

# **Economic Importance of and Economic Impacts Associated with Livestock Production in Butler County**

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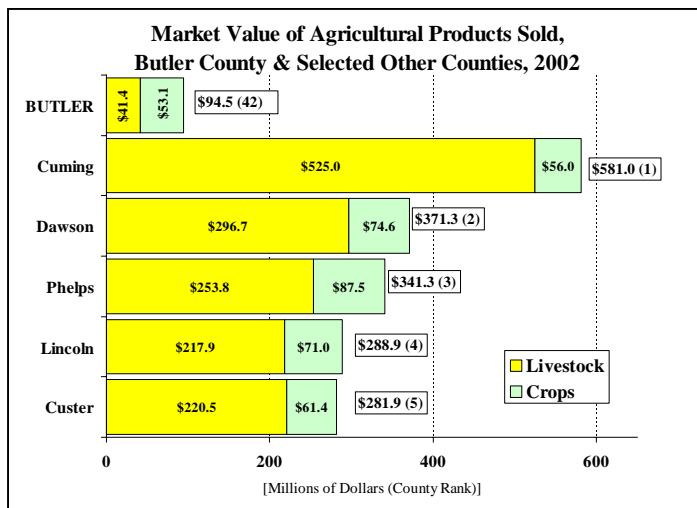
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## Executive Summary

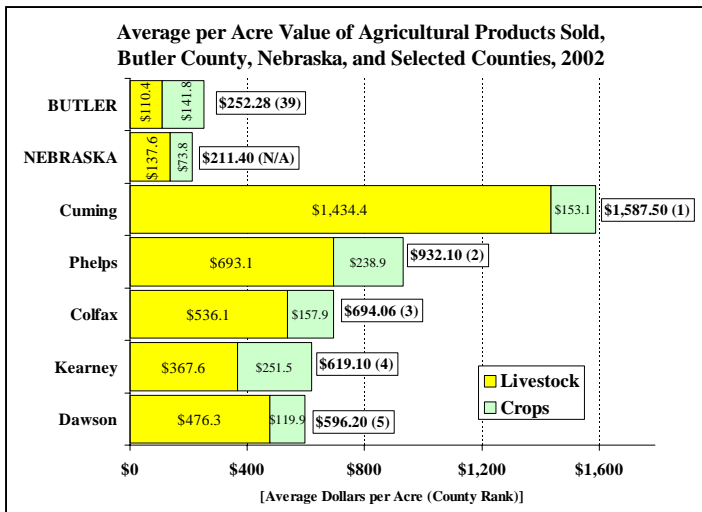
Information provided in this report focuses on the economic importance of the livestock sector in Butler County. The first part of the report reviews agriculture data from the *2002 Census of Agriculture*. These data provide information on the importance of agriculture and the livestock sector in Butler County. The second part of the report analyzes the direct, indirect, and total economic impacts associated with livestock operations in Butler County. This analysis utilizes an IMPLAN input-output (I-O) database and model developed specifically for Butler County.

### Livestock and Agricultural Production in Butler County

The *2002 Census of Agriculture* provides data showing the importance of agriculture and the livestock sector in Butler County. The data presented in the chart indicate the market value of agricultural products sold in Butler County totaled \$94.5 million in 2002. Considering the per farm value of agricultural products sold, Butler County's average of \$112,513 ranked 76th among the counties and was 42.8 percent less than the Nebraska per farm average of \$196,609.



The average market value of agricultural products per acre is shown in the current chart and includes the data for Butler County and for the leading five counties in terms of this measure, along with the Nebraska data. Butler County, with a value of \$252.28, ranks 39th among the Nebraska counties in terms of the market value of agriculture products per acre, with \$110.44 of that amount accounted for by livestock and livestock products. Butler County's per acre average for all agricultural products is 19.3 percent more than the Nebraska per acre average of \$211.40.

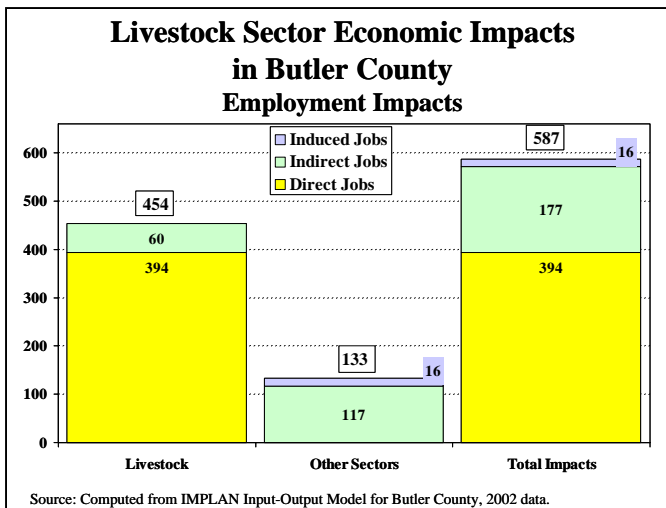
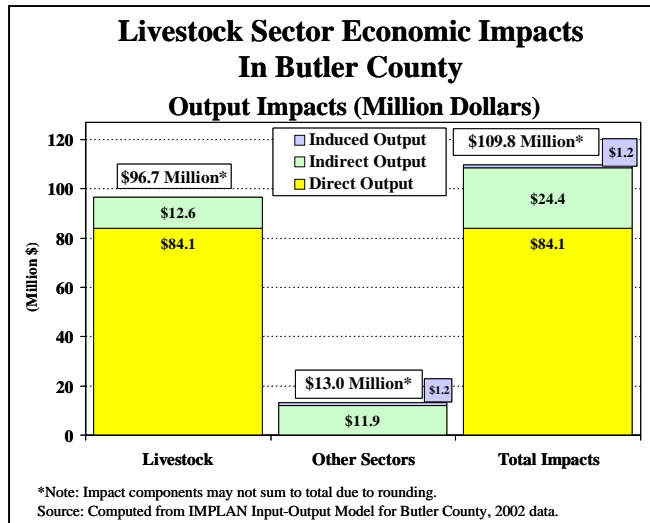


