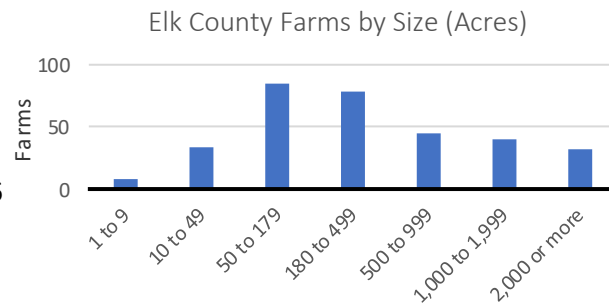


## Farm Statistics, Elk County

Number of Farms: 318  
 Average Farm Size: 777 acres  
 Land in Farms: 246,933 acres  
 Average Value of Products Sold Per Farm: \$118,426  
 Average Net Cash Farm Income Per Farm: \$12,138

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 Elk County, Kansas economy. For the estimated current year (2022), 21 agriculture and agriculture-related sectors directly contribute \$78 million in output and 377 jobs to the Elk County economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$84 million in output, 416 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 21 agriculture and agriculture-related sectors have a total direct output of \$78 million and account for 377 jobs in Elk County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	377	28%	\$18,102,000	27%	\$78,393,000
Indirect Effect	27	2%	\$1,097,000	2%	\$4,135,000
Induced Effect	13	1%	\$734,000	1%	\$1,674,000
<b>Total Effect</b>	<b>416</b>	<b>31%</b>	<b>\$19,933,000</b>	<b>30%</b>	<b>\$84,203,000</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 \$84 million in output. These sectors also support a total of 416 jobs, or 31% 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 21 agriculture and agriculture-related sectors is 20 million, or 30% of the GRP.

### Top Ten Sectors by Output

The table below shows Elk 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 Elk County economy, with \$47 million in total output.

Table 2: Top Ten Sectors by Output, Elk County

Sector	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$46,808,000
Meat processed from carcasses	\$17,915,000
Oilseed farming	\$5,781,000
Grain farming	\$3,987,000
Other real estate	\$1,148,000
All other crop farming	\$950,000
Farm machinery and equipment manufacturing	\$645,000
Veterinary services	\$636,000
Other local government enterprises	\$597,000
Landscape and horticultural services	\$471,000

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

Table 3: Top Ten Sectors by Employment, Elk County

Sector	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	268.72
Meat processed from carcasses	35.37
All other crop farming	27.33
Grain farming	16.36
Veterinary services	9.39
Other real estate	9.13
Landscape and horticultural services	7.28
Oilseed farming	4.29
Wholesale - Grocery and related product wholesalers	3.05
Animal production, except cattle and poultry and eggs	2.68

### 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 Elk 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, Elk County

Sector	Total Output	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$46,808,000	268.72
Meat processed from carcasses	\$17,915,000	35.37
Oilseed farming	\$5,781,000	4.29
Grain farming	\$3,987,000	16.36
All other crop farming	\$950,000	27.33
Farm machinery and equipment manufacturing	\$645,000	1.47
Veterinary services	\$636,000	9.39
Landscape and horticultural services	\$471,000	7.28
Animal production, except cattle and poultry and eggs	\$349,000	2.68
Poultry and egg production	\$313,000	0.60
Support activities for agriculture and forestry	\$130,000	0.35
Other snack food manufacturing	\$114,000	0.17
Roasted nuts and peanut butter manufacturing	\$79,000	0.17
Vegetable and melon farming	\$59,000	0.62
Bread and bakery product, except frozen, manufacturing	\$52,000	0.37
Frozen cakes and other pastries manufacturing	\$33,000	0.37
Fruit farming	\$20,000	0.27
Tree nut farming	\$18,000	0.23
Commercial logging	\$13,000	0.17
Forestry, forest products, and timber tract production	\$10,000	0.16
Greenhouse, nursery, and floriculture production	\$9,000	0.13

## 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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