

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

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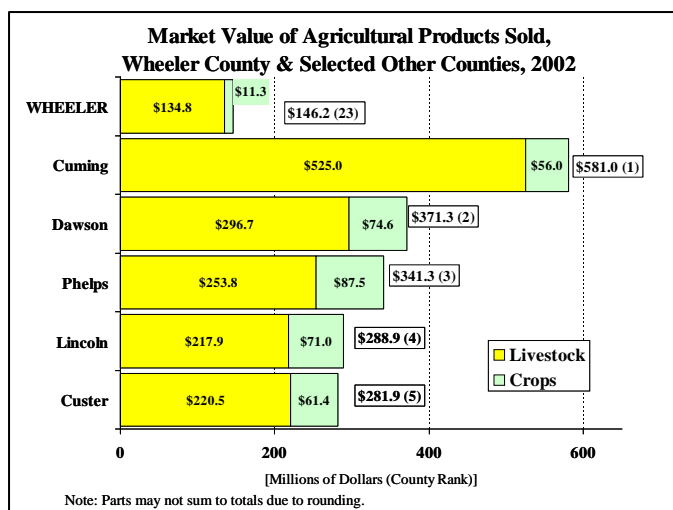
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## Executive Summary

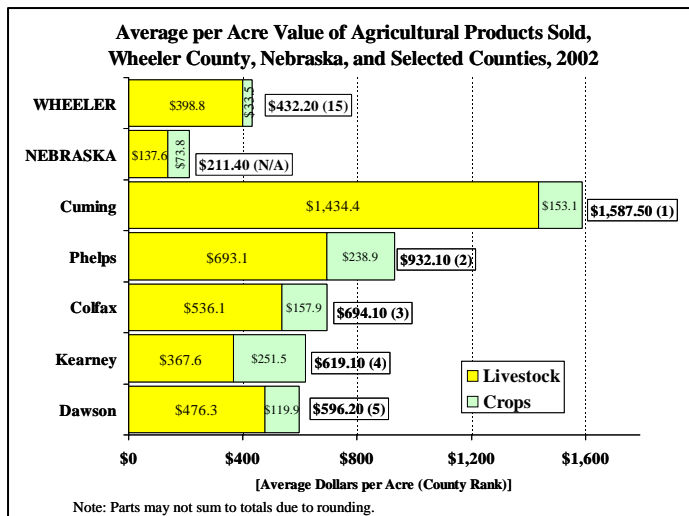
Information provided in this report focuses on the economic importance of the livestock sector in Wheeler County. The first part of the report reviews agriculture data from the *2002 Census of Agriculture*. These data provide information on the importance of agriculture and the livestock sector in Wheeler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

### Livestock and Agricultural Production in Wheeler County

The *2002 Census of Agriculture* provides data showing the importance of agriculture and the livestock sector in Wheeler County. The data presented in the chart indicate the market value of agricultural products sold in Wheeler County totaled \$146.2 million in 2002. Considering the per farm value of agricultural products sold, Wheeler County's average of \$753,372 ranked first among Nebraska's 93 counties and was 3.8 times (283.2 percent more than) the Nebraska per farm average of \$196,609.



The average market value of agricultural products sold per acre is shown in the current chart and includes the data for Wheeler County and for the leading five counties in terms of this measure, along with the Nebraska data. Wheeler County, with a value of \$432.20, ranks 15th among the Nebraska counties in terms of the market value of agriculture products per acre, with \$398.80 of that amount accounted for by livestock and livestock products. Wheeler County's per acre average for all agricultural products is more than double the Nebraska per acre average of \$211.40.

