

FY05 Region 2 Funded Projects

FQPA/Strategic Ag Initiative Grant Program

Rutgers Cooperative Extension

A Blueberry Reduced Risk Integrated Crop Management System for NJ - \$118,300 for 2 years

Objectives

- 1) Create a Blueberry Reduced-Risk Integrated Crop Management System (BRRICMS) that will demonstrate and eliminate the use of organophosphate and carbamate insecticides for control of insect pests and reduce non-point source pollution in environmentally sensitive watersheds.
- 2) Measure the reduction of organophosphate and carbamate insecticide use through a) actual grower pesticide use records, and b) analysis of fruit and plant tissue residues.
- 3) Develop novel reduced-risk methods to control blueberry maggot and oriental beetle so that they are more affordable for mass adoption by commercial growers, and measure costs through a partial budget analysis.
- 4) Measure the effects on non-target and beneficial arthropods in blueberry fields using reduced-risk and conventional methods.

Regional Pollution Prevention (P2)

IR-4 - Rutgers Cooperative Extension

Enhancing Adoption of Biopesticides through Development of an Online Database - \$75,000 for 3 years

The purpose of this project is to develop a user friendly online database that focuses on biopesticides currently registered with EPA. Product labels will be collected to obtain crops and pest uses which will be entered onto the database. This project will help to fill the lack of information available to growers, county agents, and extension-research personnel on which biopesticides are registered for specific crop-pest combinations. IR-4 will be building on its prior successful biopesticide research projects database and adapting it to crop and pest lists which will have local and national availability through the IR-4 website.

Pesticide Environmental Stewardship (PESP) Regional Initiative Grant Program

University of Puerto Rico Agricultural Extension Service

Development of a Landscape IPM Program in Puerto Rico - \$40,000 for 2 years

The main objective of the project is to produce a Landscape IPM Manual with an electronic presentation for each of the topics covered. The design and development of these educational resources will assist agricultural educators in training landscapers and homeowners to understand and implement effective and environmentally responsible pest management strategies for the protection of ornamental plants, lawn and turf. The outcomes of this project will lead to minimize the impacts of the landscape maintenance on the urban environment, and to reduce the potential for pest problems on ornamentals, lawn and turf. This project will complement an urban tree IPM program, recently awarded by the US Forest Service in Puerto Rico.

Objectives

The goal of this project is to promote the adoption and implementation of effective strategies to reduce the potential for pest problems on ornamental plants, turf and lawn, and to protect the urban environment from unnecessary pesticide applications.

The objectives of this proposal are the following:

1. Create a manual and eight electronic presentations about IPM on ornamental plants, turf and lawn. Educational materials design will include reference material and educational activities to assist agricultural educators in training landscapers, PCO's, and homeowners to understand and implement IPM. The manual will contain all the necessary resources and information needed for a landscaper or homeowner to initiate and carry out an IPM program on ornamental plants, turf and lawn. The manual will include information on:
 - Managing the Pests of Ornamental Plants, Turf and Lawn Using the IPM Approach
 - Growing Healthy Plants, Lawn and Turf
 - Key Pests (The biology, and the risk to plant health of insects, mites and other invertebrates.)
 - Scouting, Diagnosing Pest Problems and Decision Making
 - Insecticide Toxicity and Pesticide Safety
 - Conventional Insecticides
 - Biorationals and Alternative Insecticides
 - Insecticide Application: Equipment, Calibration, and Calculations
2. Offer five regional IPM workshops to train Extension agents, and other agricultural educators related to landscape maintenance industry.