Overview of Irrigation Program

Integrated applied irrigation research and extension program emphasizes appropriate application of advanced irrigation technologies and best management practices to support efficient irrigation and water conservation in Texas High Plains production agriculture. Extension efforts address a wide range of water issues and audiences, but focus is upon technical and educational support for agricultural producers, engineering and crop consultants, irrigation professionals, and others involved in agriculture and water management research, education and policy.

Irrigation research and education interests

- Efficient irrigation technologies (including microirrigation and low pressure center pivot irrigation) and water management BMPs in production agriculture
- Water quality: utilization of impaired waters for irrigation; salinity management water quality protection
- Water conservation and water literacy

Significant contributions to irrigation research and education

- Co-founder and co-manager of the Texas High Plains Evapotranspiration Network
- Developer of irrigation subject matter training opportunities and support materials (curricula, reference notebooks, factsheets, program evaluation surveys, workshops and one-on-one training opportunities) for county extension agents, as well as for targeted and general agricultural/extension audiences

Selected irrigation publications


Professional Experience

Assistant / Associate Professor and Extension Agricultural Engineering Specialist – Water Management, Texas AgriLife Research and Texas AgriLife Extension Service. Lubbock, TX. (Asst. Prof. 1998-2005; Assoc. Prof. 2005-present.)


Assistant Professor, New Mexico State University Department of Civil, Agricultural, and Geological Engineering. 1993-1996.


Education

Ph.D. Agricultural and Biological Engineering, Mississippi State University, 1993

M.S. Agricultural Engineering, Texas A&M University, 1989

B.S. Agricultural Engineering, Texas A&M University, 1987

Professional Licenses and Certifications

Licensed Professional Engineer, Agricultural Engineering, New Mexico State Board of Registration for Professional Engineers and Surveyors, 1995-present.

Professional Societies and Affiliations

American Society of Agricultural and Biological Engineers
Texas Agricultural Irrigation Association