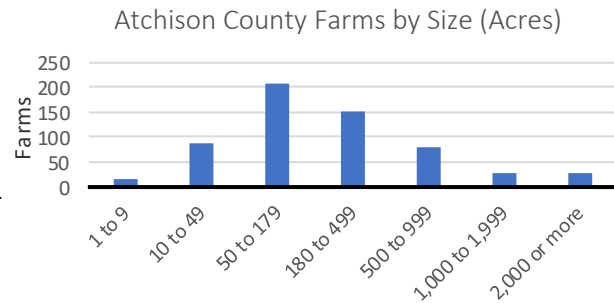


## Farm Statistics, Atchison County

Number of Farms: 595  
 Average Farm Size: 396 acres  
 Land in Farms: 235,896 acres  
 Average Value of Products Sold Per Farm: \$143,201  
 Average Net Cash Farm Income Per Farm: \$48,308

Source: [USDA 2017 Census of Agriculture](#)



## 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 for stakeholders, policymakers, and the general public. In this report, the model analyzes the effects of agriculture on the Atchison County, Kansas economy. For the estimated current year (2022), 28 agriculture and agriculture-related sectors directly contribute \$503 million in output and 1,044 jobs to the Atchison County economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$611 million in output, 1,661 jobs and 33% of the total Gross Regional Product (GRP).

## Estimated Economic Contribution of Agriculture

Methodology and Glossary on final page

### Results

In this model, the 28 agriculture and agriculture-related sectors have a total direct output of \$503 million and account for 1,044 jobs in Atchison County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	1,044	14%	\$146,605,000	24%	\$502,909,000
Indirect Effect	299	4%	\$31,236,000	5%	\$64,846,000
Induced Effect	318	4%	\$23,641,000	4%	\$43,524,000
<b>Total Effect</b>	<b>1,661</b>	<b>22%</b>	<b>\$201,483,000</b>	<b>33%</b>	<b>\$611,281,000</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 \$611 million in output. These sectors also support a total of 1,661 jobs, or 22% 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 GRP. Total value added by the 28 agriculture and agriculture-related sectors is 201 million, or 33% of the GRP.

### Top Ten Sectors by Output

The table below shows Atchison County's top ten sectors by output, including direct, indirect and induced effects. The *flour milling* sector is the top contributor in output to the Atchison County economy, with \$191 million in total output.

Table 2: Top Ten Sectors by Output, Atchison County

Sector	Total Output
Flour milling	\$190,904,000
Other animal food manufacturing	\$79,892,000
Grain farming	\$49,128,000
All other food manufacturing	\$48,576,000
Oilseed farming	\$42,149,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$38,150,000
Bottled and canned soft drinks & water	\$35,979,000
Rail transportation	\$11,969,000
Other real estate	\$9,664,000
Wholesale - Other nondurable goods merchant wholesalers	\$8,000,000

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

Table 3: Top Ten Sectors by Employment, Atchison County

Sector	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	288.21
Grain farming	164.08
Flour milling	150.20
All other food manufacturing	93.83
Other real estate	68.30
Other animal food manufacturing	60.66
All other crop farming	50.99
Bottled and canned soft drinks & water	46.35
Oilseed farming	40.30
Support activities for agriculture and forestry	36.13

### 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 Atchison County economy. Generally, this analysis includes three categories: production, manufacturing or processing, and services. Note, the model does not include ethanol production or wholesale and retail sales of final products.

Table 4: All Direct Agriculture Sectors, Atchison County

Sector	Total Output	Total Employment
Flour milling	\$190,904,000	150.20
Other animal food manufacturing	\$79,892,000	60.66
Grain farming	\$49,128,000	164.08
All other food manufacturing	\$48,576,000	93.83
Oilseed farming	\$42,149,000	40.30
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$38,150,000	288.21
Bottled and canned soft drinks & water	\$35,979,000	46.35
Dairy cattle and milk production	\$2,537,000	3.30
Other leather and allied product manufacturing	\$2,341,000	25.77
Veterinary services	\$2,263,000	28.68
All other crop farming	\$1,814,000	50.99
Landscape and horticultural services	\$1,558,000	23.30
Sawmills	\$1,453,000	6.33
Leather and hide tanning and finishing	\$1,113,000	4.54
Support activities for agriculture and forestry	\$1,055,000	36.13
Bread and bakery product, except frozen, manufacturing	\$768,000	4.89
Other snack food manufacturing	\$511,000	0.66
Poultry and egg production	\$503,000	0.58
Frozen cakes and other pastries manufacturing	\$499,000	4.89
Greenhouse, nursery, and floriculture production	\$450,000	2.89
Animal production, except cattle and poultry and eggs	\$378,000	2.49
Vegetable and melon farming	\$345,000	1.98
Roasted nuts and peanut butter manufacturing	\$319,000	0.65
Commercial logging	\$68,000	0.66
Fruit farming	\$65,000	0.46
Forestry, forest products, and timber tract production	\$54,000	0.63
Fiber, yarn, and thread mills	\$31,000	0.16
Tree nut farming	\$8,000	0.06

## 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 (2020), adjusted for 2022 dollars.

## 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 may 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 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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