



USDA-CSREES 2006 National Water Quality Conference

[Improving water quality by targeting high-return stakeholders](#)

The long-term goal of this project is to improve water quality in Biscayne Bay Watershed by reducing agricultural nutrient leaching into groundwater through implementation of Best Management Practices (BMPs). To accomplish this, high-return agricultural groups are targeted for implementing irrigation and fertilization BMPs because of their influence on current and future water quality. Project objectives are: 1) develop, support, and market economically viable BMPs to high-return agricultural stakeholders that address regional water resource degradation as a result of over irrigation and nutrient leaching; 2) conduct initial and final surveys to evaluate stakeholder opinion change; 3) provide agriculture stakeholders with information regarding water resources and sustainable agriculture using a variety of methods; 4) develop an economically based watershed plan that is a working document; and 5) develop a guide for Extension and other groups involved with integration of innovative BMPs to growers. Project results will provide information on nutrient leaching from the watershed with and without precision irrigation and precision fertilization practices on high-return stakeholders. This information will be integrated into GIS to predict water quality improvements at the watershed level that would be expected with adaptation of these BMPs.

Author: Kati White

Coauthor(s): Jonathan Crane Yuncong Li Edward Evans Bruce Schaffer Rafael Muñoz-Carpena