

Northeastern IPM Center Partnership Grants Program

Project Report for Crop Profiles and PMSP's

A. Grant Data

Title: Delaware Information Network for Pesticides and Alternative Strategies

Type: Crop Profile and PMSP

Lead investigator:

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States involved: DE, VA, and NC

Funding Year: 2005 – 6/30/2006

Funding amount: \$27,286

B. Nontechnical Summary.

Crop Profile Updates

Cancelled pesticides were deleted from twelve crop profiles: sweet corn, watermelon, snap beans, lima beans, green peas, green peppers, spinach, squash, potato, apple, peach, and wheat. Extension specialist from the University of Delaware provided input into cancelled pesticides for each commodity. The Project Director, King, researched pesticide labels using Delaware Department of Agriculture web sites and CDMS web sites to ensure that each pesticide was currently labeled for each commodity. King completed the revisions.

Tomato and Snap Bean PMSP's

The Project Director, King, cooperated with the Project Directors in Virginia and North Carolina. Two Workshops for tomato and snap bean PMSP's were held in Exmore, Virginia on April 5-6, 2005 with the Virginia Director taking the lead. King consulted with Extension Specialists in Delaware before the Workshops and compiled a list of pesticides used in Delaware for these commodities. At the workshops, input was obtained from the local agricultural industry. The Virginia Director compiled the Plans which discussed the insect, disease, and weed pests of tomatoes and snap beans. Chemical and non-chemical control measures were listed. Chemical control products were identified according to their category: organophosphate pesticide, carbamate pesticide, B2 carcinogen pesticide and other pesticides. A production timeline was prepared and worker exposure was discussed. Representative costs for commodity production were also given. Efficacy tables for each pest/product were written. The impact of loss of critical control measure was discussed. Education, regulatory, and research needs were identified and prioritized by industry attendees at the workshop and at additional grower sessions held in NC and VA.

C. Objectives.

Objective: Revise Delaware Crop Profiles.

Cancelled pesticides were deleted from twelve Crop Profiles.

Objective: Join VA and NC in writing PMSP's on snap beans and tomatoes.

The VA Project Director completed the final draft for the tomato PMSP. He reports that the snap bean Plan is nearing completion.

D. Approach.

Crop Profile Updates

The DE Pesticide Information Network Advisory Committee met on 11/8/04 and decided that rather than writing a new Crop Profile, the highest priority was to delete cancelled pesticides from posted Profiles. The Project Director, King, compiled a list of all pesticides given in the Profiles. She researched pesticide labels using the Delaware Department of Agriculture web site that lists pesticides registered in the state. She also researched pesticide labels on the CDMS web site to ensure that each pesticide was currently labeled for each commodity. Extension specialist from the University of Delaware provided input into cancelled pesticides for each commodity. The following pesticides were deleted from the Profiles:

Apples: Dimethoate, Thiram, Hopkins Zinc Phosphide Mouse Bait

Lima beans: Penncap-M

Peach: Norosac/Casoron (dichlobenil), Liberty (glufosinate), Milestone (azefenidin), Tennocop (copper salts), Funginex (triforine), Benlate (benomyl), Guthion (azinophos-methyl), Penncap-M (methyl parathion)

Green Peas: Diazinon

Potatoes: Raven (Btt), Di-Syston (disulfoton)

Snap Beans: Diazinon, Penncap-M, Ronilan (Vinclozolin)

Spinach: Dimethoate

Squash: Methoxychlor, Diazinon

Sweet Corn: Diazinon, Cyanazine (Bladex)

Watermelon: Adios, Dibrom, Benlate

Wheat: Captan, Di-Syston

Extension specialist from the University of Delaware also provided input into formulation changes for each commodity. King researched pesticide labels on the CDMS web site to determine the application rate changes for these new formulations. King compiled all information, edited the Profiles and forwarded revisions to the NE IPM Center.

Tomato and Snap Bean PMSP's

The Delaware Information Network Advisory Committee met on 11/8/2004 and discussed PMSP's. The Committee recommended that King ask the Southern

Region if they were doing a tomato PMSP. King contacted the Southern Regional IPM Center and was told that Virginia planned to do a snap bean PMSP and VA + NC planned a tomato PMSP. King talked with organizers, Mike Weaver and Tom Kuhar, about the possibility of joining these workshops. UD Extension Specialists, Kee, Whalen, Mulrooney, Everts, and VanGessel were consulted. It was decided that King would gather input from UD Extension Specialists and attend both workshops representing Delaware. She compiled a list of pesticides used in Delaware for tomatoes and snap beans and asked UD Extension Specialists to review the lists and comment.

King attended the Workshops on April 5 -6, 2005 in Exmore, VA and presented information from DE. Additional Workshops were held in VA and NC to gather additional grower input. Weaver compiled data from the three states and prepared draft Plans.

E. Results.

Crop Profile Updates

King transmitted the twelve revised Profiles to the NE IPM Center for publication on the web.

Tomato and Snap Bean PMSP's

The Tomato PMSP is in final draft. King routed it to UD Extension Specialists and shared their comments with the VA Project Director. The Snap Bean PMSP is nearing completion according to the VA Project Director.