

Purdue Agriculture Makes a Difference in Indiana

Purdue Agriculture research and Extension programs funded through National Institute of Food and Agriculture (NIFA) programs, including the Smith-Lever Act, the Hatch Act, McIntire-Stennis, and the Agriculture and Food Research Initiative (AFRI), have direct and significant benefits for the people of Indiana and Indiana's agriculture industry.

Current Purdue (Fiscal Year 2021) funding from these sources:

Smith-Lever (Extension).....	\$9.6M
Hatch (Research).....	\$5.5M
Agriculture and Food Research Initiative (Competitive Grants).....	\$7.8M
McIntire-Stennis (Forestry Grants).....	\$594K
SNAP-Ed (Extension)	\$5.8M

Examples of the Impact of Purdue Extension:

- The **Purdue Extension Unmanned Aerial Vehicle (UAV Technology)** program has opened the doors for college-level students, farmers, emergency responders, electricians, and others in obtaining their Federal Aviation Administration Remote Pilot Certificate. Purdue Extension has also developed and implemented a digital agriculture curriculum to enhance high school students' skills with technology. Six schools in the state have implemented the curriculum and more intend to adopt by fall 2022.
- Purdue Extension offers the **Mental Health First Aid (MHFA)**, an 8-hour, evidence-based program that teaches participants how to recognize common mental health signs and symptoms, how to approach someone experiencing a crisis, and where to direct someone for local resources and help. Purdue Extension has trained 1,550 Mental Health First Aid graduates to date.
- The Indiana 4-H program is partnering with the Indiana Manufacturing Competitiveness Center to develop digital skills among youth statewide through computational thinking, coding skills, and advanced technologies. Purdue Extension is placing **Design & Innovation Studios** in Marion and Crawford counties to introduce these skills to more youth.



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Examples of NIFA-funded Research:

- Tar spot is an emerging disease in Indiana’s corn crop. Researchers in Purdue’s Botany & Plant Pathology department are looking how it spreads in a field and the optimal timing of fungicide application to help Indiana farmers effectively manage the disease.

*This research is supported in part by the **Hatch Act**, which provides **capacity funding** to support State Agricultural Experiment Stations for applied research to address critical national, multi-state, state and local problems. Hatch funds help faculty secure additional competitive funding.*



- Bovine respiratory disease, one of the most prevalent and costly illnesses in the beef and dairy industries, affects approximately one in five beef and dairy cattle in North America and costs producers as much as \$900 million a year. Quickly diagnosing the illness could improve animal well-being and save producers significant money. Dr. Mohit Verma is developing technology to reduce diagnosis time from 4 or more days to about 30 minutes.

*This research is supported in part by **AFRI**, which provides **competitively awarded research**, Extension and education grants addressing key issues of importance to agriculture and forestry.*



- Tree species diversity is key to maintaining healthy, productive forests. A worldwide collaboration of scientists, including researchers in Purdue’s Forestry & Natural Resources department, produced the first ground-sourced data estimate of the total number of tree species on Earth and found that the United States has about 1.6 percent of the world’s tree species, amounting to a total of 1,200.

*This research is supported in part by **McIntire-Stennis**, which provides **capacity funding** to support forestry research at land-grant and other public universities.*



Highlights from Purdue College of Agriculture

**96% of graduates
employed within
6 months of graduation**

**#4 in US
#8 in the World
Agriculture and Forestry**

**622,000 people reached
through in-person and online
Extension events in 2021**



Learn more about our work at: www.ag.purdue.edu and www.extension.purdue.edu

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