Data provided in this report indicate that livestock and livestock products are not as important as a source of income for Butler County farmers as is true for Nebraska as a whole. The per farm market value of livestock and livestock products averaged \$49,257 (43.8 percent of the total market value of all agricultural products sold) for Butler County, ranking the county 78th among the Nebraska counties in terms of this measure. The average Butler County per farm value (for livestock and livestock products) was only 38.5 percent of (61.5 percent less than) the average per farm value of \$127,959 for Nebraska as a whole.

**Economic Impacts Associated with Livestock Production in Butler County**

The second part of the report provides an assessment of the positive employment and other economic effects associated with the production of livestock and livestock products in Butler County. The analysis utilizes an IMPLAN input-output (I-O) model developed for Butler County. The major positive employment and other economic effects associated with the production of livestock and livestock products in Butler County are summarized in the continuing portion of the Executive Summary.

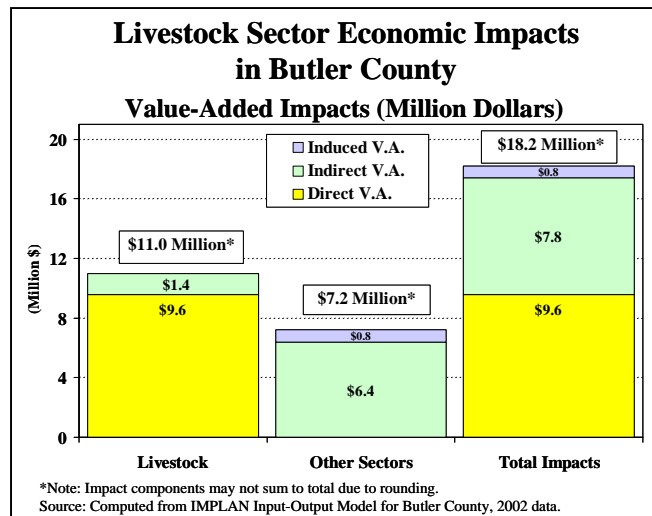
**- Total Output Effects:** The total value of output directly associated with sales to final demand by the livestock sector in Butler County is estimated to be \$84.1 million. When the secondary output effects (indirect and induced output) are added, the total output effects associated with the production of livestock and livestock products in Butler County are estimated to be \$109.8 million. Of this total, 88.1 percent (\$96.7 million) is accounted for by output (direct, indirect, and induced) produced by the livestock sector and the indirect and induced effects in other sectors represent an additional \$13.0 million of output.



**- Employment Effects:** There are an estimated 394 individuals employed in the Butler County livestock products sector producing the output dedicated to sales to final demand (\$84.1 million). When the indirect and induced employment effects are included, employment in the livestock sector is estimated to be 454 workers (and proprietors). The other secondary employment effects (indirect and

induced effects in sectors other than livestock and livestock products) account for an additional 133 employees that support livestock production. When the indirect and induced effects for all sectors are included, the estimated Butler County employment supporting the production of livestock is estimated to be 587 workers.

**- Value-Added Effects:** The value-added effects associated with livestock production in Butler County provide a good measure of the economic value associated with this sector. Value-added consists of payments to the factors of production within the economy and includes payments to labor, proprietors' income, other property income, and indirect business taxes. As the information and analysis provided in this report indicate, the total value-added effects related to the production of livestock and livestock products in Butler County are estimated to be \$18.2 million (for 2002). Of this amount, \$11.0 million represents value-added in the livestock products sector itself and \$7.2 million is value-added in other economic sectors supporting the production of livestock and livestock products in Butler County.