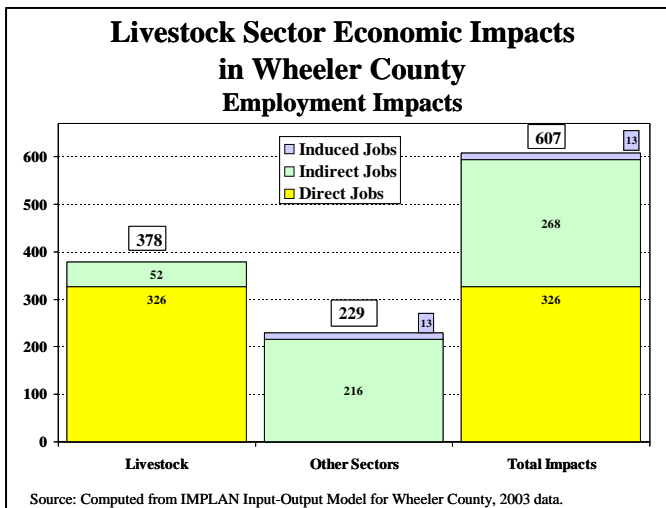
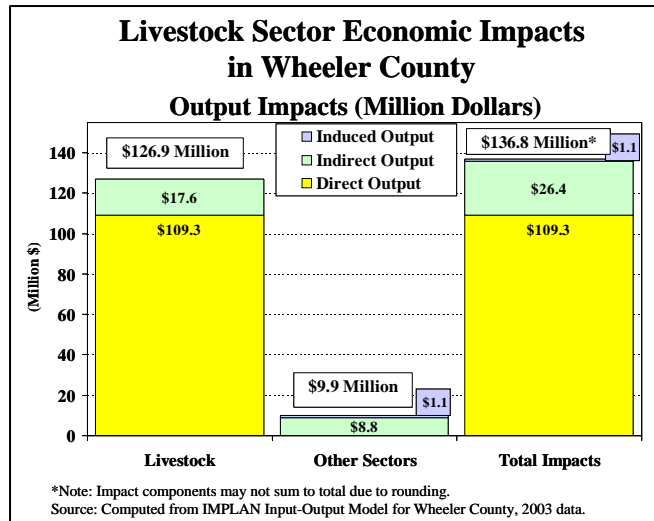


Data provided in this report indicate that livestock and livestock products are significantly more important as a source of income for Wheeler County farmers than for Nebraska as a whole. The per farm market value of livestock and livestock products sold averaged \$695,067 (92.3 percent of the total market value of all agricultural products sold) for Wheeler County, ranking the county first among the Nebraska counties in terms of this measure. The average Wheeler County per farm value for livestock and livestock products sold was more than five times the average per farm value of \$127,959 for Nebraska as a whole.

**Economic Impacts Associated with Livestock Production in Wheeler 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 Wheeler County. The analysis utilizes an IMPLAN input-output (I-O) model developed for Wheeler County. The major positive employment and other economic effects associated with the production of livestock and livestock products in Wheeler County are summarized in the continuing portion of the Executive Summary.

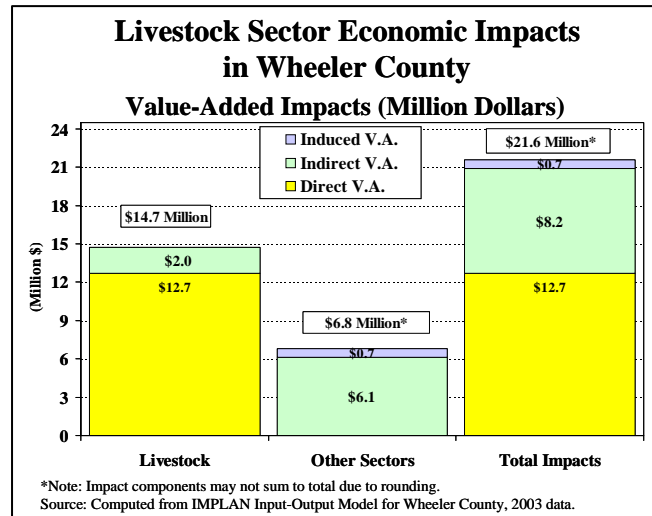
**- Total Output Effects:** The total value of output directly associated with sales to final demand by the livestock sector in Wheeler County is estimated to be \$109.3 million. When the secondary output effects (indirect and induced output) are added, the total output effects associated with the production of livestock and livestock products in Wheeler County are estimated to be \$136.8 million. Of this total, 92.8 percent (\$126.9 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 \$9.9 million of output.



**- Employment Effects:** There are an estimated 326 individuals employed in the Wheeler County livestock products sector producing the output dedicated to sales to final demand (\$109.3 million). When the indirect and induced employment effects are included, employment in the livestock sector is estimated to be 378 workers (and proprietors). The other secondary

employment effects (indirect and induced effects in sectors other than livestock and livestock products) account for an additional 229 employees that support livestock production. When the indirect and induced effects for all sectors are included, the estimated Wheeler County employment supporting the production of livestock is estimated to be 607 workers.

**- Value-Added Effects:** The value-added effects associated with livestock production in Wheeler 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 associated with the production of livestock and livestock products in Wheeler County are estimated to be \$21.6 million. Of this amount, \$14.7 million represents value-added in the livestock products sector itself and \$6.8 million is value-added in other economic sectors supporting the production of livestock and livestock products in Wheeler County.



