

FY 2013 Extension IPM Program, New Hampshire
Alan Eaton, Statewide IPM Coordinator

Again we funded our work by a combination of federal (NIFA IPM Coord & Support) and state (NH Dept Agr Mkts & Food) IPM grants, in combination with other state funds. This year I heavily emphasized monitoring blacklegged tick, to improve our understanding of its abundance and distribution in the state. NH has the highest incidence of Lyme disease in the nation (Maine & VT are #'s 2 & 3) and is high on the list for Anaplasmosis and Babesiosis. All are spread by blacklegged tick (BLT). We added nearly 150 records to our BLT database, and partnered with NH Division of Health & Human Services to begin testing our samples for pathogens. This emphasis continues in 2014.

In crops, we emphasized spotted wing drosophila work, and dramatically reduced the losses from this new insect. In 2012 it caused \$1.516m in NH crop losses. We (New England small fruit IPM workers) collaborated on monitoring and planning in both 2012 & 2013. In 2013, this resulted in changes in trap design, bait, and deployment, that greatly improved the efficacy of monitoring & prediction of threat. Again we had a major effort in monitoring the insect on 20 farms in seven counties. The 2013 crop losses dropped by almost 2/3, to \$529,000! I heavily attribute this success to hard work and collaboration among extension and research staff in the region.

We expanded our sweet corn and squash vine borer monitoring northwards, to include sites in Grafton, Sullivan, and Carroll counties. Growers reduced sweet corn spraying statewide by \$105,000 and reducing culling by \$35,000. Statewide cucurbit spray savings were low (\$5,000).

We continued apple IPM monitoring and information delivery, and saw the statewide incidence of pest injury rise to 6.73%, largely due to apple scab problems in a rainy season. Still, apple growers saved \$124,000 (compared to pre-IPM levels) through a combination of reduced spraying and reduced crop injury.

We continued the tri-state (VT/NH/ME) greenhouse IPM workshops, but otherwise de-emphasized greenhouse work this year.

We completed our statewide survey of yellow rattle (a weed parasitic on grasses) and published the results in a fact sheet http://extension.unh.edu/resources/files/Resource002756_Rep4057.pdf on our website. Other new publications: Managing Voles in Orchards and Highbush Blueberries http://extension.unh.edu/resources/files/Resource003424_Rep4893.pdf, Magnifiers and other Visual Aids for Insect Monitoring http://extension.unh.edu/resources/files/Resource003343_Rep4814.pdf, Not quite completed yet: Beneficial Insects in NH Gardens and Farms.

Alan Eaton and George Hamilton lead the IPM work, along with pathologist Cheryl Smith, vegetable specialist Becky Sideman, scout Linda Kuhnhardt and other extension staff.