



Washington 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 Washington County, Kansas, economy. For the estimated current year (2024), 25 agriculture and agriculture-related sectors directly contribute \$388 million in output and 1,035 jobs to the Washington County, Kansas, economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$458 million in output, 1,353 jobs and 47% of the total Gross Regional Product (GRP).

Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

Results

In this model, the 25 agriculture and agriculture-related sectors have a total direct output of \$388 million and account for 1,035 jobs in Washington County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	1,035	29%	\$101,643,000	36%	\$388,127,000
Indirect Effect	213	6%	\$21,999,000	8%	\$54,785,000
Induced Effect	105	3%	\$7,760,000	3%	\$15,102,000
Total Effect	1,353	37%	\$131,404,000	47%	\$458,014,000

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

The agriculture and agriculture-related sectors provide a total estimated impact of \$458 million in output. These sectors also support a total of 1,353 jobs, or 37% 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 25 agriculture and agriculture-related sectors is \$131 million, or 47% of the Gross Regional Product.

Top Ten Sectors by Output

The table below shows Washington 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 Washington County economy, with \$134 million in total output.

Table 2: Top Ten Sectors by Output, Washington County

Sector	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$133,924,000
Grain farming	\$72,903,000
Oilseed farming	\$43,704,000
Dog and cat food manufacturing	\$37,537,000
Animal production, except cattle and poultry and eggs	\$33,971,000
Dairy cattle and milk production	\$26,457,000
Farm machinery and equipment manufacturing	\$23,759,000
Wholesale - Other nondurable goods merchant wholesalers	\$23,703,000
Support activities for agriculture and forestry	\$4,160,000
Owner-occupied dwellings	\$3,860,000

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 440 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Washington County.

Table 3: Top Ten Sectors by Employment, Washington County

Sector	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	440.57
Grain farming	159.64
Animal production, except cattle and poultry and eggs	155.47
Wholesale - Other nondurable goods merchant wholesalers	70.43
Support activities for agriculture and forestry	52.09
All other crop farming	42.03
Dog and cat food manufacturing	41.94
Dairy cattle and milk production	40.42
Farm machinery and equipment manufacturing	37.14
Oilseed farming	19.26

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 Washington 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, Washington County

Sector	Total Output	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$133,924,000	440.57
Grain farming	\$72,903,000	159.64
Oilseed farming	\$43,704,000	19.26
Dog and cat food manufacturing	\$37,537,000	41.94
Animal production, except cattle and poultry and eggs	\$33,971,000	155.47
Dairy cattle and milk production	\$26,457,000	40.42
Farm machinery and equipment manufacturing	\$23,759,000	37.14
Support activities for agriculture and forestry	\$4,160,000	52.09
All other crop farming	\$2,979,000	42.03
Breweries	\$2,550,000	8.25
Other animal food manufacturing	\$1,306,000	1.01
Veterinary services	\$1,203,000	16.27
Landscape and horticultural services	\$937,000	8.03
Greenhouse, nursery, and floriculture production	\$802,000	4.78
Poultry and egg production	\$655,000	0.69
Bread and bakery product, except frozen, manufacturing	\$354,000	2.54
Other snack food manufacturing	\$224,000	0.39
Frozen cakes and other pastries manufacturing	\$223,000	2.54
Roasted nuts and peanut butter manufacturing	\$180,000	0.38
Vegetable and melon farming	\$101,000	0.44
Commercial hunting and trapping	\$82,000	0.20
Commercial logging	\$52,000	0.71
Fruit farming	\$27,000	0.14
Forestry, forest products, and timber tract production	\$23,000	0.36
Tree nut farming	\$2,000	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 25 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.

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