**Livestock-Related Impacts Not Analyzed**

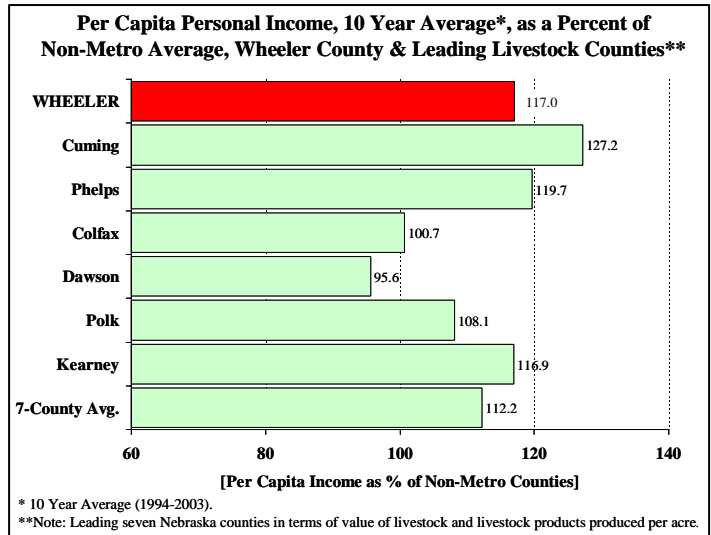
The analysis discussed in this report considers the backward-linkages associated with livestock production in Wheeler County. That is, the analysis has considered impacts associated with economic sectors providing inputs to support livestock production. The analysis has not considered the “stemming from” 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 Wheeler County and other counties where the production of livestock and livestock products may be even more significant as a contributor to the 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 27.2 percent more than the average for the non-metropolitan areas of Nebraska. In the case of Wheeler County, which ranked 5th 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 \$26,054. This per capita income level was 17 percent more than the average per capita income level for all non-metropolitan counties for the ten-year review period. Moreover, per capita personal income for Wheeler County in 2003 was \$35,867 or 36.4 percent more than the average per capita income level for all non-metropolitan counties.

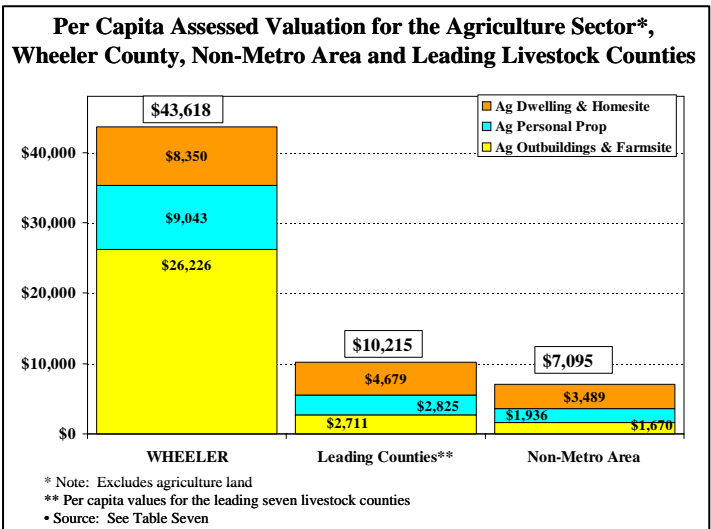
For the top seven livestock counties, in terms of the average value of livestock and livestock products sold per acre, the per-capita personal income average in 2003 was 12.7 percent more than for all non-metropolitan counties. In the case of the ten-year average (1994-2003), the per capita personal income average in the leading livestock counties was 12.2 percent more than for all non-metropolitan counties.



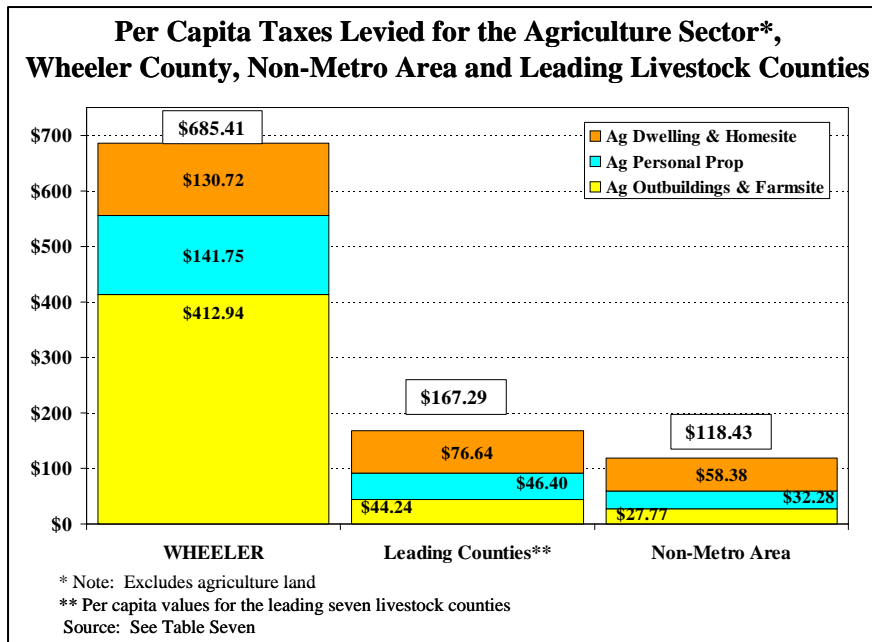
**Livestock Production and Property Taxes**

