

## Sedgwick County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/14/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 37 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Sedgwick County economy.<sup>1</sup>

These 37 sectors have a total direct output of approximately **\$2.03 billion** and support **6,859 jobs** in Sedgwick County. Running the model for all 37 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Sedgwick County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
<b>Direct Effect</b>	6858.7	2.08%	\$487,492,358	1.63%	\$2,031,907,476	6.77%
<b>Indirect Effect</b>	2313.9	0.70%	\$241,374,073	0.80%	\$417,098,396	1.39%
<b>Induced Effect</b>	2345.7	0.71%	\$178,496,130	0.60%	\$305,498,455	1.02%
<b>Total Effect</b>	11518.3	3.49%	\$907,362,561	3.03%	\$2,754,504,327	9.18%

As shown in the above table, agriculture, food, and food processing sectors support **11,518 jobs**, or **3.49%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$2.75 billion**, roughly **9.18% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 37 agriculture, food, and food processing sectors is approximately **\$907.4 million**, or **3.03% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **3.03% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

1 Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

2 Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

3 Value added = labor income + indirect business taxes + other property type income.

4 GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

5 Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the landscape and horticulture services sector is the top employer with **1,688 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Sedgwick County.

<b>Top Ten Agriculture, Food, and Food Processing Sectors by Employment</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Landscape and horticultural services	1,688.4	\$98,014,155
Meat processed from carcasses	1,306.8	\$756,221,510
Veterinary services	641.8	\$67,944,438
All other industrial machinery manufacturing	563.9	\$153,246,675
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	504.7	\$27,433,126
Grain farming	436.0	\$74,867,929
Wholesale trade	423.7	\$103,599,952
Bread and bakery product, except frozen, manufacturing	372.6	\$44,532,653
Real estate	247.3	\$46,566,828
Full-service restaurants	203.2	\$10,294,061

The meat processed from carcasses sector directly contributes approximately **\$756.2 million** to the Sedgwick County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

<b>Top Ten Agriculture, Food, and Food Processing Sectors by Output</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Meat processed from carcasses	1,306.8	\$756,221,510
Flour milling	178.1	\$250,702,882
All other industrial machinery manufacturing	563.9	\$153,246,675
Bottled and canned soft drinks & water	182.6	\$153,155,433
Wholesale trade	423.7	\$103,599,952
Landscape and horticultural services	1,688.4	\$98,014,155
Grain farming	436.0	\$74,867,929
Veterinary services	641.8	\$67,944,438
Animal, except poultry, slaughtering	81.5	\$65,950,685
Lawn and garden equipment manufacturing	105.8	\$55,067,126

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Sedgwick County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	78.2	\$38,000,752.13
Grain farming	436.0	\$74,867,928.80
Vegetable and melon farming	2.8	\$302,329.87
Fruit farming	7.4	\$359,195.30
Tree nut farming	0.8	\$65,673.34
Greenhouse, nursery, and floriculture production	62.2	\$4,841,154.66
Cotton farming	1.3	\$173,173.62
All other crop farming	124.8	\$4,439,740.73
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	504.7	\$27,433,125.81
Dairy cattle and milk production	29.6	\$6,519,103.35
Poultry and egg production	0.5	\$195,267.33
Animal production, except cattle and poultry and eggs	26.9	\$1,598,228.05
Commercial logging	5.2	\$298,387.09
Commercial hunting and trapping	10.6	\$145,200.05
Flour milling	178.1	\$250,702,881.86
Confectionery manufacturing from purchased chocolate	9.2	\$3,163,646.21
Dehydrated food products manufacturing	54.3	\$25,981,881.63
Fluid milk manufacturing	56.1	\$42,473,634.59
Animal, except poultry, slaughtering	81.5	\$65,950,684.77
Meat processed from carcasses	1306.8	\$756,221,510.06
Bread and bakery product, except frozen, manufacturing	372.6	\$44,532,653.46
Frozen cakes and other pastries manufacturing	19.9	\$3,261,721.35
Dry pasta, mixes, and dough manufacturing	13.7	\$7,992,967.07
Tortilla manufacturing	4.0	\$700,321.55
Coffee and tea manufacturing	24.0	\$14,635,685.78
Spice and extract manufacturing	32.1	\$15,587,560.56
All other food manufacturing	27.4	\$8,641,134.74
Bottled and canned soft drinks & water	182.6	\$153,155,433.01
Breweries	55.4	\$26,370,335.11
Distilleries	1.3	\$1,250,824.50
Pesticide and other agricultural chemical manufacturing	16.7	\$21,384,737.08
Farm machinery and equipment manufacturing	73.7	\$37,509,116.31
Lawn and garden equipment manufacturing	105.8	\$55,067,126.03
Food product machinery manufacturing	58.7	\$18,879,091.40
All other industrial machinery manufacturing	563.9	\$153,246,674.72
Veterinary services	641.8	\$67,944,438.40
Landscape and horticultural services	1688.4	\$98,014,155.24

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Sedgwick County, the retail sector was omitted.