

Barber County

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

6/8/2018

*** Due to irregularities in the 2016 data available for Barber County, a 2018 economic impact report will NOT be published. Thank you for your understanding. ***

Using the most recent IMPLAN data available (2015) adjusted for 2017, 14 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Barber County economy.¹

These 14 sectors have a total direct output of approximately **\$100.3 million** and support **462.2 jobs** in Barber County. Running the model for all 14 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Barber County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	462.2	12.40%	\$25,146,706	9.02%	\$100,278,453	35.96%
Indirect Effect	90.0	2.41%	\$7,323,004	2.63%	\$14,332,130	5.14%
Induced Effect	40.1	1.08%	\$2,365,488	0.85%	\$4,415,766	1.58%
Total Effect	592.3	15.89%	\$34,835,198	12.49%	\$119,026,349	42.68%

As shown in the above table, agriculture, food, and food processing sectors support **592.3 jobs**, or **15.89%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$119.0 million, roughly 42.68% 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 14 agriculture, food, and food processing sectors is approximately **\$34.8 million, or 12.49% of the GRP.** This indicates that personal income, business income, and taxes generated by these sectors account for **12.49% of the total economy.**

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and 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

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 **297.4 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Barber 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	297.4	\$51,753,699
All other crop farming	72.1	\$7,495,353
Grain farming	50.8	\$25,437,029
Support activities for agriculture and forestry	28.7	\$3,158,136
Landscape and horticultural services	12.1	\$382,306
Real estate	12.0	\$927,592
Wholesale trade	10.8	\$2,187,075
Animal, except poultry, slaughtering	6.1	\$4,448,080
Monetary authorities and depository credit intermediation	5.7	\$840,100
Limited-service restaurants	5.5	\$351,246

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$51.8 million** to the Barber 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	297.4	\$51,753,699
Grain farming	50.8	\$25,437,029
All other crop farming	72.1	\$7,495,353
Oilseed farming	3.1	\$4,891,945
Animal, except poultry, slaughtering	6.1	\$4,448,080
Petroleum refineries	0.6	\$3,196,458
Support activities for agriculture and forestry	28.7	\$3,158,136
Wholesale trade	10.8	\$2,187,075
Poultry and egg production	2.9	\$2,145,578
Dairy cattle and milk production	5.1	\$1,621,784

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 Barber County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	3.1	\$4,891,945.36
Grain farming	50.8	\$25,437,028.88
Cotton farming	0.8	\$204,380.29
All other crop farming	72.1	\$7,495,353.22
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	297.4	\$51,753,696.44
Dairy cattle and milk production	5.1	\$1,621,783.85
Poultry and egg production	2.9	\$2,145,577.91
Animal production, except cattle and poultry and eggs	3.4	\$552,006.84
Animal, except poultry, slaughtering	6.1	\$4,448,080.06
Bread and bakery product, except frozen, manufacturing	2.9	\$365,486.65
Frozen cakes and other pastries manufacturing	0.2	\$24,396.40
Farm machinery and equipment manufacturing	0.9	\$461,313.58
Veterinary services	4.5	\$495,093.73
Landscape and horticultural services	12.1	\$382,306.37

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 Barber County, the retail sector was omitted.