

DIANE E. BOELLSTORFF

Associate Professor and Extension Water Resource Specialist
Dept. of Soil and Crop Sciences, Texas A&M University, College Station, Texas

Education/Training

1991 PhD Zoology, University of California, Davis
1983 MS Ecology, University of California, Davis
1980 BS Animal Ecology, Iowa State University

Positions and Employment

2009- Assistant/Associate Professor and Extension Specialist, Soil and Crop Sciences, Texas A&M University System
2001-2009 Program Specialist, Texas A&M AgriLife Extension Service, Soil and Crop Sciences, Texas A&M University System
1998-2001 Lecturer, Dept. of Biology, Texas A&M University
1991-1993 Fish and Wildlife Biologist, U.S. Fish and Wildlife Service, East Lansing, MI

Program Overview

My primary areas of focus are developing educational outreach and applied research programs involving water resource management, including water conservation, water quality and aquatic ecosystems, watershed protection planning, and groundwater and private water well protection. Investigations concern identifying, evaluating and mitigating bacteria and nutrient loading to streams. Outreach includes developing and delivering educational programs involving supporting source water protection for residents using drinking water wells and facilitating community-driven watershed planning efforts. Program areas are aquatic ecosystems; drinking water and public health; water and wastewater treatment; and water quality and watershed protection.

Significant 5 Year Accomplishments

Extension: Involved with projects generating \$30,219,719 of which \$1,496,074 went to my outreach and applied research programs. Banner programs and major accomplishments include outreach to more than 5,700 private water well operators to provide well water quality screening and remediation that protects human health and groundwater quality. I promote the importance of urban residential water conservation primarily through an outreach program titled the 40 Gallon Challenge. Voluntary implementation of the program is equivalent to securing a 61% increase in residential water availability without new water being acquired, treated and transported. Since 2011, authored/co-authored 33 extension and research peer-reviewed publications. **Applied Research:** Water resource attitude and behavior survey that examines Texans' perceptions of water issues and indicates topics and information delivery preferences related to social demographics. Analyses and interpretation of the database developed from the results of ongoing screening of private water well samples. Identification of methods for characterizing natural, baseline contributions of *E. coli* and nutrients to surface waterbodies. **Teaching:** I work with program specialists and teach adults by invitation in informal settings. Since 2011, we delivered 540 educational outreach events to the public and targeted audiences. Advised/co-advised 3 PhD students, and 6 MS students.

Publications

Five most recent Extension and five most recent Research publications

1. Evans, J.M, J. Calabria, T. Borisova, D.E. Boellstorff, N. Sochacka, M.D. Smolen, R.L. Mahler and L. Mark Risse. 2015. Effects of local drought condition on public opinions about water supply and future climate change. *Climatic Change*, DOI 10.1007/s10584-015-1425-z. Online at http://link.springer.com/article/10.1007/s10584-015-1425-z?sa_campaign=email/event/articleAuthor/onlineFirst.

2. McDonald, A.K., D.E. Boellstorff and D.M. Gholson. 2015. Groundwater Pumping in a Floodplain: What You Need to Know. Texas A&M AgriLife Extension Service Publication ERM-014.
3. Boellstorff, D.E., M.L. McFarland, J.L. Peterson and L.A. Redmon. 2014. Don't Drug Your Drain: Dispose of Medicines and Personal Care Products Properly. Texas A&M AgriLife Extension Service Publication ESC-021.
4. Gerlich, R.A., K.A. Uhlman, D.E. Boellstorff, M.L. McFarland, A.R. Jantrania and J.W. Smith. 2014. Maintain your Septic System to Protect Well Water. Texas A&M AgriLife Extension Service Factsheet SC-015.
5. Gholson, D.M., D.E. Boellstorff, and M.L. McFarland. 2014. What to do about Coliform Bacteria in Well Water. Texas A&M AgriLife Extension Service Factsheet SC-022.
6. Peterson, J.L., M.L. McFarland, D.E. Boellstorff and L.A. Redmon. 2014. Pharmaceuticals and Personal Care Products: Potential Impacts on Water Quality. Texas A&M AgriLife Extension Service Publication ESC-010.
7. Adams, D.C., D. Allen, T. Borisova, D.E. Boellstorff, and M.D. Smolen. 2013. The influence of water attitudes, perceptions, and learning preferences on water-conserving actions. *Journal of Natural Sciences Education* 42:104-113; <https://www.agronomy.org/publications/nse/pdfs/42/1/114>.
8. Boellstorff, D.E., T. Borisova, M.D. Smolen, J.M. Evans, J. Calabria, D.C. Adams, N.W. Sochacka, M.L. McFarland, and R.L. Mahler. 2013. Audience preferences for water resource information from Extension and other sources. *Journal of Natural Sciences Education* 42:123-130; <https://www.agronomy.org/publications/nse/pdfs/42/1/123>.
9. Borisova, T., M.D. Smolen, D.E. Boellstorff, M.L. McFarland, and D. Adams. 2013. Public Preferences for Water Resource Topics and Information Sources in the Southern United States. *Journal of Extension* 51(2): 2RIB7; <http://www.joe.org/joe/2013april/rb6.php>.
10. Borisova, T., P. Useche, M.D. Smolen, D.E. Boellstorff, N.W. Sochacka, J. Calabria, D. Adams, J. Evans and R.L. Mahler. 2013. Differences in opinions about surface water quality issues in the southern United States: Implications for the watershed planning process. *Journal of Natural Sciences Education* 42:104-113; <https://www.agronomy.org/publications/nse/pdfs/42/1/104>.

Awards and Honors

- 2015, Texas A&M AgriLife Extension Superior Service Award—Team Category: Texas Well Owner Network.
- 2015, American Society of Agronomy Extension Educational Materials Award for publications > 16 pages. *Texas Well Owner Network: Well Owner's Guide to Water Supply*.
- 2011, Texas A&M AgriLife Extension Superior Service Team Award for the Texas Watershed Stewards Program.
- 2011, Southern Region Project of Excellence. Southern Region Down-Well Camera Team. Awarded by the USDA National Water Program.
- 2011, Southern Region Project of Excellence. Development of a Web-based Training for the Regional Watershed Steward Program. Awarded by the USDA National Water Program.
- 2009, Special Achievement Award for Extension Project Support. Soil and Crop Sciences Department, Texas A&M University.
- 2009, Texas AgriLife Extension Superior Service Team Award for the Plum Creek Watershed Protection Plan.
- 2008, American Society of Agronomy Extension Educational Materials Award for the Southern Region Water Quality Regional Website (<http://srwqis.tamu.edu>).
- 2008, American Society of Agronomy Extension Educational Materials Award for the Texas Watershed Stewards Handbook.