



Responding to COVID-19

Health Resources and Social Determinants of Health in Preparation for COVID-19 Outbreaks

March 23, 2020
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Summary

Purpose

Agencies across the US Department of Health and Human Services (HHS) are responding to an outbreak of respiratory disease caused by a novel coronavirus which has now been detected in more than 100 locations internationally, including the United States. The virus has been named “SARS-CoV-2” and the disease it causes has been named “coronavirus disease 2019” (abbreviated “COVID-19”)¹. On January 31, 2020, HHS Secretary Alex M. Azar II declared a public health emergency for the United States to aid the nation’s healthcare community in responding to COVID-19.

Using state and county Federal Information Processing Standards (FIPS) codes² and publicly available county level data, we conducted an analysis of the COVID-19 social determinants of health (SDOH) risk factors for serious disease, including diabetes prevalence, hypertension prevalence, smoking rates, age, and socioeconomic status, using publicly available county level data. The intention is to provide the Federal government with a resource in determining where COVID-19 outbreaks may result in more serious illnesses.

Background

Older adults and people with severe underlying chronic medical conditions like heart disease, lung disease, hypertension, or diabetes seem to be at higher risk for developing more serious complications from the COVID-19 virus. In one analysis, patients who reported no underlying medical conditions had an overall case fatality of 0.9%, but case fatality was higher for patients with comorbidities: 10.5% for those with cardiovascular disease, 7% for diabetes, and 6% each for chronic respiratory disease, hypertension, and cancer.³

As part of an ongoing study, CVP constructed an open-source data and analytics platform for analyzing SDOH using publicly available data. Federal data sources included the Environmental Protection Agency (EPA), Census Bureau, Department of Labor (DOL, Food and Nutrition Services, Centers for Disease Control and Prevention (CDC), and Centers for Medicare and Medicaid Services (CMS). We merged this data with the Robert Wood Johnson Foundation County Health Ratings. We achieved our goal to develop an SDOH “wrap” which can be rapidly applied to different health care issues as needed. Applying this SDOH wrap to a health care supply dataset by state and county FIPS allowed us to generate insights that can be very useful to HHS in understanding the potential impact of COVID-19 in communities with limited health care resources.

¹ CDC, *Coronavirus Disease 2019 (COVID-19) Situation Summary*, accessed 3/11/2020, available at <https://www.cdc.gov/coronavirus/2019-ncov/summary.html>

² Other potential links include Census tract, zip code

³ Novel Coronavirus Pneumonia Emergency Response Epidemiology Team. [The Epidemiological Characteristics of an Outbreak of 2019 Novel Coronavirus Diseases (COVID-19) in China]. *Zhonghua Liu Xing Bing Xue Za Zhi*. 2020;41(2):145–151. DOI:10.3760/cma.j.issn.0254-6450.2020.02.003.

Methods

We downloaded the CMS Provider of Services (POS) dataset⁴ and filtered it to include only the 50 United States and the District of Columbia. We also filtered out facilities that were not acute care, children’s, or critical access hospitals. We conducted statistical analyses to determine the number of facilities in the county, total staffing levels, and presence of services relevant to COVID-19 treatment such as an Emergency Department (ED), Intensive Care Unit (ICU), and Respiratory Therapy Center. We also leveraged analyses previously completed on the Health Resources and Services Administration (HRSA) Federally Qualified Health Centers (FQHC) file. In this file, we filtered out administrative sites, and analyzed the number of facilities in the county, operation status (permanent or temporary), operating hours, and other variables of interest that could be gained from the HRSA file. Using FIPS codes, we merged county level information about FQHCs by state, including total FQHCs, total grantees, total FQHC hours, count of types of FQHCs, and average FQHC hours, with the hospital file to gather a clear picture of the available health care resources in each county.

We focused our SDOH wrap data on the conditions that are most likely to cause severe illness in people infected with COVID-19. These include older adults, people with chronic medical conditions such as diabetes, hypertension, and heart and lung disease⁵. Although the evidence is changing daily, at the time of this writing, the elderly and those with underlying disorders (e.g., hypertension, diabetes, cardiovascular disease), more often developed rapidly into acute respiratory distress syndrome, septic shock, metabolic acidosis, and more often die from these complications.⁶ We provide a summary of the variables and datasets in *Table 1*.

Table 1. Summary of analysis file variables

| Domain | Variables | Datasets |
|-------------------------|--|--|
| Demographic | People over age 65, no health insurance, poverty | Census American Community Survey (ACS) |
| Risk factors | Smoking, percent adults self-reporting poor physical health, percent Medicare beneficiaries reporting hypertension, Chronic Obstructive Pulmonary Disease (COPD), heart failure, and diabetes | County Health Rankings 2016, CDC Wonder database 2016, CMS Mapping Medicare Disparities 2017 |
| Hospital factors | Hospital beds, presence of Emergency Department (ED), Intensive Care Unit (ICU), and Respiratory therapy services, staffing levels (physicians, physician extenders [PA, NP], RNs, and RN extenders [LPN, CRNA]) | CMS 2019 Provider of Services (POS) file |
| FQHC factors | FQHC operating status, hours of operation, total staff hours/week | HRSA Federally Qualified Health Centers (FQHC) file |

⁴December, 2019. Available at <https://www.cms.gov/Research-Statistics-Data-and-Systems/Downloadable-Public-Use-Files/Provider-of-Services>, Accessed March 15, 2020.

⁵ National Center for Immunization and Respiratory Diseases (NCIRD), Division of Viral Diseases, March 13, 2020.

⁶ Huang C, Wang Y, Li X, Ren L, Zhao J, Hu Y, et al. Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China. *Lancet*. 2020;395(10223):497–506.

Results

By merging public information from the CMS POS file, HRSA FQHC file, and SDOH data, highlighting risk factors for severe morbidity and mortality from COVID-19, we can identify where outbreaks of the epidemic can be more severe and what health resources are available in the identified county. In *Figure 1*, we present a visualization of the counties without FQHCs or hospitals by the level Medicare beneficiaries with diabetes. In *Figure 2*, we present a visualization of the counties without FQHCs or hospitals by the level Medicare beneficiaries with hypertension.

