including a first report of stripe rust for NE. Informational materials were distributed to 500 growers through the Northern Grain Gros/erssociation newsletter and our website.

- x A field day held at Borderview Research Farringhlighted grain production and research. Leaf diseases and FHB issues were highlighted. Factsome static rust and info were distributed to 75 attendees.
- x Leaf diseases of perennial grass hay crops were assessed during the summer and fall on two grass species/cultivar trials.
- x A winter meeting in 2013 was held to highlights as issues in corn, soybeans and grass hay crops. Leaf blights and molds as well as grasswere the focus of the presentation. There were 82 attendees at the day- long workshop.

Consumer IPM

Ann Hazelrigg and Heather Carrington

- x Master Gardener Course 160 students are **dlyræm**rolled in the 13 week Master Gardener course. Three lectures specifically dedicated to basic IPM topics have been provided: Plant Pathology & IPM and Soil Science and Composting and Entomology.
- x Master Gardener Helpline Between ApribaDecember of 2013, 159 plant disease and insect specimens were routed through the helpline dentification and IPM recommendations. During 2013, the Helpline volunteers assisted 1 collaborations with home horticulture questions, and answered 315 emails, using IPM as their guidingciple. Two advanced IPM trainings were provided for the Helpline volunteers and two newinting webinars were provided and archived on the master gardener website for all volunteers.
- x Master Gardener Outreach In 2013, there over 700 active EMG volunteers in Vermont who volunteer in a variety of vetted, science-based outreach programs all with a strong educational component based on IPM principVersunteers have repterd 12,485 hours of education provided across the state. The vaf these hours is \$276,418 (based on the Independent Sector valuation of a volunteeur). These EMG volunteers are active in the state forming connections and linkages with schools; caugtural fairs, farmers markets, community gardens, prisons, libraries, hospitals, condociations and garden centers. They educate Vermonters about garden and landscape pest intertion and management using IPM strategies. The Senior/Key Person and MG Outreactor estimation have provided three advanced IPM training webinars to continue to meet theeds of these stateder communities.
- x Master Gardener websiteThis website serves as a site for consumers and gardeners to access current and emerging insect and disease information on a timely basis. This is an impactful forum used to deliver new IPM pest factsheets on **prob** important to consumers including spotted wing drosophila, impatiens downy mildew, lategible, etc. Both basic and advanced IPM topics are addressed.
- x Development of new email template In 20the EMG Helpline volunteers began fielding email questions sent to the state office with a

science, 41% of survey respondents reported that will have a soil test done this year, 38% reported that they will compost this year, and 67% do not use any pesticides in their gardens.

Specialty Crops-Greenhouse IPM Margaret Skinner and Cheryl Frank

- x 10 commercial greenhouse operations received on the network of t
- x New IPM practices were adopted by participantse of sticky cards, trap plants for early pest detection, routine scouting, banker plants fotural enemies, sanitation and rouging of infested plants and refinement of biologication and pesticide programs.
- x The number of applications of chemical pestesion ade by participating growers was reduced at all locations. Growers relied more on biological control or spot sprays.
- x All growers participating in the program usedneoform of biological control. Growers at 3 operations switched from a conventional chemical

- x <u>Organic Apple IPM observations</u> were distributed 0 organic apple newsletter issues to over 100 organic stakeholders during the past yearærchived on the Organic Apple IPM website where they had an additional 313 visits.
- x Updated and maintained the Organic Aple Website which had 215 new visits and incorporated IPM information into a newdleveloped Practical Guide for Organic Apple Production which had 1084 new visits by stakeholders.
- x Organic and IPM Apple Demonstration Orchards were maintained and used as a resource for educational purposes.
- x Provided 64 one-on-one consultations growers' apple IPM questions by phone, email, or in-person.
- x Evaluation and Impacts; Recent survey of growers revealed 88% would adopt reduced-risk IPM strategies as a result of the Apple IPM Program.

Specialty Crops-Cold Climate Grape IPM Program Lorraine Berkett and Terence Bradshaw

- x 9 issues of the <u>Grape IPM Upd</u>ate were writted disseminated during the reporting period to over 200 growers who subscribed to the Graph email listserve, and archived on the Cold Climate Winegrape IPM website where they had additional visits. 36 additional posts made to mailing list on IPM and production-related topics.
- x Updated and maintained the Grape IPMossite pages which bla284 new visits.
- x Provided 35 one-on-one consultationegarding grape growers' IPM questions by phone, email, or in-person.
- x Evaluation and Impacts; Recent survey (2012) of growers revealed 87% would adopt a new IPM practice as a result of the Grape IPM Program.