

Brian Boman

University of Florida, Indian River Research & Ed. Center
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AREAS OF SPECIALIZATION

- Development, implementation, and evaluation of agricultural best management practices (BMPs)
- Protected agriculture
- Crop water use
- Effects of salinity on crops
- Agricultural development in third world countries
- Design, operation, and maintenance of irrigation systems
- Water and nutrient management for agricultural crops

EDUCATIONAL BACKGROUND

Institution	Major	Degree	Year
Utah State University	Agricultural & Irrigation Engineering	Ph.D	1985
Colorado State University	Agricultural Engineering	M.S.	1983
North Dakota State University	Agricultural Engineering	B.S.	1976
Northland (MN) Community College	Pre-engineering	A.A.	1972

EMPLOYMENT

Employer	Location	Title	Date
University of Florida	Indian River Res. & Ed. Ctr.	Professor	7/05-present
University of Florida	Indian River Res. & Ed. Ctr.	Associate Professor	9/90-6/05
University of Florida	Indian River Res. & Ed. Ctr.	Assistant Professor	1/86-9/90
Utah State University	Dept. Agric. & Irr. Engineering	Graduate Research Asst.	9/83-12/85
Self-Employed	New Mexico, Utah, Colorado	Water Mgmt. Consultant	12/83-12/85
U.S. Bureau of Reclamation	Farmington, NM	Chief, Consumptive Use	6/79-9/83
U.S. Bureau of Reclamation	Bismarck, ND	Drainage Engineer	2/77 - 6/79
Wahpeton Canvas Co.	Wahpeton, ND	Engineer	5/76-2/77

RESEARCH AND EXTENSION ACTIVITIES

Research activities have been focused in the following major areas; 1) development of water and nutrient management strategies to produce citrus, vegetables, and nursery crops more efficiently with emphasis on factors such as size, quality, and appearance; 2) design, operation, maintenance, and evaluation of irrigation systems; 3) quantifying the effects of salinity on crops and developing methods to manage irrigation utilizing saline water; 4) determining the effectiveness of management practices designed to reduce off site water quantity and quality impacts of water discharges from various land use types (e.g., loadings of nutrients, pesticides, and sediment); 5) evaluating potential crops as feedstocks for ethanol and biofuels under South Florida conditions; and 6) designing, developing, and implementing irrigation, drainage, water supply, and protected agriculture infrastructure in developing counties and training individuals on managing these features to increase water use efficiency, productivity, and profitability while minimizing adverse effects on the environment.

PUBLICATIONS

Over 285 books, book chapters, journal articles, trade magazines, conference proceedings, and extension publications. A publication list is available upon request. Dr. Boman serves on the editorial boards of *Florida Grower* (Meister Publishing Co.), the *Research Journal of Agricultural Sciences* (international), and *Scientific Research* (Jordan Society for Scientific Research). Recent publications include:

- Shao, G. C., B. J. Boman, B. Gruber, P.Kumar, and J. Lu. 2015. Effect of Water and Nutrient Supply on Photosynthesis and Yield of Energy Beet Genotypes. *Trans. ASABE* 58(4): 1027-1034
- Kihupi, N.I., A.K.P.R. Tarimo, R.J. Masika, B. J. Boman, and W.A. Dick. 2015. Trend of Growing Season Characteristics of Semi-Arid Arusha District in Tanzania. *J. Agric. Sci.* 7(9):45-55.
- Shao, Guangcheng, Jintao Cuia, Shuang'en Yua, Bin Lub, Brian Boman, Jihui Dinga, and Dongli She. 2015. Impacts of controlled irrigation and drainage on the yield and physiological attributes of rice. *Agric. Water Mgmt.* 149: 156–165.

INTERNATIONAL ACTIVITIES

Dr. Boman has extensive international experience in a variety of countries including: Mexico, Costa Rica, Nicaragua, Guyana, Puerto Rico, Italy, Egypt, Kazakhstan, Kyrgyzstan, Tajikistan, Serbia, Tanzania, China, Islands of the Bahamas, Dominican Republic, and Haiti. Subjects have included irrigation scheduling; salinity problems; development of water ordering systems; rehabilitation of canals, reservoirs, and regulating structures; operation of irrigation water delivery systems; design of irrigation systems, pump stations, and canals; on-farm and system-wide water management; well installation; fertilization and nutrition management, water quality problems; design and operation of microirrigation systems; water user association development programs; developing research and demonstration farms; and protected agriculture.

PROFESSIONAL ACTIVITIES

- American Society of Civil Engineers, Irrigation and Drainage Division, Environmental and Water Resources Institute
 - Member of Irrigation Water Requirements Committee (serving as Secretary, Vice-Chair, Chair, and Past-Chair)
 - Reviewer for ASCE *Journal of Irrigation and Drainage Engineering*
- American Society of Agricultural Engineers
 - Member, SW-245 Committee (microirrigation)
 - Associate Editor, *Transactions of ASAE*, Soil & Water Division 1995-2003.
 - Reviewer for *Transactions of ASAE* & *Applied Engineering in Agriculture*.
- Reviewer for *Irrigation Science*, *Hort Technology*, *Journal of the American Society of Horticultural Sciences*, *Proceedings of the Florida State Horticultural Society*.

SELECTED HONORS

- ★ Florida Section of the American Society of Agricultural and Biological Engineers. 2014. Distinguished Achievement Award.
- ★ University of Florida Superior Accomplishment Award, Academic Personnel. 2012.
- ★ Florida Section of the American Society of Agricultural and Biological Engineers. 2009. Professional Engineer Award.
- ★ St. Lucie County Florida Soil and Water Conservation District. 2007. Outstanding Conservationist of the Year Award.
- ★ University of Florida. 2006. Art Hornsby Extension Professional Award.
- ★ Florida State Horticultural Society, Citrus Section. 2005. Presidential Gold Medal Award for having contributed most to Florida horticulture industry through work published in the Proceedings of the Florida Horticultural Society for the preceding six-year period in the Citrus Section.
- ★ University of Florida. 2004. Golden Gator award for IFAS publication SP-281, *Water and Florida Citrus: Use, Regulation, Irrigation, Systems, and Management*. B. J. Boman (Ed.). Univ. Fla., IFAS, Gainesville, FL.