Decatur County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors
6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 12 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Decatur County economy.[1]

These 12 sectors have a total direct output of approximately **$113.9 million** and support **352 jobs** in Decatur County. Running the model for all 12 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Decatur 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	352.3	21.17%	$22,031,832	24.54%	$113,865,029	126.81%
Indirect Effect	139.5	8.38%	$9,113,534	10.15%	$18,082,451	20.14%
Induced Effect	91.7	5.51%	$6,301,348	7.02%	$11,727,219	13.06%
Total Effect	583.4	35.06%	$37,446,714	41.70%	$143,674,699	160.01%

As shown in the above table, agriculture, food, and food processing sectors support **583 jobs**, or **35.06%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **$143.7 million, roughly 160.01% 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 12 agriculture, food, and food processing sectors is approximately **$37.4 million**, or **41.70% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **41.70% 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 **247 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Decatur 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	247.0	$67,616,725
Wholesale trade	57.6	$9,902,289
Grain farming	46.5	$36,247,204
All other crop farming	20.4	$3,175,499
Support activities for agriculture and forestry	19.3	$1,017,905
Veterinary services	16.6	$1,302,021
Securities and commodity contracts intermediation and brokerage	15.4	$851,982
Hospitals	14.5	$1,801,940
Real estate	12.1	$1,881,027
Monetary authorities and depository credit intermediation	9.8	$1,759,535

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **$67.6 million** to the Decatur 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	247.0	$67,616,725
Grain farming	46.5	$36,247,204
Wholesale trade	57.6	$9,902,289
All other crop farming	20.4	$3,175,499
Owner-occupied dwellings	0.0	$3,066,886
Dairy cattle and milk production	6.9	$2,760,722
Real estate	12.1	$1,881,027
Hospitals	14.5	$1,801,940
Monetary authorities and depository credit intermediation	9.8	$1,759,535
Veterinary services	16.6	$1,302,021

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 Decatur County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.6	$1,239,439.39
Grain farming	46.5	$36,247,204.43
Vegetable and melon farming	0.0	$8,763.18
All other crop farming	20.4	$3,175,499.25
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	247.0	$67,616,725.24
Dairy cattle and milk production	6.9	$2,760,722.29
Poultry and egg production	0.0	$25,569.70
Animal production, except cattle and poultry and eggs	0.8	$177,883.86
Bread and bakery product, except frozen, manufacturing	3.0	$323,719.92
Farm machinery and equipment manufacturing	1.6	$609,067.61
Veterinary services	16.6	$1,302,021.33
Landscape and horticultural services	8.8	$378,413.30

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 Decatur County, the retail sector was omitted.