New York State IPM Program Highlights, 2015

Community: School IPM

- We partnered with the state departments of health and education and the state association of school facilities managers to survey public schools about pest management policies and practices. http://www.nysipm.cornell.edu/publications/school_survey/school_survey2013.pdf
- We're finalizing a School IPM Assessment tool that enables school officials to quickly and accurately assess their pest management practices.
- We developed Best Management Practices for schools in the Northeast. www.northeastipm.org/bmps-for-school-ipm/
- We created *The ABCs of School and Childcare Pest Management Blog* with unique content as well as links to existing IPM resource.
- We participate in a NYS and regional project to evaluate the efficacy of repetitive overseeding for weed management on playing fields.

Community: Homes, structures, and golf courses

- A total of thirteen videos on rodent biology and management, bed bug awareness, mosquito management, stinging insect management and workplace pest prevention were posted to the NYS IPM Program's YouTube Channel (youtube.com/NYSIPM).
- Ten illustrated fact sheets and five online presentations, in both English and Spanish, were created using images and few words to communicate information about bed bug management and prevention.
- We organized and facilitated a session for the 8th International IPM Symposium entitled "Increasing Connections between IPM and Wildlife Damage Management" and published them in a wildlife management journal.
- We developed an Urban IPM Short Course for pest management professionals.
- NYSIPM helped create a comprehensive guide: *Best Management Practices for Golf Course Water Quality*. http://nysgolfbmp.cals.cornell.edu/, and a self-assessment tool.
- We developed an IPM Image Gallery, linked to management info, www.flickr.com/photos/99758165@N06/.
- We surveyed pollinators at a Bethpage State Park (Long Island) golf course.
- We're evaluating exterior exclusion for BMSB management in a 3-story garden apartment building.

Vegetables

- Trials examining the efficacy of insecticides and fungicides allowed for organic vegetable production have found products that control two serious pests: squash vine borer and swede midge, for which organic farmers had not previously had solutions.
- A survey of users of the information generated by the sweet corn pheromone trap network reveals that 57% of respondents felt they would need to spend more time scouting and 35% thought they would have more worms at harvest if the trap network information was not available. Fifty eight percent of growers indicated that their sweet corn is being scouted, which indicates to us that additional educational programming could increase the level of IPM adoption.
- Sweet corn IPM demonstrations helped an organic sweet corn grower reduce worm infestation levels at harvest from 25% the year before we worked with him to less than 5%, convinced a skeptical grower of the value of having trap information, scouting, and following thresholds, and helped two growers manage western bean cutworm, a new invasive pest of sweet corn that is just reaching damaging levels. We will share these results with other sweet corn growers to help the levels of IPM adoption in sweet corn.

Fruit crops and hops

- From a network of 107 traps for the SWD, we generated maps www.eddmaps.org/swd/ and a blog blogs.cornell.edu/swd1/ to alert growers.
- The grape berry moth degree day tool for forecasting IPM needs, available on our weather network (NEWA), was beta-tested in daily email alerts sent to 46 growers.
- We're researching Hops IPM and published an IPM Hops Production Guide.
- Surveys at 2015 LERGP Coffee Pot meetings show 66% of participants access NEWA for weather and grape pest model information. 54% of survey participants reported they improved profitability from $1 - $50 per acre (31% $1 -$25 and 23% $26 - $50 per acre) by reducing sprays or through increase yield per acre and/or improved crop quality by implementing the information found on NEWA.

Ornamentals

- **Greenhouse Scout App.** A mobile application for Apple and Android phones and tablets that provides biocontrol information combined with an interactive scouting system
- Alternatives to Invasive Species Brochure: Brochure: nysipm.cornell.edu/nursery_ghouse/invasive_plants.asp.
- IPM Blogs for Greenhouses, Christmas Trees, Ornamental Nurseries and Sod
- We're running trials of biopesticides for greenhouse use

Livestock and Field Crops

- Weekly monitoring of western bean cutworm (WBC) was conducted at 97 locations in 41 counties. Populations of this new pest of corn and dry beans are increasing, particularly in northern NY. Incidental WBC damage to untreated sweet corn and dry beans reported.
- Updated IPM Guide for Organic Dairies is available on-line http://www.nysipm.cornell.edu/organic_guide/dairy_org_guide.asp
- We created and posted a Soybean Aphid IPM course online, http://coursem.cce.cornell.edu/

Environmental Impact Quotient (EIQ)

- We maintain the EIQ by adding new pesticides regularly, and updating old EIQ values when new data becomes available

NEWA

- Our Network for Environment and Weather Applications (NEWA) expanded in the Northeast region with 5 other states joining the network. We've improved access for smart phones, increased the number of weather stations in the network by 10%, and implemented over 40 crop production, plant disease, and insect IPM Apps.

25B Pesticides

- We've created profiles on each of the EPA's 25B exempt pesticides that include a summary of uses, hazards, and efficacy information. They will be posted and publically available n early 2016.

Budget-related Information:

In 2015-2016 NYSIPM received $500,000 in state funding for Agricultural IPM, and $550,000 for Community IPM. Ag levels are still one half of historic levels. We were awarded $855,000 for CPPM-EIP (2014-2017). We offered a mini-grants program in Community IPM and funded 6 projects in 2015. Reports from these and our staff projects are posted at http://nysipm.cornell.edu/grantspgm/projects/ .