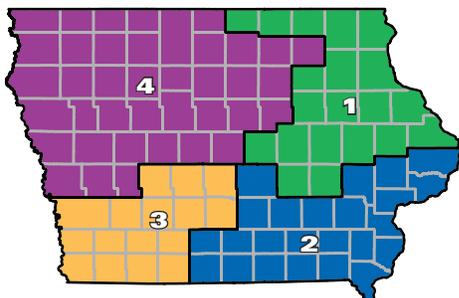


CARET

Report to Iowa Senators and Representatives
From Iowa CARET Representatives and Iowa State University

COUNCIL FOR AGRICULTURAL RESEARCH, EXTENSION AND TEACHING



IMPACT, JOBS AND CONSUMERS

FOOD CHAIN LINKS FROM GATE TO PLATE

	CONGRESSIONAL DISTRICTS				STATE TOTAL
	1	2	3	4	
Food Chain-Related Employment*	98,217	70,574	53,448	137,254	388,243
Total Employment	504,571	497,997	543,184	483,846	2,029,598
Food Chain-Related as Percent of Total	19.5	14.2	9.8	28.4	19.1
Population	772,592	778,519	812,274	760,514	3,123,899
Total GDP in \$ Billions (2015)	\$44.2	\$39.6	\$53.2	\$40.0	\$177.0
GDP Linked to Ag-Related Industries in \$ Billions	\$10.5	\$6.8	\$5.4	\$14.6	\$40.1
Production (<i>crops, livestock, forestry, fishing, etc.</i>)	\$2.4	\$1.6	\$1.4	\$7.1	\$12.3
Processing	\$5.4	\$4.2	\$3.2	\$6.1	\$21.7
Other Ag-Related Manufacturing (<i>chemicals, machinery, etc.</i>)	\$2.6	\$1.0	\$0.8	\$1.5	\$6.2
Ag-Related Percentage of total GDP	23.7%	17.1%	10.1%	36.6%	22.7%

LINKS TO IOWA STATE UNIVERSITY

	1	2	3	4	STATE TOTAL
Education <small>Most undergraduate students enrolled at Iowa State come from Iowa. Total enrollment was 36,321 in fall 2017.</small>	3,550	2,976	6,202	5,518	18,246
4-H/Youth <small>Total direct contacts for Extension and Outreach was 721,481 for FY17; however, all data sets are not available by county.</small>	25,640	17,951	11,724	30,666	85,981
Alumni <small>Iowa State has about 254,150 alumni worldwide, and more than 24,200 College of Agriculture and Life Sciences alumni living in Iowa.</small>	17,345	14,418	38,482	36,286	106,531

*Reflects 2015 data. 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.

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2017 ACCOMPLISHMENTS



For more than 30 years, the **Center for Crops Utilization Research and the BioCentury Research Farm** have provided expertise and facilities for food, feed and biorenewables industries. In the past five years, they have delivered **\$118 million in economic impact involving 36 companies** headquartered in Iowa or that have a significant Iowa presence.



Improved crop yield predictions are expected from Iowa State research generated by a Foundation for Food and Agriculture Research grant announced in December. Sotirios Archontoulis, an assistant professor of agronomy, was **one of eight scientists** from across the country to win this year's **New Innovator Award**.



The real annual internal **rate of return to investments** in productivity-oriented **public agricultural research** is estimated at 67 percent and for **agricultural and natural resource extension** is more than 100 percent. An economic analysis shows these large returns have not been matched by other public sector investments.



Every \$1 invested in Buy Eat Live Healthy nutrition education **saves \$2.48 in future health care costs**. This free program helps parents learn how to provide nutritious food for healthy children and families.



Cover crops are an important tool for improving water quality. Iowa State research is working to understand how to fit them into crop production to avoid yield reductions, which creates barriers to adoption, and capturing value through grazing.



Iowa State researchers discovered the first naturally occurring pigs without a functioning immune system and are developing a line of **pigs uniquely suited to testing medical therapies for people**. The pigs are raised in an environment that doesn't expose them to pathogens for medical researchers, who have used them to conduct a preliminary study on ovarian cancer.



Volunteers of the Growing Together extension program **harvested and donated nearly 75,000 pounds of fruits and vegetables** to Iowa food pantries, meal sites and shelters, or nearly **225,000 servings** of fresh produce for those with low incomes.



The Iowa Nutrient Research Center is important to meeting **Iowa's water quality needs**. The center is filling gaps in nitrogen and phosphorus research and exploring new ways to reduce the loss of nutrients. **In five years it has funded 55 projects** totaling \$7 million.



The College of Agriculture and Life Sciences was ranked **13th out of 300 worldwide programs of agriculture and forestry** — and seventh nationally — in the latest QS World University Rankings.