

**Fertilizers and Chemicals Applied: 2017, 2012, and 2007**

***Chemicals used on crops to control growth, thin fruit, ripen, or defoliate***

| Geography             | Land Area<br>in Square Miles ① | 2017 Acres<br>Treated | 2017 Square<br>Miles Treated ② | % of Land Area<br>Treated ③ | 2012 Acres<br>Treated | 2012 Square<br>Miles Treated ② | % of Land Area<br>Treated ③ | 2007 Acres<br>Treated | 2007 Square<br>Miles Treated ② | % of Land Area<br>Treated ③ | % of Area Treated Increase<br>or Decrease ④ |
|-----------------------|--------------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|---------------------------------------------|
| Adair County          | 567                            | (D)                   | ---                            | ---                         | 250                   | 0                              | 0.07%                       | (D)                   | ---                            | ---                         | ---                                         |
| Andrew County         | 436                            | (D)                   | ---                            | ---                         | 239                   | 0                              | 0.09%                       | (D)                   | ---                            | ---                         | ---                                         |
| Atchison County       | 560                            | 220                   | 0                              | 0.06%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Audrain County        | 692                            | 127                   | 0                              | 0.03%                       | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Barry County          | 773                            | 2,353                 | 4                              | 0.48%                       | 175                   | 0                              | 0.04%                       | (D)                   | ---                            | ---                         | ---                                         |
| Barton County         | 597                            | 139                   | 0                              | 0.04%                       | 568                   | 1                              | 0.15%                       | -                     | ---                            | ---                         | 0.04%                                       |
| Bates County          | 849                            | 321                   | 1                              | 0.06%                       | 489                   | 1                              | 0.09%                       | 130                   | 0                              | 0.02%                       | 0.04%                                       |
| Benton County         | 729                            | -                     | ---                            | ---                         | 723                   | 1                              | 0.15%                       | (D)                   | ---                            | ---                         | ---                                         |
| Bollinger County      | 621                            | (D)                   | ---                            | ---                         | 105                   | 0                              | 0.03%                       | -                     | ---                            | ---                         | ---                                         |
| Boone County          | 687                            | 4                     | 0                              | 0.00%                       | 372                   | 1                              | 0.08%                       | (D)                   | ---                            | ---                         | ---                                         |
| Buchanan County       | 409                            | 6,345                 | 10                             | 2.42%                       | 235                   | 0                              | 0.09%                       | 128                   | 0                              | 0.05%                       | 2.38%                                       |
| Butler County         | 698                            | 3,201                 | 5                              | 0.72%                       | 2,484                 | 4                              | 0.56%                       | (D)                   | ---                            | ---                         | ---                                         |
| Caldwell County       | 431                            | 116                   | 0                              | 0.04%                       | 133                   | 0                              | 0.05%                       | 5                     | 0                              | 0.00%                       | 0.04%                                       |
| Callaway County       | 842                            | 160                   | 0                              | 0.03%                       | 321                   | 1                              | 0.06%                       | 135                   | 0                              | 0.03%                       | 0.00%                                       |
| Camden County         | 641                            | -                     | ---                            | ---                         | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Cape Girardeau County | 577                            | (D)                   | ---                            | ---                         | 385                   | 1                              | 0.10%                       | 538                   | 1                              | 0.15%                       | ---                                         |
| Carroll County        | 695                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 135                   | 0                              | 0.03%                       | ---                                         |
| Carter County         | 509                            | -                     | ---                            | ---                         | -                     | ---                            | ---                         | -                     | ---                            | ---                         | 0.00%                                       |
| Cass County           | 702                            | 12                    | 0                              | 0.00%                       | 307                   | 0                              | 0.07%                       | (D)                   | ---                            | ---                         | ---                                         |

