



Economic Contribution of Animal Agriculture to Missouri

Report completed for the
Missouri Soybean Merchandising Council (MSMC)

May 2016

The University of Missouri Extension Commercial Agriculture Program completed this report. The Commercial Agriculture Program is an interdisciplinary group of faculty in agricultural economics, agricultural engineering, animal science, plant science and veterinary medicine. Their mission is to create new opportunities for Missouri entrepreneurs and develop partnerships with firms dedicated to building profitable and sustainable agriculture and food systems.

The following authors contributed to this report:

Ryan Milhollin	Department of Agricultural and Applied Economics
Joe Horner	Department of Agricultural and Applied Economics
Brett Lenz	Department of Agricultural and Applied Economics

Executive Summary

The economic impact from Missouri's animal agriculture industries extends beyond production of raw agricultural commodities. Missouri has significant animal product processing industries. This report covers the contribution of both Missouri's animal production and processing industries.

Animal production industries include beef cattle, dairy cattle, poultry/egg, hogs and aquaculture amongst others. Animal production industries purchase inputs and services from other businesses in the supply chain. Farm employees and owners spend their household earnings in local businesses. Agricultural commodities are further processed in Missouri, creating a significant number of jobs and further economic activity. Animal processing industries include dairy product manufacturing, animal and poultry slaughter and further processing, pet food manufacturing and other animal food manufacturing.

An analysis was used to model and detail the economic contribution of animal agriculture to Missouri's total economy. In addition, each county in Missouri was modeled to illustrate the local economic importance of animal production and processing. Results from these models illustrate the number of jobs supported, value-added, labor income created and taxes supported. Economic effects were captured in the analysis from direct contributions, indirect contributions and induced contributions. Modelling was done on data from 2014 because this was the most recent complete data available.

For Missouri, the aggregated animal production and processing industries supported 154,268 jobs and paid \$6.212 billion in labor income. Additionally, the effect to value-added (also referred to as gross regional product) provided \$11.682 billion to the state's economy. State/local entities were supported with \$698.7 million in taxes and \$1.435 billion was provided in federal tax dollars.

For individual Missouri counties, top counties in jobs supported from animal production and processing industries were St. Louis (8,665), Greene (7,012) and Buchanan (5,977), which all include large animal processing industries. Similar as jobs supported, the top counties in total value-added were St. Louis (\$1.694 billion), Buchanan (\$590.7 million), and Greene (\$556.8 million). Some counties are more reliant on animal agriculture than others. Sullivan County represents the most dependent county on animal agriculture, with 72 percent of its regional economy supported by these industries. Other counties that have a high proportion of animal agriculture in its total economy include McDonald (51 percent), Vernon (36 percent), Saline (32 percent) and Barry (30 percent).

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Table of Contents

1. METHODS AND TERMINOLOGY	1
2. ECONOMIC CONTRIBUTION OF ANIMAL AGRICULTURE TO MISSOURI	3
3. ECONOMIC CONTRIBUTION OF ANIMAL AGRICULTURE, BY COUNTY	6
APPENDIX	13

1. Methods and Terminology

Economic contribution is a method used to estimate the portion of the economy supported by existing businesses or industry sectors. Multi-industry economic contribution analysis was conducted to describe the portion of the economy supported by Missouri’s animal production and processing industries, both at a state and county level. IMPLAN Pro software was used to complete this analysis. IMPLAN Pro is a nationally recognized and widely used input-output model that includes economic data sets, multipliers and demographic statistics for the entire U.S. economic infrastructure. Estimations in this report used the 2014 IMPLAN data set for Missouri and its counties.

IMPLAN has industry sectors dedicated to the animal production and animal processing industries. IMPLAN’s sectoring scheme aggregates North American Industry Classification Scheme (NAICS) sectors. Exhibit 1.1 details the IMPLAN sectors used to conduct the animal agriculture contribution study and lists jobs supported by those sectors in Missouri’s economy. Beef cattle, dairy cattle, and poultry/egg were included as animal production. The “other animal production” captures a variety of additional animal agriculture, including swine, goat, horse, aquaculture and other specialty animal industries. Animal processing industries include dairy product manufacturing, animal and poultry slaughter/further processing, pet food manufacturing and other animal food manufacturing.

Exhibit 1.1 –Sectors Used in Animal Agriculture Contribution Analysis

IMPLAN Sector Descriptions	Total Missouri Jobs Supported by Industry	Type
Beef cattle ranching and farming	35,670	Animal Production
Other animal production (swine, goats, horse, aquaculture, etc.)	27,195	
Poultry and egg production	3,174	
Dairy cattle and milk production	1,006	
Poultry processing	7,813	Animal Processing
Animal (except poultry) slaughtering	5,677	
Meat processed from carcasses	3,740	
Dog and cat food manufacturing	2,795	
Cheese manufacturing	2,540	
Other animal food manufacturing	1,450	
Fluid milk manufacturing	1,135	
Ice cream and frozen dessert manufacturing	1,024	
Dry, condensed, and evaporated dairy product manufacturing	555	
Rendering and meat byproduct processing	272	
Seafood product preparation and packaging	36	
Creamery butter manufacturing	33	

Economic contribution is influenced by various effects. Three economic effects influence total economic contribution: direct contributions, indirect contributions and induced contributions. **Direct contributions** are directly created by animal production and processing sectors with their industry sales. **Indirect contributions** accumulate when animal agribusinesses purchase materials and services from other businesses. **Induced contributions** accrue when employees and proprietors spend their household income within the economy.

Several measures are used in this report to communicate economic contribution.

- **Jobs** refers to the annual average of jobs supported. A job reported can be either full-time or part-time.
- **Value-added** represents the difference between industry sales and the cost of its intermediate expenditures. This measure includes employee compensation, proprietor income, taxes on production/imports and other property income such as corporate profits, net interest, dividends and rent. Additionally, value-added is often referred to as gross regional product (GRP).
- **Labor income** refers to employment income, which includes proprietor income and employee compensation, such as wages and benefits. It is included in the value-added classification.
- **Taxes** are also included in the value-added classification and displayed separately by state/local and federal taxes. This includes sales taxes, property taxes, motor vehicle licenses, severance taxes, social insurance taxes, corporate profits taxes, income taxes and other miscellaneous taxes.

2. Economic Contribution of Animal Agriculture to Missouri

Exhibit 2.1 details the economic contribution of Missouri’s animal production and processing industries to the state of Missouri in 2014. These industries directly supported 94,115 jobs. Materials and services purchased from input suppliers indirectly supported an additional 28,248 jobs. Household spending induced another 31,905 jobs. After accounting for all economic effects, total jobs supported in Missouri from animal agriculture totaled 154,268. Total annual value-added or contribution to Missouri’s gross regional product (GRP) was approximately \$11.682 billion. Labor income, which is included in the value-added classification, totaled \$6.212 billion.

Exhibit 2.1 – Economic Contribution from Animal Agriculture, Missouri, 2014

Contribution	Jobs (number)	Labor Income (billions)	Value-added (billions)
Direct contribution	94,115	\$3.277	\$6.789
Indirect contribution	28,248	\$1.614	\$2.536
Induced contribution	31,905	\$1.321	\$2.358
Total contribution	154,268	\$6.212	\$11.682

Note: May not sum due to rounding

Source: University of Missouri, using software and data from IMPLAN

The overall economic contribution of the Missouri animal agriculture industries can be broken down by industry sectors impacted. Exhibit 2.2 shows the top ten industries impacted by animal agriculture, ranked by total jobs supported by industry. Information reported includes all economic effects (direct, indirect and induced). Beef cattle ranching and farming was the largest overall employment industry sector, with 35,670 jobs supported and \$547.5 million provided in labor income in 2014. The second and third largest employment industries for animal agriculture was other animal production (swine, goats, horse, etc.) and poultry processing. Beyond production and processing industries that provide direct contributions, other major industries affected include the wholesale trade (6,072 jobs) and truck transportation (4,313 jobs) industries.

