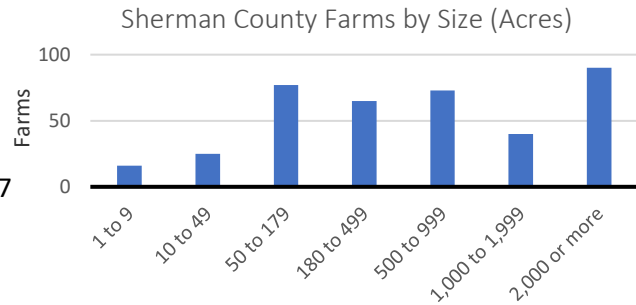


## Farm Statistics, Sherman County

Number of Farms: 386  
 Average Farm Size: 1,602 acres  
 Land in Farms: 618,428 acres  
 Average Value of Products Sold Per Farm: \$360,567  
 Average Net Cash Farm Income Per Farm: \$77,483

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 Sherman County, Kansas economy. For the estimated current year (2022), 24 agriculture and agriculture-related sectors directly contribute \$235 million in output and 670 jobs to the Sherman County economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$311 million in output, 1,127 jobs and 28% of the total Gross Regional Product (GRP).

## Estimated Economic Contribution of Agriculture

Methodology and Glossary on final page

### Results

In this model, the 24 agriculture and agriculture-related sectors have a total direct output of \$235 million and account for 670 jobs in Sherman County, as shown in the following table:

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

| Contribution Type   | Employment   | % Employment | Total Value Added   | % of Gross Regional Product | Output               |
|---------------------|--------------|--------------|---------------------|-----------------------------|----------------------|
| Direct Effect       | 670          | 18%          | \$31,142,000        | 13%                         | \$234,720,000        |
| Indirect Effect     | 295          | 8%           | \$23,887,000        | 10%                         | \$55,943,000         |
| Induced Effect      | 162          | 4%           | \$10,575,000        | 5%                          | \$20,405,000         |
| <b>Total Effect</b> | <b>1,127</b> | <b>30%</b>   | <b>\$65,604,000</b> | <b>28%</b>                  | <b>\$311,070,000</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 \$311 million in output. These sectors also support a total of 1,127 jobs, or 30% 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 24 agriculture and agriculture-related sectors is 66 million, or 28% of the GRP.

### Top Ten Sectors by Output

The table below shows Sherman 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 Sherman County economy, with \$134 million in total output.

Table 2: Top Ten Sectors by Output, Sherman County

| Sector   | Total Output  |
|--|---------------|
| Grain farming  | \$133,868,000 |
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | \$37,679,000  |
| Soybean and other oilseed processing   | \$21,264,000  |
| Wholesale - Other nondurable goods merchant wholesalers                                    | \$16,948,000  |
| Spice and extract manufacturing  | \$16,377,000  |
| Other real estate  | \$11,684,000  |
| Oilseed farming  | \$8,746,000   |
| Truck transportation   | \$5,769,000   |
| Fertilizer mixing  | \$5,277,000   |
| Owner-occupied dwellings   | \$4,579,000   |

### Top Ten Sectors by Employment

Of the agriculture and agriculture-related sectors, *grain farming* supports the most jobs in the county with 263 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect and induced effects in Sherman County.

Table 3: Top Ten Sectors by Employment, Sherman County

| Sector   | Total Employment |
|--|------------------|
| Grain farming  | 263.33           |
| Support activities for agriculture and forestry  | 183.99           |
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | 142.94           |
| Other real estate  | 81.58            |
| Wholesale - Other nondurable goods merchant wholesalers                                    | 58.09            |
| Truck transportation   | 30.93            |
| Spice and extract manufacturing  | 23.48            |
| Monetary authorities and depository credit intermediation                                  | 18.61            |
| All other crop farming   | 18.48            |
| Full-service restaurants   | 17.48            |

### 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 Sherman 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, Sherman County

| Sector   | Total Output  | Total Employment |
|--|---------------|------------------|
| Grain farming  | \$133,868,000 | 263.33           |
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | \$37,679,000  | 142.94           |
| Soybean and other oilseed processing   | \$21,264,000  | 5.22             |
| Spice and extract manufacturing  | \$16,377,000  | 23.48            |
| Oilseed farming  | \$8,746,000   | 4.22             |
| Fertilizer mixing  | \$5,277,000   | 10.07            |
| Support activities for agriculture and forestry  | \$4,301,000   | 183.99           |
| Other animal food manufacturing  | \$2,053,000   | 1.81             |
| Farm machinery and equipment manufacturing   | \$1,566,000   | 3.59             |
| All other crop farming   | \$1,193,000   | 18.48            |
| Animal production, except cattle and poultry and eggs                                      | \$586,000     | 2.23             |
| Bread and bakery product, except frozen, manufacturing                                     | \$469,000     | 3.03             |
| Bottled and canned soft drinks & water   | \$312,000     | 0.58             |
| Frozen cakes and other pastries manufacturing  | \$294,000     | 3.03             |
| Other snack food manufacturing   | \$231,000     | 0.33             |
| Roasted nuts and peanut butter manufacturing   | \$155,000     | 0.33             |
| Poultry and egg production   | \$104,000     | 0.08             |
| Veterinary services  | \$101,000     | 1.68             |
| Fiber, yarn, and thread mills  | \$42,000      | 0.16             |
| Commercial logging   | \$28,000      | 0.33             |
| Landscape and horticultural services   | \$23,000      | 0.23             |
| Forestry, forest products, and timber tract production                                     | \$22,000      | 0.32             |
| Vegetable and melon farming  | \$18,000      | 0.07             |
| Commercial hunting and trapping  | \$12,000      | 0.58             |

## 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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