chaubey, and M.J. Cochran. 2006. The Eucha/Spavinaw Phosphorus Index: A court mandated index for litter management. *J. Soil Water Conservation* 61:96-105.

Haggard B.E., P.A. Vadas, D.R. Smith, P.B. DeLaune, and P.A. Moore, Jr. 2005. Effect of poultry litter to water ratios on extractable phosphorus content and its relation to runoff phosphorus concentrations. *Bioengineering* 92(3):409-417.

Haggard, B.E., P.B. DeLaune, D.R. Smith, and P.A. Moore, Jr. 2005. Nutrient and β 17-estradiol loss in runoff water from poultry litters. *J. Amer. Water Res. Assoc.* 41(2):245-256.

Haggard, B.E., P.A. Moore, Jr., and P.B. DeLaune. 2005. Phosphorus flux from bottom sediments in Lake Eucha, Oklahoma. *J. Environ. Qual.* 34:724-728

Harmel, R.D., H.A. Torbert, P.B. DeLaune, B.E. Haggard, and R. Haney. 2005. Field evaluation of three phosphorus indices on new application sites in Texas. *J. Soil Water Conservation* 60:29-42

DeLaune, P.B., P.A. Moore, Jr., D.K. Carman, A.N. Sharpley, B.E. Haggard, and T.C. Daniel. 2004. Development of a phosphorus index for pastures fertilized with poultry litter – factors affecting phosphorus runoff. *J. Environ. Qual.* 33:2183-2191.

DeLaune, P.B., P.A. Moore, Jr., D.K. Carman, A.N. Sharpley, B.E. Haggard, and T.C. Daniel. 2004. Evaluation of the phosphorus source component in the phosphorus index for pastures. *J. Environ. Qual.* 33:2192-2200.

DeLaune, P.B., P.A. Moore, Jr., T.C. Daniel, and J.L. Lemunyon. 2004. Effect of chemical and microbial amendments on ammonia volatilization from composting poultry litter. *J. Environ. Qual.* 33:728-734.

DeLaune, P.B., P.A. Moore, Jr., D.K. Carman, A.N. Sharpley, B.E. Haggard, and T.C. Daniel. 2002. Using the phosphorus index to reduce phosphorus runoff from soils in the Eucha/Spavinaw Watershed. Final Report to Tulsa Metropolitan Utility Authority. July 31, 2002. p. 277