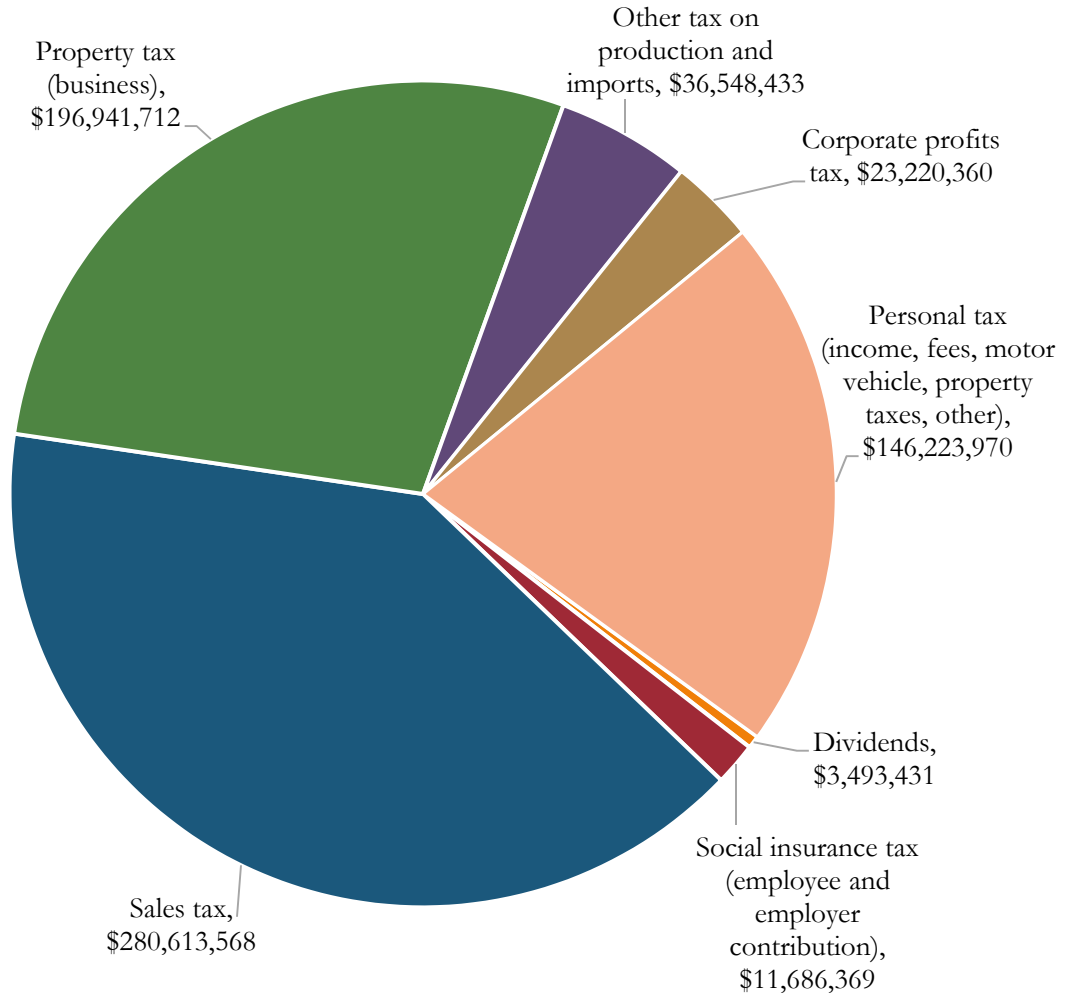
**Exhibit 2.2 – Top Ten Industries Impacted by Animal Agriculture, Missouri, 2014
(Ranked Based on Total Employment)**

Industry Description	Jobs Supported (number)	Labor Income (millions)
Beef cattle ranching and farming	35,670	\$547.5
Other animal production (excluding cattle and poultry and eggs)	27,194	\$749.8
Poultry processing	7,812	\$310.1
Wholesale trade	6,072	\$464.9
Animal (except poultry) slaughtering	5,677	\$278.9
Truck transportation	4,313	\$247.0
Meat processed from carcasses	3,740	\$202.1
Poultry and egg production	3,174	\$284.2
Dog and cat food manufacturing	2,794	\$316.6
Cheese manufacturing	2,540	\$176.0

Source: University of Missouri, using software and data from IMPLAN

Tax revenues (also included in the value-added classification) include those paid to local, state, and federal entities. State and local entities benefit from animal production and processing. Exhibit 2.3 shows the amount of state and local taxes stimulated from animal agriculture. Approximately \$698.7 million in state and local taxes were supported by these industries. The largest type of taxes supported were sales tax (\$280.6 million), followed by business property taxes (\$196.9 million) and personal taxes (\$146.2 million).

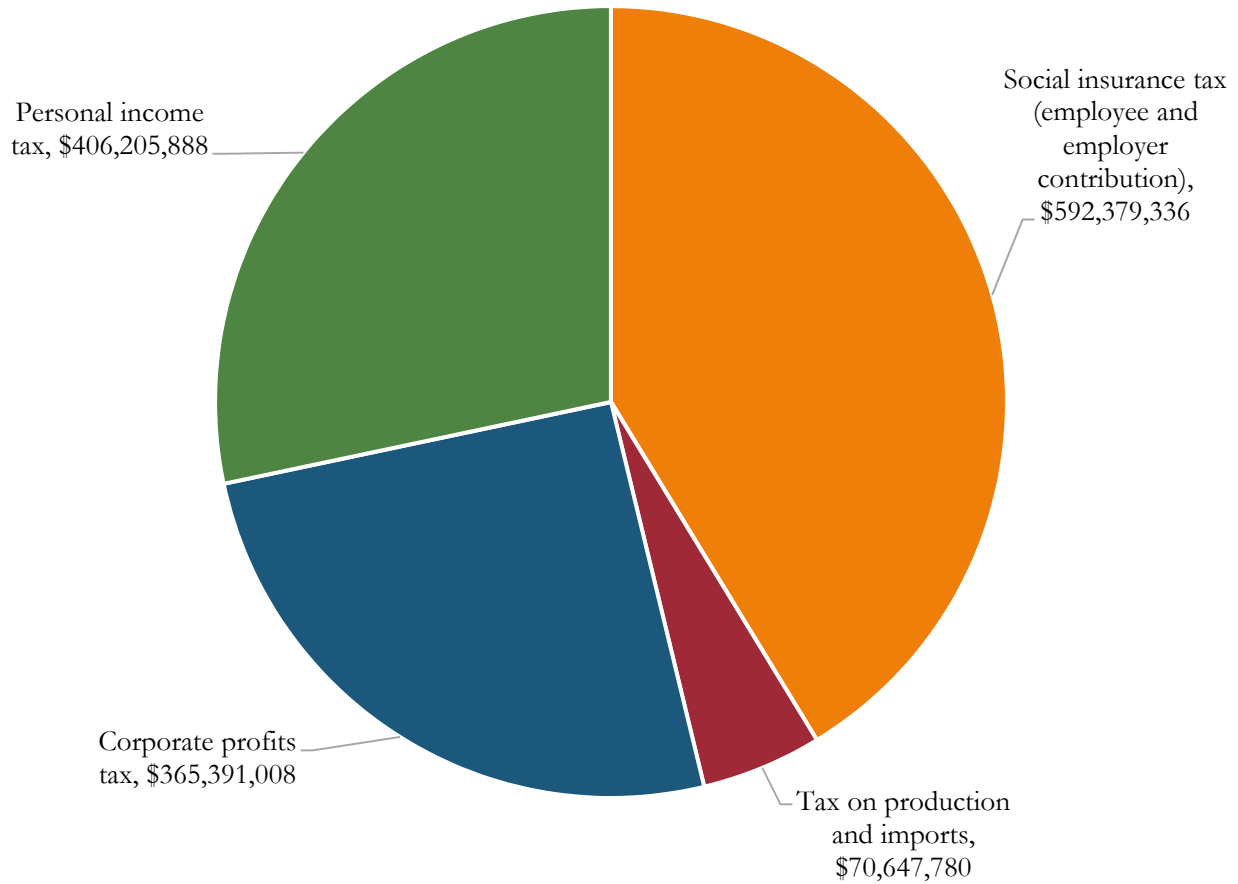
Exhibit 2.3 – State and Local Taxes from Animal Agriculture, Missouri, 2014



Source: University of Missouri, using software and data from IMPLAN

Federal taxes are also created from animal agriculture's contribution. Exhibit 2.4 shows the amount of federal taxes generated as a result from these industries. A total of \$1.435 billion in federal tax dollars were stimulated. Social insurance taxes were the most significant area with approximately 40 percent of the federal taxes (\$592.4 million). Personal income taxes were second with \$406.2 million dollars.