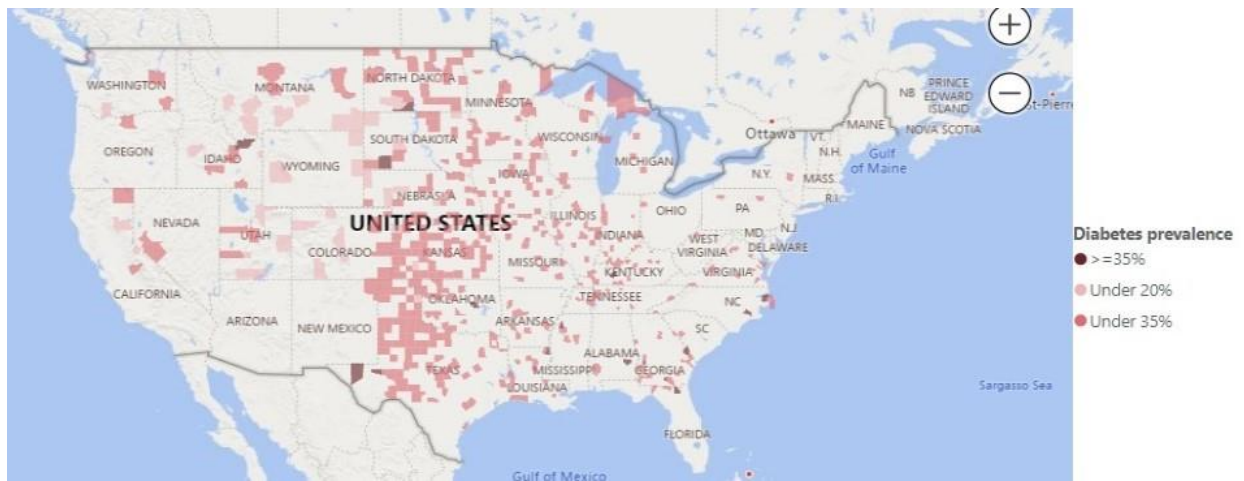


Figure 1. Underserved counties by diabetes prevalence

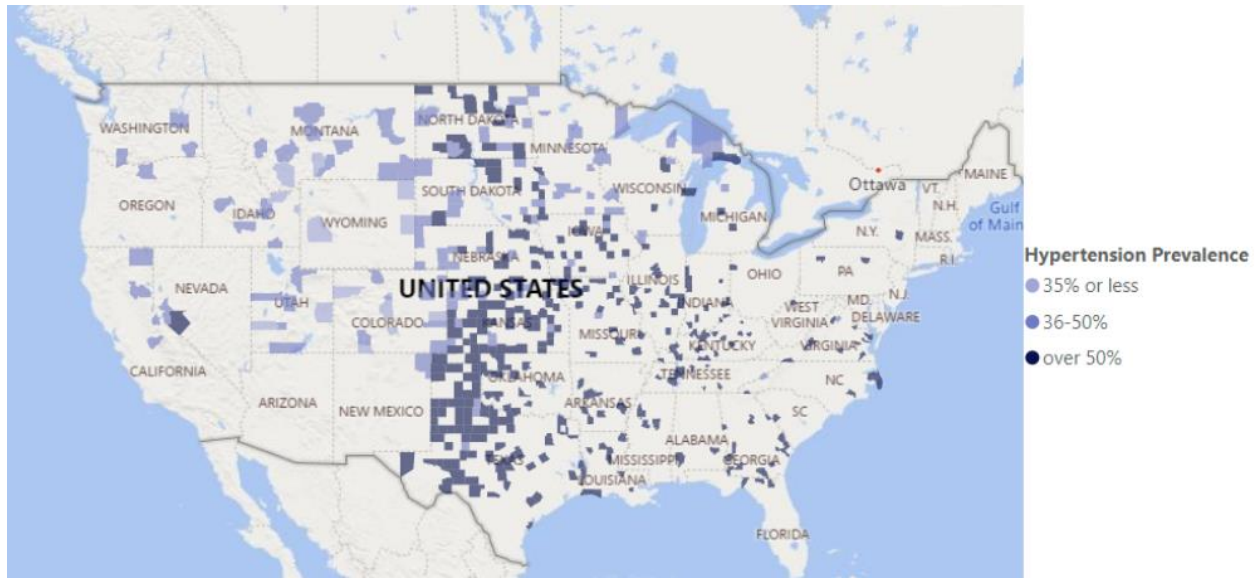


Figure 2. Underserved counties by hypertension

There are currently no known medications specifically for the treatment of patients with COVID-19. All clinical management of cases address supportive care, including hospitalizations, supplementary oxygen, and mechanical ventilatory support when indicated^Z. Considering that a portion of COVID-19 patients require hospitalization, we concentrated on the health care capacity at the county level, focusing on counties where there is at least one hospital. Estimates, varying widely by age, suggest that 0.1-20 percent of cases require hospitalization[&]. In Table 2, we summarize the hospital infrastructure in each state. A complete listing by county is also available.

Table 2. Hospital capacity by state

| State | Total Hospital Beds | Total Hospitals | Hospitals with EDs | Hospitals with ICUs | Hospitals with Respiratory Care Center |
|-------|---------------------|-----------------|--------------------|---------------------|--|
| AK | 1704 | 41 | 25 | 15 | 17 |
| AL | 23461 | 433 | 141 | 100 | 142 |
| AR | 14835 | 376 | 143 | 74 | 144 |
| AZ | 18812 | 208 | 106 | 88 | 121 |
| CA | 120219 | 1294 | 498 | 508 | 586 |
| CO | 15499 | 270 | 138 | 83 | 129 |
| CT | 9804 | 39 | 36 | 35 | 38 |
| DC | 4585 | 14 | 12 | 14 | 14 |
| DE | 2914 | 10 | 9 | 8 | 10 |

^ZCDC, 2020. Information for Clinicians on Therapeutic Options for COVID-19 Patients; available at <https://tools.cdc.gov/medialibrary/index.aspx#/media/id/405409>, accessed 3/20/2020.

[&] Imperial College COVID-19 Response Team, Impact of non-pharmaceutical interventions (NPIs) to reduce COVID19 mortality and healthcare demand; 16 March 2020; available at DOI: <https://doi.org/10.25561/77482>

| State | Total Hospital Beds | Total Hospitals | Hospitals with EDs | Hospitals with ICUs | Hospitals with Respiratory Care Center |
|--------------|---------------------|-----------------|--------------------|---------------------|--|
| FL | 75071 | 669 | 249 | 246 | 288 |
| GA | 29862 | 530 | 206 | 151 | 231 |
| HI | 2821 | 49 | 30 | 19 | 21 |
| IA | 16703 | 556 | 202 | 105 | 190 |
| ID | 4449 | 179 | 79 | 45 | 70 |
| IL | 56539 | 793 | 289 | 226 | 292 |
| IN | 24007 | 341 | 175 | 149 | 193 |
| KS | 15948 | 665 | 200 | 83 | 198 |
| KY | 21783 | 461 | 146 | 96 | 154 |
| LA | 25992 | 541 | 196 | 132 | 242 |
| MA | 22454 | 134 | 110 | 109 | 118 |
| MD | 14788 | 66 | 58 | 56 | 64 |
| ME | 4664 | 194 | 58 | 46 | 55 |
| MI | 38757 | 679 | 225 | 177 | 249 |
| MN | 24463 | 440 | 230 | 138 | 179 |
| MO | 34501 | 801 | 208 | 142 | 213 |
| MS | 16526 | 679 | 150 | 67 | 159 |
| MT | 4362 | 204 | 112 | 57 | 64 |
| NC | 28568 | 442 | 166 | 127 | 169 |
| ND | 5007 | 202 | 82 | 43 | 55 |
| NE | 9915 | 405 | 154 | 94 | 135 |
| NH | 3842 | 74 | 41 | 34 | 38 |
| NJ | 30312 | 105 | 98 | 99 | 103 |
| NM | 6010 | 143 | 65 | 44 | 64 |
| NV | 7759 | 87 | 53 | 36 | 57 |
| NY | 72721 | 351 | 282 | 246 | 284 |
| OH | 56347 | 395 | 233 | 220 | 276 |
| OK | 18354 | 453 | 207 | 86 | 209 |
| OR | 10692 | 272 | 97 | 85 | 102 |
| PA | 59171 | 476 | 271 | 244 | 298 |
| RI | 3118 | 17 | 13 | 13 | 14 |
| SC | 14529 | 368 | 86 | 66 | 93 |
| SD | 4612 | 248 | 101 | 47 | 68 |
| TN | 26193 | 375 | 141 | 97 | 151 |
| TX | 105892 | 1794 | 759 | 412 | 760 |
| UT | 6416 | 100 | 62 | 37 | 57 |
| VA | 22702 | 232 | 113 | 104 | 125 |
| VT | 2239 | 62 | 22 | 17 | 22 |
| WA | 17769 | 386 | 149 | 100 | 141 |
| WI | 24157 | 416 | 216 | 146 | 221 |
| WV | 11348 | 238 | 89 | 59 | 86 |
| WY | 2231 | 88 | 44 | 31 | 44 |
| Total | 1195427 | 18395 | 7575 | 5456 | 7753 |

We assumed that the current estimates of Intensive Care Unit (ICU) admissions for COVID-19 complications (16 percent of all hospitalized patients²) would lead to a high need for ICU care in each county. Figure 3 below is a visualization of counties that do not have a hospital offering ICU services, by the number of people over the age of 65 (at highest risk for hospitalization) residing in the county.

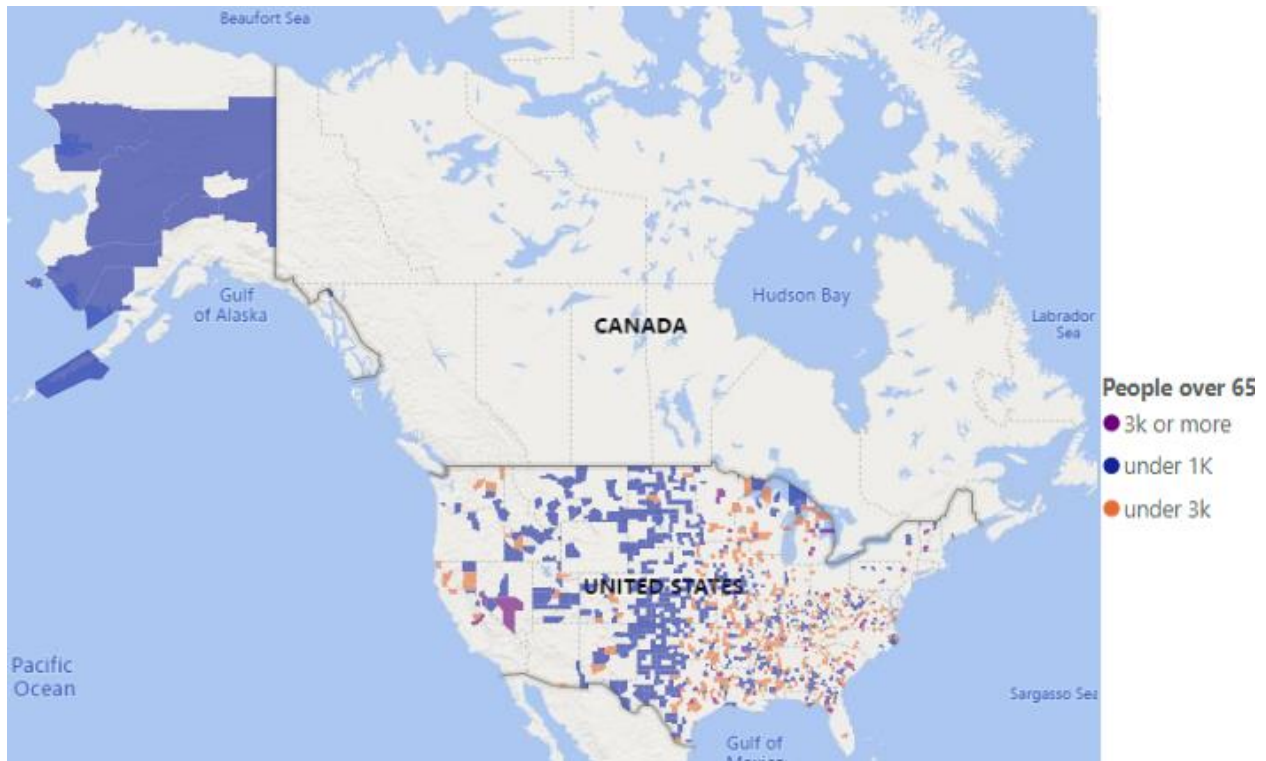


Figure 3. Counties with a hospital but no ICU.

