



Shawnee County, Kansas

2023 ECONOMIC CONTRIBUTION REPORT
NOVEMBER 15, 2023

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 Shawnee County, Kansas, economy. For the estimated current year (2023), 36 agriculture and agriculture-related sectors directly contribute \$2.42 billion in output and 5,244 jobs to the Shawnee County economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$3.21 billion in output, 9,124 jobs and 10% of the total Gross Regional Product (GRP).

Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

Results

In this model, the 36 agriculture and agriculture-related sectors have a total direct output of \$2.42 billion and account for 5,244 jobs in Shawnee County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	5,244	4%	\$827,196,000	7%	\$2,422,060,000
Indirect Effect	2,239	2%	\$279,560,000	2%	\$514,704,000
Induced Effect	1,641	1%	\$160,825,000	1%	\$280,268,000
Total Effect	9,124	8%	\$1,267,582,000	10%	\$3,217,032,000

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

The agriculture and agriculture-related sectors provide a total estimated impact of \$3.21 billion in output. These sectors also support a total of 9,124 jobs, or 8% 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 36 agriculture and agriculture-related sectors is \$1.26 billion, or 10% of the Gross Regional Product.

Top Ten Sectors by Output

The table below shows Shawnee County's top ten sectors by output, including direct, indirect and induced effects. The *all other food manufacturing* sector is the top contributor in output to the Shawnee County economy, with \$735 million in total output.

Table 2: Top Ten Sectors by Output, Shawnee County

Sector	Total Output
All other food manufacturing	\$735,490,000
Dog and cat food manufacturing	\$310,102,000
Other snack food manufacturing	\$123,098,000
Fats and oils refining and blending	\$97,871,000
Wholesale - Grocery and related product wholesalers	\$90,363,000
Animal, except poultry, slaughtering	\$63,895,000
Confectionery manufacturing from purchased chocolate	\$60,455,000
Management of companies and enterprises	\$58,088,000
Landscape and horticultural services	\$50,156,000
Other animal food manufacturing	\$50,156,000

Top Ten Sectors by Employment

Of the agriculture and agriculture-related sectors, *all other food manufacturing* supports the most jobs in the county with 1,606 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Shawnee County.

Table 3: Top Ten Sectors by Employment, Shawnee County

Sector	Total Employment
All other food manufacturing	1,606.39
Dog and cat food manufacturing	625.17
Landscape and horticultural services	533.10
Other snack food manufacturing	412.33
Wholesale - Grocery and related product wholesalers	369.80
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	332.43
Truck transportation	257.01
Bread and bakery product, except frozen, manufacturing	211.24
Management of companies and enterprises	206.95
Veterinary services	193.23

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 Shawnee 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, Shawnee County

Sector	Total Output	Total Employment
All other food manufacturing	\$735,490,000	1,606.39
Dog and cat food manufacturing	\$712,880,000	625.17
Other snack food manufacturing	\$310,102,000	533.10
Fats and oils refining and blending	\$123,098,000	412.33
Animal, except poultry, slaughtering	\$90,363,000	332.43
Confectionery manufacturing from purchased chocolate	\$63,895,000	211.24
Landscape and horticultural services	\$58,088,000	193.23
Other animal food manufacturing	\$50,156,000	179.33
Bread and bakery product, except frozen, manufacturing	\$43,284,000	156.27
Bottled and canned soft drinks & water	\$37,128,000	145.61
Grain farming	\$33,422,000	142.29
Chocolate and confectionery manufacturing from cacao beans	\$32,258,000	110.83
Oilseed farming	\$27,467,000	97.05
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$24,373,000	80.21
Veterinary services	\$18,133,000	57.05
Roasted nuts and peanut butter manufacturing	\$10,747,000	55.66
Frozen cakes and other pastries manufacturing	\$9,643,000	49.63
Coffee and tea manufacturing	\$8,990,000	43.89
Food product machinery manufacturing	\$6,777,000	43.81
Commercial logging	\$3,588,000	23.25
Support activities for agriculture and forestry	\$3,371,000	22.72
Breweries	\$2,870,000	22.37
All other crop farming	\$2,573,000	22.20
Forestry, forest products, and timber tract production	\$2,234,000	19.90
Wineries	\$2,090,000	15.13
Meat processed from carcasses	\$2,073,000	11.70
Animal production, except cattle and poultry and eggs	\$1,885,000	8.33
Rendering and meat byproduct processing	\$1,695,000	8.19
Greenhouse, nursery, and floriculture production	\$1,234,000	4.08
Commercial hunting and trapping	\$901,000	4.02
Poultry and egg production	\$698,000	2.80
Vegetable and melon farming	\$410,000	2.00
Fruit farming	\$84,000	1.14
Tree nut farming	\$25,000	0.66

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Sector	Total Output	Total Employment
Other leather and allied product manufacturing	\$15,000	0.23
Dairy cattle and milk production	\$5,000	0.22

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 (2021), adjusted for 2023 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 72 agricultural sectors, total gross regional product is the sum of the value added of all industries across the state, 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 county
- *Induced effect*: the contribution from employees of farms, agricultural businesses, and supporting industries spending their wages on goods and services within the county
- *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)

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