### Livestock-Related Impacts Not Analyzed

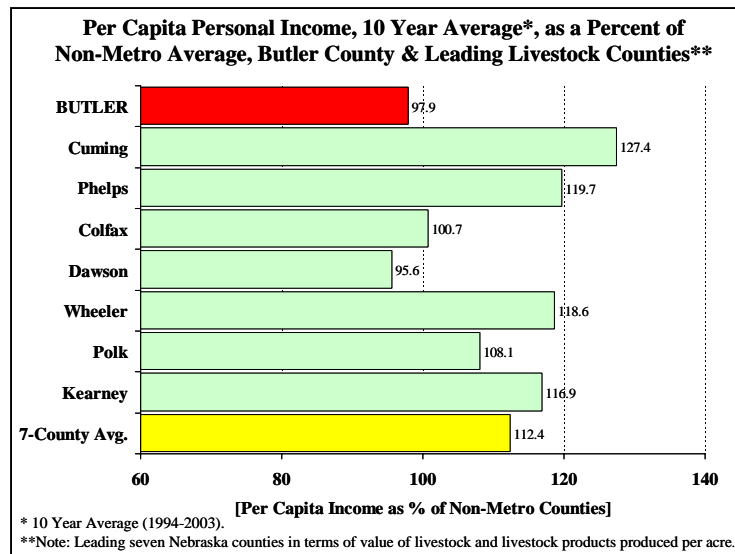
The analysis discussed in this report considers the backward-linkages associated with livestock production in Butler County. That is, the analysis has considered impacts associated with economic sectors providing inputs to support livestock production. The analysis has not considered the “stemming from” effects, or the economic impacts associated with those industry sectors with forward linkages from the livestock production sector. The obvious sector in this regard would be food processing activities utilizing meat products as an input. Obviously, the food and meat processing industry creates a very substantial amount of additional employment and economic activity in Nebraska and in many Nebraska counties, suggesting the contributions of the livestock industry may be significantly greater than reported in this analysis if these forward-linkages were considered.

### Livestock Production and Economic Well Being

A key question about the importance of the livestock industry concerns its contributions to the economic well being of residents of Butler County and other counties where the production of livestock and livestock products may be even more significant as a contributor to overall level of economic activity. Data presented in this report provide some insights into the relationship between livestock production and economic well being, measured in terms of per capita personal income.

Per capita personal income in Cuming County, which is the leading county in Nebraska, in terms of the production of livestock and livestock products, was 26.9 percent more than the average per capita personal income for all non-metropolitan counties for the year 2003. For the ten-year period from 1994 to 2003, the average per capita personal income in Cuming County was 27.4 percent more than the average for the non-metropolitan areas of Nebraska. In the case of Butler County, which ranked 50th among the Nebraska counties in terms of livestock and livestock products sold per acre, per capita income for the ten-year period from 1994 to 2003 was \$21,816. This per capita income level was 2.1 percent less than the average per capita income level for all non-metropolitan counties for the ten-year review period.

For the top seven livestock counties, in terms of the average value of livestock and livestock products sold per acre, the per-capita personal income average in 2003 was 8.6 percent more than for all non-metropolitan counties. In the case of the ten-year average (1994-2003), the per capita personal income average in the leading livestock counties was 12.4 percent more than the average for non-metropolitan counties.

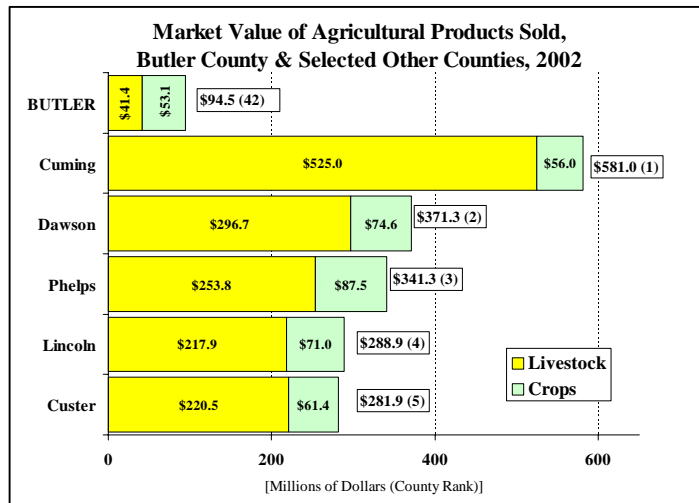


## Economic Importance of and Economic Impacts Associated with Livestock Production in Butler County

Information provided in this report focuses on the importance of the livestock sector to the economy of Butler County. The first part of the report reviews agriculture data from the *2002 Census of Agriculture*. These data provide insights into the importance of agriculture and the livestock sector in Butler County. The second part of the report analyzes the secondary economic impacts associated with livestock production in Butler County. This analysis utilizes an IMPLAN input-output (I-O) database and model developed specifically for Butler County.

