



Economic Contribution of Animal Agriculture to Missouri

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Missouri Soybean Merchandising Council (MSMC)

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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.

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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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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.

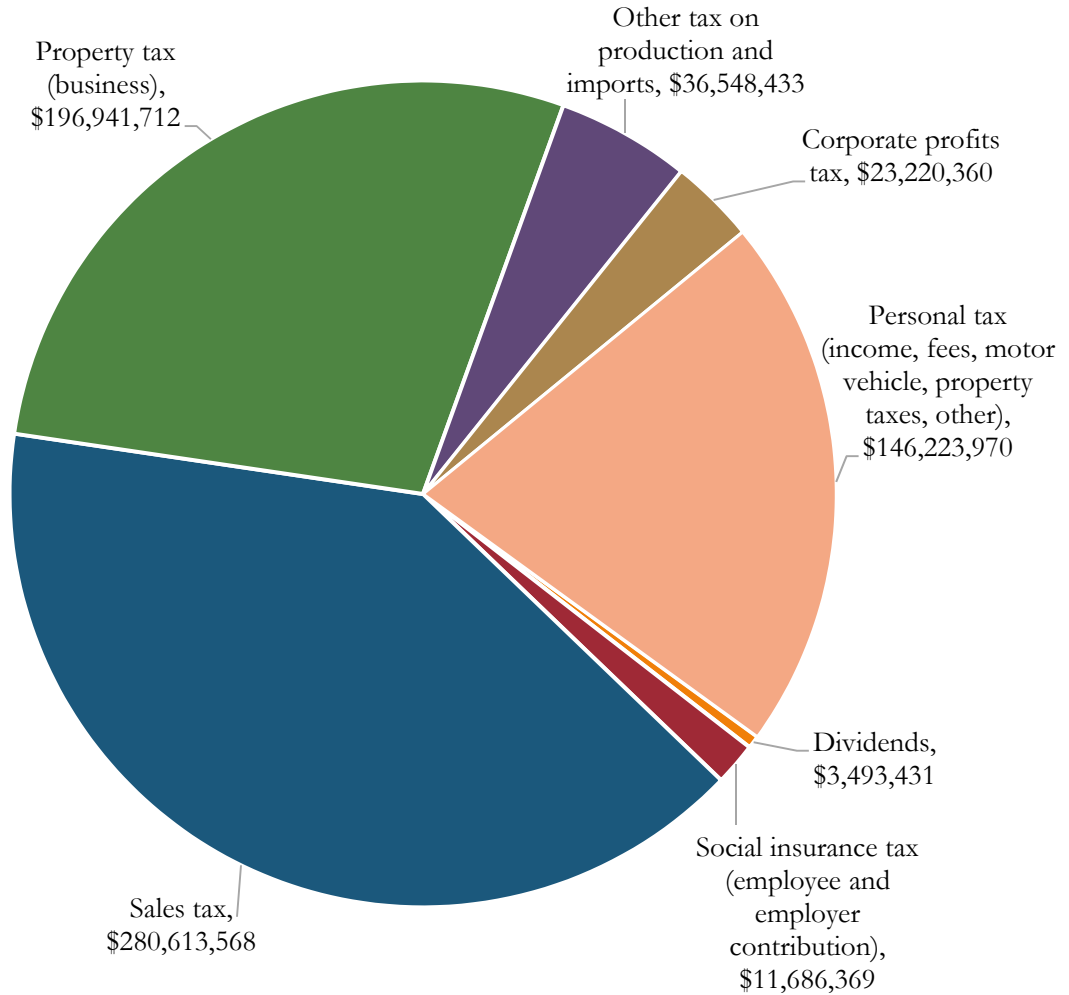
**Exhibit 2.2 – Top Ten Industries Impacted by Animal Agriculture, Missouri, 2014
(Ranked Based on Total Employment)**

| 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).

