

William T. Haller

Program Director and Professor of Agronomy

Center for Aquatic and Invasive Plants

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Educational Experience:

Ph.D. (1974), Agronomy/Statistics, University of Florida , Gainesville , FL

Dissertation Title: Photosynthetic characteristics of three submersed aquatic plants.

M.S. (1971), Agronomy/Botany, University of Florida , Gainesville , FL

Thesis Title: Herbicide evaluation and phosphorus uptake of hydrilla and E. milfoil.

B.S. (1969), Animal Science and Agronomy (weed control in agronomic crops), Cornell University , Ithaca , New York

Current Faculty Assignment:

50% Administration, 30% Research, 10% Teaching, 10% Extension

Professional Experience:

Acting Program Director and Professor (April 2004 - Present) Center for Aquatic and Invasive Plants/Agronomy Department, Institute of Food and Agricultural Sciences, University of Florida , Gainesville , Florida .

Assumed administrative responsibilities for facilities and 20± personnel at the off campus Center for Aquatic and Invasive Plants. This multi-disciplinary center coordinates research and extension activities statewide for UF/IFAS. Developed a new legislative budget initiative and represent UF on several panels and programs throughout the U.S. while maintaining research and teaching responsibilities.

Professor (July 1995 - April 2004) Center for Aquatic and Invasive Plants/Agronomy Department, Institute of Food and Agricultural Sciences, University of Florida , Gainesville , Florida .

Research projects included the determination of toxicity of adjuvants to bluegill and research on exotic apple snail food preferences, as well as control of eggs and adults. Ecological studies on hydrilla and giant cutgrass; and research on herbicide resistance in hydrilla (fluridone) and landoltia (diquat). Screening and selectivity of potential new aquatic herbicides for use against hydrilla. Development and operational research towards aquatic registration of carfentrazone and triclopyr. Evaluation/efficiency of the Kelpin aquatic harvester.

Acting Program Director (July 1993 - July 1995) Center for Aquatic and Invasive Plants/Agronomy Department, Institute of Food and Agricultural Sciences, University of Florida, Gainesville , Florida .

During this time Cooperative Agreements with two federal agencies were re-negotiated and necessary reports were edited. Annual budgets were developed and initial plans for expansion of the Center into terrestrial exotic plant management were developed. Chaired the Search and Screen Committee for selection of a new Center Director and coordinated a Grass Carp Symposium and two annual research review meetings. Served on Vice-President's Everglades Committee and made several oral presentations regarding IFAS' role in aquatic and exotic plant research.

Professor (1985 - July 1993) Center for Aquatic and Invasive Plants/Agronomy Department, Institute of Food and Agricultural Sciences, University of Florida , Gainesville , Florida .

Developed techniques for application of fluridone and other herbicides for more effective aquatic weed control and evaluated weed control technologies in flowing water with the use of dyes. Basic studies in nutrition of water hyacinth, electrophoretic evaluation of aquatic plant species, and continued studies on the control and environmental impact of weed control technologies including drawdown and mechanical weed control. Extension and teaching responsibilities continued as before and by 2002 had supervised the graduate research committees of eleven graduate students. Developed a new undergraduate course entitled "Pests, Pesticides and People" (PLS 2002) which has been taught since 1999.

Acting Program Director (1981 - 1983) Agronomy Department and Center for Aquatic and Invasive Plants, Institute of Food and Agricultural Sciences, University of Florida , Gainesville , Florida .

In 1978, the Florida legislature provided funds and positions to the University of Florida for the construction and establishment of the Center for Aquatic Weeds. During this time period, the Center initiated cooperative research programs with federal and state agencies and developed programs which have led to the establishment of the multidisciplinary Center for Aquatic Plants at the University of Florida .

Associate Professor (1978 - 1985) Agronomy Department and Center for Aquatic and Invasive Plants, Institute of Food and Agricultural Sciences, University of Florida , Gainesville , Florida .

Research projects included biology and physiology of aquatic plants and biological and chemical control of aquatic weeds. Research on the field evaluation and operational use of fluridone for hydrilla control. Cooperative research in evaluation of weed control practices on native fisheries populations and assessment of environmental impact of weed control methods on aquatic ecosystems. Extension aquatic weed control responsibilities continued as before and teaching of PLS 4613, Aquatic Weed Control, was begun.

Assistant Professor (1974 - 1978) Agronomy Department, Institute of Food and Agricultural Sciences, University of Florida , Gainesville , Florida .

Conducted research on chemical and biological control of aquatic weeds and on the physiology of aquatic plants. Evaluation and environmental impact of the grass carp as a biological control agent of submerged weeds. Extension responsibilities included assistance to pond owners and state regulating agencies regarding aquatic weed control and establishment of a biannual extension training short course.