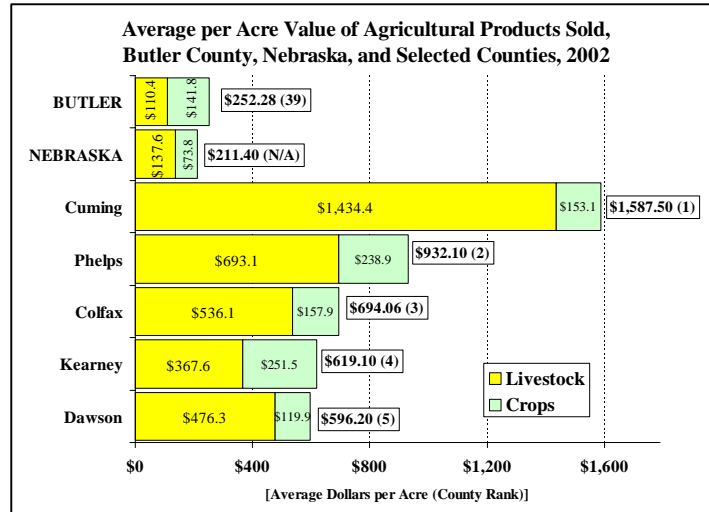
### Livestock and Agricultural Production in Butler County

The *2002 Census of Agriculture* for Nebraska provides data showing the importance of agriculture and the livestock sector for Butler County. The data presented in Table One include the data for Butler County, along with data for Nebraska and selected Nebraska counties. The market value of agricultural products sold in Butler County totaled \$94,511,000 in 2002. This level of sales of agricultural products ranked Butler County 42nd among the Nebraska counties. In terms of the per farm value of agricultural products sold, Butler County's average of \$112,513 ranked 76th among the counties and was only 42.8 percent less than the Nebraska per farm average of \$196,609.



The data reporting the market value of agricultural products sold may be somewhat misleading as these data are affected by the geographic size of the county (number of farms and acres). For example, while Lincoln and Custer counties rank fourth and fifth in terms of the total market value of agricultural products, their high ranking results, in part, from the relatively large size of these counties. When the data are normalized for the size of the county, these counties do not maintain their high rankings. For example, using the average market value of agricultural products per acre, Lincoln County ranks 50th and Custer County ranks 51st among Nebraska's 93 counties.

The average market value of agricultural products per acre is shown in the current chart and includes the data for Butler County and for the top five Nebraska counties in terms of this measure, along with the Nebraska data. These data are also shown in Table One. In terms of the market value of agriculture products sold per acre, Butler County with a value of \$252.28 ranks 39th among the Nebraska counties. Butler County's per acre average for all agricultural products is 19.3 percent more than the Nebraska average of \$211.40.



The data presented in Table One indicate that livestock and livestock products are not as important as a source of income for Butler County farmers as is true for Nebraska as a whole. The per farm market value of livestock and livestock products sold averaged \$49,257 for Butler County, ranking the county 78th among Nebraska's 93 counties in terms of this measure. The market value of livestock products in Butler County accounted for 43.8 percent of the total market value of all agricultural products sold, compared to 65.1 percent for Nebraska. The average Butler County per farm value (for livestock and livestock products sold) was only 38.5 percent of (61.5 percent less than) the average per farm value of \$127,959 for Nebraska.

Table One also provides data reporting the number of farms, land in farms, farm employment, the estimated market value of land and buildings and of machinery and equipment, and net cash farm income of farm operations for Butler County, selected other Nebraska counties, and Nebraska.

**Table One**  
**Agricultural Characteristics, Butler County, Nebraska, and Selected Nebraska Counties, 2002**

	<b>BUTLER COUNTY</b>	<b>Nebraska</b>	<b>Buffalo</b>	<b>Colfax</b>	<b>Cuming</b>	<b>Custer</b>	<b>Dawson</b>	<b>Fillmore</b>	<b>Kearney</b>	<b>Morrill</b>	<b>York</b>
<b>Number of Farms</b>	840	49,355	989	589	904	1,149	718	499	412	443	617
% FT Farms <sup>(a)</sup>	69.2	73.0	70.6	75.0	76.0	76.1	74.2	85.6	87.9	70.0	77.8
<b>Land in farms (Acres)</b>	374,634	45,903,116	601,256	244,361	365,994	1,501,959	622,805	363,915	331,283	872,351	353,762
Average size (Acres)	446	930	608	415	405	1,307	867	729	804	1,969	573
<b>Farm Employment<sup>(b)</sup></b>	850	60,084	1,196	780	1,251	1,566	1,150	767	657	628	778
Average per farm	1.0	1.2	1.2	1.3	1.4	1.36	1.6	1.5	1.6	1.5	1.3
<b>Estimated market value of land and buildings</b>											
Average per farm (\$)	850,209	723,863	787,773	627,679	658,526	696,003	830,919	1,178,604	1,223,182	657,996	1,103,666
Average per acre (\$)	1,902	776	1,312	1,629	1,571	535	1,014	1,685	1,447	327	2,009
<b>Estimated market value of all machinery and equipment</b>											
Average per farm (\$)	87,145	111,776	128,090	121,938	111,129	104,469	137,066	191,054	229,426	104,187	180,841
<b>Market value of agricultural products sold</b>											
(\$1,000)	94,511	9,703,657	179,004	169,600	580,999	281,928	371,332	128,003	205,090	162,576	160,833
Average per farm (\$)	112,513	196,609	180,995	287,946	642,698	245,368	517,176	256,519	497,791	366,990	260,669
Average per acre (\$)	252	211	298	694	1,587	188	596	352	619	186	455
<b>Market value of livestock, poultry, and their products</b>											
Per farm (\$)	49,257	127,959	101,782	222,431	580,723	191,950	413,188	97,629	295,583	300,009	113,810
% Livestock	43.8	65.1	56.2	77.2	90.4	78.2	79.9	38.1	59.4	81.7	43.7
<b>Net cash farm income of operation</b>											
Average per farm (\$)	16,452	24,820	36,509	19,991	36,148	21,659	40,959	55,786	81,169	35,873	51,544

