



Harvey 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 Harvey County, Kansas, economy. For the estimated current year (2023), 30 agriculture and agriculture-related sectors directly contribute \$1.63 billion in output and 3,434 jobs to the Harvey County economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$1.88 billion in output, 5,027 jobs and 35% of the total Gross Regional Product (GRP).

Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

Results

In this model, the 30 agriculture and agriculture-related sectors have a total direct output of \$1.63 billion and account for 3,434 jobs in Harvey County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	3,435	17%	\$453,250,000	28%	\$1,635,798,000
Indirect Effect	776	4%	\$60,407,000	4%	\$137,757,000
Induced Effect	817	4%	\$56,323,000	3%	\$109,233,000
Total Effect	5,028	25%	\$569,981,000	35%	\$1,882,788,000

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

The agriculture and agriculture-related sectors provide a total estimated impact of \$1.88 billion in output. These sectors also support a total of 5,027 jobs, or 25% 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 30 agriculture and agriculture-related sectors is \$569 million, or 35% of the Gross Regional Product.

Top Ten Sectors by Output

The table below shows Harvey County’s top ten sectors by output, including direct, indirect and induced effects. The *farm machinery and equipment manufacturing* sector is the top contributor in output to the Harvey County economy, with \$1.21 billion in total output.

Table 2: Top Ten Sectors by Output, Harvey County

Sector	Total Output
Farm machinery and equipment manufacturing	\$1,213,406,000
Grain farming	\$70,528,000
Animal, except poultry, slaughtering	\$61,691,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$53,359,000
Lawn and garden equipment manufacturing	\$45,118,000
Oilseed farming	\$36,802,000
Flour milling	\$18,950,000
Other real estate	\$17,928,000
Owner-occupied dwellings	\$13,069,000
Bread and bakery product, except frozen, manufacturing	\$13,069,000

Top Ten Sectors by Employment

Of the agriculture and agriculture-related sectors, *farm machinery and equipment manufacturing* supports the most jobs in the county with 2,158 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Harvey County.

Table 3: Top Ten Sectors by Employment, Harvey County

Sector	Total Employment
Farm machinery and equipment manufacturing	2,158.13
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	349.75
Grain farming	233.39
Other real estate	132.45
Animal, except poultry, slaughtering	112.36
Lawn and garden equipment manufacturing	92.00
Landscape and horticultural services	76.68
Hospitals	75.50
Support activities for agriculture and forestry	71.24
Limited-service restaurants	67.91

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 Harvey 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, Harvey County

Sector	Total Output	Total Employment
Farm machinery and equipment manufacturing	\$1,213,406,000	2,158.13
Grain farming	\$89,871,000	349.75
Animal, except poultry, slaughtering	\$70,528,000	233.39
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$61,691,000	112.36
Lawn and garden equipment manufacturing	\$53,359,000	92.00
Oilseed farming	\$45,118,000	76.68
Flour milling	\$36,802,000	71.24
Bread and bakery product, except frozen, manufacturing	\$13,069,000	62.98
Other animal food manufacturing	\$9,352,000	50.06
Animal production, except cattle and poultry and eggs	\$8,820,000	42.20
Fertilizer mixing	\$6,762,000	39.82
Landscape and horticultural services	\$6,170,000	34.05
Poultry and egg production	\$4,490,000	30.43
Wineries	\$2,636,000	19.65
Veterinary services	\$2,553,000	13.05
Support activities for agriculture and forestry	\$2,235,000	11.75
All other crop farming	\$2,167,000	9.14
Cotton farming	\$2,123,000	8.43
Frozen cakes and other pastries manufacturing	\$1,841,000	4.88
Other snack food manufacturing	\$778,000	4.11
Dairy cattle and milk production	\$728,000	4.09
Roasted nuts and peanut butter manufacturing	\$510,000	2.00
Commercial logging	\$271,000	1.15
Commercial hunting and trapping	\$164,000	1.13
Vegetable and melon farming	\$117,000	1.09
Forestry, forest products, and timber tract production	\$97,000	0.48
Tree nut farming	\$64,000	0.33
Greenhouse, nursery, and floriculture production	\$24,000	0.23
Fruit farming	\$19,000	0.12
Other leather and allied product manufacturing	\$18,000	0.09

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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