The detailed list of counties that do not have a hospital with an ICU is presented in Appendix A. Note that the presence of an ICU does not guarantee that a bed in the ICU will be available for a patient on any given day. Estimates suggest that average ICU occupancy rates in acute care hospitals is over 60 percent (66.6% in adult units, 61.6% in pediatric units and 67.7% in neonatal units).

Given the high rate of hospitalization, physicians and other health care staff are heavily involved in managing care for COVID-19 cases. We analyzed physician staffing levels in hospitals. Figure 4 shows physician staffing levels in counties with hospitals, with darker colors indicating low physician staffing levels.

² Ha Grasselli G, Pesenti A, Cecconi M. Critical Care Utilization for the COVID-19 Outbreak in Lombardy, Italy: Early Experience and Forecast During an Emergency Response. JAMA. Published online March 13, 2020. doi:10.1001/jama.2020.4031 |pern

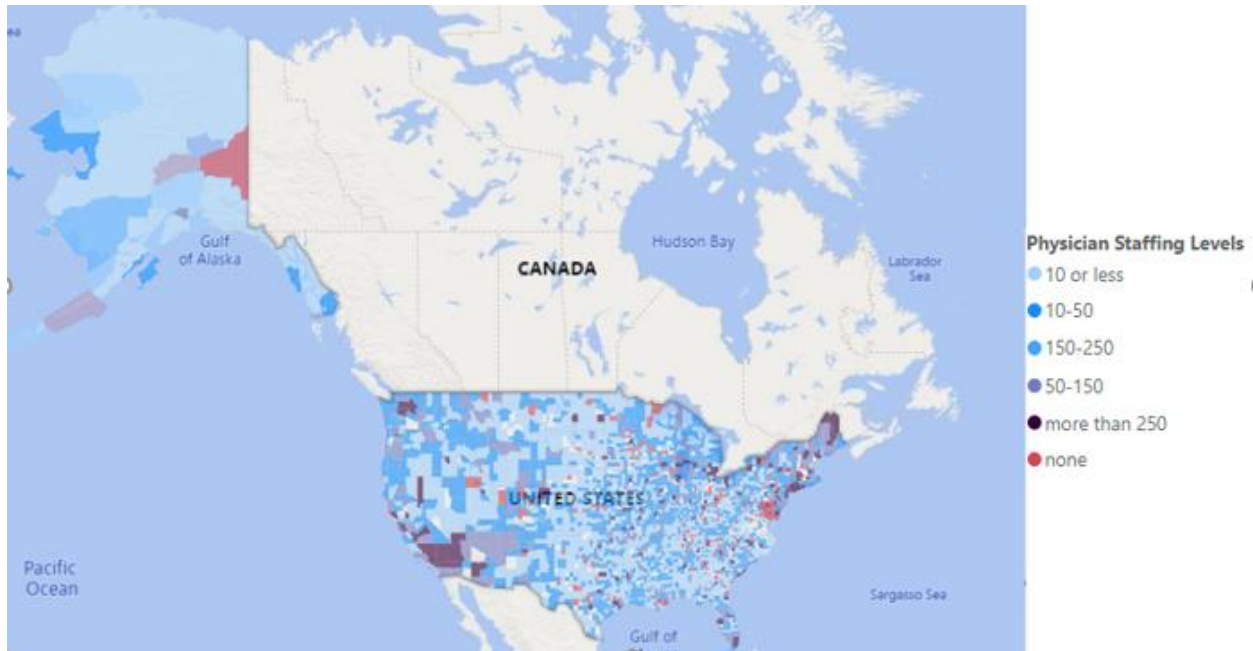


Figure 4. Visualization of hospital staffing levels in counties with hospitals.

In Table 3 we show the overall health workforce capacity at the state level. A detailed list by county is also available by request.

Table 3. Hospital staffing at the state level.¹⁰

| State | Population | Physicians | Physician Assistants and Advanced Practice Nurses | RNs | LPNs and CRNAs |
|-------|------------|------------|---|-----------|----------------|
| AK | 614656 | 530.92 | 203.58 | 2908.57 | 192.68 |
| AL | 4853917 | 2512.51 | 577.82 | 22640.44 | 3536.49 |
| AR | 2896831 | 2028.12 | 872.98 | 15086.06 | 2657.18 |
| AZ | 7016270 | 2183.43 | 636.81 | 22732.56 | 1059.51 |
| CA | 39535533 | 20433.82 | 4830.56 | 117199.71 | 14389.1 |
| CO | 5508446 | 2458.73 | 931.22 | 18136.75 | 1023.52 |
| CT | 3588184 | 2490.03 | 985.67 | 12348.86 | 337.2 |
| DC | 693972 | 2857.5 | 394 | 5569.14 | 394.9 |
| DE | 961939 | 1580.17 | 311.02 | 5321.27 | 306.85 |
| FL | 20873273 | 5903.58 | 2674.71 | 67728 | 6124.85 |
| GA | 9692607 | 2959.43 | 1121.67 | 29543.69 | 5339.05 |
| HI | 1427450 | 418.7 | 137.95 | 4992.36 | 342.18 |
| IA | 3005442 | 2522.74 | 3230.1 | 16605.93 | 1458.14 |
| ID | 1631012 | 975.53 | 486.42 | 5113.38 | 602.4 |
| IL | 12497985 | 11322.37 | 2018.15 | 51651.2 | 3804.23 |

¹⁰ Staffing is calculated as the sum of reported full time staff by title, aggregated at the county level, taken from CMS Provider of Services File, December 2019.

| State | Population | Physicians | Physician Assistants and Advanced Practice Nurses | RNs | LPNs and CRNAs |
|--------------|------------------|------------------|---|-------------------|------------------|
| IN | 6443423 | 3590.28 | 998.37 | 34143.77 | 2607.97 |
| KS | 2857214 | 2087.62 | 1217.08 | 12055.58 | 1770.61 |
| KY | 3837131 | 2225.62 | 1125.85 | 19081.01 | 4797.16 |
| LA | 4635732 | 2277.79 | 1289.93 | 36695.91 | 6226.68 |
| MA | 6859819 | 11468.44 | 875.98 | 33165.22 | 2438.07 |
| MD | 5969214 | 1780.3 | 1063.19 | 17699.08 | 1479.41 |
| ME | 1300515 | 2734.29 | 1481.86 | 8169.38 | 559.21 |
| MI | 9858120 | 9870.57 | 2150.27 | 44343.55 | 5585.02 |
| MN | 5515907 | 3181.91 | 1245.54 | 83017.8 | 3988.03 |
| MO | 5557996 | 8266.29 | 2238.79 | 31970.72 | 5047.56 |
| MS | 2951863 | 1433.54 | 944.76 | 12345.44 | 2792.77 |
| MT | 1031845 | 1327.91 | 633.88 | 5863.79 | 770.02 |
| NC | 10097550 | 4573.82 | 1492.24 | 42522.06 | 3805.57 |
| ND | 714388 | 1291.55 | 585.33 | 4986.5 | 1139.95 |
| NE | 1832890 | 1676.46 | 945 | 11878.45 | 1784.89 |
| NH | 1342795 | 1623.53 | 458.03 | 6247.46 | 634.54 |
| NJ | 9005644 | 4806.01 | 512.84 | 31244.75 | 2851.63 |
| NM | 2059429 | 1475.07 | 644.39 | 7768.31 | 894.86 |
| NV | 2991222 | 1452.23 | 229 | 6129.41 | 304.94 |
| NY | 19844914 | 32335.82 | 7528.19 | 98151.82 | 10152.84 |
| OH | 11464049 | 12716.79 | 1948.29 | 59730.23 | 6649.1 |
| OK | 3925041 | 2455.05 | 804.66 | 16524.25 | 3040.03 |
| OR | 4137806 | 2515.43 | 523.65 | 14510.87 | 766.89 |
| PA | 12620426 | 15665 | 2752.92 | 67664.77 | 6853.27 |
| RI | 1010727 | 1222 | 222.75 | 4332.37 | 295.65 |
| SC | 4823212 | 3542.5 | 1899.99 | 14833.72 | 1481.7 |
| SD | 822128 | 958.68 | 657.93 | 4909.7 | 720.78 |
| TN | 6495648 | 3012.09 | 1018.16 | 24049.81 | 4127.94 |
| TX | 28009103 | 10237.41 | 4534.59 | 105744.76 | 14481.17 |
| UT | 3072324 | 963.13 | 251.14 | 8732.37 | 498.03 |
| VA | 7013992 | 4724.13 | 1172.4 | 28478.27 | 3396.12 |
| VT | 610429 | 1299.61 | 407.46 | 2919.22 | 376.02 |
| WA | 7347697 | 7167.94 | 1292.14 | 21422.99 | 1825.37 |
| WI | 5756548 | 2853.17 | 1261.16 | 27225.83 | 2419.87 |
| WV | 1649912 | 1129.23 | 538.63 | 10963.13 | 2165.58 |
| WY | 569516 | 486.59 | 305.2 | 2777.83 | 258.63 |
| Total | 318833686 | 231605.38 | 66664.25 | 1359878.05 | 150556.16 |