Exhibit 2.4 – Federal Taxes from Animal Agriculture, Missouri, 2014



Source: University of Missouri, using software and data from IMPLAN

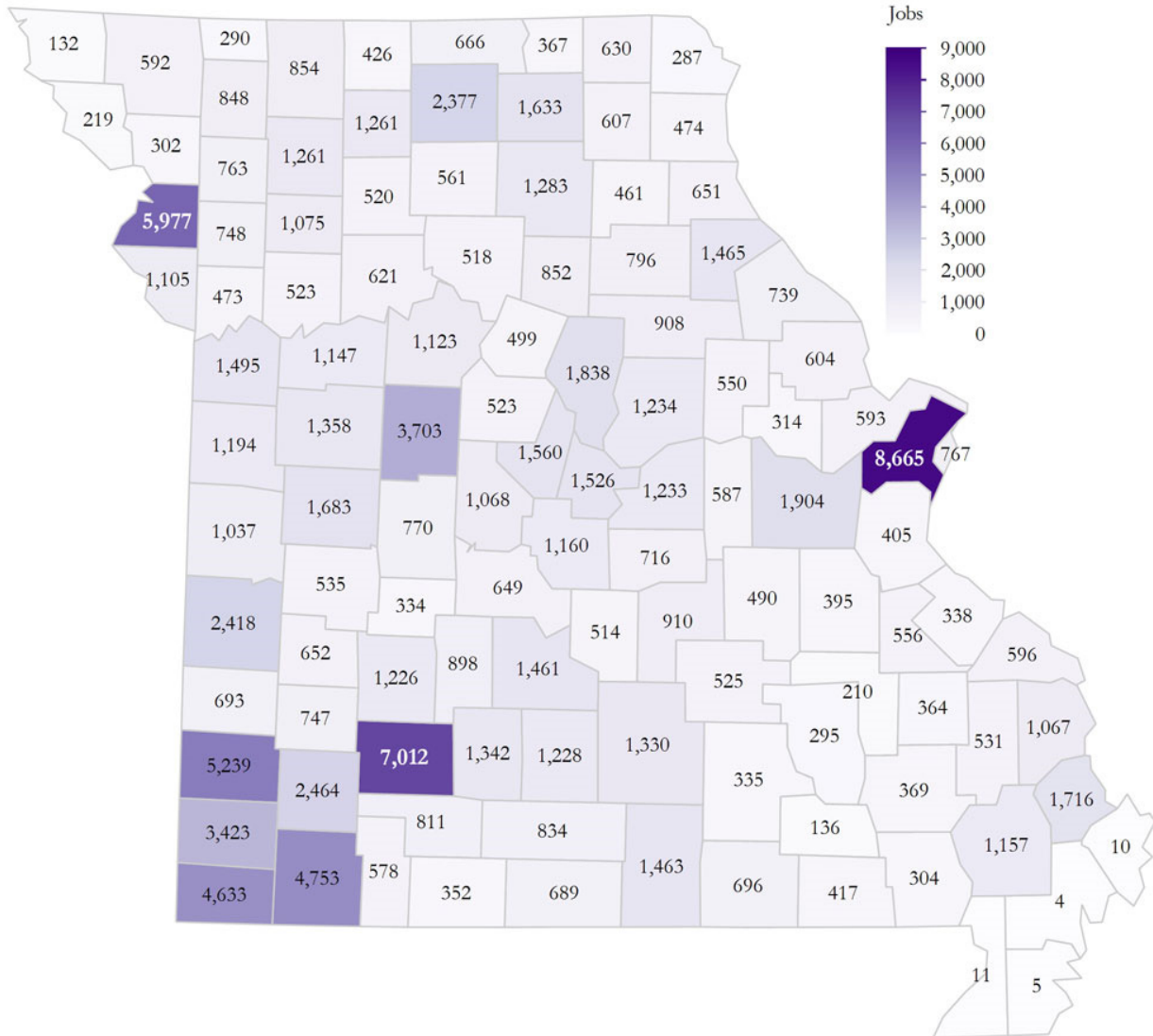
3. Economic Contribution of Animal Agriculture, By County

While animal production and processing have benefited the overall state of Missouri, many of the contributions can also be regionalized. Multi-industry economic contribution analysis was used for all Missouri counties in 2014, following the same methodology and industries used in the state-level contribution. Each county was modeled separately as its own geographic region, thus only capturing the economic effects within that county. Complete detail for each county's contribution analysis can be found in the Appendix and shown by county for its contribution in jobs supported, value-added, labor income and taxes. Additionally, a breakdown of contribution (direct, indirect and induced) is provided for these categories, except for taxes.

The following maps provided in this section provide a summary of total contributions by county and are shaded to reflect areas with higher contribution. The information reported represent the total contribution (all direct, indirect and induced effects).

Exhibit 3.1 details the economic contribution of Missouri’s animal production and processing industries in terms of total jobs supported by county. Missouri’s top three counties in jobs supported in 2014 were St. Louis (8,665), Greene (7,012) and Buchanan (5,977). These counties include some of Missouri’s larger cities (St. Louis, Springfield and St. Joseph).

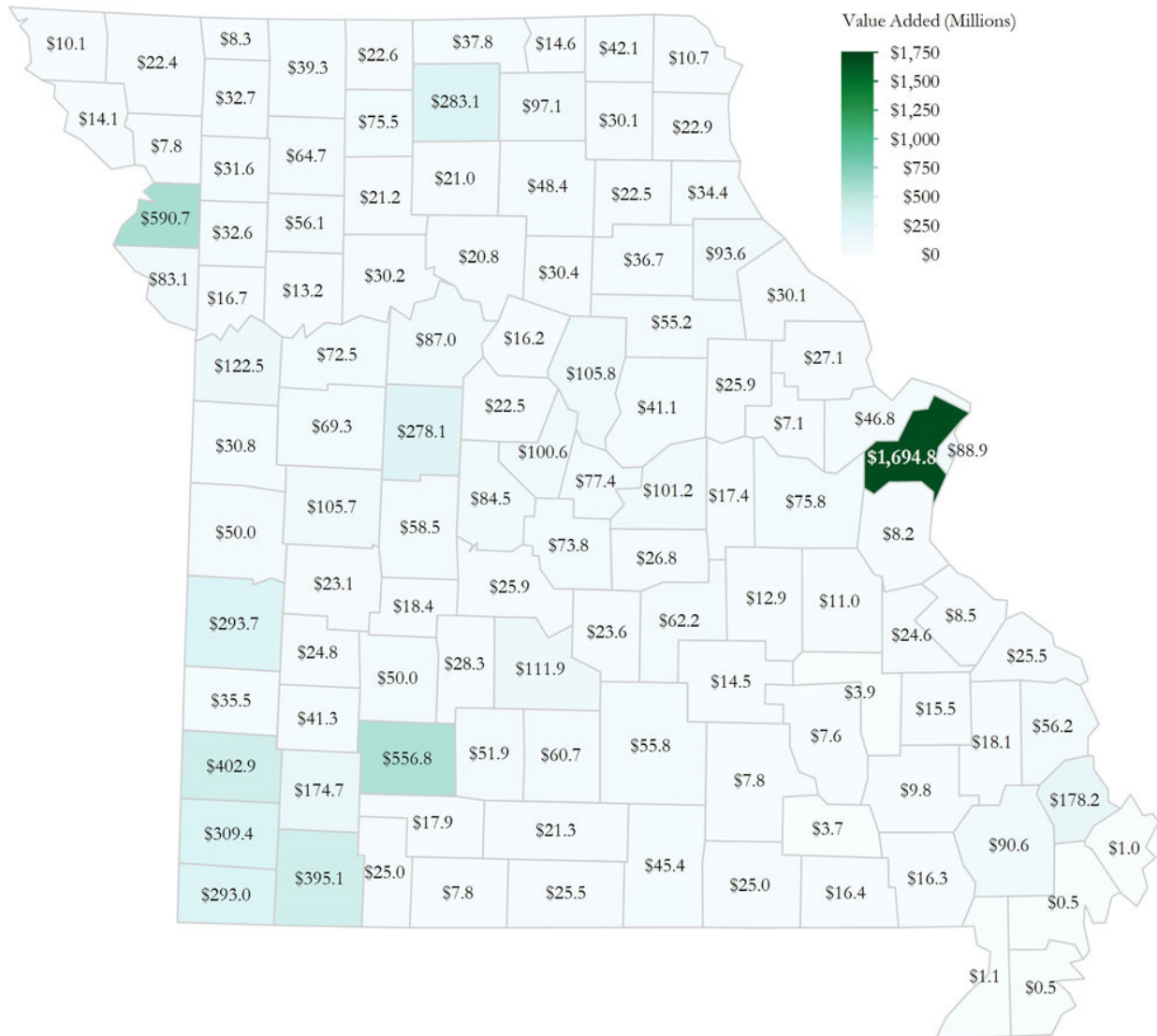
Exhibit 3.1 – Total Jobs Supported from Animal Agriculture, By County, 2014



Source: University of Missouri

Value-added is another metric to demonstrate economic importance. Often referred to as gross regional product (GRP), value-added represents the difference between industry sales and its intermediate expenditures. Exhibit 3.2 shows value-added by counties in 2014 from animal production and processing industries. Similar to the prior map of jobs supported, the top value adding counties influenced by these industries were St. Louis (\$1.694 billion), Buchanan (\$590.7 million) and Greene (\$556.8 million). These top counties reflect the major influence of three particular processing industries: dog and cat food manufacturing, pork processing and dairy product manufacturing.