Livestock production activity contributes in a significant and positive manner to the tax base and to tax revenues needed to support local schools and other local public services.

The per capita assessed valuation of agricultural property (other than agricultural land) was \$10,215 for the leading seven livestock counties, 44.0 percent more than the \$7,095 of per capita assessed valuation for all non-metropolitan counties in the state. In the case of Wheeler County, the per capita assessed valuation of agricultural property (except agricultural land) was \$43,618. This value was more than six times the per capita assessed value of the same class of property for all non-metropolitan counties.



Local tax revenues are also significantly enhanced by the presence of livestock production activity. As this chart illustrates, per capita taxes levied on agricultural property (other than agricultural land) were \$167.29 for the seven leading livestock counties. This level of per capita tax revenues was \$48.86, or 41.3 percent more than per capita tax revenues for the same class of agricultural property for all non-metropolitan counties. In the case of Wheeler County, the per capita taxes levied on this class of agricultural property were \$685.41, or 5.78 times the average per capita tax levies for all non-metropolitan counties.

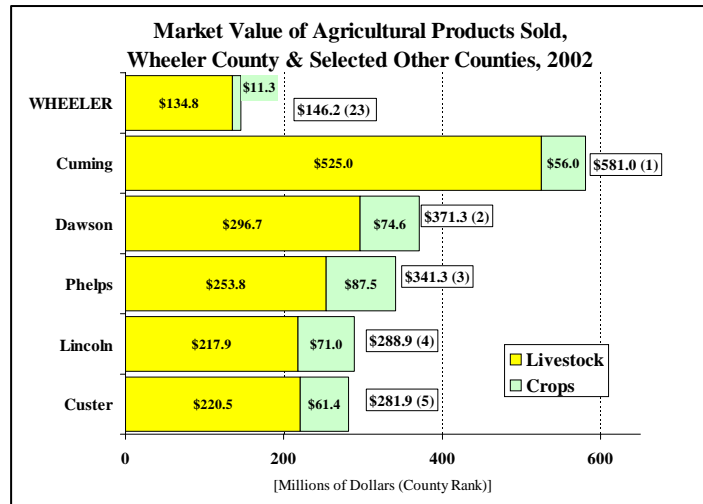


## Economic Importance of and Economic Impacts Associated with Livestock Production in Wheeler County

Information provided in this report focuses on the importance of the livestock sector to the economy of Wheeler 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 Wheeler County. The second part of the report analyzes the secondary economic impacts associated with livestock production in Wheeler County. This analysis utilizes an IMPLAN input-output (I-O) database and model developed specifically for Wheeler County.

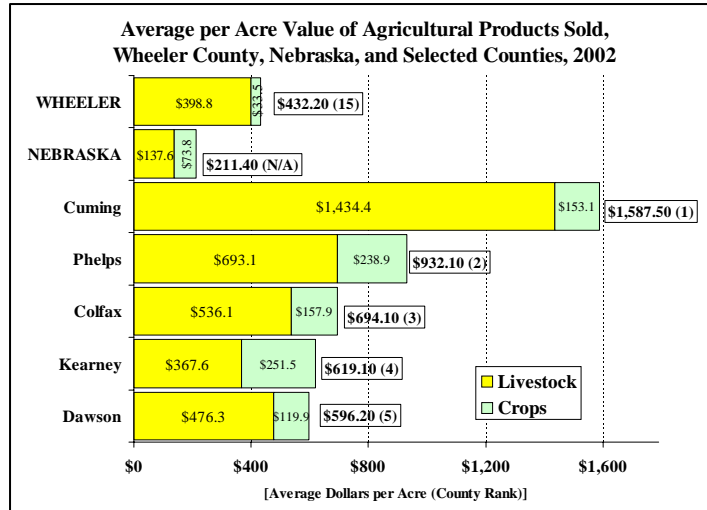
### Livestock and Agricultural Production in Wheeler County

