Integrated Pest Management

While every farming system is unique, the principles of integrated pest management (IPM) apply universally. NCR-SARE funds projects on ecologically-based pest management strategies that farmers throughout the region are using to address pest problems. This investment in pest management strategies helps develop more complex, diverse ecosystems in the region.

NCR-SARE Project Sampler

To view SARE’s entire IPM portfolio, or just the North Central Region’s, visit https://projects.sare.org. For selected NCR-SARE IPM grants, see the reverse side.

Bacterial wilt has cost curcurbit growers more than $13 million annually. Researchers at Iowa State University assessed perimeter trap cropping and delayed removal of row covers which encouraged potential for control of bacterial wilt on muskmelon with less reliance on insecticides. See https://projects.sare.org and search for project number LNC10-323.

Missouri producers experimented with trap crops and chickens to control squash bugs for their vegetable produce business. The addition of the perimeter trap crops also brought in a number of beneficial insects to their farm. See https://projects.sare.org and search for project number FNC13-938.

A graduate student at the University of Minnesota established mixed vegetable crops adjacent to native prairie plots to promote beneficial insects. See https://projects.sare.org and search for project number GNC16-229.

Cucumbers are a widely grown crop of the North Central region, yet they are also one of the most likely to face pollination and biological control deficits. This project focused on attracting natural enemies and pollinators with flowering cover crops in the field. See https://projects.sare.org and search for project number GNC14-194.

SARE’s four regional programs and outreach office work to advance – to the whole of American agriculture – innovations that improve profitability, stewardship and quality of life by investing in ground-breaking research and education.
**Research and Education Grants**

**Optimizing Row Covers and Perimeter Trap Crops for Cucurbit Pest Management**
Mark Gleason, Iowa State University, Iowa, LNC10-323, $174,462

**Suppression of Soybean Diseases through the Use of Cover Crops**
Darin Eastburn, University of Illinois, Illinois, LNC10-321, $174,823

**Professional Development Grants**

**Training an Influential Network of Farming Beekeeping and Extension Experts to Promote Bee Health**
Rebecca Masterman, University of Minnesota Bee Squad, Minnesota, ENC17-160, $75,000

**The Conservation Biological Control Short Course**
Eric Mader, Xerces Society, Minnesota, ENC13-140, $71,710

**Enhancing Integrated Pest Management Academy to Provide Professional Development Opportunities for Agricultural Educators that Increase Economically and Environmentally Sustainable Agriculture in Michigan**
Erin Lizotte, Michigan State University Extension, Michigan, ENC12-130, $72,484

**Graduate Student Grants**

**Breeding Strategies for Improving Resistance to Gastrointestinal Nematodes in Wool Breeds of Sheep**
Kathy Bielek, Misty Oaks Farm, Ohio, FNC10-794, $17,640

**Farmer and Rancher Grants**

**Chickens and Trap Crops-An Integration of Sustainable Approaches to Insect Pest Control in Vegetable Production**
Gary Wenig, Rocky Creek Valley Farm, Missouri, FNC13-938, $6,462

**Michigan Organic Hops Production: Utilizing Current IPM Models to Investigate Biocontrol Effectiveness on Hops Pests and Diseases in an Organic Production System**
Bonnie Steinman, Hop Head Farms, Michigan, FNC10-804, $5,993

For information on more SARE-funded IPM projects search the SARE project database: https://projects.sare.org.

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