Research Grants:

Research grants of over \$5 million cumulative since 1974 included funding from the U.S. Department of Agriculture, Army, Environmental Protection Agency, and Agency for International Development. State or local agency research grants awarded by Florida Department of Natural Resources, Lake County Water Authority, Florida Water Management Districts, and Florida Power and Light Corporation. Additional funding has been obtained from private foundations and corporations.

Agronomy Department Extension:

Work in association with Invasive Weeds Extension Specialists; includes presentations at short courses, training/certification courses, industry seminars and similar functions. In addition, serve on several committees involved in lake/river/aquatic weed restoration efforts and have advised such corporations as Walt Disney World and Florida Power and Light with regard to specific aquatic weed management problems.

International Travel and Training

The U.S. Agency for International Development through the International Plant Protection Center (IPPC) funded an international assistance and training program at the University of Florida from 1976-1985. As project leader from 1982-1985, major training and assistance programs were conducted in Thailand, The Philippines, Indonesia, Sudan, Egypt, Sri Lanka, Ecuador, Kenya, and other developing nations. Participated in a National Academy of Sciences review team in Sudan and had an audience with the King of Thailand regarding aquatic resource management. Continue involvement in foreign projects with active participation in the European Weed Research Society and with scientists in the United Kingdom and Australia . Most recent

international involvement has been assisting the government of Brazil on weed problems in hydropower reservoirs and assisting USAID with problems in Lake Izabal in Guatemala.

Graduate/Advance Students: Current (Total)

Ph.D. 2 (7); M.S. 0 (5); Committee Member 27; Post Doc/Visiting Scientist: 1 (7)

Professional Society Membership/Service:

Aquatic Plant Management Society

- Board of Directors 1978-97
- Editor 1978-97

Florida Aquatic Plant Management Society

- Board of Directors 1976-80, 2003-06
- Vice-President, President 1977, 1978

Council of Agricultural Science and Technology (CAST)

- Board of Directors 1978-88

Aquatic Ecosystem Restoration Foundation

- Science Advisory Committee 1998-Present

Weed Science Society of America

Honors and Awards

Gamma Sigma Delta Young Faculty Award (UF Chapter)

FAPMS President's Award for Service to Florida's Aquatic Plant Management Program

Professorial Excellence Award, University of Florida

APMS President's Award for Service and Contributions to Profession

Alpha Zeta, Sigma Xi and Gamma Sigma Delta honoraries

American Men and Women of Science

Who's Who in American Science and Technology

Selected Research Publications:

Books (1), Chapters (3), refereed (80), non-refereed (100), extension articles (3).

Koschnick, T.J., W.T. Haller and L. Glasgow. 2006. Documentation of landoltia (*Landoltia punctata*) resistance to diquat. *Weed Sci.* 54:615-619.

Koschnick, T.J., W.T. Haller and G.E. MacDonald. 2005. Turf and ornamental plant tolerances to endothall in irrigation water I. Ornamental species. *Hort Technology* 15(2): 318-323.

Koschnick, T.J., W.T. Haller and A.M. Fox. 2005. Turf and ornamental plant tolerances to endothall in irrigation water II. Turf species. *Hort Technology* 15(2):324-329.

Koschnick, T.J., W.T. Haller and A.W. Chen. 2004. Carfentrazone-ethyl pond dissipation and efficacy on floating plants. *J. Aquat. Plant Manage.* 42:103-108.

Chiconela, T., T.J. Koschnick and W.T. Haller. 2004. Selectivity of metsulfuron methyl to six common littoral species in Florida . *J. Aquat. Plant Manage.* 42:115-116.

Haller, W.T. and R.K. Stocker. 2003. Toxicity of 19 adjuvants of juvenile bluegill sunfish. *Environ. Toxicol. and Chem.* 22(3):615-619.

Fox, A.M. and W.T. Haller. 2000. Production and survivorship of the functional stolons of giant cutgrass, *Zizaniopsis miliarea* (Poaceae). *Amer. J. Botany* 87(6):811-818.

Haller, W.T. 2002. Hydrilla in Lake Izabal , Guatemala , current status and future prospects. U.S. Agency for International Development , Guatemala City , Guatemala . 48 pp.
<http://plants.ifas.ufl.edu/Guatemala.html>.

Stocker, R.K. and W.T. Haller. 1999. Residual effects of herbicide-treated *Eichhornia crassipes* used as a soil amendment. *Hydrobiologia* 415:329-333.

Fox, A.M., W.T. Haller and K.D. Getsinger. 1993. Correlation of endothall and fluorescent dye concentrations following concurrent application to tidal canals. *Pesticide Science* 37:99-106.

Gallagher, J.E. and W.T. Haller. 1990. History and development of aquatic weed control in United States . *Reviews of Weed Science, Weed Science Society of America* . Champaign , IL Vol.5, pp 115-192.