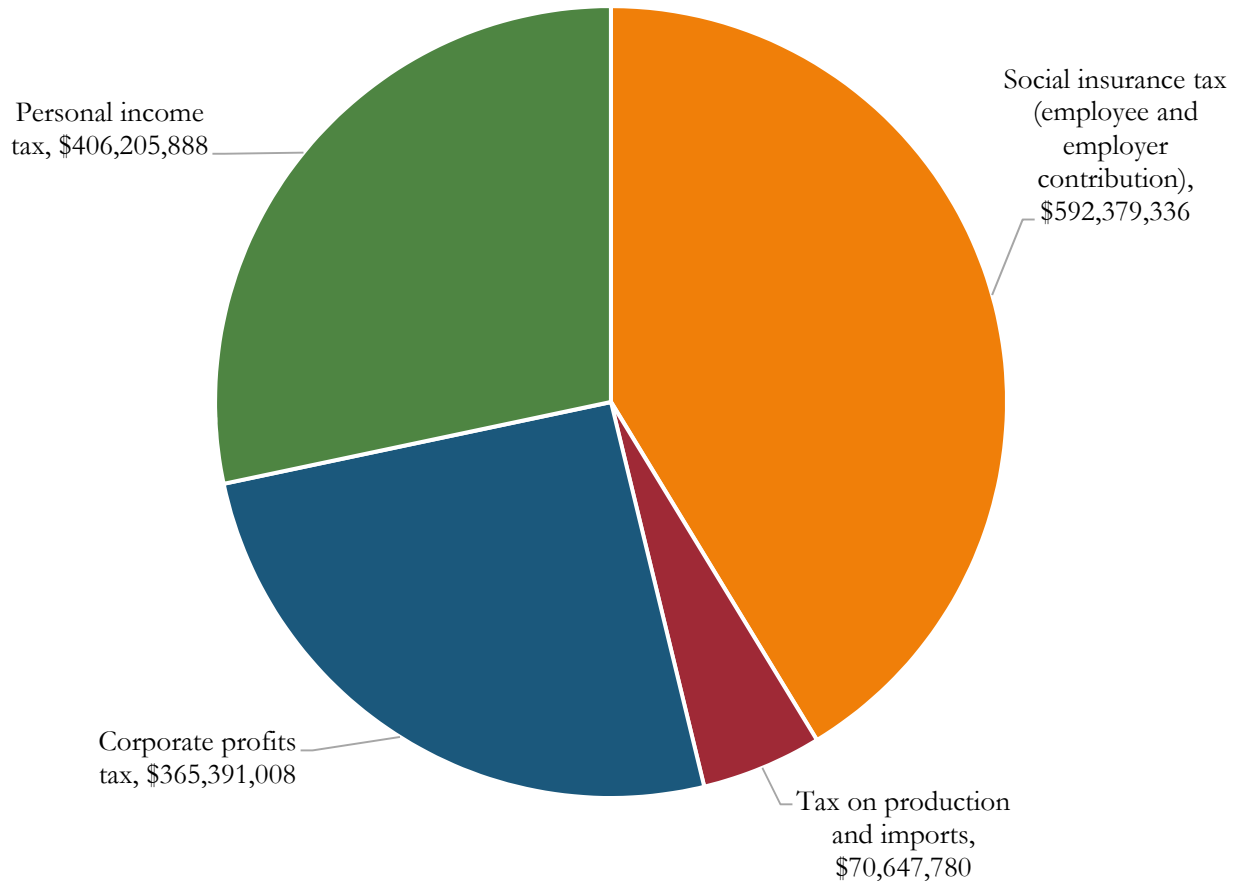
Exhibit 2.3 – State and Local Taxes from Animal Agriculture, Missouri, 2014