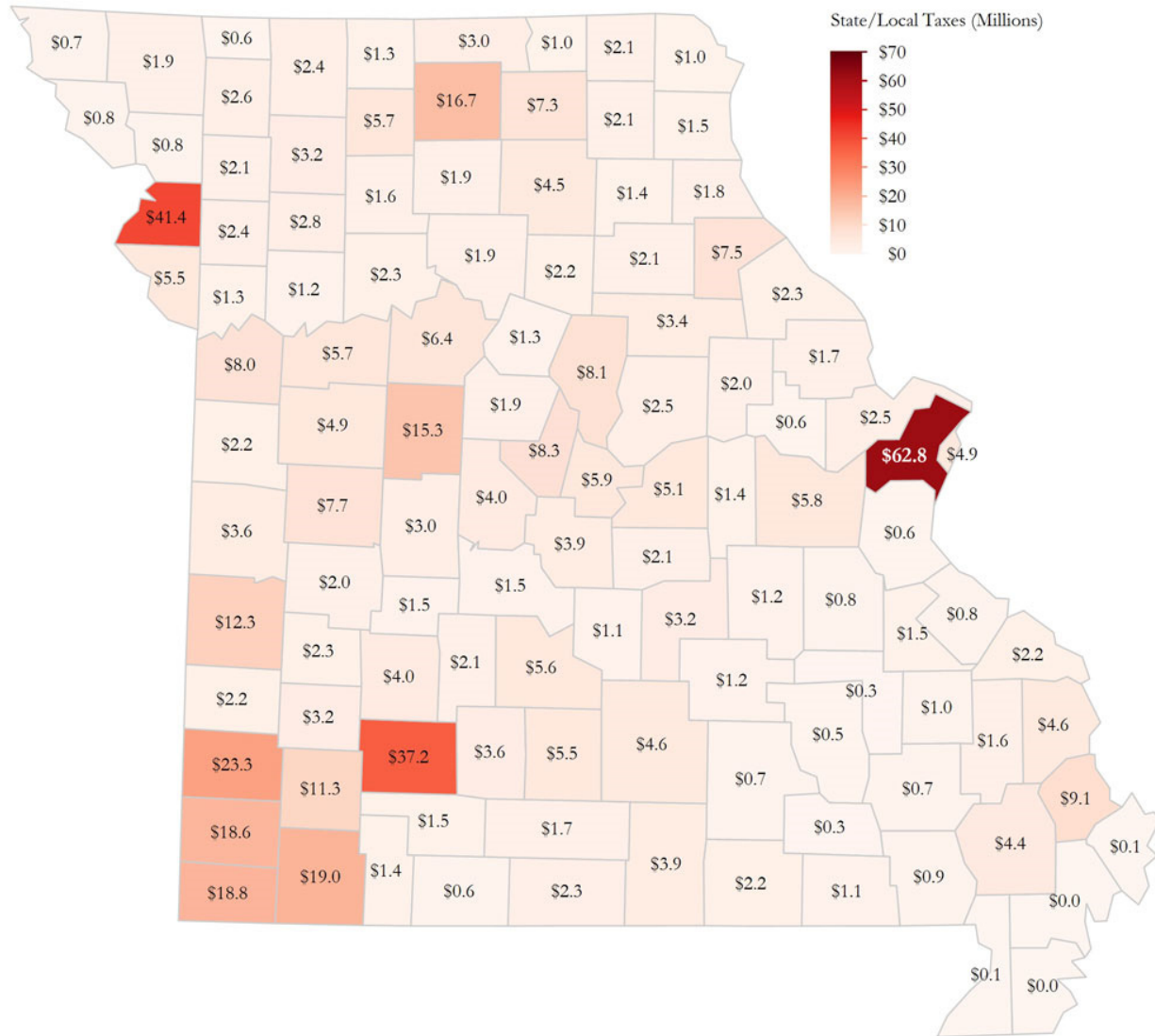
Exhibit 3.2 – Total Value-added from Animal Agriculture, Millions, By County, 2014



Source: University of Missouri

Taxes collected benefit local and state authorities. Exhibit 3.5 detail state/local taxes that were stimulated from animal production and processing industries in each county. Eleven counties had state/local taxes greater than \$10 million in 2014 and six of them resided in the southwest region of Missouri.

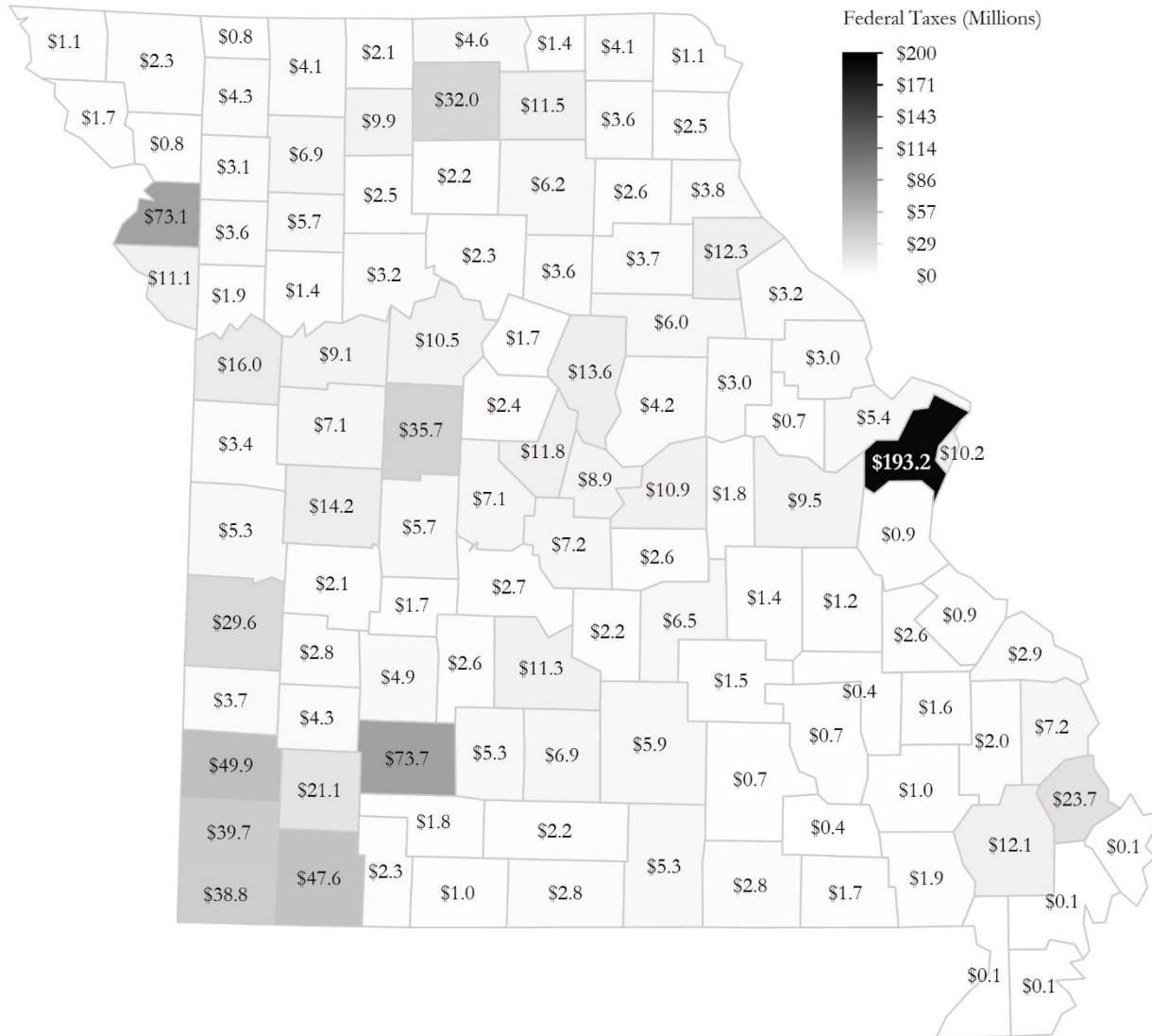
Exhibit 3.5 – Total State/Local Taxes from Animal Agriculture, Millions, By County, 2014



Source: University of Missouri

Exhibit 3.6 shows the amount of federal taxes provided from animal agriculture by county. These taxes are primarily supporting personal income, social insurance and corporate profits taxes. St. Louis County provided \$193.2 million in federal taxes from the animal production and processing industries, more than doubling the amount from the next highest counties (Greene County with \$73.7 million and Buchanan with \$73.1 million).

Exhibit 3.6 – Total Federal Taxes from Animal Agriculture, Millions, By County, 2014



Source: University of Missouri

Appendix

Exhibit A1 – Jobs Supported from Animal Agriculture, By County and Contribution, 2014

