

Ellsworth County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/26/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Ellsworth County economy.¹

These 17 sectors have a total direct output of approximately **\$84.0 million** and support **486 jobs** in Ellsworth County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Ellsworth County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	485.7	13.62%	\$25,596,564	10.08%	\$83,974,049
Indirect Effect	53.8	1.51%	\$3,988,280	1.57%	\$8,332,989
Induced Effect	23.3	0.65%	\$1,582,318	0.62%	\$3,049,519
Total Effect	562.8	15.79%	\$31,167,162	12.28%	\$95,356,557

As shown in the above table, agriculture, food, and food processing sectors support **563 jobs**, or **15.79%** of the entire workforce in the county.

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 17 agriculture, food, and food processing sectors is approximately **\$31.2 million**, or **12.28% of the GRP**.

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:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

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 beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **265 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Ellsworth County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	265.1	\$28,728,203
Animal production, except cattle and poultry and eggs	60.0	\$6,673,302
Grain farming	58.7	\$19,868,607
Farm machinery and equipment manufacturing	43.7	\$17,362,577
All other crop farming	29.9	\$2,146,558
Truck transportation	13.0	\$1,948,162
Wholesale trade	12.2	\$2,187,453
Monetary authorities and depository credit intermediation	7.5	\$1,382,897
Veterinary services	5.8	\$604,890
Support activities for agriculture and forestry	5.5	\$438,834

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$28.7 million** to the Ellsworth County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	265.1	\$28,728,203
Grain farming	58.7	\$19,868,607
Farm machinery and equipment manufacturing	43.7	\$17,362,577
Animal production, except cattle and poultry and eggs	60.0	\$6,673,302
Oilseed farming	4.1	\$3,996,348
Animal, except poultry, slaughtering	4.4	\$3,041,544
Wholesale trade	12.2	\$2,187,453
All other crop farming	29.9	\$2,146,558
Truck transportation	13.0	\$1,948,162
Monetary authorities and depository credit intermediation	7.5	\$1,382,897

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 Ellsworth County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	4.1	\$3,996,347.67
Grain farming	58.7	\$19,868,606.57
Vegetable and melon farming	0.1	\$22,306.32
Fruit farming	0.4	\$33,005.13
Tree nut farming	0.0	\$29.20
Greenhouse, nursery, and floriculture production	5.2	\$675,122.26
All other crop farming	29.9	\$2,146,558.28
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	265.1	\$28,728,202.82
Poultry and egg production	0.2	\$163,991.17
Animal production, except cattle and poultry and eggs	60.0	\$6,673,302.17
Commercial hunting and trapping	0.6	\$11,322.78
Support activities for agriculture and forestry	5.5	\$438,834.28
Animal, except poultry, slaughtering	4.4	\$3,041,543.72
Bread and bakery product, except frozen, manufacturing	1.7	\$192,098.29
Frozen cakes and other pastries manufacturing	0.1	\$15,310.29
Farm machinery and equipment manufacturing	43.7	\$17,362,577.44
Veterinary services	5.8	\$604,890.17

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 Ellsworth County, the retail sector was omitted.