

AGRICULTURE, FOOD PRODUCTION AND BIOPRODUCTS



Did you know?

One out of every 7 Ohioans is employed in the Agriculture and Food Production Industry.

Ohio ranks 2nd in the nation for chicken layers and egg production.

Ohio producers grow or raise more than 200 diverse crops.

Ohio has more than 1,500 acres of vineyards.

Ohio farmers produced 5 billion pounds of milk last year.

Ohio ranks in the top 10 nationally for its commodities, including corn, soybeans, and all cheeses.

Ohio ranks in the top 10 nationally for its production animals, including chickens, turkeys, hogs and milk cows.

Ohio operates the world's largest pizza plant (General Mills in Wellston).

Ohio has the largest soup factory in the world (Campbell's Soup in Napoleon).

Ohio makes more ketchup than anywhere else in the world (Heinz plant in Fremont).

Ohio has the largest yogurt plant (Dannon in Auglaize County).

The Agriculture and Food Production Industry in Ohio is a diverse sector that includes farming, seed supply, agrichemicals, farm machinery, wholesale and distribution, processing, marketing and retail sales. Ohio's agriculture industry plays a critical role in the health of our economy, employing more than 60,000 workers at 1,106 production plants. The state's 76,500 farms rank Ohio 8th in the nation and cover more than 14 million acres – nearly 55 percent of the total land area. The state's food and agriculture sector contributes more than \$98 billion to Ohio's economy each year, and the food and beverage manufacturing industry exports equal \$25 billion annually, allowing Ohio to truly supply the world with nourishing food.

Ohio's strategic location between the grain belt and Eastern markets brings together all of the elements that comprise food production and underlies Ohio's strength in food processing. Although responsible for only 2 percent of the nation's crop and livestock production, Ohio ranks 18th in value of total agricultural products sold. A leading manufacturer of key food and agricultural products such as fruits, vegetables, specialty foods, Swiss cheese and eggs, Ohio is home to food industry leaders such as Kroger, J.M. Smucker, Honeybaked Foods Inc., Chiquita Brands International and Bob Evans Farms. The state is also a leader in the specialized nutraceutical food production industry.

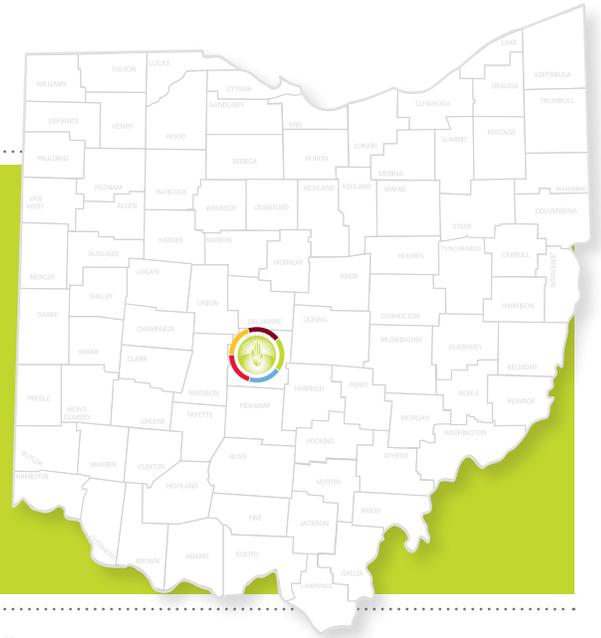
Ohio's Center of Excellence in Agriculture, Food Production and Bioproducts is located at The Ohio State University. Founded in 1870 as a land-grant university in accordance with the Morrill Act of 1862 under the name of the Ohio Agricultural and Mechanical College, Ohio State is now one of the largest and most comprehensive institutions in the country with nationally ranked programs at the undergraduate, graduate, and professional levels. The Center of Excellence in Food Production, Supply, and Safety at Ohio State is committed to focusing their academic and research activities from food supply to production technology to safe distribution to further strengthen Ohio's international reputation as a leader in agriculture and food production.

