





Image Credit: Michigan State University



Image Credit: Michigan State University

The IR-4 Project has a 60-year track record of impact

facilitating pest management solutions for specialty crops and specialty uses. According to a 2022 economic analysis, IR-4 contributes an estimated **\$8.97 billion** to the annual U.S. gross domestic product. **Seven jobs can be attributed to every \$1000** of public investment in IR-4.

By facilitating EPA registration of safe, effective pest management products and technologies, IR-4 helps specialty crop growers access the tools they need to produce healthy, abundant harvests—including fruits, vegetables, nuts, herbs and horticulture crops.

IR-4's federally-funded research evaluates various pest management strategies—including reduced-risk chemical products, bio-based pesticides, emerging technologies, and integrated solutions to serve both conventional and organic production systems.

IR-4's North Central Region (NCR), based at Michigan State University, is one of four regional offices. With its temperate climate, ample water resources, well-established processing facilities, and proximity to major markets, this region excels in the diversity of specialty crops produced.

The NCR team works collaboratively with stakeholders to identify and prioritize pest issues, and secure tools to help midwestern agriculture thrive.

Have a pest problem (or solution) in mind? Anyone may submit a Project Request to IR-4. Projects are prioritized by stakeholders through a participatory, national research cycle that begins in the regions. The NCR team can help you submit a Project Request (see reverse for contact information).

The IR-4 North Central Region Includes:

North Dakota, South Dakota, Nebraska, Minnesota, Iowa, Kansas, Missouri, Wisconsin, Illinois, Michigan, Indiana, and Ohio

Key Crops of the North Central Region:

Apples, asparagus, beans, beets, blueberries, celery, tart cherries, cranberries, pickling cucumbers, ginseng, hemp, hops, mint, onions, peas, potatoes, ornamentals and more



North Central Region Highlights

The NCR team has secured strategies for many pressing regional pest issues, including:



Downy mildew on cucumbers

Image Credit: Michigan State University



Spotted wing drosophila on fruit crops

Image Credit: NC State University



Botrytis on greenhouse ornamentals

Image Credit: Michigan State University



Rusty root on ginseng
Image Credit: NC State University

Have a pest management problem (or solution) in mind?

Connect with the NCR team to get involved, submit a Project Request, or seek assistance:

Michigan State University Plant and Soil Sciences Building, Room A448 1066 Bogue St. East Lansing, MI 48824 Regional Field Coordinator Nicole Soldan (517) 353-0416 schroe65@msu.edu



Scan to visit the IR-4 North Central Region website.

To learn more, check out ir4project.org.



This material is based upon work that is supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, under award numbers 2022-79111-38469 and 2021-34383-34848 with substantial cooperation and support from the State Agricultural Experiment Stations, USDA-ARS and USDA-FAS. In accordance with Federal Law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age or disability.

^{*}Click on the images above to learn more about each IR-4 success!