Appendix A. Counties lacking ICU services.

| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|---------------------------|-------------------|----------------|-----------|---------------------|
| AK | BETHEL CENSUS AREA | 18076 | Rural | 2 | 50 |
| AK | DILLINGHAM CENSUS AREA | 4932 | Rural | 3 | 31 |
| AK | NORTHWEST ARCTIC BOROUGH | 7684 | Rural | 1 | 17 |
| AK | YUKON-KOYUKUK CENSUS AREA | 5365 | Rural | 8 | 5 |
| AL | BIBB | 22668 | Urban | 5 | 35 |
| AL | BULLOCK | 10309 | Rural | 6 | 61 |
| AL | CHOCTAW | 12945 | Rural | 9 | 104 |
| AL | CLARKE | 24083 | Rural | 18 | 134 |
| AL | CLEBURNE | 14900 | Rural | 3 | 17 |
| AL | CONECUH | 12469 | Rural | 3 | 44 |
| AL | CRENSHAW | 13871 | Rural | 3 | 65 |
| AL | GREENE | 8330 | Rural | 2 | 20 |
| AL | HALE | 14812 | Urban | 5 | 39 |
| AL | HENRY | 17147 | Urban | 3 | 48 |
| AL | LAMAR | 13946 | Rural | 9 | 70 |
| AL | MACON | 18755 | Rural | 3 | 136 |
| AL | PERRY | 9339 | Rural | 4 | 15 |
| AL | PICKENS | 20176 | Urban | 6 | 56 |
| AL | RANDOLPH | 22670 | Rural | 17 | 147 |
| AL | SUMTER | 12687 | Rural | 5 | 105 |
| AL | WASHINGTON | 16531 | Rural | 6 | 55 |
| AL | WILCOX | 10719 | Rural | 8 | 30 |
| AR | ARKANSAS | 17967 | Rural | 9 | 99 |
| AR | CLAY | 14920 | Rural | 9 | 100 |
| AR | CRITTENDEN | 48750 | Urban | 6 | 163 |
| AR | DALLAS | 7393 | Rural | 10 | 99 |
| AR | FRANKLIN | 17890 | Rural | 6 | 64 |
| AR | FULTON | 12055 | Rural | 8 | 74 |
| AR | IZARD | 13686 | Rural | 9 | 51 |
| AR | LAFAYETTE | 6862 | Rural | 3 | 48 |
| AR | LEE | 9176 | Rural | 3 | 50 |
| AR | LOGAN | 21722 | Rural | 11 | 114 |
| AR | LONOKE | 72898 | Urban | 5 | 15 |
| AR | MADISON | 16339 | Urban | 3 | 42 |
| AR | MONROE | 7085 | Rural | 3 | 40 |
| AR | NEVADA | 8327 | Rural | 4 | 49 |
| AR | PIKE | 10726 | Rural | 5 | 32 |
| AR | SHARP | 17393 | Rural | 7 | 40 |
| AR | STONE | 12537 | Rural | 3 | 73 |
| AR | WOODRUFF | 6571 | Rural | 3 | 34 |
| AR | YELL | 21523 | Rural | 4 | 120 |
| AZ | GREENLEE | 9455 | Rural | 1 | 49 |
| AZ | SANTA CRUZ | 46212 | Rural | 3 | 25 |
| CA | DEL NORTE | 27470 | Rural | 3 | 49 |
| CA | GLENN | 28094 | Rural | 16 | 96 |
| CA | LASSEN | 31163 | Rural | 6 | 97 |
| CA | MADERA | 156890 | Urban | 21 | 130 |
| CA | MARIPOSA | 17569 | Rural | 8 | 68 |
| CA | MODOC | 8859 | Rural | 10 | 133 |
| CA | PLUMAS | 18742 | Rural | 18 | 172 |
| CA | SIERRA | 2999 | Rural | 4 | 40 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|------------|-------------------|----------------|-----------|---------------------|
| CA | TRINITY | 12709 | Rural | 7 | 90 |
| CO | ARCHULETA | 13315 | Rural | 4 | 22 |
| CO | BACA | 3562 | Rural | 5 | 65 |
| CO | BENT | 5938 | Rural | 5 | 13 |
| CO | CHEYENNE | 1845 | Rural | 4 | 50 |
| CO | HUERFANO | 6662 | Rural | 4 | 51 |
| CO | KIOWA | 1376 | Rural | 4 | 33 |
| CO | LAKE | 7778 | Rural | 4 | 62 |
| CO | PHILLIPS | 4292 | Rural | 5 | 81 |
| CO | RIO BLANCO | 6420 | Rural | 9 | 83 |
| CO | TELLER | 24646 | Urban | 3 | 30 |
| CO | WASHINGTON | 4938 | Rural | 6 | 11 |
| FL | BAKER | 28283 | Urban | 8 | 25 |
| FL | BRADFORD | 27038 | Rural | 10 | 79 |
| FL | CALHOUN | 14483 | Rural | 8 | 41 |
| FL | FRANKLIN | 11727 | Rural | 15 | 83 |
| FL | GULF | 16160 | Urban | 8 | 64 |
| FL | HAMILTON | 14184 | Rural | 5 | 42 |
| FL | LEVY | 40355 | Rural | 13 | 80 |
| FL | SUWANNEE | 44190 | Rural | 15 | 40 |
| FL | UNION | 15517 | Rural | 6 | 52 |
| GA | BROOKS | 15587 | Urban | 6 | 60 |
| GA | BUTTS | 24059 | Urban | 2 | 53 |
| GA | CALHOUN | 6455 | Rural | 6 | 40 |
| GA | CHARLTON | 12715 | Rural | 4 | 75 |
| GA | CLAY | 2962 | Rural | 1 | 35 |
| GA | CLINCH | 6727 | Rural | 4 | 73 |
| GA | EARLY | 10296 | Rural | 13 | 99 |
| GA | EFFINGHAM | 59982 | Urban | 10 | 70 |
| GA | EVANS | 10775 | Rural | 2 | 49 |
| GA | GREENE | 17281 | Rural | 4 | 69 |
| GA | HART | 25794 | Rural | 3 | 82 |
| GA | HEARD | 11730 | Urban | 4 | 29 |
| GA | IRWIN | 9410 | Rural | 4 | 34 |
| GA | JEFFERSON | 15648 | Rural | 6 | 65 |
| GA | JENKINS | 8767 | Rural | 4 | 65 |
| GA | LANIER | 10425 | Urban | 3 | 65 |
| GA | LIBERTY | 61386 | Urban | 4 | 57 |
| GA | MACON | 13314 | Rural | 3 | 49 |
| GA | MARION | 8450 | Urban | 4 | 30 |
| GA | MERIWETHER | 21049 | Urban | 5 | 115 |
| GA | MILLER | 5838 | Rural | 4 | 63 |
| GA | MITCHELL | 22292 | Rural | 16 | 58 |
| GA | MORGAN | 18412 | Urban | 4 | 71 |
| GA | PEACH | 27099 | Urban | 4 | 25 |
| GA | PIERCE | 19307 | Rural | 3 | 22 |
| GA | POLK | 42085 | Rural | 6 | 127 |
| GA | RABUN | 16602 | Rural | 9 | 123 |
| GA | RANDOLPH | 7075 | Rural | 7 | 65 |
| GA | SCREVEN | 13953 | Rural | 5 | 74 |
| GA | SEMINOLE | 8292 | Rural | 1 | 65 |
| GA | STEWART | 5985 | Rural | 4 | 57 |
| GA | TATTNALL | 25334 | Rural | 4 | 65 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|------------|-------------------|----------------|-----------|---------------------|
| GA | TERRELL | 8729 | Urban | 3 | 34 |
| GA | WHEELER | 7952 | Rural | 5 | 120 |
| IA | ADAIR | 7054 | Rural | 10 | 56 |
| IA | ADAMS | 3686 | Rural | 3 | 44 |
| IA | AUDUBON | 5578 | Rural | 7 | 54 |
| IA | BREMER | 24911 | Urban | 13 | 120 |
| IA | BUCHANAN | 21202 | Rural | 6 | 134 |
| IA | CHICKASAW | 12005 | Rural | 3 | 47 |
| IA | CLARKE | 9374 | Rural | 4 | 80 |
| IA | DALLAS | 87235 | Urban | 10 | 74 |
| IA | DECATUR | 7950 | Rural | 2 | 76 |
| IA | GRUNDY | 12333 | Urban | 9 | 124 |
| IA | HANCOCK | 10771 | Rural | 3 | 50 |
| IA | HARRISON | 14136 | Urban | 7 | 74 |
