

Patrick Christopher Wilson

Assistant Professor of Environmental Toxicology (60% Research, 40% Extension)



Education

B.S., Ornamental Horticulture, Clemson University, 1991

M.S., Horticulture (Weed Science), Clemson University, 1994

Ph.D., Environmental Toxicology, Clemson University, 1999

Expertise

Fate and effects of agrichemicals in the environment

Research/Extension Program Summary

Programs are focused on water quality and its impacts on aquatic natural resources. Specific objectives include: 1) identification of how horticultural crop production impacts water quality, 2) identification of how negative water quality constituents affect non-target organisms, and 3) identification of strategies to lessen negative impacts on water quality.

Grants (Career total: \$4,480,768)

Active grants:

Funding period	Total Amount (\$)	Funding Agency/Title	Role
2005-08	253,312	SFWMD/ Identification and quantification of selected pesticides entering the St. Lucie Estuary	PI
2002-07	385,632	USDA-ARS / Bioremediation systems to treat nursery runoff	PI
2006-07	56,700	FDACS/Effects of fertilizer rate on N & P leaching for seep and drip irrigated peppers	Co-PI

Peer-reviewed Journal Articles

Wilson, P.C., B.J. Boman, and J. Ferguson-Foos. 2007. Non-target deposition and losses of oxamyl in surface runoff from flatwoods citrus production areas. *Environ. Toxicol. Chem.*26:(in press).

Wilson, P.C. and J. Ferguson-Foos. 2007. Survey of carbamate and organophosphate pesticide export from a South Florida agricultural watershed: implications of sampling frequency on ecological risk estimation. *Environ. Toxicol. Chem.* 25:(in press).

Wilson, P.C., S.B. Wilson, and D. Haunert. 2006. Toxicity of norflurazon to the aquatic macrophyte, *Vallisneria americana*. *J. Toxicol. Environ. Health, Part A* 69:1167-1179.

Wilson, P.C., P. Strimple, S.B. Wilson, and J.P. Albano. 2005. Non-target deposition of methiocarb applied to a foliage plant staging area. *Bull. Environ. Contam. Toxicol.* 74:509-517.

Wilson, P.C., J. Ferguson-Foos, and R. Jones. 2004. Pulsed losses and degradation of aldicarb in a South Florida agricultural watershed. *Arch. Environ. Contam. and Toxicol.* 48:24-31.

Extension EDIS Articles

Wilson C., B. Boman, E. Stover, J. Bargar and J. Hebb. 2006. Flatwoods citrus best management practice: Minimizing direct deposition of pesticides into waterways. EDIS Extension Document SL235.

Wilson C. 2006. Aquatic toxicology notes: predicting the fate and effects of aquatic and ditchbank herbicides. EDIS Extension Document SL236.

Wilson C, L. Scotto, B. Boman and J. Hebb. 2002. Flatwoods citrus best management practice: soil stabilization. EDIS Extension Document SS408.

Wilson C., L. Scotto, B. Boman and J. Hebb. 2002. Flatwoods citrus best management practice: riser-board structures. EDIS Extension Document SS409.