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| Geography        | Land Area<br>in Square Miles ① | 2017 Acres<br>Treated | 2017 Square<br>Miles Treated ② | % of Land Area<br>Treated ③ | 2012 Acres<br>Treated | 2012 Square<br>Miles Treated ② | % of Land Area<br>Treated ③ | 2007 Acres<br>Treated | 2007 Square<br>Miles Treated ② | % of Land Area<br>Treated ③ | % of Area Treated Increase<br>or Decrease ④ |
|------------------|--------------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|---------------------------------------------|
| Cedar County     | 471                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Chariton County  | 758                            | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | 63                    | 0                              | 0.01%                       | -0.01%                                      |
| Christian County | 564                            | (D)                   | ---                            | ---                         | 46                    | 0                              | 0.01%                       | 134                   | 0                              | 0.04%                       | ---                                         |
| Clark County     | 507                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 112                   | 0                              | 0.03%                       | ---                                         |
| Clay County      | 403                            | (D)                   | ---                            | ---                         | 684                   | 1                              | 0.27%                       | 9                     | 0                              | 0.00%                       | ---                                         |
| Clinton County   | 423                            | 90                    | 0                              | 0.03%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Cole County      | 392                            | 3                     | 0                              | 0.00%                       | 112                   | 0                              | 0.04%                       | 182                   | 0                              | 0.07%                       | -0.07%                                      |
| Cooper County    | 566                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Crawford County  | 744                            | 10                    | 0                              | 0.00%                       | 90                    | 0                              | 0.02%                       | (D)                   | ---                            | ---                         | ---                                         |
| Dade County      | 491                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Dallas County    | 543                            | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Daviess County   | 568                            | (D)                   | ---                            | ---                         | 129                   | 0                              | 0.04%                       | 534                   | 1                              | 0.15%                       | ---                                         |
| DeKalb County    | 425                            | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | -                     | ---                            | ---                         | 0.00%                                       |
| Dent County      | 755                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Douglas County   | 814                            | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Dunklin County   | 547                            | 93,256                | 146                            | 26.64%                      | 109,851               | 172                            | 31.38%                      | 143,720               | 225                            | 41.05%                      | -14.41%                                     |
| Franklin County  | 922                            | 1,041                 | 2                              | 0.18%                       | 699                   | 1                              | 0.12%                       | 407                   | 1                              | 0.07%                       | 0.11%                                       |
| Gasconade County | 521                            | 676                   | 1                              | 0.20%                       | 96                    | 0                              | 0.03%                       | 165                   | 0                              | 0.05%                       | 0.15%                                       |
| Gentry County    | 493                            | 726                   | 1                              | 0.23%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |

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|------------------|--------------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|---------------------------------------------|
| Greene County    | 678                            | 18                    | 0                              | 0.00%                       | 382                   | 1                              | 0.09%                       | 131                   | 0                              | 0.03%                       | -0.03%                                      |
| Grundy County    | 437                            | 611                   | 1                              | 0.22%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Harrison County  | 725                            | -                     | ---                            | ---                         | 126                   | 0                              | 0.03%                       | (D)                   | ---                            | ---                         | ---                                         |
| Henry County     | 729                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 267                   | 0                              | 0.06%                       | ---                                         |
| Hickory County   | 411                            | (D)                   | ---                            | ---                         | 38                    | 0                              | 0.01%                       | -                     | ---                            | ---                         | ---                                         |
| Holt County      | 456                            | -                     | ---                            | ---                         | 444                   | 1                              | 0.15%                       | -                     | ---                            | ---                         | 0.00%                                       |
| Howard County    | 464                            | -                     | ---                            | ---                         | 436                   | 1                              | 0.15%                       | 79                    | 0                              | 0.03%                       | -0.03%                                      |
| Howell County    | 927                            | (D)                   | ---                            | ---                         | 103                   | 0                              | 0.02%                       | 86                    | 0                              | 0.01%                       | ---                                         |
| Iron County      | 552                            | -                     | ---                            | ---                         | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Jackson County   | 611                            | 71                    | 0                              | 0.02%                       | 2,159                 | 3                              | 0.55%                       | 143                   | 0                              | 0.04%                       | -0.02%                                      |
| Jasper County    | 641                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 504                   | 1                              | 0.12%                       | ---                                         |
| Jefferson County | 668                            | (D)                   | ---                            | ---                         | 40                    | 0                              | 0.01%                       | 189                   | 0                              | 0.04%                       | ---                                         |
| Johnson County   | 834                            | 110                   | 0                              | 0.02%                       | 41                    | 0                              | 0.01%                       | 289                   | 0                              | 0.05%                       | -0.03%                                      |
| Knox County      | 507                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | -                     | ---                            | ---                         | ---                                         |
| Laclede County   | 770                            | (D)                   | ---                            | ---                         | 11,535                | 18                             | 2.34%                       | 14                    | 0                              | 0.00%                       | ---                                         |
| Lafayette County | 632                            | 683                   | 1                              | 0.17%                       | 893                   | 1                              | 0.22%                       | 2,860                 | 4                              | 0.71%                       | -0.54%                                      |
| Lawrence County  | 614                            | (D)                   | ---                            | ---                         | 87                    | 0                              | 0.02%                       | 151                   | 0                              | 0.04%                       | ---                                         |
| Lewis County     | 508                            | (D)                   | ---                            | ---                         | 17                    | 0                              | 0.01%                       | 1,800                 | 3                              | 0.55%                       | ---                                         |
| Lincoln County   | 627                            | 1,901                 | 3                              | 0.47%                       | 871                   | 1                              | 0.22%                       | 1,543                 | 2                              | 0.38%                       | 0.09%                                       |

