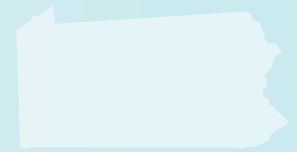




USDA research is working for Pennsylvania



Supporting innovation

In FY 2015, Pennsylvania received **\$6.1 million in new grants** from the Agriculture and Food Research Initiative (AFRI).

Researchers at **Pennsylvania State University** are using AFRI funding to study how N₂O is distributed along surface and deep soil layers to improve our ability to predict fluxes of N₂O into the atmosphere.

AFRI funding is being used to study how legume cover crops increase soil organic matter, decrease erosion and reduce nutrient losses.

Supporting small business

From 2006-2015, Pennsylvania small businesses received more than **\$5.5 million in grants** through the Small Business Innovation Research program within USDA

In Malvern, **BioChemInsights, Inc.** is using an SBIR grant to optimize a novel process for producing bio-butanol that can significantly increase the yield of bio-butanol from cellulosic raw materials.

Economic Impact



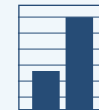
In 2014, agriculture and related industries added **\$985 billion** to the U.S. gross domestic product (GDP).



Agriculture exports hit a record high of **\$150 billion**, or 9% of total U.S. exports, in 2014.



In 2014, 17.3 million full- and part-time jobs were related to agriculture – **about 9.3% of total U.S. employment.**



U.S. public investments in agriculture research and development produce **benefit-cost ratios of 20:1 and higher**

Pennsylvania Agriculture

58,800 farms

\$7.4 billion in commodities

\$2 billion in agricultural exports

143,225 jobs



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