| IA | HOWARD | 9228 | Rural | 9 | 67 |
| IA | HUMBOLDT | 9564 | Rural | 7 | 70 |
| IA | IOWA | 16103 | Rural | 6 | 69 |
| IA | JONES | 20536 | Urban | 11 | 97 |
| IA | KEOKUK | 10153 | Rural | 5 | 49 |
| IA | LYON | 11792 | Rural | 5 | 55 |
| IA | RINGGOLD | 5034 | Rural | 3 | 47 |
| IA | SAC | 9817 | Rural | 12 | 79 |
| IA | VAN BUREN | 7157 | Rural | 13 | 65 |
| IA | WEBSTER | 36605 | Rural | 8 | 174 |
| IA | WRIGHT | 12784 | Rural | 13 | 109 |
| ID | BUTTE | 2602 | Urban | 3 | 28 |
| ID | ELMORE | 26823 | Rural | 4 | 40 |
| ID | FRANKLIN | 13564 | Urban | 3 | 40 |
| ID | GEM | 17379 | Urban | 4 | 40 |
| ID | GOODING | 15124 | Rural | 13 | 54 |
| ID | JEROME | 23627 | Urban | 4 | 50 |
| ID | ONEIDA | 4427 | Rural | 5 | 22 |
| ID | TETON | 11381 | Rural | 7 | 26 |
| IL | ALEXANDER | 6315 | Urban | 2 | 44 |
| IL | BOND | 16948 | Urban | 11 | 60 |
| IL | BOONE | 53513 | Urban | 2 | 121 |
| IL | CARROLL | 14518 | Rural | 6 | 26 |
| IL | CLAY | 13269 | Rural | 7 | 36 |
| IL | DOUGLAS | 19748 | Rural | 4 | 58 |
| IL | EDGAR | 17328 | Rural | 10 | 74 |
| IL | GREENE | 13174 | Rural | 12 | 116 |
| IL | HAMILTON | 8194 | Rural | 7 | 62 |
| IL | HARDIN | 4046 | Rural | 3 | 73 |
| IL | JO DAVIESS | 21594 | Rural | 6 | 104 |
| IL | PIATT | 16445 | Urban | 4 | 37 |
| IL | SCHUYLER | 7035 | Rural | 4 | 80 |
| IL | SHELBY | 21719 | Rural | 4 | 30 |
| IL | UNION | 17000 | Rural | 6 | 61 |
| IL | WHITE | 13938 | Rural | 17 | 171 |
| IL | WOODFORD | 38726 | Urban | 6 | 51 |
| IN | BLACKFORD | 11976 | Rural | 2 | 46 |
| IN | NEWTON | 14130 | Urban | 8 | 40 |
| IN | STARKE | 22893 | Rural | 10 | 53 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|------------|-------------------|----------------|-----------|---------------------|
| IN | WARREN | 8201 | Rural | 3 | 32 |
| KS | ANDERSON | 7833 | Rural | 4 | 67 |
| KS | BARBER | 4586 | Rural | 7 | 115 |
| KS | CHAUTAUQUA | 3363 | Rural | 9 | 129 |
| KS | CHEYENNE | 2683 | Rural | 7 | 36 |
| KS | CLARK | 2004 | Rural | 6 | 74 |
| KS | COFFEY | 8224 | Rural | 5 | 61 |
| KS | COMANCHE | 1790 | Rural | 3 | 28 |
| KS | DICKINSON | 18902 | Rural | 9 | 119 |
| KS | EDWARDS | 2893 | Rural | 6 | 24 |
| KS | ELLSWORTH | 6330 | Rural | 15 | 45 |
| KS | FRANKLIN | 25733 | Rural | 5 | 49 |
| KS | GOVE | 2631 | Rural | 2 | 46 |
| KS | GRAHAM | 2495 | Rural | 3 | 51 |
| KS | GRANT | 7526 | Rural | 2 | 45 |
| KS | GREELEY | 1249 | Rural | 3 | 36 |
| KS | GREENWOOD | 6123 | Rural | 8 | 71 |
| KS | HAMILTON | 2640 | Rural | 4 | 54 |
| KS | HARPER | 5590 | Rural | 12 | 152 |
| KS | HASKELL | 4053 | Rural | 7 | 26 |
| KS | HODGEMAN | 1842 | Rural | 4 | 32 |
| KS | JACKSON | 13318 | Urban | 8 | 39 |
| KS | JEFFERSON | 18998 | Urban | 5 | 61 |
| KS | JEWELL | 2850 | Rural | 5 | 37 |
| KS | KEARNY | 3960 | Rural | 4 | 51 |
| KS | KIOWA | 2485 | Rural | 5 | 73 |
| KS | LANE | 1559 | Rural | 5 | 35 |
| KS | LINCOLN | 3043 | Rural | 4 | 28 |
| KS | MARION | 11986 | Rural | 12 | 95 |
| KS | MEADE | 4303 | Rural | 10 | 51 |
| KS | MIAMI | 33461 | Urban | 15 | 39 |
| KS | MORRIS | 5455 | Rural | 3 | 53 |
| KS | MORTON | 2740 | Rural | 3 | 40 |
| KS | NEMAHA | 10118 | Rural | 12 | 100 |
| KS | NESS | 2869 | Rural | 7 | 75 |
| KS | NORTON | 5441 | Rural | 4 | 68 |
| KS | OSBORNE | 3610 | Rural | 5 | 54 |
| KS | OTTAWA | 5863 | Rural | 2 | 50 |
| KS | PAWNEE | 6680 | Rural | 5 | 93 |
| KS | RAWLINS | 2497 | Rural | 5 | 48 |
| KS | REPUBLIC | 4691 | Rural | 5 | 70 |
| KS | RICE | 9660 | Rural | 7 | 69 |
| KS | ROOKS | 5043 | Rural | 9 | 52 |
| KS | RUSH | 3103 | Rural | 4 | 48 |
| KS | SCOTT | 4961 | Rural | 4 | 52 |
| KS | SHERIDAN | 2527 | Rural | 3 | 43 |
| KS | SHERMAN | 5930 | Rural | 4 | 74 |
| KS | STAFFORD | 4207 | Rural | 9 | 69 |
| KS | STANTON | 2060 | Rural | 3 | 43 |
| KS | STEVENS | 5612 | Rural | 4 | 34 |
| KS | SUMNER | 23159 | Urban | 16 | 151 |
| KS | TREGO | 2884 | Rural | 3 | 53 |
| KS | WICHITA | 2125 | Rural | 3 | 38 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|----------------|-------------------|----------------|-----------|---------------------|
| KS | WILSON | 8675 | Rural | 9 | 147 |
| KY | ALLEN | 20933 | Urban | 5 | 77 |
| KY | BRECKINRIDGE | 20111 | Rural | 5 | 52 |
| KY | CALDWELL | 12639 | Rural | 5 | 73 |
| KY | CLARK | 36046 | Urban | 5 | 75 |
| KY | CLINTON | 10276 | Rural | 1 | 42 |
| KY | CRITTENDEN | 9084 | Rural | 3 | 48 |
| KY | CUMBERLAND | 6706 | Rural | 4 | 56 |
| KY | ESTILL | 14277 | Rural | 10 | 51 |
| KY | GARRARD | 17523 | Rural | 11 | 34 |
| KY | GRANT | 24984 | Urban | 2 | 45 |
| KY | HICKMAN | 4520 | Rural | 3 | 41 |
| KY | LESLIE | 10334 | Rural | 16 | 65 |
| KY | LINCOLN | 24456 | Rural | 10 | 68 |
| KY | LIVINGSTON | 9269 | Rural | 8 | 51 |
| KY | MCLEAN | 9201 | Urban | 2 | 26 |
| KY | MONROE | 10659 | Rural | 7 | 49 |
| KY | MORGAN | 13188 | Rural | 6 | 45 |
| KY | NICHOLAS | 7130 | Rural | 4 | 36 |
| KY | OWEN | 10765 | Rural | 3 | 55 |
| KY | ROCKCASTLE | 16698 | Rural | 8 | 26 |
| KY | SIMPSON | 18108 | Rural | 3 | 69 |
| KY | TRIGG | 14444 | Urban | 3 | 65 |
| KY | WAYNE | 20716 | Rural | 6 | 55 |
| LA | ASSUMPTION | 22526 | Rural | 5 | 55 |
| LA | BIENVILLE | 13638 | Rural | 6 | 51 |
| LA | CALDWELL | 9950 | Rural | 7 | 123 |
| LA | CAMERON | 6912 | Urban | 5 | 98 |
| LA | CATAHOULA | 9875 | Rural | 5 | 113 |
| LA | DE SOTO | 27340 | Urban | 7 | 34 |
| LA | EAST CARROLL | 7126 | Rural | 6 | 52 |
| LA | EAST FELICIANA | 19412 | Urban | 6 | 335 |