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|--------------------|--------------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|---------------------------------------------|
| Linn County        | 620                            | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | -                     | ---                            | ---                         | 0.00%                                       |
| Livingston County  | 537                            | 9,349                 | 15                             | 2.72%                       | 3,440                 | 5                              | 1.00%                       | (D)                   | ---                            | ---                         | ---                                         |
| McDonald County    | 541                            | -                     | ---                            | ---                         | 115                   | 0                              | 0.03%                       | 353                   | 1                              | 0.10%                       | -0.10%                                      |
| Macon County       | 797                            | 1,085                 | 2                              | 0.21%                       | 886                   | 1                              | 0.17%                       | (D)                   | ---                            | ---                         | ---                                         |
| Madison County     | 497                            | (D)                   | ---                            | ---                         | 93                    | 0                              | 0.03%                       | -                     | ---                            | ---                         | ---                                         |
| Maries County      | 528                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 203                   | 0                              | 0.06%                       | ---                                         |
| Marion County      | 438                            | 210                   | 0                              | 0.07%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Mercer County      | 454                            | (D)                   | ---                            | ---                         | 472                   | 1                              | 0.16%                       | (D)                   | ---                            | ---                         | ---                                         |
| Miller County      | 593                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Mississippi County | 410                            | -                     | ---                            | ---                         | 1,363                 | 2                              | 0.52%                       | 487                   | 1                              | 0.19%                       | -0.19%                                      |
| Moniteau County    | 417                            | 151                   | 0                              | 0.06%                       | 179                   | 0                              | 0.07%                       | -                     | ---                            | ---                         | 0.06%                                       |
| Monroe County      | 670                            | (D)                   | ---                            | ---                         | 150                   | 0                              | 0.03%                       | (D)                   | ---                            | ---                         | ---                                         |
| Montgomery County  | 540                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | -                     | ---                            | ---                         | ---                                         |
| Morgan County      | 594                            | (D)                   | ---                            | ---                         | 68                    | 0                              | 0.02%                       | 98                    | 0                              | 0.03%                       | ---                                         |
| New Madrid County  | 679                            | 67,166                | 105                            | 15.46%                      | 83,087                | 130                            | 19.12%                      | 86,193                | 135                            | 19.83%                      | -4.38%                                      |
| Newton County      | 627                            | 882                   | 1                              | 0.22%                       | 8                     | 0                              | 0.00%                       | 145                   | 0                              | 0.04%                       | 0.18%                                       |
| Nodaway County     | 875                            | 929                   | 1                              | 0.17%                       | (D)                   | ---                            | ---                         | 1,467                 | 2                              | 0.26%                       | -0.10%                                      |
| Oregon County      | 792                            | -                     | ---                            | ---                         | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Osage County       | 606                            | 577                   | 1                              | 0.15%                       | 2,021                 | 3                              | 0.52%                       | 188                   | 0                              | 0.05%                       | 0.10%                                       |