The *2002 Census of Agriculture* provides data showing the importance of agriculture and the livestock sector for Wheeler County. The data presented in Table One include the data for Wheeler County, along with data for Nebraska and selected Nebraska counties. The market value of agricultural products sold in Wheeler County was \$146,154,000 in 2002. This level of sales of agricultural products ranked Wheeler County 23rd among the Nebraska counties in terms of this measure. In terms of the per farm value of agricultural products sold, Wheeler County's average of \$753,372 ranked 1st among the counties and was 3.8 times (283.2 percent more 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 4th and 5th 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 sold per acre, Lincoln County ranks 50th and Custer County ranks 51st among Nebraska's 93 counties.

The average market value of agricultural products sold per acre is shown in the current chart and includes the data for Wheeler 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, Wheeler County with a value of \$432.20 ranks 15th among Nebraska's 93 counties. Wheeler County's per acre average for all agricultural products is more than double the Nebraska per acre average of \$211.40.



Data presented in Table One indicate that livestock and livestock products are significantly more important as a source of income for Wheeler County farmers as is true for Nebraska as a whole. The per farm market value of livestock and livestock products sold averaged \$695,067 for Wheeler County, ranking the county 1st among Nebraska's 93 counties in terms of this measure. The market value of livestock products sold in Wheeler County accounted for 92.3 percent of the total market value of all agricultural products sold, compared to 65.1 percent for Nebraska. The average Wheeler County per farm value (for livestock and livestock products sold) was more than five times 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 Wheeler County, selected other Nebraska counties, and Nebraska.

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

	<b>WHEELER 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>	194	49,355	989	589	904	1,149	718	499	412	443	617
% FT Farms <sup>(a)</sup>	75.8	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>	338,136	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)	1,743	930	608	415	405	1,307	867	729	804	1,969	573
<b>Farm Employment<sup>(b)</sup></b>	341	60,084	1,196	780	1,251	1,566	1,150	767	657	628	778
Average per farm	1.8	1.2	1.2	1.3	1.4	1.4	1.62	1.5	1.6	1.5	1.3
<b>Estimated market value of land and buildings</b>											
Average per farm (\$)	899,296	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 (\$)	525	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 (\$)	134,128	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)	146,154	9,703,657	179,004	169,600	580,999	281,928	371,332	128,003	205,090	162,576	160,833
Average per farm (\$)	753,372	196,609	180,995	287,946	642,698	245,368	517,176	256,519	497,791	366,990	260,669
Average per acre (\$)	432	211	298	694	1,587	188	596	352	619	186	455
<b>Market value of livestock, poultry, and their products</b>											
Per farm (\$)	695,067	127,959	101,782	222,431	580,723	191,950	413,188	97,629	295,583	300,009	113,810
% Livestock	92.3	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 (\$)	27,473	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 Wheeler County**

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

From the Wheeler 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 Wheeler County, data in Table One provide basic information from the *2002 Census of Agriculture* describing production activity and other parameters for the farm sector.

The IMPLAN database and input-output model provide further insight into the value of production of livestock and livestock products in Wheeler 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 Wheeler County for 2003. As the data in Table Two show, the total value of output for livestock and livestock products was reported to be \$126.9 million dollars for 2003 (compared to the \$134.8 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 \$104.1 million for the year 2003. The other animal production activities, except cattle and poultry, had an estimated output value of \$22.8 million. There was no poultry and egg production reported for Wheeler County.

The data presented in Table Two shows the most significant livestock sector is the beef-producing sector, accounting for 82.0 percent of the total production of livestock and livestock products in Wheeler County in 2002. Moreover, the beef-producing sector accounted for 234 of the 378 total reported employees in the livestock-producing sector and accounted for 74.4 percent of the value added by the livestock and livestock products sector.

**Table Two**  
**Agricultural Sector Parameters, Wheeler County IMPLAN Database, 2003**

<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 \$)	(Number)	(Million \$)	(Million \$)	(Million \$)	(Million \$)
Oilseed farming	4.786	13	0.023	1.875	0.799	2.838
Grain farming	9.559	45	0.189	2.854	1.714	4.991
All other crop farming	2.266	3	0.144	0.529	0.626	1.359
<b>Livestock &amp; Livestock Products</b>	<b>126.929</b>	<b>378</b>	<b>6.911</b>	<b>0.203</b>	<b>4.184</b>	<b>14.748</b>
Cattle ranching and farming	104.130	234	4.730	0.681	2.592	10.975
Animal production, except cattle and poultry	22.799	144	2.181	-0.478	1.592	3.773

Source: Minnesota IMPLAN Group, Inc., IMPLAN Input-Output Model and database for Wheeler County (2003 data).

