



Impact, Jobs and Consumers

FOOD CHAIN LINKS FROM GATE TO PLATE

	1	2	3	4	STATE TOTAL
Food Chain-Related Employment*	93,939	77,408	52,915	140,767	396,412
Total Employment	501,971	480,624	526,299	489,616	1,998,510
Food Chain-Related as Percent of Total	18.7	16.1	10.1	28.8	19.8
Population	766,436	769,212	779,188	759,350	3,074,186

LINKS TO IOWA STATE UNIVERSITY

	1	2	3	4	STATE TOTAL
Education Most undergraduate students enrolled at Iowa State come from Iowa. Total undergraduate enrollment was 25,487 in fall 2013.	3,544	2,878	5,652	5,762	17,836
4-H/Youth ISU Extension serves these rural and urban youth who participate in 4-H.	23,221	21,487	13,708	25,742	84,158
Alumni Iowa State has nearly 226,000 alumni worldwide and more than 21,000 College of Agriculture and Life Sciences alumni live in Iowa. The latest survey of recent College graduates found a nearly 98 percent placement rate.	15,513	13,005	33,255	31,981	93,754
Extension Enterprise Extension worked with food manufacturing, farm machinery and equipment manufacturing companies to improve their operations in FY 2012.					
Clients Served	32	16	22	60	130
Dollar Impact*	14,411,927	20,108,325	330,000	56,386,765	91,237,017
Participation Extension-sponsored events attracted lowans for training in agricultural production; food safety and human nutrition; and to improve their families.	51,269	49,278	30,724	79,956	211,227*

*The sum of economic impact values for the four congressional districts does not equal the state total. The state and district values are obtained from a unique input-output model built specifically for that region. The figures include the direct employment and value added produced within these industries, plus the related spinoff activity that they stimulate in the remainder of Iowa's economy, from crop farming; cattle ranching and farming; dairy cattle and milk production; poultry and egg production; hog and other animal production; forest nurseries, forest products and timber tracts; logging; fishing; hunting and trapping; support activities for agriculture and forestry; food and beverage manufacturing; ethanol and other basic organic chemical manufacturing; fertilizer manufacturing; pesticide and other agricultural chemical manufacturing; and farm machinery and equipment manufacturing.

*Impact is reported in surveys for new investments, costs saved or avoided and sales gained or retained.

*Overall Participation figures in 2013 reached 943,875, however changes in reporting methods allowed for only a small percentage of participation to be captured by congressional district.

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2013 Accomplishments

PREPARING TOMORROW'S LEADERS

- Within six months of receiving their diplomas, nearly 98 percent of graduates from the College of Agriculture and Life Sciences are working, continuing their education or serving in the military.
- Colin Hurd, an agricultural studies graduate, turned an idea to lower soil compaction into a business that launched a product called TrackTill with the help of the Agricultural Entrepreneurship Initiative.
- Extension's Community and Economic Development provided valuable experience to about 200 ISU students who worked on community development or economic development projects across Iowa last year.
- The 2013 Agriculture Career Day attracted a record 225 employers and nearly 2,500 students to the annual job fair, which is the largest of its kind in the nation.
- One in every five Iowa youth develops communication, citizenship, leadership and life skills by participating in 4-H programs.
- Extension programs that engage Iowa youth in science, technology, engineering and math activities build skills to ensure that more students are well equipped to be knowledgeable citizens and begin college or career training prepared for success.

ENSURING PROFITABLE PRODUCERS

- Harrisvaccines, founded by an animal science professor, has shipped a new vaccine that treats a deadly swine virus first detected in U.S. herds last year. The vaccine, called "iPED," fights the Porcine Epidemic Diarrhea virus, which has spread to 20 states.
- Researchers have generated a draft genome sequence of the pathogen that causes sudden death syndrome in soybeans, an essential step toward incorporating resistance to the disease that caused \$820 million in crop loss in 2010.
- Beef producers reported the economic impact of extension's feeding strategies to cope with drought conditions was \$500-1,000 per operation, or more than \$300,000 economic impact to the Iowa economy.

- Animal science is a partner on a \$6 million USAID research program to breed disease-resistant and heat-tolerant chickens in Africa. The effort is part of Feed the Future, the U.S. government's global hunger and food security initiative.
- Efforts stressing the importance of risk management in crop production are paying off with nearly 90 percent of Iowa's corn and soybean acres insured, and more than 90 percent of those acres covered by revenue protection products.
- Advances in soil-testing research has led agronomists to revise recommendations for phosphorus, potassium and lime, optimizing nutrient management to improve the profitability and sustainability of crop production.
- Iowa pork producers involved in the production of nearly 12 million pigs a year participated in hands-on ventilation workshops to improve air indoor quality and save energy costs.

HELPING IOWANS PROSPER

- Last year, Iowans connected virtually with extension through more than 1.5 million website visits and downloads of educational materials and courses — a 30 percent increase over the previous year.
- The Center for Industrial Research and Service worked with 1,600 companies last year, which reported adding or saving more than 5,600 Iowa jobs and generating \$389 million in economic impact.
- Each year, nearly 1 million people directly benefit from extension's educational programs.
- Volunteers trained by extension completed tax returns for low-income, rural Iowans, providing 675 filers nearly \$1 million in Earned Income Tax Credit refunds.
- Researchers are partnering with Iowa companies and farmers to prepare for the next generation of ethanol plants, producing fuel from biomass such as corn stover.

IMPROVING HEALTH

- ISU's Global Food Security Consortium and Heifer International, an international development nonprofit organization, have agreed to explore new opportunities and projects to use science to address world hunger and poverty.
- Strengthening Families Program: For Parents and Youth 10-14 last year trained 350 parents and their children, reducing youth problem behavior and returning \$9.60 for every \$1 spent on the program.
- Animal scientists discovered the first naturally occurring pigs born without immune systems, which offer the potential of introducing human immune systems for medical research.
- More than 34,000 youth enrolled in foods, nutrition, physical health and/or fitness curricula areas that emphasized making healthier food choices, being more physically active and using safe techniques when preparing food.

PROTECTING NATURAL RESOURCES

- ISU research has found that placing strips of prairie plants within fields offers a way for row-crop producers to meet environmental goals while still satisfying demands for food, feed and fuel. Field tests achieved substantial benefits with less total land used than had previously been in the federal Conservation Reserve Program.
- Iowa State has received a National Science Foundation planning grant to develop a center that will focus on bioplastics and biocomposites with support from industry partners to conduct industry-relevant research.
- Researchers have developed a way to use an infrared sensor to measure nitrate in soil, opening the possibility of determining the level of this vital nutrient as fertilizer is applied to fields and to avoid putting on too much.
- About 30 percent of the food Americans eat depends on pollination, demonstrating the importance of the nation's decline in honey bees. Researchers are taking a multi-pronged approach to the complex problem of Colony Collapse Disorder.