| LA | JACKSON | 15846 | Rural | 8 | 50 |
| LA | LA SALLE | 14933 | Rural | 6 | 116 |
| LA | POINTE COUPEE | 22268 | Urban | 8 | 48 |
| LA | RED RIVER | 8536 | Rural | 5 | 110 |
| LA | SABINE | 24018 | Rural | 9 | 150 |
| LA | SAINT HELENA | 10363 | Urban | 3 | 50 |
| LA | SAINT JAMES | 21367 | Urban | 5 | 426 |
| LA | SAINT MARTIN | 54171 | Urban | 7 | 89 |
| LA | TENSAS | 4615 | Rural | 5 | 60 |
| LA | WEST CARROLL | 10981 | Rural | 6 | 33 |
| LA | WEST FELICIANA | 15380 | Urban | 2 | 44 |
| MD | SOMERSET | 25918 | Urban | 2 | 8 |
| MI | ALGER | 9121 | Rural | 5 | 50 |
| MI | BARAGA | 8441 | Rural | 3 | 48 |
| MI | CLINTON | 78443 | Urban | 2 | 53 |
| MI | EATON | 109027 | Urban | 5 | 115 |
| MI | GLADWIN | 25234 | Rural | 7 | 67 |
| MI | IOSCO | 25162 | Rural | 12 | 60 |
| MI | KALKASKA | 17634 | Rural | 5 | 21 |
| MI | LEELANAU | 21657 | Rural | 7 | 46 |
| MI | LUCE | 6358 | Rural | 3 | 63 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|----------------|-------------------|----------------|-----------|---------------------|
| MI | MACKINAC | 10712 | Rural | 8 | 30 |
| MI | MECOSTA | 43391 | Rural | 11 | 74 |
| MI | ONTONAGON | 5881 | Rural | 4 | 68 |
| MI | PRESQUE ISLE | 12791 | Rural | 5 | 53 |
| MI | SCHOOLCRAFT | 8049 | Rural | 4 | 63 |
| MN | BIG STONE | 5026 | Rural | 6 | 97 |
| MN | CASS | 29355 | Rural | 10 | 24 |
| MN | COOK | 5398 | Rural | 2 | 32 |
| MN | FILLMORE | 20980 | Urban | 6 | 32 |
| MN | FREEBORN | 30535 | Rural | 1 | 181 |
| MN | HOUSTON | 18660 | Urban | 5 | 28 |
| MN | ISANTI | 39582 | Urban | 1 | 86 |
| MN | KITTSOON | 4250 | Rural | 5 | 49 |
| MN | LAC QUI PARLE | 6685 | Rural | 8 | 71 |
| MN | LAKE | 10524 | Rural | 3 | 55 |
| MN | LINCOLN | 5678 | Rural | 14 | 126 |
| MN | PINE | 29203 | Rural | 10 | 85 |
| MN | PIPESTONE | 9087 | Rural | 2 | 88 |
| MN | RED LAKE | 4030 | Rural | 3 | 23 |
| MN | REDWOOD | 15272 | Rural | 4 | 71 |
| MN | RENVILLE | 14645 | Rural | 8 | 51 |
| MN | RICE | 65968 | Rural | 1 | 99 |
| MN | ROCK | 9490 | Rural | 2 | 56 |
| MN | SIBLEY | 14869 | Urban | 10 | 84 |
| MN | WABASHA | 21608 | Urban | 4 | 74 |
| MO | ATCHISON | 5275 | Rural | 7 | 74 |
| MO | CARROLL | 8796 | Rural | 7 | 102 |
| MO | CEDAR | 14073 | Rural | 8 | 59 |
| MO | COOPER | 17644 | Rural | 6 | 46 |
| MO | DADE | 7588 | Rural | 3 | 21 |
| MO | DENT | 15480 | Rural | 9 | 63 |
| MO | GASCONADE | 14726 | Rural | 6 | 69 |
| MO | GRUNDY | 9949 | Rural | 6 | 103 |
| MO | HOWARD | 10139 | Rural | 6 | 50 |
| MO | MACON | 15251 | Rural | 6 | 68 |
| MO | NODAWAY | 22472 | Rural | 9 | 90 |
| MO | PERRY | 19225 | Rural | 12 | 89 |
| MO | PIKE | 18567 | Rural | 12 | 70 |
| MO | PUTNAM | 4811 | Rural | 3 | 49 |
| MO | RAY | 22855 | Urban | 6 | 74 |
| MO | RIPLEY | 13564 | Rural | 9 | 30 |
| MO | SAINT CLAIR | 9362 | Rural | 13 | 84 |
| MO | SCOTT | 38541 | Rural | 15 | 42 |
| MO | STE. GENEVIEVE | 17843 | Rural | 11 | 43 |
| MO | SULLIVAN | 6229 | Rural | 6 | 72 |
| MS | CALHOUN | 14492 | Rural | 10 | 131 |
| MS | CHICKASAW | 17146 | Rural | 13 | 87 |
| MS | CHOCTAW | 8278 | Rural | 16 | 100 |
| MS | CLAIBORNE | 8950 | Rural | 4 | 67 |
| MS | COPIAH | 28516 | Urban | 5 | 84 |
| MS | COVINGTON | 19079 | Rural | 10 | 117 |
| MS | FRANKLIN | 7765 | Rural | 7 | 72 |
| MS | GEORGE | 24094 | Rural | 5 | 48 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|-----------------|-------------------|----------------|-----------|---------------------|
| MS | GREENE | 13345 | Rural | 6 | 20 |
| MS | HOLMES | 17739 | Rural | 20 | 103 |
| MS | ITAWAMBA | 23508 | Rural | 9 | 62 |
| MS | JASPER | 16582 | Rural | 2 | 20 |
| MS | JEFFERSON | 7262 | Rural | 2 | 48 |
| MS | JEFFERSON DAVIS | 11314 | Rural | 5 | 76 |
| MS | KEMPER | 9883 | Rural | 7 | 66 |
| MS | LAMAR | 61374 | Urban | 7 | 49 |
| MS | LAWRENCE | 12643 | Rural | 4 | 78 |
| MS | LEAKE | 22715 | Rural | 11 | 131 |
| MS | MARSHALL | 35619 | Urban | 12 | 40 |
| MS | MONTGOMERY | 10173 | Rural | 7 | 93 |
| MS | NOXUBEE | 10742 | Rural | 8 | 74 |
| MS | PERRY | 12032 | Urban | 7 | 52 |
| MS | PONTOTOC | 31640 | Rural | 8 | 83 |
| MS | QUITMAN | 7269 | Rural | 4 | 69 |
| MS | SHARKEY | 4435 | Rural | 6 | 58 |
| MS | SIMPSON | 26947 | Urban | 7 | 148 |
| MS | SMITH | 16078 | Rural | 7 | 92 |
| MS | SUNFLOWER | 25981 | Rural | 20 | 148 |
| MS | TALLAHATCHIE | 14125 | Rural | 10 | 27 |
| MS | TATE | 28441 | Urban | 2 | 76 |
| MS | TIPPAH | 21969 | Rural | 6 | 90 |
| MS | WALTHALL | 14499 | Rural | 3 | 95 |
| MS | WEBSTER | 9765 | Rural | 7 | 56 |
| MS | WILKINSON | 8804 | Rural | 8 | 91 |
| MS | WINSTON | 18246 | Rural | 8 | 41 |
| MS | YALOBUSHA | 12497 | Rural | 9 | 32 |
| MT | BIG HORN | 13360 | Rural | 4 | 85 |
| MT | BLAINE | 6708 | Rural | 3 | 24 |
| MT | BROADWATER | 5936 | Rural | 3 | 18 |
| MT | CARTER | 1222 | Rural | 4 | 41 |
| MT | CHOUTEAU | 5765 | Rural | 8 | 52 |
| MT | GRANITE | 3358 | Rural | 5 | 31 |
| MT | MADISON | 8175 | Rural | 11 | 55 |
| MT | MCCONE | 1718 | Rural | 2 | 45 |
| MT | MUSSELSHELL | 4639 | Rural | 3 | 50 |
| MT | PONDERA | 5960 | Rural | 3 | 47 |
| MT | PRAIRIE | 1109 | Rural | 3 | 27 |
| MT | STILLWATER | 9419 | Rural | 3 | 23 |
| MT | SWEET GRASS | 3691 | Rural | 3 | 40 |
| NC | ALLEGHANY | 11031 | Rural | 5 | 71 |
| NC | ANSON | 24991 | Rural | 3 | 15 |
| NC | ASHE | 26957 | Rural | 5 | 152 |
| NC | CASWELL | 22646 | Rural | 1 | 24 |
| NC | DARE | 36099 | Rural | 3 | 38 |
| NC | MONTGOMERY | 27435 | Rural | 12 | 93 |
| NC | WARREN | 19883 | Rural | 3 | 37 |