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Adair County, MO	1,210.5	152.5	269.8	1,632.8
Andrew County, MO	279.9	11.9	10.6	302.4
Atchison County, MO	109.4	4.1	18.2	131.7
Audrain County, MO	723.0	78.2	106.5	907.7
Barry County, MO	3,219.1	818.1	715.5	4,752.7
Barton County, MO	618.8	18.3	56.0	693.1
Bates County, MO	910.3	56.2	70.5	1037
Benton County, MO	655.8	39.6	74.3	769.7
Bollinger County, MO	449.8	53.6	27.2	530.6
Boone County, MO	1,214.7	298.2	325.3	1,838.2
Buchanan County, MO	4,019.8	852.9	1,103.8	5,976.5
Butler County, MO	250.5	6.8	46.3	303.6
Caldwell County, MO	984.7	18.0	72.5	1,075.2
Callaway County, MO	1,129.6	31.6	72.9	1,234.1
Camden County, MO	533.6	44.3	71.3	649.2
Cape Girardeau County, MO	802.8	112.7	151.2	1,066.7
Carroll County, MO	544.8	25.9	49.9	620.6
Carter County, MO	127.0	3.8	5.1	135.9
Cass County, MO	1,090.1	34.8	69.0	1,193.9
Cedar County, MO	545.9	61.5	44.6	652
Chariton County, MO	456.7	31.7	29.1	517.5
Christian County, MO	752.2	28.4	30.5	811.1
Clark County, MO	257.0	16.1	13.4	286.5
Clay County, MO	401.3	33.1	38.5	472.9
Clinton County, MO	648.3	53.0	46.7	748
Cole County, MO	1,138.3	217.5	170.3	1,526.1
Cooper County, MO	453.3	25.9	43.5	522.7
Crawford County, MO	442.4	26.3	21.2	489.9
Dade County, MO	634.6	68.1	44.2	746.9
Dallas County, MO	814.0	37.8	45.9	897.7
Daviess County, MO	1,147.2	19.5	94.0	1,260.7
DeKalb County, MO	670.2	48.5	43.8	762.5
Dent County, MO	469.2	31.3	24.4	524.9
Douglas County, MO	762.1	37.3	34.2	833.6
Dunklin County, MO	7.5	1.1	1.9	10.5
Franklin County, MO	1,549.9	184.3	169.5	1,903.7
Gasconade County, MO	524.8	28.8	33.6	587.2
Gentry County, MO	726.6	28.7	92.6	847.9
Greene County, MO	2,920.7	2,558.7	1,532.9	7,012.3
Grundy County, MO	1,000.9	93.6	166.3	1,260.8
Harrison County, MO	762.6	24.3	67.2	854.1
Henry County, MO	1,175.4	298.9	208.5	1,682.8
Hickory County, MO	283.4	29.8	21.1	334.3

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Holt County, MO	193.2	4.1	21.4	218.7
Howard County, MO	457.3	20.2	21.2	498.7
Howell County, MO	1,199.0	149.3	114.2	1,462.5
Iron County, MO	191.6	13.1	5.0	209.7
Jackson County, MO	910.2	261.6	323.2	1495
Jasper County, MO	2,731.7	1,591.6	915.9	5,239.2
Jefferson County, MO	369.0	19.0	16.9	404.9
Johnson County, MO	1,107.7	116.2	134.4	1,358.3
Knox County, MO	516.4	58.9	31.2	606.5
Laclede County, MO	1,197.3	37.0	226.6	1,460.9
Lafayette County, MO	769.8	254.3	122.6	1,146.7
Lawrence County, MO	1,805.4	372.9	285.9	2,464.2
Lewis County, MO	418.9	19.9	35.4	474.2
Lincoln County, MO	519.3	38.3	46.4	604.0
Linn County, MO	499.7	30.7	30.9	561.3
Livingston County, MO	416.7	54.7	48.4	519.8
Macon County, MO	1,095.3	83.2	104.3	1,282.8
Madison County, MO	323.2	13.3	27.9	364.4
Maries County, MO	658.1	24.0	33.9	716.0
Marion County, MO	547.1	15.0	88.6	650.7
McDonald County, MO	3,654.3	582.7	396.3	4,633.3
Mercer County, MO	369.6	22.0	34.4	426.0
Miller County, MO	1,002.5	45.9	111.9	1,160.3
Mississippi County, MO	7.2	0.9	2.2	10.3
Moniteau County, MO	1,278.8	131.3	150.1	1,560.2
Monroe County, MO	724.4	26.0	45.4	795.8
Montgomery County, MO	445.9	73.9	30.2	550.0
Morgan County, MO	795.5	181.5	91.0	1,068.0
New Madrid County, MO	3.3	0.3	0.7	4.3
Newton County, MO	2,022.6	813.5	586.9	3,423.0
Nodaway County, MO	525.6	21.6	44.8	592.0
Oregon County, MO	600.3	53.4	42.3	696.0
Osage County, MO	987.1	165.2	80.8	1,233.1
Ozark County, MO	581.2	76.3	31.2	688.7
Pemiscot County, MO	4.1	0.1	0.8	5
Perry County, MO	493.2	60.4	42.8	596.4
Pettis County, MO	2,462.5	629.9	610.9	3,703.3
Phelps County, MO	680.9	144.8	84.4	910.1
Pike County, MO	652.3	31.6	55.3	739.2
Platte County, MO	622.8	295.7	186.4	1,104.9
Polk County, MO	1,077.4	67.1	81.4	1,225.9
Pulaski County, MO	482.4	3.8	27.8	514.0
Putnam County, MO	571.2	38.5	56.6	666.3
Ralls County, MO	1,335.8	49.7	79.8	1,465.3
Randolph County, MO	743.2	54.3	54.3	851.8
Ray County, MO	481.5	18.8	22.7	523.0
Reynolds County, MO	274	13.0	8.4	295.4

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Ripley County, MO	372.2	21.5	23.5	417.2
Saline County, MO	884.7	84.6	153.7	1,123.0
Schuyler County, MO	344.3	9.9	12.5	366.7
Scotland County, MO	561.8	25.0	43.4	630.2
Scott County, MO	898.9	388.5	428.6	1,716.0
Shannon County, MO	307.4	19.5	7.7	334.6
Shelby County, MO	398.5	31.2	30.9	460.6
St. Charles County, MO	360.3	140.1	92.9	593.3
St. Clair County, MO	476.2	31.5	27	534.7
St. Francois County, MO	450.5	51.3	54.1	555.9
St. Louis City, MO	368.4	299.7	98.8	766.9
St. Louis County, MO	2,386.5	3,532.5	2,746.4	8,665.4
Ste. Genevieve County, MO	312.1	14.1	11.8	338.0
Stoddard County, MO	777.8	198.6	180.8	1,157.2
Stone County, MO	503.0	36.8	38.0	577.8
Sullivan County, MO	2,014.4	131.5	231.3	2,377.2
Taney County, MO	319.8	11.6	20.7	352.1
Texas County, MO	1,041.5	213.4	74.8	1,329.7
Vernon County, MO	1,719.5	237.2	461.3	2,418.0
Warren County, MO	299.8	5.3	9.2	314.3
Washington County, MO	357.5	23.6	13.9	395.0
Wayne County, MO	350.2	5.1	13.8	369.1
Webster County, MO	1,199.8	71.7	70.4	1,341.9
Worth County, MO	273.1	6.5	10.8	290.4
Wright County, MO	911.6	219.5	97.3	1,228.4

Exhibit A2 – Labor Income from Animal Agriculture, By County and Contribution, 2014

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Adair County, MO	\$42,726,069	\$4,815,525	\$7,703,592	\$55,245,186
Andrew County, MO	\$3,307,009	\$270,555	\$257,973	\$3,835,537
Atchison County, MO	\$5,151,723	\$160,304	\$481,520	\$5,793,547
Audrain County, MO	\$22,650,234	\$2,721,228	\$2,918,049	\$28,289,511
Barry County, MO	\$159,011,970	\$30,670,929	\$19,141,552	\$208,824,451
Barton County, MO	\$16,073,943	\$477,539	\$1,320,960	\$17,872,442
Bates County, MO	\$21,989,368	\$1,415,333	\$1,930,857	\$25,335,558
Benton County, MO	\$22,428,113	\$850,186	\$1,859,367	\$25,137,666
Bollinger County, MO	\$5,959,251	\$2,275,613	\$560,857	\$8,795,721
Boone County, MO	\$37,595,165	\$14,241,022	\$11,763,473	\$63,599,660
Buchanan County, MO	\$199,253,349	\$45,796,415	\$42,019,843	\$287,069,607
Butler County, MO	\$8,541,515	\$286,161	\$1,419,082	\$10,246,758
Caldwell County, MO	\$25,142,338	\$423,978	\$1,570,241	\$27,136,557
Callaway County, MO	\$18,800,241	\$953,964	\$2,397,746	\$22,151,951
Camden County, MO	\$10,989,420	\$460,922	\$2,159,862	\$13,610,204
Cape Girardeau County, MO	\$21,885,981	\$4,888,970	\$5,783,662	\$32,558,613
Carroll County, MO	\$13,508,270	\$797,340	\$1,213,266	\$15,518,876
Carter County, MO	\$1,575,565	\$91,280	\$102,949	\$1,769,794
Cass County, MO	\$15,603,360	\$1,059,840	\$1,755,479	\$18,418,679
Cedar County, MO	\$10,118,540	\$1,307,418	\$886,352	\$12,312,310
Chariton County, MO	\$8,763,687	\$1,007,399	\$768,299	\$10,539,385
Christian County, MO	\$7,458,936	\$457,169	\$667,634	\$8,583,739
Clark County, MO	\$4,346,775	\$436,557	\$397,398	\$5,180,730
Clay County, MO	\$6,581,711	\$1,438,651	\$1,380,318	\$9,400,680
Clinton County, MO	\$13,726,144	\$2,368,536	\$1,444,589	\$17,539,269
Cole County, MO	\$25,222,865	\$9,992,484	\$6,459,313	\$41,674,662
Cooper County, MO	\$10,519,701	\$836,551	\$1,076,611	\$12,432,863
Crawford County, MO	\$5,073,253	\$517,321	\$761,330	\$6,351,904
Dade County, MO	\$16,591,439	\$2,068,656	\$1,011,597	\$19,671,692
Dallas County, MO	\$11,107,491	\$988,574	\$948,138	\$13,044,203
Daviess County, MO	\$35,089,872	\$534,959	\$1,990,227	\$37,615,058
DeKalb County, MO	\$12,099,569	\$1,876,600	\$1,290,401	\$15,266,570
Dent County, MO	\$5,685,047	\$975,968	\$597,102	\$7,258,117
Douglas County, MO	\$9,259,634	\$798,643	\$681,201	\$10,739,478
Dunklin County, MO	\$379,376	\$53,236	\$57,066	\$489,678
Franklin County, MO	\$29,936,018	\$8,007,451	\$5,644,627	\$43,588,096
Gasconade County, MO	\$7,030,466	\$717,361	\$744,000	\$8,491,827
Gentry County, MO	\$20,881,609	\$1,091,900	\$2,373,841	\$24,347,350
Greene County, MO	\$142,630,735	\$135,281,194	\$59,636,528	\$337,548,457
Grundy County, MO	\$39,717,223	\$2,625,856	\$4,767,925	\$47,111,004
Harrison County, MO	\$17,299,505	\$652,891	\$1,789,039	\$19,741,435
Henry County, MO	\$42,395,958	\$12,113,199	\$5,813,165	\$60,322,322
Hickory County, MO	\$7,859,805	\$598,615	\$468,884	\$8,927,304
Holt County, MO	\$7,796,938	\$125,158	\$508,765	\$8,430,861
Howard County, MO	\$7,461,548	\$497,046	\$527,011	\$8,485,605

