



Rawlins 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 Rawlins County, Kansas, economy. For the estimated current year (2023), 22 agriculture and agriculture-related sectors directly contribute \$237 million in output and 523 jobs to the Rawlins County economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$281 million in output, 732 jobs and 38% of the total Gross Regional Product (GRP).

Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

Results

In this model, the 22 agriculture and agriculture-related sectors have a total direct output of \$237 million and account for 523 jobs in Rawlins County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	523	28%	\$48,497,000	28%	\$237,112,000
Indirect Effect	144	8%	\$10,506,000	6%	\$32,102,000
Induced Effect	65	3%	\$6,435,000	4%	\$11,786,000
Total Effect	733	39%	\$65,439,000	38%	\$281,002,000

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

The agriculture and agriculture-related sectors provide a total estimated impact of \$281 million in output. These sectors also support a total of 732 jobs, or 39% 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 22 agriculture and agriculture-related sectors is \$65 million, or 38% of the Gross Regional Product.

Top Ten Sectors by Output

The table below shows Rawlins 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 Rawlins County economy, with \$123 million in total output.

Table 2: Top Ten Sectors by Output, Rawlins County

Sector	Total Output
Grain farming	\$123,915,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$19,212,000
Animal, except poultry, slaughtering	\$10,577,000
Other real estate	\$9,280,000
Support activities for agriculture and forestry	\$9,263,000
Other animal food manufacturing	\$5,349,000
Farm machinery and equipment manufacturing	\$5,216,000
Dairy cattle and milk production	\$3,785,000
Petroleum refineries	\$3,068,000
Animal production, except cattle and poultry and eggs	\$3,068,000

Top Ten Sectors by Employment

Of the agriculture and agriculture-related sectors, *grain farming* supports the most jobs in the county with 183 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Rawlins County.

Table 3: Top Ten Sectors by Employment, Rawlins County

Sector	Total Employment
Grain farming	183.02
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	137.74
Support activities for agriculture and forestry	105.84
Other real estate	71.28
Animal, except poultry, slaughtering	31.48
All other crop farming	20.87
Farm machinery and equipment manufacturing	10.67
Wholesale - Other nondurable goods merchant wholesalers	10.17
Animal production, except cattle and poultry and eggs	9.53
Other animal food manufacturing	8.64

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 Rawlins 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, Rawlins County

Sector	Total Output	Total Employment
Grain farming	\$123,915,000	183.02
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$54,999,000	137.74
Animal, except poultry, slaughtering	\$19,212,000	105.84
Support activities for agriculture and forestry	\$9,280,000	31.48
Other animal food manufacturing	\$9,263,000	20.87
Farm machinery and equipment manufacturing	\$5,349,000	10.67
Dairy cattle and milk production	\$5,216,000	9.53
Animal production, except cattle and poultry and eggs	\$3,068,000	8.64
Oilseed farming	\$2,535,000	4.89
All other crop farming	\$2,083,000	3.56
Poultry and egg production	\$572,000	1.74
Veterinary services	\$569,000	1.74
Bread and bakery product, except frozen, manufacturing	\$226,000	0.94
Meat processed from carcasses	\$181,000	0.85
Rendering and meat byproduct processing	\$152,000	0.35
Frozen cakes and other pastries manufacturing	\$138,000	0.34
Other snack food manufacturing	\$125,000	0.34
Roasted nuts and peanut butter manufacturing	\$90,000	0.22
Vegetable and melon farming	\$58,000	0.21
Commercial logging	\$47,000	0.20
Forestry, forest products, and timber tract production	\$13,000	0.17
Landscape and horticultural services	\$8,000	0.10

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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