Greenwood County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors
6/8/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 18 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Greenwood County economy.[1]

These 18 sectors have a total direct output of approximately **$147.4 million** and support **680 jobs** in Greenwood County. Running the model for all 18 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Greenwood 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	680.2	19.27%	$32,773,879	19.29%	$147,438,325	86.78%
Indirect Effect	166.2	4.71%	$7,615,272	4.48%	$20,001,345	11.77%
Induced Effect	94.7	2.68%	$5,315,547	3.13%	$10,490,775	6.17%
Total Effect	941.1	26.66%	$45,704,698	26.90%	$177,930,445	104.73%

As shown in the above table, agriculture, food, and food processing sectors support **941 jobs**, or **26.66%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **$177.9 million, roughly 104.73% 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 18 agriculture, food, and food processing sectors is approximately **$45.7 million**, or **26.90% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **26.90% 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.

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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 **503 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Greenwood 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	502.7	$79,853,084
Animal production, except cattle and poultry and eggs	69.7	$10,765,179
Truck transportation	44.3	$6,023,389
All other crop farming	32.4	$3,203,428
Wholesale trade	26.5	$4,322,265
Flour milling	24.2	$33,160,196
Grain farming	15.4	$7,435,067
Support activities for agriculture and forestry	14.3	$474,961
Real estate	13.1	$876,191
Extraction of natural gas and crude petroleum	11.3	$1,064,884

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **$79.9 million** to the Greenwood 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	502.7	$79,853,084
Flour milling	24.2	$33,160,196
Animal production, except cattle and poultry and eggs	69.7	$10,765,179
Oilseed farming	6.7	$8,996,755
Grain farming	15.4	$7,435,067
Truck transportation	44.3	$6,023,389
Wholesale trade	26.5	$4,322,265
All other crop farming	32.4	$3,203,428
Owner-occupied dwellings	0.0	$2,696,957
Electric power transmission and distribution	1.4	$1,737,671

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 Greenwood County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	6.7	$8,996,754.80
Grain farming	15.4	$7,435,067.30
Vegetable and melon farming	0.3	$63,880.24
Fruit farming	1.2	$101,207.32
Tree nut farming	0.2	$43,697.74
Greenhouse, nursery, and floriculture production	11.0	$1,419,853.00
All other crop farming	32.4	$3,203,427.84
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	502.7	$79,853,084.45
Dairy cattle and milk production	2.1	$825,230.88
Poultry and egg production	0.5	$450,074.81
Animal production, except cattle and poultry and eggs	69.7	$10,765,179.18
Commercial logging	2.2	$96,129.52
Commercial hunting and trapping	4.5	$91,126.49
Flour milling	24.2	$33,160,196.33
Bread and bakery product, except frozen, manufacturing	2.9	$305,639.26
Frozen cakes and other pastries manufacturing	0.2	$24,639.79
Breweries	0.8	$355,941.84
Veterinary services	3.0	$247,194.32

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 Greenwood County, the retail sector was omitted.