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

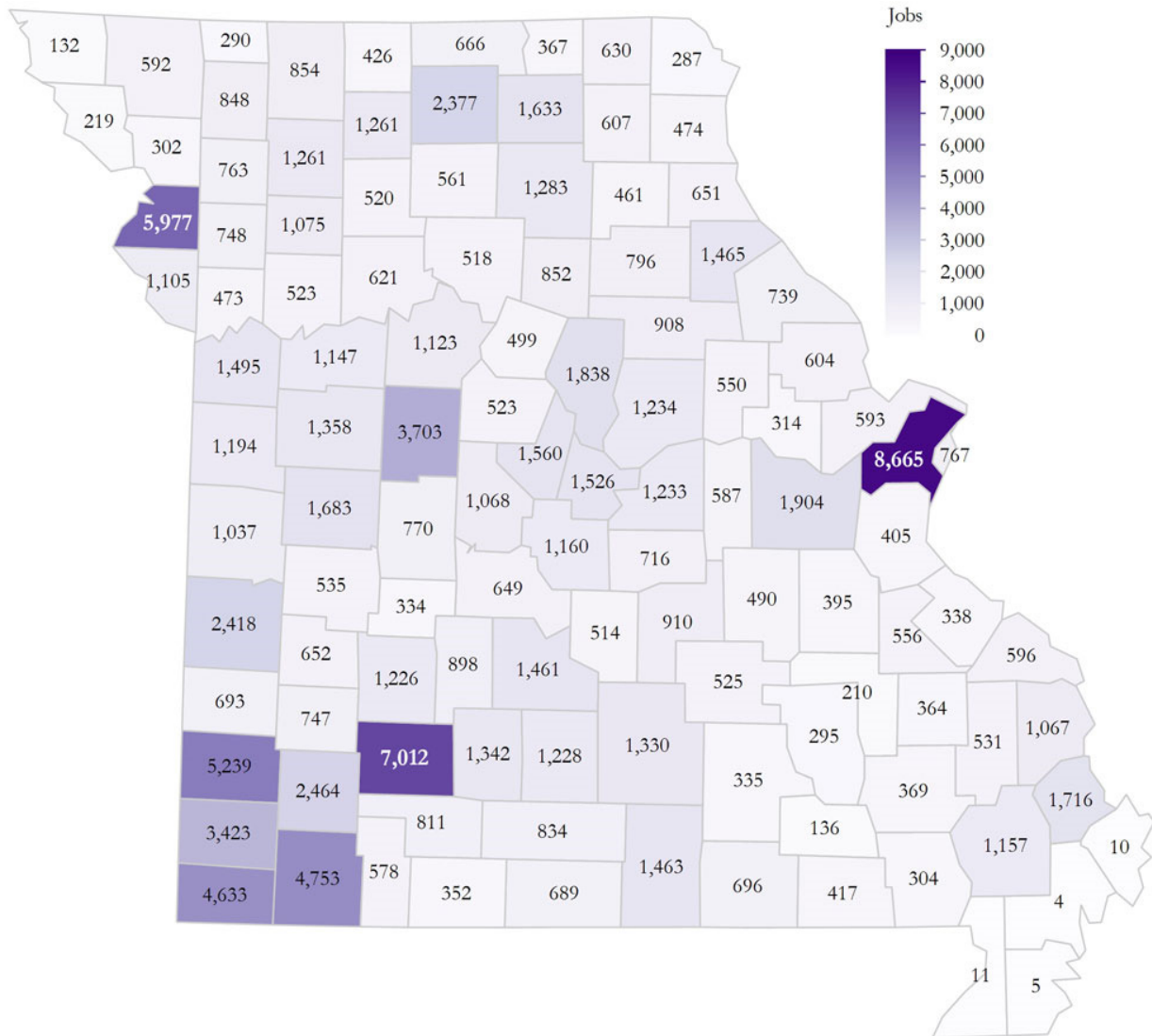
3. Economic Contribution of Animal Agriculture, By County

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).