<sup>(a)</sup> Full-time farms are defined as those where the principal operator has indicated their primary occupation is farming.

<sup>(b)</sup> Farm employment estimates for 2003 from the U.S. Department of Commerce, Bureau of Economic Analysis (BEA), where farm employment includes farm proprietors and hired labor.

Source: USDA, National Agricultural Statistics Service, 2002 Census of Agriculture.

### **Economic Impacts Associated with Livestock Production in Butler County**

Information presented in the continuing portion of this report focuses on the economic impacts associated with livestock operations in Butler County. This analysis utilizes an IMPLAN economic input-output (I-O) model developed specifically for Butler County.

From the Butler County I-O model, economic multipliers are derived that quantify the level or magnitude of economic activity necessary to support the production activity of local livestock enterprises. As such, the input-output analysis identifies and quantifies economic linkages associated with the inputs required in order for the livestock sector to produce the level of output it has achieved (backward linkages). The model does not evaluate forward linkages. That is, the model does not provide a measure of additional (downstream) processing made possible by the production of the livestock output, although this is certainly an important factor for Nebraska and for many Nebraska counties.

To provide a basic understanding of the structure and size of the agricultural sector within Butler County, data in Table One provide basic information describing production activity and other parameters for the farm sector from the *2002 Census of Agriculture*.

The IMPLAN database and input-output model provide further insight into the value of production of livestock and livestock products in Butler County. The data in Table Two present estimates of the value of production for the livestock sector reported by the IMPLAN database and I-O model for Butler County in 2002. As the data in Table Two show, the total value of output for livestock and livestock products was reported to be \$96.7 million for 2002 (compared to the \$41.4 million market value of livestock and livestock products sold reported by the *2002 Census of Agriculture*).

The data in Table Two also provide a further disaggregation of livestock and livestock products. As reported in Table Two, cattle ranching and farming (which includes cow-calf operations and cattle feeding) was reported to have a value of production of \$82.5 million for the year 2002. Other animal production activities had an estimated output value of \$14.183 million, including poultry and egg production (\$8.189 million) and animal production, except cattle and poultry (\$5.994 million).

A review of the data in Table Two clearly shows the most significant livestock sector is the beef-producing sector, accounting for 85.3 percent of the total production of livestock and livestock products in Butler County in 2002. Moreover, the beef-producing sector employed 377 (83.0 percent) of the 454 total employment in the livestock-producing sector and accounted for 65.0 percent of the value added by the livestock and livestock products sector.

**Table Two**  
**Agricultural Sector Parameters, Butler County IMPLAN Database, 2002**

<b>Industry</b>	<b>Industry Output</b>	<b>Employment</b>	<b>Employee Compensation</b>	<b>Proprietor Income</b>	<b>Other Property Income</b>	<b>Total Value Added</b>
	(Million \$)		(Million \$)	(Million \$)	(Million \$)	(Million \$)
Oilseed farming	21.356	109	0.036	3.665	5.877	10.278
Grain farming	40.096	360	0.285	4.772	11.247	17.39
Vegetable and melon farming	0.658	2	0.022	0.062	0.35	0.443
All other crop farming	4.663	13	0.122	0.347	1.847	2.452
<b>Livestock &amp; Livestock Products</b>	<b>96.711</b>	<b>454</b>	<b>2.012</b>	<b>-0.749</b>	<b>6.957</b>	<b>11.011</b>
Cattle ranching and farming	82.528	377	1.616	-1.1	4.035	7.161
Poultry and egg production	8.189	7	0.184	0.374	2.281	2.881
Animal production, except cattle and poultry	5.994	70	0.212	-0.023	0.641	0.969

Source: Minnesota IMPLAN Group, Inc., IMPLAN Input-Output Model and database for Butler County (2002 data).

### **Economic Impact Analysis**

The economic linkages and impacts associated with livestock operations in Butler County are analyzed in the balance of this report. The analysis utilizes an input-output model developed for Butler County, for which the livestock producing sectors have been collapsed (aggregated) into one sector (livestock and livestock products). This involves aggregating the two livestock sectors shown in Table Two into one livestock sector. The analysis then focuses on the economic impacts associated with the production of livestock and livestock products in Butler County. This analysis involves identifying the multiplier effects associated with this production sector, where the multiplier effects evaluated include the output multiplier, the employment multiplier, and the value-added multiplier.

