

## 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 Geary County, Kansas, economy. For the estimated current year (2024), 30 agriculture and agriculture-related sectors directly contribute \$236 million in output and 638 jobs to the Geary County, Kansas, economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$266 million in output, 784 jobs and 2% of the total Gross Regional Product (GRP).

## Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

### Results

In this model, the 30 agriculture and agriculture-related sectors have a total direct output of \$236 million and account for 638 jobs in Geary County, as shown in the following table:

Table 1: Agriculture and Agriculture-Related Sectors’ Contribution to the Geary County Economy

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	638	2%	\$56,462,000	2%	\$236,378,000
Indirect Effect	110	0%	\$9,964,000	0%	\$23,913,000
Induced Effect	35	0%	\$2,838,000	0%	\$5,544,000
<b>Total Effect</b>	<b>784</b>	<b>2%</b>	<b>\$69,266,000</b>	<b>2%</b>	<b>\$265,836,000</b>

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

The agriculture and agriculture-related sectors provide a total estimated impact of \$266 million in output. These sectors also support a total of 784 jobs, or 2% 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 30 agriculture and agriculture-related sectors is \$69 million, or 2% of the Gross Regional Product.

### Top Ten Sectors by Output

The table below shows Geary County's top ten sectors by output, including direct, indirect and induced effects. The *meat processed from carcasses* sector is the top contributor in output to the Geary County economy, with \$91 million in total output.

Table 2: Top Ten Sectors by Output, Geary County

Sector	Total Output
Meat processed from carcasses	\$90,909,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$37,885,000
Dog and cat food manufacturing	\$30,033,000
Animal production, except cattle and poultry and eggs	\$27,134,000
Grain farming	\$13,749,000
Other real estate	\$7,690,000
Oilseed farming	\$7,134,000
Cheese manufacturing	\$5,746,000
Knit fabric mills	\$4,405,000
Wholesale - Other nondurable goods merchant wholesalers	\$4,395,000

### Top Ten Sectors by Employment

Of the agriculture and agriculture-related sectors, *meat processed from carcasses* supports the most jobs in the county with 164 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Geary County.

Table 3: Top Ten Sectors by Employment, Geary County

Sector	Total Employment
Meat processed from carcasses	164.99
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	106.61
Animal production, except cattle and poultry and eggs	86.73
Support activities for agriculture and forestry	54.25
Landscape and horticultural services	45.06
Veterinary services	43.63
Dog and cat food manufacturing	31.90
Other real estate	29.04
Grain farming	20.42
Knit fabric mills	20.27

## 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 Geary 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, Geary County

Sector	Total Output	Total Employment
Meat processed from carcasses	\$90,909,000	164.99
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$37,885,000	106.61
Dog and cat food manufacturing	\$30,033,000	31.90
Animal production, except cattle and poultry and eggs	\$27,134,000	86.73
Grain farming	\$13,749,000	20.42
Oilseed farming	\$7,134,000	2.66
Cheese manufacturing	\$5,746,000	5.66
Knit fabric mills	\$4,405,000	20.27
Landscape and horticultural services	\$4,295,000	45.06
Veterinary services	\$3,222,000	43.63
Bread and bakery product, except frozen, manufacturing	\$2,396,000	14.73
Farm machinery and equipment manufacturing	\$1,545,000	1.72
Frozen cakes and other pastries manufacturing	\$1,537,000	14.73
All other crop farming	\$1,131,000	11.82
Support activities for agriculture and forestry	\$957,000	54.25
Greenhouse, nursery, and floriculture production	\$802,000	2.55
Other snack food manufacturing	\$748,000	1.10
Poultry and egg production	\$704,000	0.44
Roasted nuts and peanut butter manufacturing	\$548,000	1.08
Other animal food manufacturing	\$524,000	0.41
Distilleries	\$344,000	0.55
Commercial logging	\$176,000	2.21
Vegetable and melon farming	\$151,000	0.38
Forestry, forest products, and timber tract production	\$98,000	1.03
Animal, except poultry, slaughtering	\$77,000	0.11
Rendering and meat byproduct processing	\$55,000	0.11
Commercial hunting and trapping	\$41,000	0.92
Fruit farming	\$11,000	0.03
Dairy cattle and milk production	\$7,000	2.00
Tree nut farming	\$1,000	0.01

## 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 30 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