



# Decatur 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 Decatur County, Kansas, economy. For the estimated current year (2023), 18 agriculture and agriculture-related sectors directly contribute \$210 million in output and 371 jobs to the Decatur County economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$261 million in output, 585 jobs and 55% of the total Gross Regional Product (GRP).

## Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

### Results

In this model, the 18 agriculture and agriculture-related sectors have a total direct output of \$210 million and account for 371 jobs in Decatur County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	372	25%	\$43,991,000	37%	\$210,470,000
Indirect Effect	136	9%	\$15,748,000	13%	\$38,643,000
Induced Effect	78	5%	\$6,148,000	5%	\$12,819,000
<b>Total Effect</b>	<b>585</b>	<b>40%</b>	<b>\$65,887,000</b>	<b>55%</b>	<b>\$261,933,000</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 \$261 million in output. These sectors also support a total of 585 jobs, or 40% 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 18 agriculture and agriculture-related sectors is \$65 million, or 55% of the Gross Regional Product.

### Top Ten Sectors by Output

The table below shows Decatur 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 Decatur County economy, with \$110 million in total output.

Table 2: Top Ten Sectors by Output, Decatur County

Sector	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$110,447,000
Grain farming	\$16,342,000
Wholesale - Other nondurable goods merchant wholesalers	\$6,042,000
Animal production, except cattle and poultry and eggs	\$3,931,000
Petroleum refineries	\$3,758,000
Other real estate	\$3,424,000
All other crop farming	\$2,496,000
Owner-occupied dwellings	\$2,391,000
Hospitals	\$1,875,000
Oil and gas extraction	\$1,875,000

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

Table 3: Top Ten Sectors by Employment, Decatur County

Sector	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	179.57
Grain farming	101.19
Wholesale - Other nondurable goods merchant wholesalers	54.99
Support activities for agriculture and forestry	28.09
All other crop farming	25.70
Hospitals	16.19
Animal production, except cattle and poultry and eggs	14.74
Veterinary services	14.44
Other real estate	9.77
Monetary authorities and depository credit intermediation	6.70

### 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 Decatur 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, Decatur County

Sector	Total Output	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$110,447,000	179.57
Grain farming	\$84,840,000	101.19
Animal production, except cattle and poultry and eggs	\$6,042,000	28.09
All other crop farming	\$3,424,000	25.70
Support activities for agriculture and forestry	\$1,512,000	14.74
Oilseed farming	\$1,420,000	14.44
Veterinary services	\$788,000	2.00
Other animal food manufacturing	\$697,000	1.20
Farm machinery and equipment manufacturing	\$532,000	0.94
Dairy cattle and milk production	\$208,000	0.88
Bread and bakery product, except frozen, manufacturing	\$142,000	0.88
Other snack food manufacturing	\$125,000	0.67
Frozen cakes and other pastries manufacturing	\$97,000	0.31
Roasted nuts and peanut butter manufacturing	\$92,000	0.27
Commercial logging	\$54,000	0.22
Poultry and egg production	\$24,000	0.22
Forestry, forest products, and timber tract production	\$13,000	0.21
Commercial hunting and trapping	\$5,000	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)

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