### Economic Impact Analysis

The economic linkages and impacts associated with livestock operations in Wheeler County are analyzed in the balance of this report. The analysis utilizes an input-output model developed for Wheeler 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 Wheeler 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 Wheeler 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 Wheeler County are provided in Table Three. The three economic 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 Wheeler County, there will be an estimated increase in total economic output of \$1.25 for the Wheeler 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	0.1162	2.9792
Indirect	0.2410	0.0747	2.4529
Induced	0.0103	0.0066	0.1169
Total	1.2514	0.1975	5.5490
Multiplier <sup>(d)</sup>	1.2514	1.6996	1.8626

<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 Wheeler County, 2003 data.

The value-added multiplier estimates there will be total payments to the factors of production of \$0.1975 for each dollar of sales of livestock and livestock products to final demand. This total value-added effect includes the direct effect of \$0.1162 associated with the initial sales of one dollar of output to final demand, \$0.0747 of payment to the factors of production associated with the increase in output (sales) for the intermediate (supplying) sectors, and the induced effect of \$0.0066 related to the increased household demand for goods and services resulting from the increased payment to labor (household income). The value-added multiplier of 1.6996 indicates for each dollar of value-added in the livestock and livestock products sector, we would expect to see approximately \$0.70 of additional value-added in other sectors of the Wheeler 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 5.55 jobs supported, including the direct, indirect, and induced components of the employment multiplier.

Moreover, the employment multiplier of 1.8626 indicates that for each 100 workers employed in the livestock and livestock products sector, we would expect to find 86 workers employed in other sectors which support livestock production in Wheeler County.

Table Four provides a summary of the economic effects associated with the production of livestock and livestock products in Wheeler 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 Wheeler County livestock producers is estimated to be \$109,334,900. From the Wheeler County I-O model, we estimate that for the Wheeler County livestock sector to sell this amount of output to final demand, it would need to produce a total of \$126,929,000 of total output, as approximately 13.4 percent (\$17,000,000) 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 Wheeler County are estimated to be \$136,819,900. Of this total, 92.8 percent (\$126,929,000) is accounted for by output (direct, indirect, and induced) produced by the livestock sector and the indirect and induced effects in other Wheeler County economic sectors represent an additional \$9,890,900 of output.

#### **-Employment Effects**

There are an estimated 326 people employed in the livestock products sector to produce the output dedicated to sales to final demand (\$109,334,900); when the indirect and induced effects are included, the estimated employment in the livestock sector increases to 378 people. The other secondary employment effects (indirect and induced effects in sectors other than livestock and livestock products), account for an additional 229 jobs and total employment in Wheeler County supporting the production of livestock and livestock products is estimated to be 607 employees.

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

The value-added effects associated with the livestock production in Wheeler 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 Wheeler County are estimated to be \$21,592,000. Of this amount, \$14,748,300 is value-added in the livestock products sector itself and an estimated \$6,843,700 is value-added in other economic sectors that results because of the additional economic activity in these other economic sectors required to support the production of livestock and livestock products in Wheeler County.

**Table Four**  
**Summary of Output, Employment and Value-Added Effects**  
**Associated with the Livestock Products Sector in Wheeler County, Nebraska**  
**(Annual Estimates, 2003)**

	Livestock Products	Other Economic Sectors	Total Economic Impacts
<b>Output Effects</b>			
Direct Output (Value of Production)	\$109,334,900	\$0	\$109,334,900
Indirect Effects [0.2410 of Direct]	17,588,500	8,765,600	26,354,100
Induced Effects [0.0103 of Direct]	5,600	1,125,300	1,130,900
<b>Total Output Effects</b>	<b>\$126,929,000</b>	<b>\$9,890,900</b>	<b>\$136,819,900</b>
<b>Employment Effects</b>			
Direct Employment (FTE)	326	0	326
Indirect Effects [0.8221 of Direct]	52	216	268
Induced Effects [0.0399 of Direct]	0	13	13
<b>Total Employment (FTE)</b>	<b>378</b>	<b>229</b>	<b>607</b>
<b>Value-Added Effects</b>			
Direct Value-Added (Payments)	\$12,703,900	\$0	\$12,703,900
Indirect Effects [0.6426 of Direct]	2,043,700	6,120,300	8,164,000
Induced Effects [0.0570 of Direct]	700	723,400	724,100
<b>Total Value-Added Effects</b>	<b>\$14,748,300</b>	<b>\$6,843,700</b>	<b>\$21,592,000</b>

Source: Computed from the IMPLAN Input-Output Model for Wheeler County (2003 data).

