Sheridan County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors
6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 14 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Sheridan County economy.[1]

These 14 sectors have a total direct output of approximately **$287.8 million** and support **626 jobs** in Sheridan County. Running the model for all 14 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Sheridan County Economy					
Contribution Type[2]	**Employment**	**% Employment**	**Total Value Added[3]**	**Total Value Added % of Gross Regional Product[4]**	**Output[5]**
Direct Effect	626.2	30.91%	$74,494,246	45.26%	$287,777,661
Indirect Effect	161.2	7.96%	$17,884,478	10.87%	$31,573,848
Induced Effect	55.8	2.75%	$4,022,491	2.44%	$7,901,906
Total Effect	843.1	41.62%	$96,401,215	58.57%	$327,253,415

As shown in the above table, agriculture, food, and food processing sectors support **843 jobs**, or **41.62%** 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 14 agriculture, food, and food processing sectors is approximately **$96.4 million**, or **58.57% 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 **256 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Sheridan 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	255.6	$71,063,677
Wholesale trade	52.2	$8,909,011
Grain farming	43.2	$34,116,016
All other crop farming	16.4	$2,673,206
Support activities for agriculture and forestry	16.3	$981,937
Real estate	13.3	$1,729,387
Hospitals	12.9	$1,739,637
Securities and commodity contracts intermediation and brokerage	10.6	$1,092,419
Veterinary services	9.3	$702,998
Monetary authorities and depository credit intermediation	8.4	$1,723,218

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **$71.1 million** to the Sheridan 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	255.6	$71,063,677
Grain farming	43.2	$34,116,016
Wholesale trade	52.2	$8,909,011
Dairy cattle and milk production	7.7	$3,062,465
All other crop farming	16.4	$2,673,206
Owner-occupied dwellings	0.0	$2,448,205
Hospitals	12.9	$1,739,637
Real estate	13.3	$1,729,387
Monetary authorities and depository credit intermediation	8.4	$1,723,218
Farm machinery and equipment manufacturing	3.7	$1,305,944

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 Sheridan County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	4.8	$15,191,954.61
Grain farming	69.6	$81,990,829.47
Vegetable and melon farming	0.5	$120,012.36
All other crop farming	7.7	$1,864,186.53
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	408.6	$175,260,803.22
Poultry and egg production	0.8	$972,100.56
Animal production, except cattle and poultry and eggs	11.3	$3,484,434.13
Commercial logging	2.3	$59,580.74
Commercial hunting and trapping	2.2	$42,716.21
Support activities for agriculture and forestry	102.4	$7,076,039.79
Bread and bakery product, except frozen, manufacturing	3.9	$444,558.35
Farm machinery and equipment manufacturing	1.7	$609,461.84
Veterinary services	9.0	$601,400.85
Landscape and horticultural services	1.4	$59,578.58

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 Sheridan County, the retail sector was omitted.