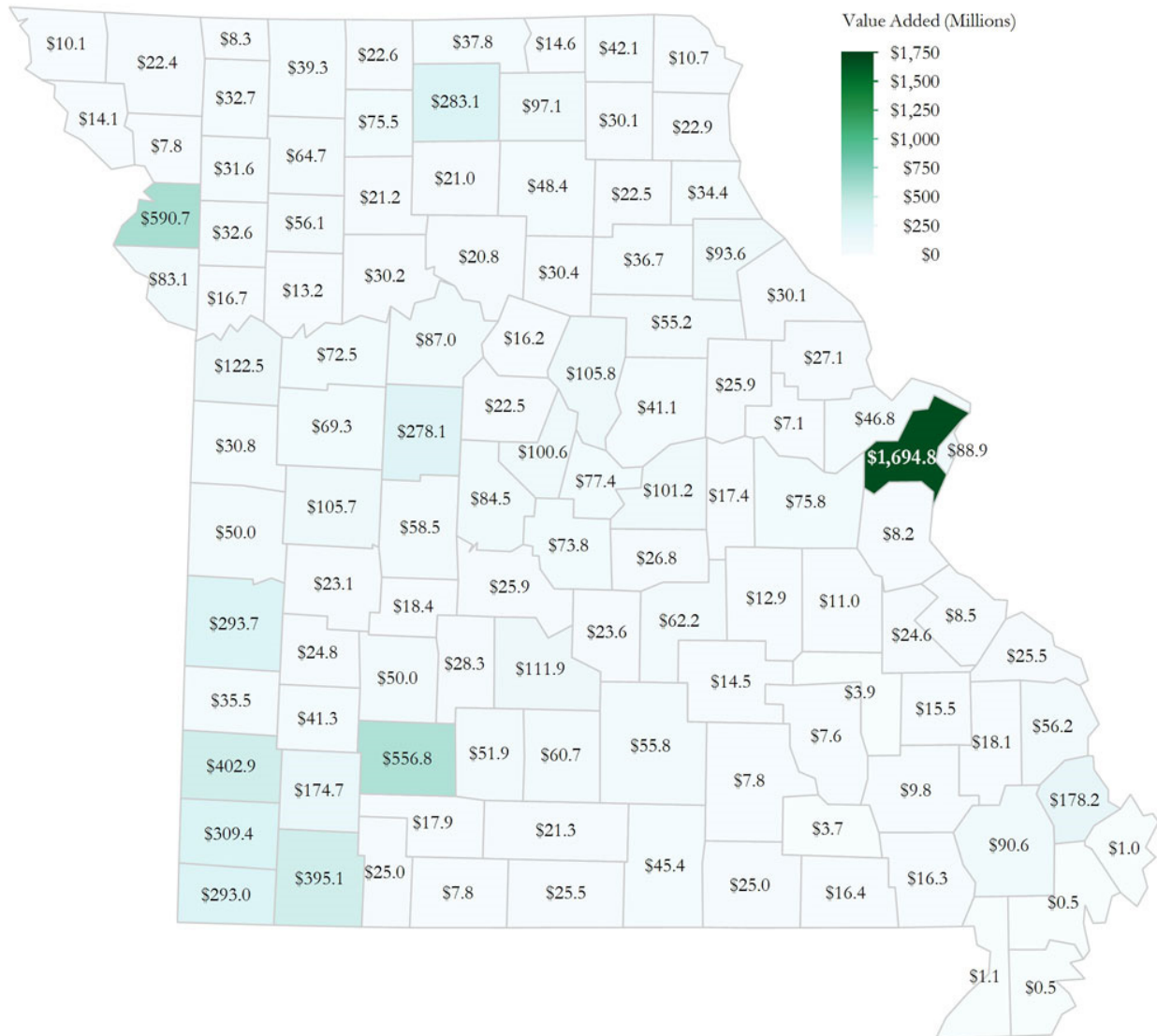
Exhibit 3.1 – Total Jobs Supported from Animal Agriculture, By County, 2014



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.

