



# Johnson 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 Johnson County, Kansas, economy. For the estimated current year (2023), 46 agriculture and agriculture-related sectors directly contribute \$3.92 billion in output and 9,743 jobs to the Johnson County economy. Including indirect and induced effects, agriculture and agriculture-related sectors have a total impact of \$5.27 billion in output, 15,809 jobs and 4% of the total Gross Regional Product (GRP).

## Estimated Economic Contribution of Agriculture.

Methodology and Glossary on final page

### Results

In this model, the 46 agriculture and agriculture-related sectors have a total direct output of \$3.92 billion and account for 9,743 jobs in Johnson County, as shown in the following table:

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

Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	9,744	2%	\$1,549,773,000	3%	\$3,922,426,000
Indirect Effect	3,359	1%	\$490,855,000	1%	\$846,779,000
Induced Effect	2,707	1%	\$305,243,000	1%	\$507,475,000
<b>Total Effect</b>	<b>15,810</b>	<b>3%</b>	<b>\$2,345,872,000</b>	<b>4%</b>	<b>\$5,276,681,000</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 \$5.27 billion in output. These sectors also support a total of 15,809 jobs, or 3% 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 46 agriculture and agriculture-related sectors is \$2.34 billion, or 4% of the Gross Regional Product.

### Top Ten Sectors by Output

The table below shows Johnson County’s top ten sectors by output, including direct, indirect and induced effects. The *fats and oils refining and blending* sector is the top contributor in output to the Johnson County economy, with \$615 million in total output.

Table 2: Top Ten Sectors by Output, Johnson County

Sector	Total Output
Fats and oils refining and blending	\$615,223,000
Dog and cat food manufacturing	\$401,337,000
Landscape and horticultural services	\$383,673,000
Spice and extract manufacturing	\$315,329,000
Other animal food manufacturing	\$314,691,000
Bottled and canned soft drinks & water	\$214,801,000
Other snack food manufacturing	\$150,611,000
Bread and bakery product, except frozen, manufacturing	\$118,195,000
Wholesale - Grocery and related product wholesalers	\$97,125,000
Animal, except poultry, slaughtering	\$97,125,000

### Top Ten Sectors by Employment

Of the agriculture and agriculture-related sectors, *landscape and horticultural services* supports the most jobs in the county with 3,231 jobs. Table 3 illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Johnson County.

Table 3: Top Ten Sectors by Employment, Johnson County

Sector	Total Employment
Landscape and horticultural services	3,231.12
Veterinary services	1,053.45
Bread and bakery product, except frozen, manufacturing	760.93
Spice and extract manufacturing	445.21
Fats and oils refining and blending	393.67
Bottled and canned soft drinks & water	393.16
Wholesale - Grocery and related product wholesalers	391.65
Frozen cakes and other pastries manufacturing	383.53
Dog and cat food manufacturing	369.65
Management of companies and enterprises	293.49

### 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 Johnson 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, Johnson County

Sector	Total Output	Total Employment
Fats and oils refining and blending	\$615,223,000	393.67
Dog and cat food manufacturing	\$513,245,000	369.65
Landscape and horticultural services	\$401,337,000	3,231.12
Spice and extract manufacturing	\$383,673,000	445.21
Other animal food manufacturing	\$315,329,000	248.52
Bottled and canned soft drinks & water	\$314,691,000	393.16
Other snack food manufacturing	\$214,801,000	236.71
Bread and bakery product, except frozen, manufacturing	\$150,611,000	760.93
Animal, except poultry, slaughtering	\$97,125,000	139.43
Meat processed from carcasses	\$92,592,000	169.43
Veterinary services	\$90,493,000	1,053.45
All other food manufacturing	\$87,136,000	165.72
Flour milling	\$80,987,000	62.71
Cookie and cracker manufacturing	\$79,954,000	207.29
Paper mills	\$78,837,000	97.36
Frozen fruits, juices and vegetables manufacturing	\$57,587,000	78.35
Confectionery manufacturing from purchased chocolate	\$49,605,000	112.19
Distilleries	\$45,544,000	44.40
Nonchocolate confectionery manufacturing	\$44,689,000	81.04
Frozen cakes and other pastries manufacturing	\$39,551,000	383.53
Poultry processing	\$26,156,000	77.13
Dry pasta, mixes, and dough manufacturing	\$23,007,000	35.64
Breweries	\$17,296,000	57.14
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$15,761,000	221.73
Grain farming	\$14,771,000	85.87
Greenhouse, nursery, and floriculture production	\$12,591,000	106.31
Oilseed farming	\$10,283,000	19.19
Support activities for agriculture and forestry	\$9,650,000	208.51
Roasted nuts and peanut butter manufacturing	\$7,485,000	16.01
Wineries	\$6,758,000	27.55
Coffee and tea manufacturing	\$5,388,000	8.40
Rendering and meat byproduct processing	\$3,849,000	8.55
Food product machinery manufacturing	\$3,397,000	11.37
Farm machinery and equipment manufacturing	\$2,870,000	4.63
Commercial logging	\$2,180,000	20.69

JOHNSON COUNTY, KANSAS  
 2023 ECONOMIC CONTRIBUTION REPORT

Sector	Total Output	Total Employment
All other crop farming	\$1,756,000	80.09
Fiber, yarn, and thread mills	\$1,748,000	6.55
Forestry, forest products, and timber tract production	\$1,614,000	15.41
Animal production, except cattle and poultry and eggs	\$997,000	12.91
Poultry and egg production	\$416,000	0.78
Vegetable and melon farming	\$413,000	3.29
Other leather and allied product manufacturing	\$284,000	3.32
Commercial hunting and trapping	\$247,000	4.84
Dairy cattle and milk production	\$226,000	31.76
Fruit farming	\$187,000	1.74
Tree nut farming	\$67,000	0.68

## 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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