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|-------------------------|--------------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|---------------------------------------------|
| Ozark County            | 731                            | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Pemiscot County         | 517                            | 33,682                | 53                             | 10.18%                      | 60,078                | 94                             | 18.16%                      | 82,899                | 130                            | 25.05%                      | -14.87%                                     |
| Perry County            | 473                            | 532                   | 1                              | 0.18%                       | (D)                   | ---                            | ---                         | 28                    | 0                              | 0.01%                       | 0.17%                                       |
| Pettis County           | 686                            | 15                    | 0                              | 0.00%                       | 74                    | 0                              | 0.02%                       | (D)                   | ---                            | ---                         | ---                                         |
| Phelps County           | 674                            | (D)                   | ---                            | ---                         | 103                   | 0                              | 0.02%                       | -                     | ---                            | ---                         | ---                                         |
| Pike County             | 673                            | (D)                   | ---                            | ---                         | 135                   | 0                              | 0.03%                       | (D)                   | ---                            | ---                         | ---                                         |
| Platte County           | 421                            | 148                   | 0                              | 0.05%                       | 639                   | 1                              | 0.24%                       | 525                   | 1                              | 0.19%                       | -0.14%                                      |
| Polk County             | 642                            | 31                    | 0                              | 0.01%                       | 314                   | 0                              | 0.08%                       | 120                   | 0                              | 0.03%                       | -0.02%                                      |
| Pulaski County          | 551                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | -                     | ---                            | ---                         | ---                                         |
| Putnam County           | 520                            | (D)                   | ---                            | ---                         | -                     | ---                            | ---                         | -                     | ---                            | ---                         | ---                                         |
| Ralls County            | 481                            | -                     | ---                            | ---                         | 92                    | 0                              | 0.03%                       | (D)                   | ---                            | ---                         | ---                                         |
| Randolph County         | 473                            | (D)                   | ---                            | ---                         | 133                   | 0                              | 0.04%                       | (D)                   | ---                            | ---                         | ---                                         |
| Ray County              | 568                            | 76                    | 0                              | 0.02%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Reynolds County         | 808                            | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Ripley County           | 632                            | 129                   | 0                              | 0.03%                       | 29                    | 0                              | 0.01%                       | (D)                   | ---                            | ---                         | ---                                         |
| Saint Charles County    | 558                            | 285                   | 0                              | 0.08%                       | 205                   | 0                              | 0.06%                       | (D)                   | ---                            | ---                         | ---                                         |
| Saint Clair County      | 698                            | (D)                   | ---                            | ---                         | 110                   | 0                              | 0.02%                       | -                     | ---                            | ---                         | ---                                         |
| Sainte Genevieve County | 504                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 223                   | 0                              | 0.07%                       | ---                                         |
| Saint Francois County   | 451                            | (D)                   | ---                            | ---                         | 14                    | 0                              | 0.00%                       | (D)                   | ---                            | ---                         | ---                                         |

