



# How IR-4 Helps New Mexico Growers



## A Proven Program with Proven Results

Since it has been established, IR-4 research has supported more than 24,000 food and ornamental horticulture use registrations. Also, according to the Center for Economic Analysis at Michigan State University, "when considering direct, indirect and induced effects, the IR-4 Project contributes nearly 7 billion dollars to annual US GDP."

IR-4 research activities are predominantly funded through annual Congressional Appropriations (\$12.18 million USDA-NIFA, \$4 million USDA-ARS). Conducting this research is becoming more and more costly due to inflation and the complexity of analyzing new reduced and lower risk chemistries. It is also becoming more challenging and costly for IR-4 to meet EPA data requirements. For IR-4 to maintain its current level of high productivity, funding needs to increase. There is no other program or organization doing this work. If IR-4 doesn't do it, no one else will.

Specialty crop growers believe that without adequate funding to support IR-4's research on safe, effective pest management solutions, our domestic harvests are in jeopardy... which means more imports and higher prices at the grocery store.

## Please Help IR-4 Continue to Assist Specialty Crop Growers by:

- letting IR-4 know your pest management needs
- participating in IR-4 sponsored research
- supporting adequate funding at all levels (industry, university, and government)



## Annual National IR-4 Funding

<b>Direct Support</b>	\$12,180,000
USDA-NIFA (Improved Pest Management*)	
USDA-ARS	48 \$ 1,100,000
USDA-FAS (TASC Grant) USDA-	\$ 500,000
APHIS (Invasive Species) Hatch	\$ 172,000
Grant (Multi State Research)	\$
Dept. of Defense/USDA-ARS (Public Health)	\$ 250,000
Industry Grants	\$ 1,100,000
	~\$10,000,000
	Over \$18 million direct

## In-Kind Support

Land Grant Universities and/or	
State Agriculture Experiment Stations	
Crop Protection Industry	~\$ 3,000,000
Regulatory Authorities (EPA, CA-DPR)	~\$ 4,200,000 ~\$
Agriculture and Ag-Food Canada	800,000
	Indirect contributions at least \$18 million

\*IR-4 is one of several programs within USDA-NIFA (Improved Pest Management)

## Contact Us...

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# About IR-4

The IR-4 Project is a cooperative effort charged with assisting specialty crop growers in solving pest management problems. Specialty crop growers are faced with multiple pest management challenges as they grow New Mexico's multi-million dollar harvest of nuts, and vegetables along with a bevy of ornamental horticulture crops from chrysanthemum and poinsettia to landscape trees and plants. The unique nature of New Mexico's intensive specialty crop production necessitates the development of important new pest management products. IR-4's mission is to address the needs of high value low acreage crop growers that are not otherwise addressed. About 80% of IR-4 research projects are conducted on reduced-risk chemistries and biopesticides that fit well into Integrated Pest Management (IPM) systems.

## Who Benefits From IR-4 Activities?

New Mexico growers benefit by having effective pest management tools that enable them to produce a plentiful supply of high quality food and ornamental horticulture crops. This in turn benefits the general public, food processors and other related industries which are provided with a safe, high quality, economical supply of food and horticulture crops.

## Working in Cooperation

IR-4 works in cooperation with New Mexico State University, the State Agricultural Experiment Stations, and Land Grant Universities, USDA-National Institute of Food and Agriculture (NIFA), USDA-Agricultural Research Service (ARS), USDA-Foreign Agricultural Service (FAS), US EPA, and other regulatory agencies, growers and commodity organizations, and the crop protection industry.

## How IR-4 Helps Growers

When a pest is discovered or new pesticide use is needed on a specialty crop, growers, extension agents and researchers are encouraged to submit a project request to IR-4.

## Once Needs are Identified

- Industry is consulted for project support
- Projects are prioritized
- Research is conducted

## IR-4 Generates Data for...

### Food Use

- Residue data from research trials are compiled and submitted to the EPA for review and establishment of pesticide tolerances
- The manufacturer adds the use to the label

### Ornamental Horticulture

- Efficacy and crop safety data are compiled into research summaries which are sent to manufacturers
- Manufacturers review summaries and incorporate into technical literature and product labels

## Outcome:

Healthier crops are produced and crop protection issues are resolved.



# Helping New Mexico

## IR-4 Helps Food Crop Growers

New Mexico fruit and vegetable growers annually produce about \$195 million worth of crops for US and international markets (2007 USDA-NASS Census of Agriculture). Healthy crops are critically important to specialty crop growers. IR-4 has responded to hundreds of requests from New Mexico for registration of pest management products on food crops. By developing required data, thousands of new product uses have been registered that support New Mexico growers.

## IR-4 Helps Ornamental Horticulture Growers

with shade trees, annual flowering plants, geraniums, flowering trees, shrubs, perennial plants and conifers.



IR-4 researchers in New Mexico have worked with these and other crops grown by New Mexico growers, who produce \$57 million (2007 USDA-NASS Census of Agriculture) in annual ornamental horticulture sales.

## The IR-4 Biopesticide and Organic Support Program Helps New Mexico Growers By

providing resources that promote the use of biopesticides along with traditional IPM. The IR-4 Biopesticide and Organic Support Program was expanded recently to include the development of new tools for organic growers.

## IR-4 Public Health Pesticides Program (PHP)

Initiated in 2009, the IR-4 PHP program is a partnership of USDA-ARS, the US Department of Defense and IR-4. It was created to facilitate development and registration of toxicants, repellents and attractants to manage public health pests such as mosquitoes, ticks, sand flies and to protect military personnel from arthropod borne diseases.



**“The IR-4 Project is a proven, cost-effective way to provide safe, new pest control options for specialty crops. These tools allow New Mexico producers to remain competitive in a global market.”**

**— Dick Salopek, President  
4MP Farms, Las Cruces, NM**