Each of the multipliers, in turn, consists of three components: the direct effect, the indirect effect, and the induced effect. The output multiplier defines (quantifies) the change in total output for the economy which is associated with the delivery of an additional unit (dollar) of output of livestock and livestock products to final demand.

The multipliers specified for the livestock sector recognize that changes in output (increases in sales to final demand) by this sector will require additional inputs from other businesses or economic sectors be provided. The industries or economic sectors supplying additional inputs to the livestock sector will find they also must purchase additional inputs in order to expand their output to supply the increased inputs demanded by the livestock enterprises. As the increased demand for goods and services associated with the initial increase in sales to final demand works itself through the sectors of the economy, these effects are collected and termed the indirect effects component of each of the economic multipliers.

The induced component of the economic multipliers follows from the increased personal income (payments to households) in Butler County resulting from the increase in the demand for labor, both with respect to the direct and indirect economic effects. That is, as output is increased by the livestock products sector (direct effect) and in the economic

sectors that supply the additional inputs to the livestock sector (indirect effects), these sectors will add labor inputs and increase their payments to labor. The translation of the additional household incomes into additional expenditures for (consumer) goods and services is referred to as the induced effects. The three effects--direct, indirect, and induced--together represent the total economic impacts embodied in the multipliers utilized to measure the economic impacts associated with the subject livestock enterprises.

The estimated direct, indirect, and induced components of the economic multipliers associated with the production of livestock and livestock products in Butler County are provided in Table Three. As indicated by these data, the three multipliers for which values are reported include the output, value-added, and employment multipliers. The output multiplier indicates that for each dollar of sales to final demand by the livestock sector in Butler County, there will be an estimated increase in total economic output of \$1.30 for the Butler County economy.

<b>Multiplier Component</b>	<b>Total Output <sup>(a)</sup></b>	<b>Total Value Added <sup>(b)</sup></b>	<b>Total Employment <sup>(c)</sup></b>
Direct	1.0000	0.1139	4.6866
Indirect	0.2906	0.0932	2.0943
Induced	0.0142	0.0092	0.1932
<b>Total</b>	<b>1.3048</b>	<b>0.2163</b>	<b>6.9742</b>
<b>Multiplier <sup>(d)</sup></b>	<b>1.3048</b>	<b>1.8999</b>	<b>1.4881</b>

<sup>(a)</sup> Increase in output for each dollar of sales to final demand.  
<sup>(b)</sup> Change in value added for each dollar of sales to final demand.  
<sup>(c)</sup> Total jobs created per million dollars of sales to final demand.  
<sup>(d)</sup> Multiplier values equal the total effects divided by the direct effect.  
Source: Minnesota IMPLAN Group, Inc., IMPLAN Input-Output Model for Butler County, 2002 data.

The value-added multiplier estimates there will be total payments to the factors of production of \$0.2163 for each dollar of sales of livestock and livestock products to final demand. This total value-added effect includes the direct effect of \$0.1139 associated with the initial sales of one dollar of output to final demand, \$0.0932 of payment to the factors of production associated with the increase in output (sales) for the intermediate (supplying) sectors, and the induced effect of \$0.0092 related to the increased household demand for goods and services resulting from the increased payment to labor (household income). The value-added multiplier of 1.8999 indicates for each dollar of value-added in the livestock and livestock products sector, we would expect to see an additional \$0.90 of value-added in other sectors of the Butler County economy.

The employment multiplier indicates for each \$1,000,000 of sales to final demand by the livestock and livestock products sector, there will be a total of 6.97 jobs supported, including the direct, indirect, and induced components of the employment multiplier. Moreover, the employment multiplier shows that for each worker employed in the livestock and livestock products sector, we would expect to find about 0.5 worker employed in other sectors which support livestock production in Butler County.

Table Four provides a summary of the economic effects associated with the production of livestock and livestock products in Butler County. As the information provided in this table is reviewed, it will be of interest to note the estimated sales to final demand by the livestock sector are presented in the table as the direct effects (output, employment, and value-added). For example, the direct output (value of production) associated with sales of livestock and livestock products to the final demand sector by Butler County livestock producers is estimated to be \$84,120,800. From the Butler County I-O model, we estimate that for the Butler County livestock sector to sell this amount of output to final demand, it would need to produce a total of \$96,711,000 of total output, as approximately 13.0 percent (\$12,590,200) of the total output would represent intermediate sales (sales by one producer in the livestock sector to other producers in the same sector).

#### **-Output Effects**

A review of the data presented in Table Four indicates the total output effects (including the direct, indirect, and induced output) associated with the production of livestock and livestock products in Butler County are estimated to be \$109,760,000. Of this total, 88.1 percent (\$96,711,000) is accounted for by output (direct, indirect, and induced) produced by the livestock sector and the indirect and induced effects in other Butler County economic sectors represent an additional \$13,049,900 of output.

