



Thomas 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 Thomas County, Kansas economy. For the estimated current year (2023), 29 agriculture and agriculture-related sectors directly contribute \$444 million in output and 928 jobs to the Thomas County, Kansas economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$582 million in output, 1,639 jobs and 30% of the total Gross Regional Product (GRP).

Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

Results

In this model, the 29 agriculture and agriculture-related sectors have a total direct output of \$444 million and account for 928 jobs in Thomas County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	928	16%	\$89,222,000	18%	\$444,389,000
Indirect Effect	472	8%	\$43,538,000	9%	\$101,850,000
Induced Effect	239	4%	\$18,895,000	4%	\$35,843,000
Total Effect	1,640	28%	\$151,656,000	30%	\$582,082,000

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

The agriculture and agriculture-related sectors provide a total estimated impact of \$582 million in output. These sectors also support a total of 1,639 jobs, or 28% 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 29 agriculture and agriculture-related sectors is \$151 million, or 30% of the Gross Regional Product.

Top Ten Sectors by Output

The table below shows Thomas County’s top ten sectors by output, including direct, indirect and induced effects. The *grain farming* sector is the top contributor in output to the Thomas County economy, with \$230 million in total output.

Table 2: Top Ten Sectors by Output, Thomas County

Sector	Total Output
Grain farming	\$230,520,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$28,404,000
Dairy cattle and milk production	\$26,608,000
Wholesale - Other nondurable goods merchant wholesalers	\$21,310,000
Other real estate	\$14,843,000
Oilseed farming	\$13,801,000
Fluid milk manufacturing	\$13,151,000
Cheese manufacturing	\$12,354,000
Support activities for agriculture and forestry	\$11,678,000
Other animal food manufacturing	\$11,678,000

Top Ten Sectors by Employment

Of the agriculture and agriculture-related sectors, *grain farming* supports the most jobs in the county with 382 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Thomas County.

Table 3: Top Ten Sectors by Employment, Thomas County

Sector	Total Employment
Grain farming	382.65
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	226.60
Support activities for agriculture and forestry	178.28
Other real estate	120.48
Wholesale - Other nondurable goods merchant wholesalers	88.28
Truck transportation	49.63
Hospitals	29.09
Services to buildings	24.92
Full-service restaurants	24.27
Veterinary services	22.36

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 Thomas 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, Thomas County

Sector	Total Output	Total Employment
Grain farming	\$230,520,000	382.65
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$96,745,000	226.60
Dairy cattle and milk production	\$28,404,000	178.28
Oilseed farming	\$14,843,000	22.36
Fluid milk manufacturing	\$13,801,000	18.13
Cheese manufacturing	\$13,151,000	15.00
Support activities for agriculture and forestry	\$12,354,000	11.39
Other animal food manufacturing	\$11,678,000	11.16
Bottled and canned soft drinks & water	\$6,745,000	10.86
Farm machinery and equipment manufacturing	\$5,383,000	10.52
Animal, except poultry, slaughtering	\$5,147,000	9.56
Veterinary services	\$1,459,000	8.36
All other crop farming	\$1,078,000	5.82
Bread and bakery product, except frozen, manufacturing	\$928,000	5.82
Frozen cakes and other pastries manufacturing	\$578,000	4.71
Animal production, except cattle and poultry and eggs	\$331,000	1.50
Other snack food manufacturing	\$307,000	1.22
Roasted nuts and peanut butter manufacturing	\$213,000	1.13
Vegetable and melon farming	\$176,000	0.77
Commercial logging	\$136,000	0.65
Landscape and horticultural services	\$122,000	0.50
Meat processed from carcasses	\$56,000	0.49
Poultry and egg production	\$54,000	0.47
Commercial hunting and trapping	\$54,000	0.23
Rendering and meat byproduct processing	\$46,000	0.11
Forestry, forest products, and timber tract production	\$35,000	0.11
Other leather and allied product manufacturing	\$23,000	0.04
Fruit farming	\$7,000	0.03
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 (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)

Contact

Tori Laird

Agency Economist

AgEconomist@ks.gov

785-564-6726

Division of Agricultural Marketing, Advocacy, and Outreach

Kansas Department of Agriculture

1320 Research Park Drive, Manhattan, Kansas 66502

agriculture.ks.gov