| NC | WASHINGTON | 12012 | Rural | 4 | 98 |
| NC | YANCEY | 17744 | Rural | 4 | 16 |
| ND | DIVIDE | 2288 | Rural | 4 | 44 |
| ND | FOSTER | 3257 | Rural | 4 | 55 |
| ND | GRANT | 2376 | Rural | 6 | 46 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|------------|-------------------|----------------|-----------|---------------------|
| ND | GRIGGS | 2258 | Rural | 4 | 28 |
| ND | MCKENZIE | 12724 | Rural | 4 | 48 |
| ND | MCLEAN | 9685 | Rural | 10 | 114 |
| ND | MORTON | 30796 | Urban | 9 | 80 |
| ND | NELSON | 2937 | Rural | 4 | 38 |
| ND | RANSOM | 5297 | Rural | 6 | 45 |
| ND | RENVILLE | 2463 | Rural | 2 | 24 |
| ND | SIOUX | 4376 | Urban | 1 | 12 |
| ND | TOWNER | 2253 | Rural | 5 | 40 |
| ND | TRAILL | 8013 | Rural | 6 | 91 |
| ND | WALSH | 10855 | Rural | 6 | 75 |
| NE | BOONE | 5352 | Rural | 6 | 59 |
| NE | BURT | 6535 | Rural | 11 | 41 |
| NE | CUMING | 9042 | Rural | 9 | 74 |
| NE | DAWES | 8890 | Rural | 4 | 87 |
| NE | FILLMORE | 5582 | Rural | 7 | 58 |
| NE | FRANKLIN | 2990 | Rural | 5 | 34 |
| NE | GARDEN | 1906 | Rural | 4 | 30 |
| NE | HOOKER | 674 | Rural | 1 | 9 |
| NE | HOWARD | 6437 | Urban | 3 | 62 |
| NE | JEFFERSON | 7178 | Rural | 5 | 50 |
| NE | KEITH | 8072 | Rural | 3 | 36 |
| NE | KIMBALL | 3619 | Rural | 3 | 40 |
| NE | KNOX | 8472 | Rural | 8 | 53 |
| NE | RED WILLOW | 10728 | Rural | 3 | 69 |
| NE | ROCK | 1436 | Rural | 6 | 41 |
| NE | SAUNDERS | 21057 | Urban | 7 | 46 |
| NE | SHERMAN | 3086 | Rural | 5 | 26 |
| NE | THAYER | 5045 | Rural | 8 | 41 |
| NM | DE BACA | 1829 | Rural | 2 | 36 |
| NM | GUADALUPE | 4429 | Rural | 2 | 12 |
| NM | QUAY | 8306 | Rural | 3 | 62 |
| NM | SIERRA | 11116 | Rural | 3 | 47 |
| NM | SOCORRO | 16798 | Rural | 2 | 62 |
| NM | UNION | 4187 | Rural | 4 | 55 |
| NM | VALENCIA | 75940 | Urban | 1 | 25 |
| NV | LANDER | 5693 | Rural | 3 | 12 |
| NV | LYON | 54122 | Rural | 10 | 28 |
| NV | MINERAL | 4457 | Rural | 4 | 36 |
| NV | NYE | 44202 | Rural | 5 | 93 |
| NY | SCHOHARIE | 31420 | Urban | 2 | 80 |
| OH | ADAMS | 27726 | Rural | 6 | 113 |
| OH | HIGHLAND | 42971 | Rural | 7 | 185 |
| OH | PAULDING | 18845 | Rural | 4 | 82 |
| OH | PIKE | 28270 | Rural | 5 | 88 |
| OH | ROSS | 77313 | Rural | 2 | 261 |
| OH | WARREN | 228882 | Urban | 1 | 328 |
| OK | ADAIR | 21909 | Rural | 3 | 67 |
| OK | BEAVER | 5315 | Rural | 5 | 48 |
| OK | CADDO | 29173 | Rural | 8 | 117 |
| OK | CHOCTAW | 14863 | Rural | 5 | 34 |
| OK | CIMARRON | 2154 | Rural | 4 | 45 |
| OK | COAL | 5642 | Rural | 5 | 40 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|---------------|-------------------|----------------|-----------|---------------------|
| OK | CRAIG | 14327 | Rural | 5 | 117 |
| OK | DEWEY | 4878 | Rural | 4 | 36 |
| OK | ELLIS | 3966 | Rural | 3 | 104 |
| OK | GARVIN | 27909 | Rural | 7 | 115 |
| OK | GRANT | 4395 | Rural | 7 | 7 |
| OK | GREER | 5843 | Rural | 4 | 65 |
| OK | HARMON | 2689 | Rural | 3 | 62 |
| OK | HASKELL | 12763 | Rural | 7 | 65 |
| OK | JEFFERSON | 6183 | Rural | 6 | 61 |
| OK | JOHNSTON | 11060 | Rural | 3 | 72 |
| OK | KINGFISHER | 15669 | Rural | 6 | 85 |
| OK | KIOWA | 8893 | Rural | 4 | 38 |
| OK | LATIMER | 10411 | Rural | 4 | 77 |
| OK | LOGAN | 46784 | Urban | 5 | 75 |
| OK | MAJOR | 7693 | Rural | 3 | 56 |
| OK | MARSHALL | 16434 | Rural | 6 | 75 |
| OK | MAYES | 40921 | Rural | 7 | 73 |
| OK | MCCLAIN | 39343 | Urban | 2 | 39 |
| OK | MCCURTAIN | 32808 | Rural | 7 | 116 |
| OK | MCINTOSH | 19742 | Rural | 3 | 33 |
| OK | MURRAY | 13853 | Rural | 4 | 65 |
| OK | NOBLE | 11277 | Rural | 8 | 26 |
| OK | NOWATA | 10306 | Rural | 6 | 65 |
| OK | OKFUSKEE | 12140 | Rural | 4 | 55 |
| OK | OKMULGEE | 38930 | Urban | 8 | 111 |
| OK | PUSHMATAHA | 11173 | Rural | 4 | 23 |
| OK | SEQUOYAH | 41252 | Urban | 3 | 41 |
| OK | TEXAS | 20900 | Rural | 3 | 72 |
| OK | TILLMAN | 7433 | Rural | 3 | 37 |
| OK | WOODS | 9031 | Rural | 6 | 74 |
| OR | WALLOWA | 7051 | Rural | 5 | 58 |
| PA | GREENE | 36770 | Rural | 4 | 69 |
| SC | ALLENDALE | 9002 | Rural | 7 | 50 |
| SC | BAMBERG | 14381 | Rural | 5 | 59 |
| SC | EDGEFIELD | 26693 | Urban | 5 | 65 |
| SC | FAIRFIELD | 22607 | Urban | 6 | 75 |
| SC | LEE | 17350 | Rural | 4 | 35 |
| SC | ORANGEBURG | 87476 | Rural | 19 | 286 |
| SD | BENNETT | 3454 | Rural | 5 | 34 |
| SD | DEUEL | 4281 | Rural | 4 | 26 |
| SD | DEWEY | 5835 | Rural | 3 | 35 |
| SD | DOUGLAS | 2931 | Rural | 6 | 20 |
| SD | EDMUNDS | 3919 | Rural | 7 | 53 |
| SD | FALL RIVER | 6687 | Rural | 13 | 37 |
| SD | FAULK | 2329 | Rural | 3 | 44 |
| SD | HAAKON | 1943 | Rural | 4 | 38 |
| SD | HAMLIN | 5948 | Rural | 7 | 16 |
| SD | JERAULD | 2028 | Rural | 2 | 44 |
| SD | LINCOLN | 56664 | Urban | 3 | 33 |
| SD | MARSHALL | 4804 | Rural | 3 | 40 |
| SD | MCPHERSON | 2426 | Rural | 3 | 10 |
| SD | MOODY | 6579 | Rural | 4 | 36 |
| SD | OGLALA LAKOTA | 14354 | Rural | 2 | 45 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|---------------|-------------------|----------------|-----------|---------------------|
| SD | PERKINS | 2974 | Rural | 5 | 8 |
| SD | TURNER | 8315 | Urban | 11 | 24 |
| SD | UNION | 15029 | Urban | 5 | 40 |
| TN | BENTON | 15986 | Rural | 3 | 25 |
| TN | BLEDSON | 14717 | Rural | 5 | 31 |
| TN | BRADLEY | 105560 | Urban | 2 | 351 |
| TN | CANNON | 14216 | Urban | 1 | 55 |
| TN | CHEATHAM | 40330 | Urban | 2 | 12 |
| TN | CLAY | 7703 | Rural | 5 | 36 |
| TN | COCKE | 35556 | Rural | 6 | 74 |
| TN | DECATUR | 11751 | Rural | 3 | 40 |