#### **-Employment Effects**

There are an estimated 394 people employed in the livestock products sector to produce the output dedicated to sales to final demand (\$84.1 million); when the indirect and induced effects are included, the estimated employment in the livestock sector increases to 454 people. The other secondary employment effects (indirect and induced effects in sectors other than livestock and livestock products), account for an additional 133 jobs and total employment in Butler County supporting the production of livestock and livestock products is estimated to be 587 employees.

#### **-Value-Added Effects**

The value-added effects associated with the livestock production in Butler County provide a measure of the economic value associated with this sector. Value-added consists of payments to the factors of production within the economy and includes payments to labor, proprietors' income, other property income, and indirect business taxes. As the data in Table Four show, the total value-added effects related to the production of livestock and livestock products in Butler County are estimated to be \$18,196,700. Of this amount, \$11,011,000 is value-added in the livestock products sector itself and an estimated \$7,185,700 is value-added in other economic sectors that results

**Table Four**  
**Summary of Output, Employment and Value-Added Effects**  
**Associated with the Livestock Products Sector in Butler County, Nebraska**  
**(Annual Estimates, 2002)**

	Livestock Products	Other Economic Sectors	Total Economic Impacts
<b>Output Effects</b>			
Direct Output (Value of Production)	\$84,120,800	\$0	\$84,120,800
Indirect Effects [0.2906 of Direct]	12,574,800	11,873,000	24,447,800
Induced Effects [0.0142 of Direct]	15,400	1,176,900	1,192,300
<b>Total Output Effects</b>	<b>\$96,711,000</b>	<b>\$13,049,900</b>	<b>\$109,760,900</b>
<b>Employment Effects</b>			
Direct Employment (FTE)	394	0	394
Indirect Effects [0.4492 of Direct]	60	117	177
Induced Effects [0.0406 of Direct]	0	16	16
<b>Total Employment (FTE)</b>	<b>454</b>	<b>133</b>	<b>587</b>
<b>Value-Added Effects</b>			
Direct Value-Added (Payments)	\$9,577,500	\$0	\$9,577,500
Indirect Effects [0.8188 of Direct]	1,431,700	6,410,700	7,842,400
Induced Effects [0.0811 of Direct]	1,800	775,000	776,800
<b>Total Value-Added Effects</b>	<b>\$11,011,000</b>	<b>\$7,185,700</b>	<b>\$18,196,700</b>
Source: Computed from the IMPLAN Input-Output Model for Butler County (2002 data).			

from the additional economic activity in these other economic sectors required to support the production of livestock and livestock products in Butler County

Table Five provides additional detail describing the economic effects associated with the production of livestock and livestock products in Butler County. The data in the table identifies the business or economic sectors that are the primary beneficiaries of the economic activity resulting from livestock production in Butler County. Shown in the table is a list of the leading twenty-five economic and business sectors that are likely to be the most positively impacted by the production of livestock products. The impacts presented in the table include the predicted output, value-added, and employment impacts for each of the twenty-five sectors associated with the production and sales to final demand of the output produced by the livestock sector in Butler County.

**Table Five**  
**Distribution of Livestock Production Economic Impacts, by Selected Economic Sector<sup>(a)</sup>,**  
**Butler County Nebraska, 2002**

<b>Industry</b>	<b>Total Output</b>	<b>% Total Output</b>	<b>Value Added</b>	<b>Employment</b>	<b>% Total Emp.</b>
Livestock-Aggregated	\$96,711,000	88.11	\$1,101,100	454.0	77.34
All other crop farming	4,367,561	3.98	2,296,535	12.3	2.10
Wholesale trade	1,291,040	1.18	934,708	15.9	2.71
Grain farming	1,224,812	1.12	531,205	11.0	1.87
Truck transportation	1,082,424	0.99	498,827	9.7	1.65
Monetary authorities and depository credit inst.	803,911	0.73	516,619	6.8	1.16
Agriculture and forestry support activities	635,797	0.58	397,580	29.1	4.96
Commercial machinery repair and maintenance	561,506	0.51	177,153	7.0	1.19
Owner-occupied dwellings	360,780	0.33	289,057	0.0	0.00
Veterinary services	239,057	0.22	103,249	4.1	0.70
Maintenance and repair of nonresidential buildings	216,716	0.20	108,263	2.8	0.48
Accounting and bookkeeping services	202,703	0.18	162,491	5.2	0.89
Other state and local government enterprises	178,802	0.16	120,773	0.8	0.14
Rail transportation	174,202	0.16	114,592	0.4	0.07
Oilseed farming	169,900	0.15	81,767	0.9	0.15
Automotive repair and maintenance, except car washes	155,905	0.14	68,884	2.5	0.43
Real estate	126,904	0.12	89,539	2.6	0.44
Other animal food manufacturing	93,401	0.09	7,113	0.2	0.03
Offices of physicians, dentists, and other health care	84,277	0.08	68,570	1.0	0.17
Warehousing and storage	72,437	0.07	51,887	0.8	0.14
Telecommunications	58,196	0.05	39,032	0.5	0.09
Nursing and residential care facilities	52,408	0.05	30,011	1.5	0.26
Postal service	52,361	0.05	41,383	0.7	0.12
Food services and drinking places	51,654	0.05	14,659	1.7	0.29
Motor vehicle parts manufacturing	49,357	0.04	4,825	0.2	0.03
<b>Total Top 25 Sectors</b>	<b>\$109,017,111</b>	<b>99.32</b>	<b>\$7,849,822</b>	<b>571.7</b>	<b>97.39</b>
<b>Total Impacts, All Economic Sectors</b>	<b>\$109,760,900</b>	<b>100.00</b>	<b>\$18,196,700</b>	<b>587.0</b>	<b>100.00</b>