Ohio's diverse agricultural sector provides a multitude of resources for the food processing industry and a concentration of food processors within the state. Already a leader within the agriculture industry, Ohio ranks in the top five states in one-half of the food processing groups, first in the production of Swiss cheese and second in the production of tomatoes.

Ohio's Center of Excellence in Agriculture and Food Production will serve as a significant driver of the state's economy by investing in research and development while training its workforce with the high-level knowledge, problem-solving, creative thinking and technology skills needed to be a leader in the innovation-based global economy.

Agriculture, Food Production and Bioproducts

Ohio's Center of Excellence in Agriculture, Food Production & Bioproducts capitalizes on the state's diverse agriculture industry by fueling advanced processes in farming, seed supply, agrichemicals, farm machinery, wholesale and distribution, processing, marketing and retail sales.



Institution

Center of Excellence



The Ohio State University

Food Production, Supply, and Safety



Food Production, Supply, and Safety

Benchmarks

- The Center's faculty includes two members of the National Academy of Sciences, five fellows of the American Association for the Advancement of Science, and numerous fellows of many other national professional associations
- Over the past five years, the academic programs and research centers affiliated with this Center have generated over \$177 million in external funding from federal, state, and private sources
- *U.S. News & World Report* has ranked both the College of Pharmacy and the College of Veterinary Medicine fifth nationally, the Fisher College of Business seventh among public universities, and chemical/biomolecular engineering 27th nationally

Goals

- Provide innovative solutions to both Ohio's and the world's most pressing problems in food supply and safety
- Establish Ohio as a global leader in food supply and safety by bringing together teams of researchers and industry partners, positively impacting the economic viability of one of the state's crucial industry sectors
- Ensure a vibrant state economy by connecting students from the graduate and undergraduate programs associated with the Center with jobs in the Ohio food industry companies.

Metrics

- Continued growth in external funding for the Center and its affiliates
- Increased number of affiliated faculty who are members of the National Academy of Sciences, National Academy of Engineering, Institute of Medicine, American Academy of Arts and Sciences, and American Association for the Advancement of Science
- Improved rankings for affiliated graduate programs
- Increased licensing and consulting agreements
- Increase in startup companies and Ohio-based industry growth
- Increased number of graduates employed by Ohio-based industries in food supply and safety

The Food Production, Supply, and Safety Center of Excellence aims to insure the quality of food, a vital resource for human existence. Research, learning, policy development, and outreach will combine to ensure access to safe, health-promoting foods for present and future generations. This Center of Excellence focuses on food, as broadly defined from supply to production technology to safe distribution. The Center explores food safety, functional foods, agbioscience solutions to create sufficient quantities of food for the world, the economics of food production, distribution, and consumption, and the health impacts of food choices. This center brings together expertise in biosciences, business, economics, policy, engineering, medicine, and the health sciences to address these pressing concerns. Global issues explored include the impact of climate change, natural disasters, availability of water, infectious disease, and the "digital divide" on the availability and safety of the food supply. The four major themes of the Center are foods for health, food safety, biomedical nutrition, and global food policy.

Driving Economic Advancement

The potential economic impact of this Center can be seen at all levels – state, national, and global. At the state level, food and agriculture contribute more than \$100 billion per year to the state economy and \$30 billion per year to the shipping industry. With more than 1,000 food-processing plants located throughout Ohio, the food and agricultural sector accounts for 14 percent of our state's employment. These sectors employ more than 120,000 Ohioans, with more than 59,000 employees in high-wage jobs. Ohio currently ranks fifth in value-added food shipments. Because Ohio is located at the crossroads between the rich central grain belt and the populous eastern markets, many food companies call Ohio home. Ohio is the leading producer of many agricultural commodities and also has facilities for most of the world's largest food companies.