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Howell County, MO	\$15,631,797	\$5,181,460	\$3,574,162	\$24,387,419
Iron County, MO	\$1,616,231	\$121,317	\$98,250	\$1,835,798
Jackson County, MO	\$45,038,806	\$17,896,619	\$15,248,558	\$78,183,983
Jasper County, MO	\$122,063,895	\$78,570,644	\$32,156,243	\$232,790,782
Jefferson County, MO	\$3,566,148	\$366,444	\$472,314	\$4,404,906
Johnson County, MO	\$28,311,850	\$3,300,253	\$3,514,053	\$35,126,156
Knox County, MO	\$13,278,258	\$1,861,862	\$743,289	\$15,883,409
Laclede County, MO	\$49,988,124	\$1,458,985	\$6,576,137	\$58,023,246
Lafayette County, MO	\$23,031,083	\$10,347,941	\$3,421,974	\$36,800,998
Lawrence County, MO	\$76,180,774	\$14,458,558	\$7,414,842	\$98,054,174
Lewis County, MO	\$11,067,609	\$597,089	\$937,745	\$12,602,443
Lincoln County, MO	\$13,019,125	\$949,596	\$1,162,742	\$15,131,463
Linn County, MO	\$8,229,586	\$926,752	\$963,863	\$10,120,201
Livingston County, MO	\$7,356,906	\$2,450,853	\$1,573,185	\$11,380,944
Macon County, MO	\$22,812,649	\$2,595,632	\$2,467,842	\$27,876,123
Madison County, MO	\$7,097,142	\$283,950	\$653,815	\$8,034,907
Maries County, MO	\$11,256,068	\$738,687	\$690,765	\$12,685,520
Marion County, MO	\$14,910,041	\$647,286	\$2,866,869	\$18,424,196
McDonald County, MO	\$151,463,202	\$18,760,850	\$11,119,145	\$181,343,197
Mercer County, MO	\$16,296,275	\$766,942	\$913,737	\$17,976,954
Miller County, MO	\$29,677,203	\$1,207,265	\$3,310,905	\$34,195,373
Mississippi County, MO	\$603,983	\$39,687	\$58,921	\$702,591
Moniteau County, MO	\$44,057,503	\$4,716,991	\$3,454,208	\$52,228,702
Monroe County, MO	\$16,550,072	\$557,884	\$1,051,289	\$18,159,245
Montgomery County, MO	\$9,375,957	\$2,130,246	\$663,245	\$12,169,448
Morgan County, MO	\$31,680,914	\$2,358,886	\$2,341,464	\$36,381,264
New Madrid County, MO	\$216,633	\$18,079	\$22,958	\$257,670
Newton County, MO	\$106,664,251	\$34,331,052	\$15,263,920	\$156,259,223
Nodaway County, MO	\$9,202,104	\$669,253	\$1,225,576	\$11,096,933
Oregon County, MO	\$10,228,967	\$1,587,844	\$943,521	\$12,760,332
Osage County, MO	\$28,924,712	\$5,122,582	\$2,097,723	\$36,145,017
Ozark County, MO	\$9,918,166	\$2,307,011	\$652,756	\$12,877,933
Pemiscot County, MO	\$255,455	\$7,685	\$20,997	\$284,137
Perry County, MO	\$8,637,152	\$2,567,839	\$1,193,540	\$12,398,531
Pettis County, MO	\$120,395,839	\$30,644,836	\$17,916,929	\$168,957,604
Phelps County, MO	\$13,448,168	\$5,614,775	\$2,825,493	\$21,888,436
Pike County, MO	\$13,782,377	\$933,650	\$1,515,329	\$16,231,356
Platte County, MO	\$22,580,927	\$17,764,321	\$6,988,190	\$47,333,438
Polk County, MO	\$20,248,729	\$1,870,929	\$2,238,739	\$24,358,397
Pulaski County, MO	\$10,152,963	\$127,435	\$754,946	\$11,035,344
Putnam County, MO	\$25,015,485	\$1,134,683	\$1,394,345	\$27,544,513
Ralls County, MO	\$50,357,711	\$2,762,985	\$2,308,663	\$55,429,359
Randolph County, MO	\$12,509,153	\$1,461,944	\$2,180,706	\$16,151,803
Ray County, MO	\$5,656,768	\$524,065	\$634,656	\$6,815,489
Reynolds County, MO	\$3,131,807	\$231,296	\$209,311	\$3,572,414
Ripley County, MO	\$6,964,529	\$585,890	\$559,719	\$8,110,138
Saline County, MO	\$37,231,672	\$5,395,478	\$4,821,593	\$47,448,743

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Schuyler County, MO	\$6,392,776	\$191,775	\$263,940	\$6,848,491
Scotland County, MO	\$18,397,510	\$629,078	\$973,243	\$19,999,831
Scott County, MO	\$63,377,473	\$20,140,226	\$13,630,138	\$97,147,837
Shannon County, MO	\$3,123,544	\$421,602	\$160,073	\$3,705,219
Shelby County, MO	\$11,586,170	\$799,103	\$730,464	\$13,115,737
St. Charles County, MO	\$10,971,782	\$6,917,191	\$3,190,397	\$21,079,370
St. Clair County, MO	\$9,128,859	\$748,590	\$666,523	\$10,543,972
St. Francois County, MO	\$8,647,458	\$1,268,505	\$1,531,154	\$11,447,117
St. Louis City, MO	\$20,350,434	\$22,299,883	\$4,577,749	\$47,228,066
St. Louis County, MO	\$281,925,677	\$259,819,044	\$128,345,213	\$670,089,934
Ste. Genevieve County, MO	\$3,681,795	\$452,467	\$355,769	\$4,490,031
Stoddard County, MO	\$39,704,280	\$7,511,521	\$5,005,212	\$52,221,013
Stone County, MO	\$9,061,500	\$557,968	\$874,622	\$10,494,090
Sullivan County, MO	\$147,446,212	\$4,071,559	\$7,251,804	\$158,769,575
Taney County, MO	\$3,373,483	\$457,286	\$660,395	\$4,491,164
Texas County, MO	\$20,725,406	\$6,632,584	\$1,767,635	\$29,125,625
Vernon County, MO	\$115,253,401	\$8,298,296	\$13,511,928	\$137,063,625
Warren County, MO	\$3,314,465	\$158,270	\$230,317	\$3,703,052
Washington County, MO	\$4,668,290	\$641,750	\$322,035	\$5,632,075
Wayne County, MO	\$4,378,270	\$131,552	\$310,127	\$4,819,949
Webster County, MO	\$21,353,231	\$1,853,680	\$1,699,098	\$24,906,009
Worth County, MO	\$3,864,999	\$105,561	\$156,295	\$4,126,855
Wright County, MO	\$19,484,266	\$7,161,396	\$2,323,012	\$28,968,674

Exhibit A3 – Value-added from Animal Agriculture, By County and Contribution, 2014