<sup>(a)</sup> The selected sectors include the top 25 business sectors impacted by the production of \$84,120,800 of livestock and livestock products for sales to final demand in Butler County (2002).

Source: Computed from the IMPLAN Input-Output Model for Butler County (2002 data).

### **- Livestock Production and Economic Well Being**

Data presented in Table Six provide further insight into the importance of livestock production activities as a contributing factor to economic well being for selected livestock production counties. Included in the table are data showing the average per-acre value of livestock and livestock products sold for Butler County and for the leading livestock counties, according to this metric. Also included in the table are data showing per capita personal income for the counties, as a percent of per capita personal income for all non-metropolitan counties. The per capita personal income index data are included for two time periods. First the income index data are included for 2003. Also, recognizing the volatility of year-to-year changes in income, especially in rural counties, an average per capita personal income index measure is included for a ten-year period, 1994-2003.

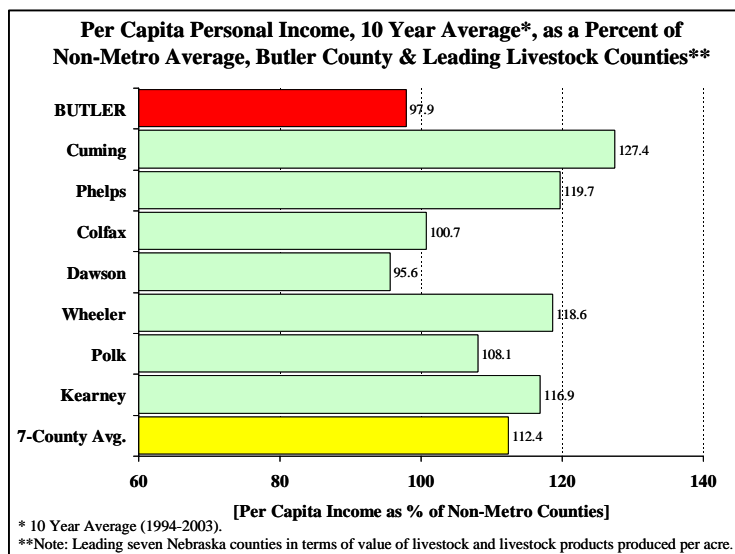
**Table Six**  
**Livestock Production and Per Capita Personal Income,**  
**Butler County and Leading Nebraska Livestock Counties**

County/ Nebraska	Livestock & Livestock Products Per Acre		Per Capita Income (% of Non-Metro Counties)	
	Value (\$)	County Rank	2003	10 Yr Avg. (1994-2003)
<b>BUTLER</b>	<b>110.44</b>	<b>50</b>	<b>94.0</b>	<b>97.9</b>
NEBRASKA	137.60	N/A	114.8	115.5
Cuming	1,434.40	1	126.9	127.4
Phelps	693.10	2	115.3	119.7
Colfax	536.10	3	100.8	100.7
Dawson	476.30	4	89.9	95.6
Wheeler	398.80	5	107.4	118.6
Polk	374.70	6	106.1	108.1
Kearney	367.60	7	113.5	116.9
<b>Average for Top Seven Livestock Counties</b>			<b>108.6</b>	<b>112.4</b>

Source: USDA, National Agricultural Statistics Service, *2002 Census of Agriculture*, and U.S. Bureau of Economic Analysis (BEA), *County Personal Income, 1994-2003*.

As the data shown in Table Six and the accompanying chart indicate, per capita personal income for 2003 in Cuming County, the leading county in Nebraska in terms of the production of livestock and livestock products, was 26.9 percent more than the average per capita personal income for all non-metropolitan counties. For the ten-year period from 1994 to 2003, the average per capita personal income in Cuming County was 27.4 percent more than the average for the non-metropolitan areas of Nebraska. In the case of Butler County, which ranked 50th among the Nebraska counties in terms of livestock sold per acre, average per capita income for the ten-year period, from 1994 to 2003, was \$21,816. This per capita income level was 2.1 percent less than the average per capita income level for all non-metropolitan counties for the 1994-2003 period.

The data presented in Table Six and the accompanying chart also show for the top seven livestock counties, per capita personal income in 2003 was 8.6 percent more than for all non-metropolitan counties. In the case of the ten-year average, per capita personal income in the leading livestock counties was 12.4 percent more than for all non-metropolitan counties.



**If further information about this analysis is desired or if the reader has questions about any aspect of this report, please contact:**

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