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|--------------------|--------------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|-----------------------|--------------------------------|-----------------------------|---------------------------------------------|
| Saint Louis County | 505                            | -                     | ---                            | ---                         | 9                     | 0                              | 0.00%                       | 20                    | 0                              | 0.01%                       | -0.01%                                      |
| Saline County      | 755                            | 163                   | 0                              | 0.03%                       | 1,767                 | 3                              | 0.37%                       | -                     | ---                            | ---                         | 0.03%                                       |
| Schuyler County    | 308                            | 90                    | 0                              | 0.05%                       | (D)                   | ---                            | ---                         | 171                   | 0                              | 0.09%                       | -0.04%                                      |
| Scotland County    | 439                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 191                   | 0                              | 0.07%                       | ---                                         |
| Scott County       | 423                            | 3,249                 | 5                              | 1.20%                       | 5,518                 | 9                              | 2.04%                       | 5,233                 | 8                              | 1.93%                       | -0.73%                                      |
| Shannon County     | 1,004                          | 6                     | 0                              | 0.00%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Shelby County      | 501                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 1,008                 | 2                              | 0.31%                       | ---                                         |
| Stoddard County    | 815                            | 93,851                | 147                            | 17.99%                      | 70,445                | 110                            | 13.51%                      | 66,413                | 104                            | 12.73%                      | 5.26%                                       |
| Stone County       | 451                            | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | -                     | ---                            | ---                         | 0.00%                                       |
| Sullivan County    | 651                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | 88                    | 0                              | 0.02%                       | ---                                         |
| Taney County       | 608                            | -                     | ---                            | ---                         | -                     | ---                            | ---                         | 138                   | 0                              | 0.04%                       | -0.04%                                      |
| Texas County       | 1,180                          | 6                     | 0                              | 0.00%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Vernon County      | 837                            | 1,584                 | 2                              | 0.30%                       | 3,492                 | 5                              | 0.65%                       | 2,979                 | 5                              | 0.56%                       | -0.26%                                      |
| Warren County      | 429                            | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Washington County  | 762                            | -                     | ---                            | ---                         | -                     | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Wayne County       | 763                            | 12                    | 0                              | 0.00%                       | 32                    | 0                              | 0.01%                       | (D)                   | ---                            | ---                         | ---                                         |
| Webster County     | 594                            | 10                    | 0                              | 0.00%                       | 99                    | 0                              | 0.03%                       | (D)                   | ---                            | ---                         | ---                                         |
| Worth County       | 266                            | 552                   | 1                              | 0.32%                       | (D)                   | ---                            | ---                         | (D)                   | ---                            | ---                         | ---                                         |
| Wright County      | 682                            | (D)                   | ---                            | ---                         | 168                   | 0                              | 0.04%                       | 46                    | 0                              | 0.01%                       | ---                                         |

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| Geography                     | Land Area in Square Miles <sup>①</sup> | 2017 Acres Treated | 2017 Square Miles Treated <sup>②</sup> | % of Land Area Treated <sup>③</sup> | 2012 Acres Treated | 2012 Square Miles Treated <sup>②</sup> | % of Land Area Treated <sup>③</sup> | 2007 Acres Treated | 2007 Square Miles Treated <sup>②</sup> | % of Land Area Treated <sup>③</sup> | % of Area Treated Increase or Decrease <sup>④</sup> |
|-------------------------------|----------------------------------------|--------------------|----------------------------------------|-------------------------------------|--------------------|----------------------------------------|-------------------------------------|--------------------|----------------------------------------|-------------------------------------|-----------------------------------------------------|
| Saint Louis City <sup>⑤</sup> | 61                                     | -                  | ---                                    | ---                                 | ---                | ---                                    | ---                                 | ---                | ---                                    | ---                                 | ---                                                 |
| Statewide                     | 69,709                                 | 333,904            | 522                                    | 0.75%                               | 381,534            | 596                                    | 0.86%                               | 410,712            | 642                                    | 0.92%                               | <b>-0.172%</b>                                      |

**PRIMARY DATA SOURCES:** 2017, 2012, and 2007 Census of Agriculture, United States Department of Agriculture (USDA), National Agricultural Statistics Service (NASS): Missouri State and County Data. *(Survey conducted every five years.)*

<sup>①</sup> Land Area in Square Miles value is obtained from the Missouri Secretary of State's Missouri Roster

<sup>②</sup> Square Miles Treated value is obtained by calculating Acres Treated value \* 0.0015625

<sup>③</sup> % of Land Area Treated value is obtained by calculating Square Miles Treated value/Land Area in Square Miles value

<sup>④</sup> % of Area Treated Increase or Decrease value is obtained by calculating 2017 % of Land Area Treated Value - 2007 % of Land Area Treated Value

<sup>⑤</sup> The USDA/NASS census definition of a farm is any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year. The definition is consistent with the definition used for current USDA surveys and was first used for the 1974 *Census of Agriculture*; and has been used in each subsequent agriculture census. St. Louis City does not contain any property(ies) that currently meet this definition per USDA.

**(D)** Withheld to avoid disclosing data for individual farms, per USDA/NASS.