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Adair County, MO	\$75,651,088	\$7,383,588	\$14,047,362	\$97,082,038
Andrew County, MO	\$6,731,138	\$422,005	\$598,123	\$7,751,266
Atchison County, MO	\$8,877,388	\$261,772	\$1,007,607	\$10,146,767
Audrain County, MO	\$44,206,466	\$4,853,889	\$6,107,253	\$55,167,608
Barry County, MO	\$305,781,211	\$48,044,835	\$41,224,826	\$395,050,872
Barton County, MO	\$31,536,322	\$866,973	\$3,051,622	\$35,454,917
Bates County, MO	\$43,648,769	\$2,118,893	\$4,249,183	\$50,016,845
Benton County, MO	\$52,822,779	\$1,427,821	\$4,298,044	\$58,548,644
Bollinger County, MO	\$13,198,029	\$3,597,633	\$1,345,418	\$18,141,080
Boone County, MO	\$62,465,447	\$21,880,118	\$21,437,050	\$105,782,615
Buchanan County, MO	\$442,507,692	\$72,464,695	\$75,774,009	\$590,746,396
Butler County, MO	\$13,356,315	\$440,259	\$2,521,863	\$16,318,437
Caldwell County, MO	\$51,504,017	\$724,758	\$3,897,610	\$56,126,385
Callaway County, MO	\$34,857,110	\$1,439,113	\$4,807,388	\$41,103,611
Camden County, MO	\$20,987,933	\$813,346	\$4,126,935	\$25,928,214
Cape Girardeau County, MO	\$38,512,147	\$7,549,010	\$10,167,677	\$56,228,834
Carroll County, MO	\$26,263,930	\$1,245,425	\$2,673,945	\$30,183,300
Carter County, MO	\$3,261,957	\$132,369	\$262,764	\$3,657,090
Cass County, MO	\$25,489,636	\$1,531,398	\$3,770,294	\$30,791,328
Cedar County, MO	\$20,875,072	\$1,874,353	\$2,011,499	\$24,760,924
Chariton County, MO	\$17,554,225	\$1,501,028	\$1,724,440	\$20,779,693
Christian County, MO	\$15,595,064	\$768,089	\$1,559,110	\$17,922,263
Clark County, MO	\$9,144,997	\$690,361	\$865,805	\$10,701,163
Clay County, MO	\$11,711,762	\$2,219,305	\$2,728,345	\$16,659,412
Clinton County, MO	\$25,630,146	\$3,815,441	\$3,186,727	\$32,632,314
Cole County, MO	\$49,438,755	\$16,192,271	\$11,779,835	\$77,410,861
Cooper County, MO	\$18,709,648	\$1,264,676	\$2,498,166	\$22,472,490
Crawford County, MO	\$10,836,351	\$749,067	\$1,347,484	\$12,932,902
Dade County, MO	\$35,383,700	\$3,214,123	\$2,731,478	\$41,329,301
Dallas County, MO	\$24,692,166	\$1,469,925	\$2,176,530	\$28,338,621
Daviess County, MO	\$58,728,488	\$853,490	\$5,164,834	\$64,746,812
DeKalb County, MO	\$25,205,424	\$3,341,098	\$3,096,269	\$31,642,791
Dent County, MO	\$11,885,775	\$1,323,247	\$1,332,814	\$14,541,836
Douglas County, MO	\$18,763,276	\$1,017,509	\$1,556,849	\$21,337,634
Dunklin County, MO	\$907,806	\$85,123	\$123,218	\$1,116,147
Franklin County, MO	\$52,625,208	\$12,492,262	\$10,693,729	\$75,811,199
Gasconade County, MO	\$14,587,908	\$1,168,168	\$1,624,126	\$17,380,202
Gentry County, MO	\$25,727,155	\$1,852,841	\$5,118,286	\$32,698,282
Greene County, MO	\$237,634,577	\$214,690,063	\$104,463,467	\$556,788,107
Grundy County, MO	\$61,640,228	\$4,158,656	\$9,714,004	\$75,512,888
Harrison County, MO	\$34,255,213	\$1,183,445	\$3,905,778	\$39,344,436
Henry County, MO	\$74,465,518	\$19,287,762	\$11,918,551	\$105,671,831
Hickory County, MO	\$16,333,168	\$851,852	\$1,173,503	\$18,358,523
Holt County, MO	\$12,638,877	\$220,507	\$1,277,277	\$14,136,661
Howard County, MO	\$14,159,219	\$716,319	\$1,274,625	\$16,150,163

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Howell County, MO	\$30,955,898	\$7,854,352	\$6,547,599	\$45,357,849
Iron County, MO	\$3,512,462	\$169,826	\$253,253	\$3,935,541
Jackson County, MO	\$68,715,509	\$27,028,442	\$26,726,433	\$122,470,384
Jasper County, MO	\$223,775,570	\$122,143,536	\$56,955,886	\$402,874,992
Jefferson County, MO	\$6,669,919	\$531,803	\$970,215	\$8,171,937
Johnson County, MO	\$57,425,019	\$4,795,043	\$7,033,637	\$69,253,699
Knox County, MO	\$25,243,137	\$2,946,422	\$1,869,562	\$30,059,121
Laclede County, MO	\$96,559,146	\$2,430,266	\$12,951,923	\$111,941,335
Lafayette County, MO	\$48,147,240	\$16,734,387	\$7,648,092	\$72,529,719
Lawrence County, MO	\$136,325,972	\$21,715,124	\$16,663,360	\$174,704,456
Lewis County, MO	\$19,699,736	\$964,157	\$2,204,188	\$22,868,081
Lincoln County, MO	\$22,880,388	\$1,445,166	\$2,773,379	\$27,098,933
Linn County, MO	\$17,407,393	\$1,533,522	\$2,018,625	\$20,959,540
Livingston County, MO	\$14,353,901	\$3,936,058	\$2,935,097	\$21,225,056
Macon County, MO	\$38,786,395	\$4,233,357	\$5,388,142	\$48,407,894
Madison County, MO	\$13,459,388	\$470,695	\$1,521,035	\$15,451,118
Maries County, MO	\$24,079,537	\$1,054,593	\$1,686,765	\$26,820,895
Marion County, MO	\$28,095,576	\$1,090,891	\$5,178,750	\$34,365,217
McDonald County, MO	\$238,217,186	\$28,257,245	\$26,502,768	\$292,977,199
Mercer County, MO	\$19,203,772	\$1,146,542	\$2,206,367	\$22,556,681
Miller County, MO	\$63,912,116	\$2,195,618	\$7,688,650	\$73,796,384
Mississippi County, MO	\$767,440	\$65,758	\$129,819	\$963,017
Moniteau County, MO	\$84,321,251	\$7,760,792	\$8,543,421	\$100,625,464
Monroe County, MO	\$33,070,244	\$941,443	\$2,642,255	\$36,653,942
Montgomery County, MO	\$20,496,936	\$3,634,829	\$1,769,389	\$25,901,154
Morgan County, MO	\$75,161,037	\$3,738,329	\$5,560,112	\$84,459,478
New Madrid County, MO	\$448,912	\$27,338	\$49,958	\$526,208
Newton County, MO	\$220,253,712	\$57,653,172	\$31,519,141	\$309,426,025
Nodaway County, MO	\$18,904,402	\$1,061,743	\$2,458,040	\$22,424,185
Oregon County, MO	\$20,470,719	\$2,491,292	\$2,038,077	\$25,000,088
Osage County, MO	\$87,405,274	\$8,425,885	\$5,331,111	\$101,162,270
Ozark County, MO	\$20,013,922	\$3,710,449	\$1,798,156	\$25,522,527
Pemiscot County, MO	\$470,730	\$12,119	\$47,949	\$530,798
Perry County, MO	\$18,690,771	\$4,213,218	\$2,575,914	\$25,479,903
Pettis County, MO	\$197,424,426	\$45,695,455	\$35,012,588	\$278,132,469
Phelps County, MO	\$47,721,130	\$9,045,183	\$5,423,269	\$62,189,582
Pike County, MO	\$25,176,682	\$1,612,580	\$3,296,100	\$30,085,362
Platte County, MO	\$39,885,576	\$29,149,876	\$14,087,030	\$83,122,482
Polk County, MO	\$42,130,376	\$2,996,156	\$4,841,599	\$49,968,131
Pulaski County, MO	\$21,747,173	\$223,528	\$1,609,906	\$23,580,607
Putnam County, MO	\$32,176,823	\$1,787,449	\$3,877,341	\$37,841,613
Ralls County, MO	\$82,592,290	\$4,232,408	\$6,730,638	\$93,555,336
Randolph County, MO	\$24,244,220	\$2,321,428	\$3,878,257	\$30,443,905
Ray County, MO	\$11,164,407	\$739,184	\$1,254,881	\$13,158,472
Reynolds County, MO	\$6,742,136	\$331,055	\$503,298	\$7,576,489
Ripley County, MO	\$14,319,962	\$770,673	\$1,294,314	\$16,384,949
Saline County, MO	\$69,712,787	\$7,864,453	\$9,375,497	\$86,952,737

