

## **Douglas B. Walsh Ph.D.- A past year report for the FEQL Advisory Board**

I have a split appointment of 75% Extension and 25% Research. I serve as Washington State University's Environmental and Agrichemical Education Specialist, Integrated Pest Management Coordinator (IPM), ex officio Commissioner on the Washington State Commission on Pesticide Registration, State Liaison Representative to the USDA IR-4 Specialty Crops Program, and elected representative from the Western Region State IPM Coordinators to the Advisory Board for the USDA CSREES Western Region IPM Center. I am currently the Chair of WERA-069 (the Western Regional IPM Coordinating Committee). In October 2005, I represented WERA-069 at the USDA National IPM Program Leaders Conference in Washington, DC.

I conduct my research and extension activities in a facility at WSU Prosser I named the *Environmental and Agricultural Entomology Laboratory* (EAEL). In 2005 my MS student Chase Metzger graduated. He now has received a position as an Agricultural Research Assistant with Dr. Kim Patton at WSU Long Beach. My Ph.D. student Tim Waters was recently advanced to candidacy and he has recently accepted the Area Extension Educator position for vegetable and field crops for Benton and Franklin Counties. I am currently recruiting another Ph.D. Student. I also serve on the dissertation committees for 4 additional Ph.D. students in Entomology and one Ph.D. student in Animal Sciences. I supervise Dr. Holly Fergusson, the Extension Coordinator Specialist for IPM and Mr. Ron Wight the Field Research Director for the WSU/USDA IR-4 Specialty Crops Magnitude of Pesticide Residues program. I also financially support 50% of Sally Coates salary. Ms. Coates is the Extension Outreach/ Communication Specialist for WSPRS and the EAEL. In 2005 I was Principal Investigator on over 20 proposals that were funded for approximately \$325,000. I am also a collaborator on a substantial number of other projects as well.

My direct Washington-State commodity-based support comes from a number of sources including tree fruits, mint, timothy hay, carrots, juice grapes, wine grapes, alfalfa seed, hops, and ornamentals. In 2005 I used grants received from these groups to leverage an additional \$105,000 from the Washington State Commission on Pesticide Registration. In 2005, I received several multi-year grants from agencies including the Western Region IPM Special Research Grants Program for \$42,000 for research on pests of cool season grasses, the Washington State Department of Ecology for \$50,000 for alternatives to agricultural burning, and a grant from the USDA Risk Management Agency for \$385,000 to conduct research and Extension on internal and external pests of beef cattle. This cattle grant provides for funding for 2 Ph.D. GRA's (stipends and tuition) for 3 years. Using this grant as leverage, I successfully competed for one of the WSU Agricultural Research Center's 0.25 FTE Graduate Research assistant awards. This award from the ARC will begin in fall 2006 and continue for 2 years. In 2005 I had grants funded with 6 County-based Extension Educators.

In 2005 I was the author of 2 published refereed articles, and an additional 5 that were submitted for review in late-2005 for potential publication in 2006. In 2005 I was a coauthor on 1 extension bulletin, 22 non-refereed technical publications, 13 abstracts, and 6 commodity commission reports. I gave over 55 extension presentations and can document over 4,000 contact hours.

My recent research on cutworm control on grapes has reduced the use of chlorpyrifos on grapes by over 17,000 lbs. active ingredient per year. The savings from pest management tactics I developed for cutworm control on grapes exceeds \$7 million annually. My research on developing seed treatments with chloronicotinyl insecticides on carrots for seedcorn maggot control has reduced the use of diazinon by 9,000 pounds per year in Washington State. Carrot growers in Kern County, California have adopted the controls I developed and have realized substantial reductions in organophosphate too. My collaboration with John Brown has reduced the use of chlorpyrifos and endosulfan by 54,000 pounds and 4,000 pounds, respectively in PNW poplar plantations.

In 2005 I was selected to serve on Executive Committee for the Pacific Branch of the Entomological Society of America (ESA). At the PBESA annual meeting on Maui this past March, John Brown and I received the IPM Team Award. I also received the ESA award for Excellence in Regulatory Entomology and I have been nominated for the ESA Award for Excellence in Ornamental Entomology in 2006.