

**Michigan State University IPM Program
Featured 2016 Impact for NCERA-222**

Submitted by Joy Landis, Asst. IPM Coordinator
March 2017

Accomplishment:

Michigan State University – The IPM Program collaborated with MSU Extension educators, researchers and specialists to address rising concerns with pest management in Michigan vegetable production, which is seventh in the nation and was valued at \$463 million in 2012 (Census of Agriculture). Cover crops are being evaluated as a sustainable practice for reducing disease, weed, insect and nematode pressure in a number of vegetable crops including asparagus, carrots and squash. Information from these studies was disseminated through demonstrations, field days, workshops, news articles, a journal article (Journal of Nematology) and a video.

Impact:

Michigan State University – Our IPM program is providing vegetable producers with sustainable alternatives using cover crops within a framework of integrated pest management. We produced a video on mustard cover crops for biofumigation (<https://youtu.be/jePUyzjXlmw>) that has been viewed over 1,200 times. We also hosted eight breakfast meetings for vegetable crop consultants who scout a combined 3,000 acres. These meetings featured IPM discussions on diseases, insects, nematodes, weeds and resistance. Of survey respondents (n=46), 93% said they used information from at least one breakfast to advise their clients. A survey of 150 participants at another event, the 2016 Asparagus Field Day, found that 80% (n=35) responded positively to the question “Did you learn anything today that you, or your clients, will use in 2016 to increase yield or quality of asparagus?” At the Bay Area Vegetable Grower Meeting, cover crops for weed control in vegetables was presented to 41 growers and 14 other participants. For this session, 42% (n=12) of respondents said they would use the information on their farm or to advise their clients. We also presented research on cover crops and nematodes at the Great Lakes Fruit, Vegetable and Farm Market Expo to 40 participants. Only four responded to the survey, but all said yes to “Did you learn anything that you can apply on your farm next year?”