County	Direct Contribution	Indirect Contribution	Induced Contribution	Total
Schuyler County, MO	\$13,493,826	\$336,955	\$762,555	\$14,593,336
Scotland County, MO	\$38,314,863	\$1,180,246	\$2,567,631	\$42,062,740
Scott County, MO	\$122,129,479	\$31,511,563	\$24,524,834	\$178,165,876
Shannon County, MO	\$6,860,395	\$522,023	\$447,101	\$7,829,519
Shelby County, MO	\$19,647,660	\$1,058,579	\$1,805,767	\$22,512,006
St. Charles County, MO	\$29,857,186	\$10,768,232	\$6,149,087	\$46,774,505
St. Clair County, MO	\$20,419,737	\$1,096,552	\$1,553,442	\$23,069,731
St. Francois County, MO	\$19,594,998	\$1,969,611	\$2,997,610	\$24,562,219
St. Louis city, MO	\$46,077,145	\$34,649,867	\$8,152,255	\$88,879,267
St. Louis County, MO	\$1,083,571,925	\$386,863,241	\$224,406,020	\$1,694,841,186
Ste. Genevieve County, MO	\$6,964,835	\$736,214	\$837,653	\$8,538,702
Stoddard County, MO	\$67,789,532	\$12,095,087	\$10,682,989	\$90,567,608
Stone County, MO	\$22,211,321	\$904,345	\$1,855,161	\$24,970,827
Sullivan County, MO	\$257,426,536	\$7,323,273	\$18,357,338	\$283,107,147
Taney County, MO	\$5,748,811	\$699,578	\$1,375,006	\$7,823,395
Texas County, MO	\$41,491,294	\$9,823,696	\$4,453,123	\$55,768,113
Vernon County, MO	\$255,205,395	\$12,071,111	\$26,374,016	\$293,650,522
Warren County, MO	\$6,267,768	\$256,832	\$595,861	\$7,120,461
Washington County, MO	\$9,254,446	\$941,658	\$840,953	\$11,037,057
Wayne County, MO	\$8,825,333	\$201,378	\$779,783	\$9,806,494
Webster County, MO	\$44,462,472	\$3,093,140	\$4,295,885	\$51,851,497
Worth County, MO	\$7,599,805	\$179,696	\$474,867	\$8,254,368
Wright County, MO	\$42,216,171	\$13,125,390	\$5,362,345	\$60,703,906

Exhibit A4 – Taxes Supported from Animal Agriculture, By County, 2014

County	State/Local Taxes	Federal Taxes
Adair County, MO	\$7,254,663	\$11,519,829
Andrew County, MO	\$757,235	\$787,009
Atchison County, MO	\$660,697	\$1,105,045
Audrain County, MO	\$3,417,458	\$5,981,284
Barry County, MO	\$19,048,466	\$47,586,798
Barton County, MO	\$2,247,372	\$3,660,059
Bates County, MO	\$3,550,151	\$5,332,922
Benton County, MO	\$2,983,285	\$5,658,467
Bollinger County, MO	\$1,575,345	\$1,997,151
Boone County, MO	\$8,111,038	\$13,597,702
Buchanan County, MO	\$41,389,680	\$73,087,524
Butler County, MO	\$942,728	\$1,909,795
Caldwell County, MO	\$2,762,575	\$5,742,358
Callaway County, MO	\$2,477,964	\$4,194,598
Camden County, MO	\$1,532,557	\$2,734,129
Cape Girardeau County, MO	\$4,569,214	\$7,165,327
Carroll County, MO	\$2,285,343	\$3,188,902
Carter County, MO	\$293,248	\$366,721
Cass County, MO	\$2,241,358	\$3,374,275
Cedar County, MO	\$2,257,338	\$2,779,319
Chariton County, MO	\$1,857,357	\$2,296,943
Christian County, MO	\$1,456,222	\$1,818,248
Clark County, MO	\$1,041,599	\$1,112,675
Clay County, MO	\$1,342,813	\$1,859,421
Clinton County, MO	\$2,394,996	\$3,580,054
Cole County, MO	\$5,923,157	\$8,911,275
Cooper County, MO	\$1,921,963	\$2,437,542
Crawford County, MO	\$1,159,130	\$1,375,117
Dade County, MO	\$3,249,771	\$4,307,551
Dallas County, MO	\$2,138,209	\$2,645,931
Daviess County, MO	\$3,200,998	\$6,862,756
DeKalb County, MO	\$2,056,882	\$3,067,889
Dent County, MO	\$1,244,316	\$1,511,514
Douglas County, MO	\$1,702,124	\$2,223,535
Dunklin County, MO	\$59,410	\$117,379
Franklin County, MO	\$5,808,930	\$9,506,834
Gasconade County, MO	\$1,413,224	\$1,801,175
Gentry County, MO	\$2,594,859	\$4,252,165
Greene County, MO	\$37,165,639	\$73,694,889
Grundy County, MO	\$5,676,227	\$9,876,446
Harrison County, MO	\$2,449,567	\$4,110,007
Henry County, MO	\$7,666,299	\$14,170,992
Hickory County, MO	\$1,489,610	\$1,703,200
Holt County, MO	\$766,077	\$1,677,006
Howard County, MO	\$1,260,171	\$1,729,539

County	State/Local Taxes	Federal Taxes
Howell County, MO	\$3,876,426	\$5,313,125
Iron County, MO	\$273,652	\$434,911
Jackson County, MO	\$8,002,845	\$16,038,083
Jasper County, MO	\$23,283,144	\$49,874,317
Jefferson County, MO	\$561,314	\$872,343
Johnson County, MO	\$4,947,010	\$7,076,131
Knox County, MO	\$2,114,379	\$3,561,256
Laclede County, MO	\$5,594,992	\$11,273,338
Lafayette County, MO	\$5,656,903	\$9,135,795
Lawrence County, MO	\$11,284,493	\$21,092,902
Lewis County, MO	\$1,451,635	\$2,460,977
Lincoln County, MO	\$1,723,230	\$3,021,630
Linn County, MO	\$1,881,068	\$2,175,048
Livingston County, MO	\$1,609,470	\$2,466,073
Macon County, MO	\$4,490,813	\$6,204,133
Madison County, MO	\$988,983	\$1,632,144
Maries County, MO	\$2,083,919	\$2,609,202
Marion County, MO	\$1,845,966	\$3,756,008
McDonald County, MO	\$18,803,438	\$38,845,673
Mercer County, MO	\$1,311,798	\$2,139,751
Miller County, MO	\$3,903,992	\$7,246,430
Mississippi County, MO	\$70,658	\$137,506
Moniteau County, MO	\$8,263,407	\$11,778,684
Monroe County, MO	\$2,100,441	\$3,747,437
Montgomery County, MO	\$1,961,993	\$3,033,484
Morgan County, MO	\$4,007,506	\$7,137,000
New Madrid County, MO	\$27,026	\$55,661
Newton County, MO	\$18,600,299	\$39,674,449
Nodaway County, MO	\$1,882,715	\$2,262,915
Oregon County, MO	\$2,170,295	\$2,753,650
Osage County, MO	\$5,068,622	\$10,928,285
Ozark County, MO	\$2,337,279	\$2,816,205
Pemiscot County, MO	\$26,711	\$57,571
Perry County, MO	\$2,208,928	\$2,863,611
Pettis County, MO	\$15,332,214	\$35,671,118
Phelps County, MO	\$3,150,202	\$6,548,963
Pike County, MO	\$2,268,024	\$3,218,566
Platte County, MO	\$5,472,422	\$11,101,684
Polk County, MO	\$4,040,330	\$4,946,191
Pulaski County, MO	\$1,145,818	\$2,202,706
Putnam County, MO	\$3,006,457	\$4,649,536
Ralls County, MO	\$7,508,125	\$12,297,690
Randolph County, MO	\$2,168,087	\$3,611,975
Ray County, MO	\$1,183,414	\$1,383,441
Reynolds County, MO	\$522,170	\$703,990
Ripley County, MO	\$1,083,857	\$1,667,625
Saline County, MO	\$6,400,233	\$10,473,479

County	State/Local Taxes	Federal Taxes
Schuyler County, MO	\$1,021,525	\$1,381,081
Scotland County, MO	\$2,139,760	\$4,092,664
Scott County, MO	\$9,047,349	\$23,733,305
Shannon County, MO	\$664,449	\$744,944
Shelby County, MO	\$1,428,109	\$2,604,017
St. Charles County, MO	\$2,497,561	\$5,441,320
St. Clair County, MO	\$1,962,519	\$2,109,246
St. Francois County, MO	\$1,450,948	\$2,594,035
St. Louis City, MO	\$4,857,110	\$10,243,019
St. Louis County, MO	\$62,752,744	\$193,165,641
Ste. Genevieve County, MO	\$829,731	\$935,515
Stoddard County, MO	\$4,426,432	\$12,096,466
Stone County, MO	\$1,369,305	\$2,272,306
Sullivan County, MO	\$16,700,491	\$32,012,087
Taney County, MO	\$636,785	\$954,013
Texas County, MO	\$4,567,724	\$5,921,225
Vernon County, MO	\$12,267,703	\$29,560,771
Warren County, MO	\$557,713	\$720,764
Washington County, MO	\$848,763	\$1,190,211
Wayne County, MO	\$656,856	\$951,967
Webster County, MO	\$3,593,629	\$5,323,330
Worth County, MO	\$573,587	\$823,691
Wright County, MO	\$5,506,561	\$6,928,740