Norton County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors
6/27/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 13 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Norton County economy.[1]

These 13 sectors have a total direct output of approximately **$148.0 million** and support **501 jobs** in Norton County. Running the model for all 13 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Norton County Economy					
Contribution Type[2]	**Employment**	**% Employment**	**Total Value Added[3]**	**Total Value Added % of Gross Regional Product[4]**	**Output[5]**
Direct Effect	501.0	13.27%	$63,513,673	22.04%	$147,990,167
Indirect Effect	101.6	2.69%	$9,031,015	3.13%	$18,163,486
Induced Effect	66.8	1.77%	$4,300,036	1.49%	$8,479,707
Total Effect	669.4	17.74%	$76,844,724	26.66%	$174,633,360

As shown in the above table, agriculture, food, and food processing sectors support **669 jobs**, or **17.74%** 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 13 agriculture, food, and food processing sectors is approximately **$76.8 million**, or **26.66% 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 **214 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Norton 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	213.7	$63,166,467
Animal production, except cattle and poultry and eggs	141.5	$36,642,503
Support activities for agriculture and forestry	47.9	$2,832,638
Grain farming	38.3	$33,447,895
Landscape and horticultural services	31.4	$1,380,750
Wholesale trade	31.2	$4,918,341
Truck transportation	14.0	$2,231,139
All other crop farming	11.6	$2,111,247
Monetary authorities and depository credit intermediation	11.4	$2,547,366
Extraction of natural gas and crude petroleum	7.6	$950,693

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **$63.2 million** to the Norton 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	213.7	$63,166,467
Animal production, except cattle and poultry and eggs	141.5	$36,642,503
Grain farming	38.3	$33,447,895
Oilseed farming	2.9	$6,908,830
Wholesale trade	31.2	$4,918,341
Support activities for agriculture and forestry	47.9	$2,832,638
Monetary authorities and depository credit intermediation	11.4	$2,547,366
Truck transportation	14.0	$2,231,139
All other crop farming	11.6	$2,111,247
Real estate	5.1	$1,819,270

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 Norton County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	2.9	$6,908,830.17
Grain farming	38.3	$33,447,895.05
Greenhouse, nursery, and floriculture production	1.8	$337,561.13
All other crop farming	11.6	$2,111,247.30
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	213.7	$63,166,465.76
Poultry and egg production	0.0	$50,547.90
Animal production, except cattle and poultry and eggs	141.5	$36,642,501.83
Commercial hunting and trapping	0.9	$17,969.09
Support activities for agriculture and forestry	47.9	$2,832,638.26
Bread and bakery product, except frozen, manufacturing	6.0	$669,005.63
Frozen cakes and other pastries manufacturing	0.2	$29,875.38
Veterinary services	4.8	$394,876.96
Landscape and horticultural services	31.4	$1,380,750.30

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 Norton County, the retail sector was omitted.