

# Miami County, Kansas

2024 ECONOMIC CONTRIBUTION REPORT AUGUST 2024

## Overview

The Kansas Department of Agriculture's Economist creates annual economic contribution reports to estimate the impact of agriculture on the Kansas economy. The purpose of these reports is to provide information to stakeholders, policymakers, and the general public. In this report, the model analyzes the effects of agriculture on the Miami County, Kansas, economy. For the estimated current year (2024), 26 agriculture and agriculture-related sectors directly contribute \$241 million in output and 1,689 jobs to the Miami County, Kansas, economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$297 million in output, 1,980 jobs and 7% of the total Gross Regional Product (GRP).

# Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

#### Results

In this model, the 26 agriculture and agriculture-related sectors have a total direct output of \$241 million and account for 1,689 jobs in Miami County, as shown in the following table:

Table 1: Agriculture and Agriculture-Related Sectors' Contribution to the Miami County Economy

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	1,689	12%	\$72,906,000	5%	\$241,442,000
Indirect Effect	197	1%	\$16,331,000	1%	\$39,857,000
Induced Effect	93	1%	\$9,338,000	1%	\$16,190,000
Total Effect	1,980	14%	\$98,576,000	7%	\$297,490,000

Note: Individual effects may not equal the total effect due to rounding.

The agriculture and agriculture-related sectors provide a total estimated impact of \$297 million in output. These sectors also support a total of 1,980 jobs, or 14% of the county's entire workforce. Another metric used to calculate the importance of sectors in the economy is their value added as a percentage of the Gross Regional Product. Total value added by the 26 agriculture and agriculture-related sectors is \$99 million, or 7% of the Gross Regional Product.

#### Top Ten Sectors by Output

The table below shows Miami County's top ten sectors by output, including direct, indirect and induced effects. The *beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming* sector is the top contributor in output to the Miami County economy, with \$74 million in total output.

Table 2: Top Ten Sectors by Output, Miami County

Sector	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$74,473,000
Grain farming	\$33,370,000
Oilseed farming	\$28,779,000
Farm machinery and equipment manufacturing	\$26,455,000
Canned fruits and vegetables manufacturing	\$23,314,000
Landscape and horticultural services	\$19,098,000
Other real estate	\$17,069,000
Veterinary services	\$6,566,000
All other food manufacturing	\$5,183,000
All other crop farming	\$4,483,000

#### Top Ten Sectors by Employment

Of the agriculture and agriculture-related sectors, *beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming* supports the most jobs in the county with 818 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Miami County.

Table 3: Top Ten Sectors by Employment, Miami County

Sector	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	818.87
Landscape and horticultural services	175.50
All other crop farming	165.83
Grain farming	163.01
Other real estate	88.47
Veterinary services	79.51
Support activities for agriculture and forestry	57.71
Oilseed farming	41.59
Farm machinery and equipment manufacturing	37.79
Canned fruits and vegetables manufacturing	34.06

## All Direct Agriculture Sectors

Table 4 is a summary of agriculture sectors represented with output and employment levels. These values estimate the value of output and the jobs these agriculture sectors support in the Miami County economy. Generally, this analysis includes three categories: production, manufacturing or processing, and services. Note, the model does not include ethanol production nor wholesale and retail sales of final products.

Table 4: All Direct Agriculture Sectors, Miami County

Sector	Total Output	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$74,473,000	818.87
Grain farming	\$33,370,000	163.01
Oilseed farming	\$28,779,000	41.59
Farm machinery and equipment manufacturing	\$26,455,000	37.79
Canned fruits and vegetables manufacturing	\$23,314,000	34.06
Landscape and horticultural services	\$19,098,000	175.50
Veterinary services	\$6,566,000	79.51
All other food manufacturing	\$5,183,000	10.68
All other crop farming	\$4,483,000	165.83
Greenhouse, nursery, and floriculture production	\$3,186,000	25.25
Wineries	\$2,551,000	7.21
Animal production, except cattle and poultry and eggs	\$2,538,000	27.39
Bread and bakery product, except frozen, manufacturing	\$1,867,000	11.12
Other animal food manufacturing	\$1,769,000	1.49
Support activities for agriculture and forestry	\$1,686,000	57.71
Poultry and egg production	\$1,611,000	2.89
Frozen cakes and other pastries manufacturing	\$1,223,000	11.12
Vegetable and melon farming	\$1,010,000	7.03
Other snack food manufacturing	\$614,000	0.91
Roasted nuts and peanut butter manufacturing	\$452,000	0.89
Dairy cattle and milk production	\$333,000	2.00
Tree nut farming	\$322,000	2.64
Fruit farming	\$293,000	2.36
Commercial logging	\$130,000	1.50
Forestry, forest products, and timber tract production	\$80,000	0.86
Commercial hunting and trapping	\$44,000	0.48

# Methodology

Using the economic software IMPLAN, the equilibrium displacement model calculates the estimated output and employment of all 546 different economic sectors if the current economy experiences no shocks within the agriculture and agriculture-related industries. IMPLAN sectors are based on North American Industry Classification System (NAICS) codes. The results of this model are broken down into direct, indirect and induced effects, and the IMPLAN framework avoids double counting. All agriculture and agriculture-related sectors represented in this model use the most recent IMPLAN data available (2022), adjusted for 2024 dollars. For this model, key statistics are defined as follows: total employment refers to the annual average of the sum of full and part time jobs held attributed to the 26 agricultural sectors, total gross regional product is the sum of the value added of all industries across the region, and total output is the total annual value of production for an industry or area.

## Notes and Glossary

These results are based on estimated production and employment numbers, along with estimated potential sector-, industry- and economy-wide effects. Therefore, these results will differ from actual events.

Due to confidentiality policies that exist within several agencies from which IMPLAN collects their data, some sectors in some regions may not have all data available.

The model provides results in relation to the agriculture and agriculture-related sectors. These results are not equal to the total effects of all 546 sectors but rather the total effects relative to agriculture.

The following terms are used throughout this report:

- Direct effect: the contribution from agricultural and food products
- *Indirect effect:* the contribution from farms and agricultural businesses purchasing inputs and services from supporting industries within the region.
- *Induced effect:* the contribution from employees of farms, agricultural businesses, and supporting industries spending their wages on goods and services within the region.
- Value added = labor income + indirect business taxes + other property type income
- Gross Regional Product = final demand of households + government expenditures + capital + exports - imports - institutional sales
- Output = intermediate inputs + value added
- *Employment:* full-time/part-time annual average, i.e., 1 job lasting 12 months = 2 jobs lasting 6 months each = 3 jobs lasting 4 months each. A job is neither full-time nor part-time.

#### Contact

Agency Economist
AgEconomist@ks.gov
785-564-6726
Kansas Department of Agriculture
1320 Research Park Drive, Manhattan, Kansas 66502
agriculture.ks.gov