Sumner 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, 22 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Sumner County economy.[1]

These 22 sectors have a total direct output of approximately **$364.5 million** and support **1,591 jobs** in Sumner County. Running the model for all 22 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Sumner County Economy					
Contribution Type[2]	**Employment**	**% Employment**	**Total Value Added[3]**	**Total Value Added % of Gross Regional Product[4]**	**Output[5]**
Direct Effect	1590.8	14.29%	$76,663,025	10.89%	$364,450,821
Indirect Effect	204.4	1.84%	$13,991,979	1.99%	$29,173,274
Induced Effect	224.9	2.02%	$14,869,600	2.11%	$27,218,516
Total Effect	2020.1	18.15%	$105,524,604	14.99%	$420,842,612

As shown in the above table, agriculture, food, and food processing sectors support **2,020 jobs**, or **18.15%** 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 22 agriculture, food, and food processing sectors is approximately **$105.5 million**, or **14.99% 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.

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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 **641 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Sumner 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	641.0	$53,655,954
Grain farming	310.7	$81,928,482
Animal, except poultry, slaughtering	260.5	$177,953,973
Support activities for agriculture and forestry	101.2	$2,485,460
Landscape and horticultural services	96.1	$3,464,941
All other crop farming	52.1	$2,928,692
Truck transportation	48.0	$7,084,783
Real estate	43.9	$5,233,007
Oilseed farming	31.0	$23,443,582
Monetary authorities and depository credit intermediation	29.5	$5,868,420

The animal, except poultry, slaughtering sector directly contributes approximately **$177.9 million** to the Sumner 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
Animal, except poultry, slaughtering	260.5	$177,953,973
Grain farming	310.7	$81,928,482
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	641.0	$53,655,954
Oilseed farming	31.0	$23,443,582
Truck transportation	48.0	$7,084,783
Owner-occupied dwellings	0.0	$7,016,508
Dairy cattle and milk production	19.0	$6,124,931
Monetary authorities and depository credit intermediation	29.5	$5,868,420
Wholesale trade	28.3	$5,332,992
Real estate	43.9	$5,233,007

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 Sumner County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	31.0	$23,443,582.53
Grain farming	310.7	$81,928,482.06
Vegetable and melon farming	0.2	$33,022.63
Fruit farming	1.2	$81,107.40
Tree nut farming	0.5	$64,411.93
Greenhouse, nursery, and floriculture production	2.1	$248,262.97
Cotton farming	26.5	$4,948,732.85
All other crop farming	52.1	$2,928,692.34
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	641.0	$53,655,952.45
Dairy cattle and milk production	19.0	$6,124,930.86
Poultry and egg production	0.2	$116,353.14
Animal production, except cattle and poultry and eggs	6.4	$567,496.96
Commercial logging	2.4	$63,398.45
Commercial hunting and trapping	2.3	$45,453.31
Support activities for agriculture and forestry	101.2	$2,485,459.80
Animal, except poultry, slaughtering	260.5	$177,953,979.49
Bread and bakery product, except frozen, manufacturing	8.8	$1,080,001.71
Frozen cakes and other pastries manufacturing	0.5	$82,158.85
Wineries	8.5	$2,619,278.19
Farm machinery and equipment manufacturing	2.1	$745,151.34
Veterinary services	17.4	$1,769,976.97
Landscape and horticultural services	96.1	$3,464,940.79

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 Sumner County, the retail sector was omitted.