Table Five provides additional detail describing the economic effects associated with the production of livestock and livestock products in Wheeler County. The data in the table identify the business or economic sectors that are the primary beneficiaries of the economic activity resulting from livestock production in Wheeler County. Shown in the table is a list of the economic and business sectors likely to be 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 sectors associated with the production and sales to final demand of the output produced by the livestock sector in Wheeler County.

**Table Five**  
**Distribution of Livestock Production Economic Impacts, by Selected Economic Sector<sup>(a)</sup>,**  
**Wheeler County Nebraska, 2003**

<b>Industry</b>	<b>Total Output</b>	<b>% Total Output</b>	<b>Value Added</b>	<b>Employment</b>	<b>% Total Emp.</b>
Livestock & Livestock Products, Aggregated	\$126,929,000	92.77	\$14,748,300	378.0	62.27
Agriculture and forestry support activities	3,861,047	2.82	2,973,543	177.2	29.19
All other crop farming	2,127,051	1.55	1,275,554	2.9	0.48
Monetary authorities and depository credit institutions	1,175,814	0.86	827,531	10.4	1.71
Wholesale trade	1,012,551	0.74	770,134	0.3	0.05
Grain farming	613,671	0.45	320,448	2.9	0.48
Owner-occupied dwellings	575,177	0.42	459,807	0.0	0.00
Food services and drinking places	333,464	0.24	101,867	0.1	0.02
Postal service	49,013	0.04	35,409	1.1	0.18
Oilseed farming	38,650	0.03	22,922	0.1	0.02
Other State and local government enterprises	34,631	0.03	9,111	0.0	0.00
Gasoline stations	33,045	0.02	24,972	0.6	0.10
Clothing and clothing accessories stores	21,338	0.02	14,822	8.2	1.35
Transit and ground passenger transportation	12,773	0.01	7,438	0.6	0.10
State and local government passenger transit	2,578	0.00	247	0.2	0.03
Automatic environmental control manufacturing	48	0.00	12	23.9	3.94
Electromedical apparatus manufacturing	39	0.00	9	0.0	0.00
<b>Total Impacts, All Economic Sectors</b>	<b>\$136,819,900</b>	<b>100.00</b>	<b>\$21,592,000</b>	<b>607.0</b>	<b>100.00</b>

<sup>(a)</sup> The business or economic sectors impacted by the production of \$109,334,900 of livestock and livestock products for sales to final demand in Wheeler County (2003).

Source: Computed from the IMPLAN Input-Output Model for Wheeler County (2003 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 Wheeler 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 total personal and per capita personal income, especially in rural counties, an average per capita personal income index measure is included for a ten-year period, 1994-2003.

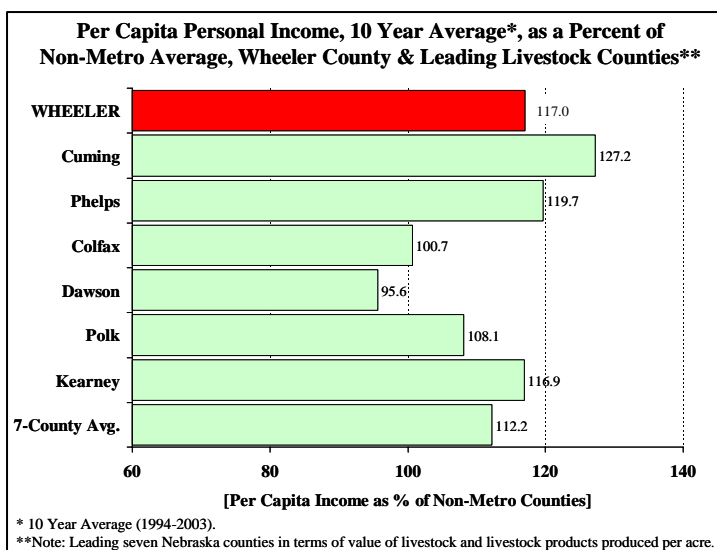
**Table Six**  
**Livestock Production and Per Capita Personal Income,**  
**Wheeler County and Leading Nebraska Livestock Counties**

County/ Nebraska	Livestock & Livestock Products Per Acre		Per Capita Income (% of Non-Metro Counties)	
	Value (\$)	County Rank	2003	10 Yr Avg. (1994-2003)
<b>Wheeler</b>	<b>398.80</b>	<b>5</b>	<b>136.4</b>	<b>117.0</b>
NEBRASKA	137.60	N/A	114.8	115.5
Cuming	1,434.40	1	126.9	127.2
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	136.4	117.0
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>112.7</b>	<b>112.2</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 27.2 percent more than the average for the non-metropolitan areas of Nebraska. In the case of Wheeler County, which ranked 5th 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 \$26,054. This per capita income level was 17.0 percent more than the average per capita income level for all non-metropolitan counties for the 1994-2003 period. Moreover, per capita personal income for Wheeler County in 2003 was \$35,867, or 36.4 percent more than the average per capita income level for all non-metropolitan counties.