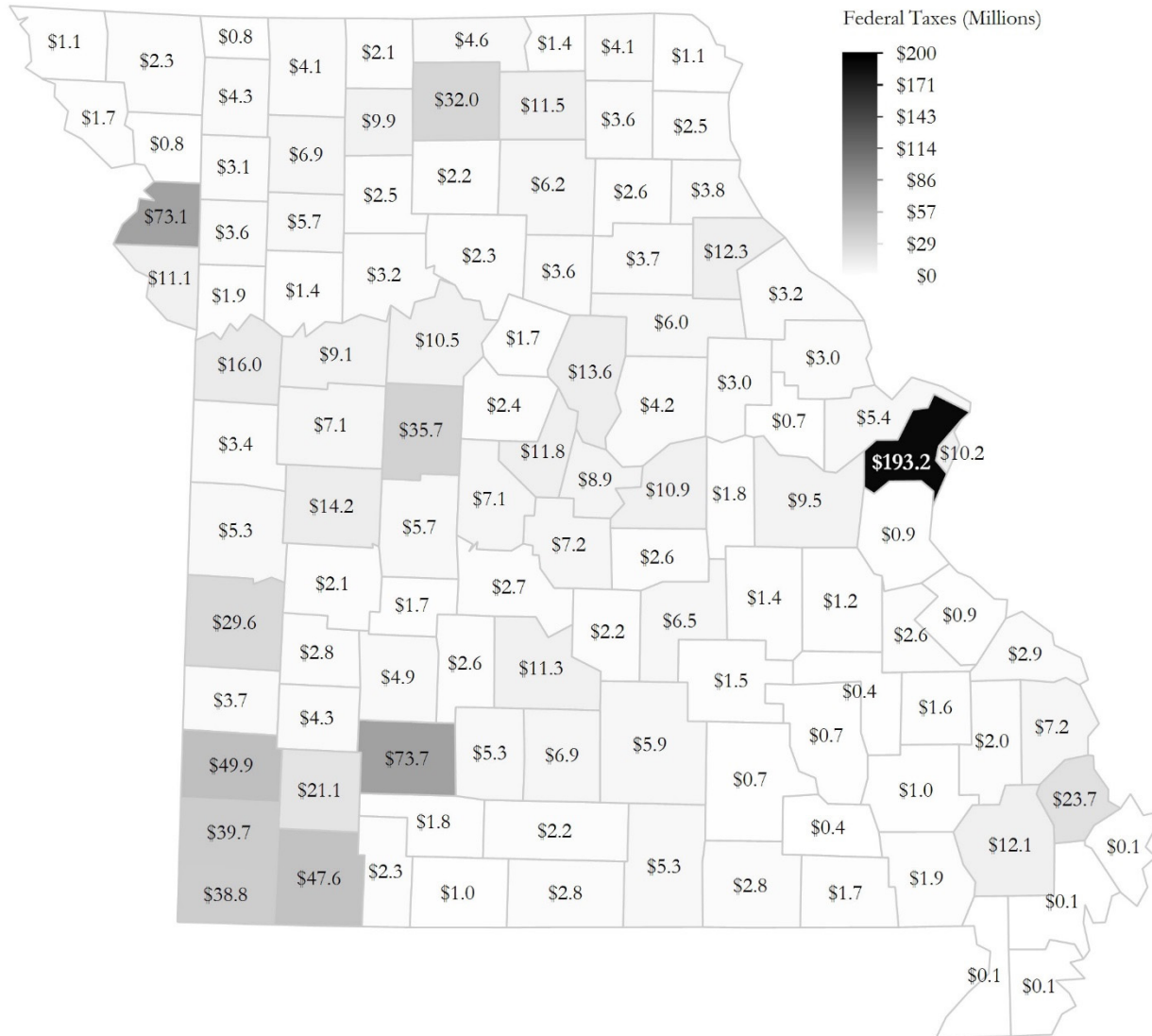
Exhibit 3.2 – Total Value-added from Animal Agriculture, Millions, By County, 2014



Source: University of Missouri

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 |