



# USDA research is working for California

## Supporting innovation

In FY 2014, California received **\$23 million in new grants** from the Agriculture and Food Research Initiative (AFRI)

AFRI funding is being used to identify and characterize the proteins secreted by the *Ca. Liberibacter* bacteria to develop a portable biosensor that would provide simple, rapid and low cost detection of citrus greening disease.

Researchers at **University of California, Davis** are studying how water quantity and quality in the San Joaquin Valley could be impacted by changes in temperature and precipitation to determine the efficacy and cost effectiveness of different adaptation strategies.

## Supporting small business

From 2005-2014, California small businesses received more than **\$20 million in grants** through the Small Business Innovation Research program within USDA.

The western pine beetle (WPB) is the most destructive insect pest of ponderosa pine. In Riverside, **ISCA Technologies Inc.** is using an SBIR grant to identify a pheromone that, when applied to ponderosa trees, disrupts host-finding behavior in the WPD providing infestation protection.



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In 2013, agriculture and related industries added **\$789 billion** to the U.S. gross domestic product (GDP)



Agriculture exports hit a record high of over **\$144 billion**, or 9% of total U.S. exports, in 2013



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**

## Economic Impact

## California Agriculture

76,400 farms

\$53 billion in commodities

\$24 billion in agricultural exports

534,829 jobs