The data presented in the table and the accompanying chart also show that, for the top seven livestock counties, per capita personal income in 2003 was 12.7 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 12.2 percent more than for all non-metropolitan counties.



## **Livestock Production and Property Taxes**

As the data presented in Table Seven show, livestock production activity contributes in a significant and positive manner to the tax base and to tax revenues needed to support local schools and other local public services. Part A of the table indicates the per capita assessed valuation of agricultural property (other than agricultural land) was \$10,215 for the leading seven livestock counties, 44.0 percent more than the \$7,095 of per capita assessed valuation for all non-metropolitan counties in the state. In the case of Wheeler County, the per capita assessed valuation of agricultural property (except agricultural land) was \$43,618. This value was more than six times the per capita assessed value of the same class of property for all non-metropolitan counties.

<b>Table Seven</b>				
<b>Agricultural Property Valuation and Taxes Levied Per Capita, Wheeler County, Non-Metropolitan Nebraska, and Leading Nebraska Livestock Counties</b>				
<b>Part A -- Per Capita Assessed Valuation</b>				
<b>County/ Nebraska</b>	<b>Ag. Outbuildings &amp; Farmsite</b>	<b>Ag. Personal Property</b>	<b>Ag. Dwelling &amp; Homesite</b>	<b>Total Ag. Property Except Ag. Land</b>
<b>WHEELER</b>	<b>\$26,226</b>	<b>\$9,043</b>	<b>\$8,350</b>	<b>\$43,618</b>
Non-Metro Area*	1,670	1,936	3,489	7,095
Cuming	4,554	3,537	5,147	13,238
Phelps	3,050	3,745	4,198	10,994
Colfax	2,760	1,804	4,646	9,209
Dawson	905	1,792	2,650	5,347
Wheeler	26,226	9,043	8,350	43,618
Polk	3,753	3,793	8,367	15,913
Kearney	2,387	4,266	8,645	15,298
<b>Average for Top 7 Livestock Counties</b>	<b>\$2,711</b>	<b>\$2,825</b>	<b>\$4,679</b>	<b>\$10,215</b>
<b>Part B -- Per Capita Taxes Levied</b>				
<b>County/ Nebraska</b>	<b>Ag. Outbuildings &amp; Farmsite</b>	<b>Ag. Personal Property</b>	<b>Ag. Dwelling &amp; Homesite</b>	<b>Total Ag. Property Except Ag. Land</b>
<b>WHEELER</b>	<b>\$412.94</b>	<b>\$141.75</b>	<b>\$130.72</b>	<b>\$685.41</b>
Non-Metro Area*	27.77	32.28	58.38	118.43
Cuming	74.85	58.08	84.27	217.20
Phelps	49.34	60.79	68.07	178.20
Colfax	47.32	30.92	79.34	157.58
Dawson	15.06	30.09	43.67	88.81
Wheeler	412.94	141.75	130.72	685.41
Polk	56.58	57.14	126.20	239.92
Kearney	39.79	71.75	145.92	257.47
<b>Average for Top 7 Livestock Counties</b>	<b>\$44.24</b>	<b>\$46.40</b>	<b>\$76.64</b>	<b>\$167.29</b>

\* Non-Metro Area includes Nebraska except Cass, Douglas, Lancaster, Sarpy, and Washington counties.  
Source: Special tabulation provided by the Nebraska Department of Property Assessment & Taxation

Part B of Table Seven also illustrates that local tax revenues are also significantly enhanced by the presence of livestock production activity. These data show the per capita taxes levied on agricultural property (other than agricultural land) were \$167.29 for the seven leading livestock counties. This level of per capita tax revenues was \$48.86, or 41.3 percent more than per capita tax revenues for the same class of agricultural property for all non-metropolitan counties. In the case of Wheeler County, the per capita taxes levied on this class of agricultural property were \$685,41, or 5.78 times the average per capita tax levies for all non-metropolitan areas.

**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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