| TN | FAYETTE | 40036 | Urban | 3 | 50 |
| TN | FENTRESS | 18136 | Rural | 2 | 85 |
| TN | GIBSON | 49111 | Rural | 11 | 178 |
| TN | GRUNDY | 13361 | Rural | 4 | 27 |
| TN | HANCOCK | 6600 | Rural | 4 | 41 |
| TN | HARDEMAN | 25447 | Rural | 10 | 90 |
| TN | HARDIN | 25846 | Rural | 7 | 58 |
| TN | HENDERSON | 27751 | Rural | 9 | 45 |
| TN | HICKMAN | 24864 | Urban | 3 | 25 |
| TN | HOUSTON | 8213 | Rural | 3 | 75 |
| TN | HUMPHREYS | 18484 | Rural | 2 | 25 |
| TN | LAUDERDALE | 25274 | Rural | 11 | 25 |
| TN | LEWIS | 12035 | Rural | 4 | 52 |
| TN | MACON | 24079 | Urban | 1 | 25 |
| TN | MCNAIRY | 26004 | Rural | 5 | 86 |
| TN | PERRY | 7975 | Rural | 2 | 53 |
| TN | RHEA | 32691 | Rural | 9 | 25 |
| TN | SEQUATCHIE | 14736 | Urban | 2 | 49 |
| TN | TROUSDALE | 10083 | Urban | 2 | 25 |
| TN | WAYNE | 16583 | Rural | 3 | 80 |
| TX | ARCHER | 8809 | Urban | 5 | 25 |
| TX | BAILEY | 7077 | Rural | 6 | 87 |
| TX | BASTROP | 84761 | Urban | 16 | 76 |
| TX | BAYLOR | 3581 | Rural | 3 | 25 |
| TX | BLANCO | 11626 | Rural | 4 | 15 |
| TX | BOSQUE | 18326 | Rural | 10 | 122 |
| TX | CALDWELL | 42338 | Urban | 13 | 142 |
| TX | CAMP | 12855 | Rural | 4 | 74 |
| TX | CASTRO | 7843 | Rural | 7 | 66 |
| TX | CHILDRESS | 7067 | Rural | 2 | 39 |
| TX | CLAY | 10421 | Urban | 2 | 50 |
| TX | COCHRAN | 2851 | Rural | 5 | 48 |
| TX | COKE | 3306 | Rural | 6 | 26 |
| TX | COLEMAN | 8430 | Rural | 9 | 117 |
| TX | COLLINGSWORTH | 2987 | Rural | 3 | 32 |
| TX | COLORADO | 21232 | Rural | 10 | 188 |
| TX | CONCHO | 2717 | Rural | 2 | 36 |
| TX | COTTLE | 1387 | Rural | 3 | 20 |
| TX | CRANE | 4740 | Rural | 4 | 53 |
| TX | CROCKETT | 3564 | Rural | 4 | 40 |
| TX | CROSBY | 5899 | Urban | 3 | 51 |
| TX | CULBERSON | 2231 | Rural | 3 | 50 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|-----------|-------------------|----------------|-----------|---------------------|
| TX | DALLAM | 7208 | Rural | 7 | 53 |
| TX | DAWSON | 12813 | Rural | 4 | 21 |
| TX | DIMITT | 10418 | Rural | 6 | 73 |
| TX | EASTLAND | 18411 | Rural | 14 | 181 |
| TX | EDWARDS | 1953 | Rural | 1 | 8 |
| TX | FALLS | 17437 | Urban | 10 | 64 |
| TX | FAYETTE | 25272 | Rural | 9 | 115 |
| TX | FISHER | 3880 | Rural | 7 | 44 |
| TX | FLOYD | 5855 | Rural | 5 | 85 |
| TX | FOARD | 1222 | Rural | 3 | 24 |
| TX | FRANKLIN | 10767 | Rural | 4 | 49 |
| TX | FREESTONE | 19625 | Rural | 11 | 124 |
| TX | FRIO | 19600 | Rural | 12 | 117 |
| TX | GAINES | 20638 | Rural | 6 | 74 |
| TX | GARZA | 6528 | Rural | 3 | 26 |
| TX | GONZALES | 20893 | Rural | 8 | 35 |
| TX | GRIMES | 28082 | Rural | 3 | 82 |
| TX | HALL | 3071 | Rural | 7 | 62 |
| TX | HAMILTON | 8422 | Rural | 7 | 126 |
| TX | HANSFORD | 5447 | Rural | 3 | 53 |
| TX | HARDEMAN | 3994 | Rural | 5 | 108 |
| TX | HASKELL | 5746 | Rural | 3 | 55 |
| TX | HEMPHILL | 4024 | Rural | 2 | 26 |
| TX | JACK | 8832 | Rural | 4 | 41 |
| TX | JONES | 19983 | Urban | 9 | 95 |
| TX | KENDALL | 44026 | Urban | 2 | 44 |
| TX | LAMB | 13210 | Rural | 15 | 110 |
| TX | LAMPASAS | 21027 | Urban | 4 | 61 |
| TX | LAVACA | 20062 | Rural | 9 | 98 |
| TX | LEE | 17183 | Rural | 6 | 32 |
| TX | LEON | 17243 | Rural | 7 | 36 |
| TX | LIBERTY | 83658 | Urban | 17 | 165 |
| TX | LLANO | 21210 | Rural | 4 | 27 |
| TX | LYNN | 5859 | Urban | 3 | 48 |
| TX | MADISON | 14222 | Rural | 4 | 70 |
| TX | MARION | 10064 | Rural | 4 | 30 |
| TX | MARTIN | 5626 | Urban | 3 | 44 |
| TX | MASON | 4222 | Rural | 4 | 18 |
| TX | MCCULLOCH | 7957 | Rural | 5 | 50 |
| TX | MEDINA | 50066 | Urban | 9 | 59 |
| TX | MENARD | 2124 | Rural | 4 | 30 |
| TX | MILLS | 4921 | Rural | 4 | 25 |
| TX | MITCHELL | 8468 | Rural | 6 | 50 |
| TX | MORRIS | 12467 | Rural | 6 | 114 |
| TX | NEWTON | 13952 | Urban | 8 | 35 |
| TX | PANOLA | 23243 | Rural | 5 | 42 |
| TX | PARMER | 9842 | Rural | 7 | 50 |
| TX | PECOS | 15634 | Rural | 10 | 80 |
| TX | REAGAN | 3710 | Rural | 4 | 48 |
| TX | RED RIVER | 12229 | Rural | 4 | 43 |
| TX | ROBERTSON | 17203 | Urban | 5 | 33 |
| TX | RUSK | 52833 | Urban | 9 | 173 |
| TX | SABINE | 10461 | Rural | 9 | 61 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|---------------|-------------------|----------------|-----------|---------------------|
| TX | SAN AUGUSTINE | 8253 | Rural | 6 | 66 |
| TX | SAN SABA | 5959 | Rural | 6 | 49 |
| TX | SCURRY | 17050 | Rural | 3 | 74 |
| TX | SHACKELFORD | 3328 | Rural | 2 | 24 |
| TX | SHELBY | 25513 | Rural | 10 | 147 |
| TX | SOMERVELL | 8845 | Urban | 1 | 16 |
| TX | STARR | 64454 | Rural | 11 | 48 |
| TX | STEPHENS | 9337 | Rural | 2 | 40 |
| TX | STERLING | 1295 | Rural | 2 | 16 |
| TX | STONEWALL | 1388 | Rural | 4 | 66 |
| TX | SUTTON | 3767 | Rural | 3 | 33 |
| TX | SWISHER | 7515 | Rural | 6 | 50 |
| TX | TERRY | 12715 | Rural | 7 | 42 |
| TX | THROCKMORTON | 1527 | Rural | 3 | 39 |
| TX | TRINITY | 14667 | Rural | 9 | 75 |
| TX | TYLER | 21539 | Rural | 6 | 25 |
| TX | UPTON | 3663 | Rural | 6 | 65 |
| TX | VAN ZANDT | 55182 | Rural | 14 | 104 |
| TX | WARD | 11472 | Rural | 7 | 74 |
| TX | WHEELER | 5358 | Rural | 6 | 124 |
| TX | WILBARGER | 12764 | Rural | 1 | 28 |
| TX | WILLACY | 21584 | Rural | 3 | 24 |
| TX | YOAKUM | 8568 | Rural | 4 | 48 |
| UT | BEAVER | 6386 | Rural | 7 | 139 |
| UT | GRAND | 9674 | Rural | 4 | 55 |
| UT | JUAB | 11250 | Urban | 2 | 44 |
| UT | KANE | 7567 | Rural | 4 | 50 |
| UT | MILLARD | 12863 | Rural | 4 | 77 |
| UT | SANPETE | 30035 | Rural | 4 | 89 |
| UT | SUMMIT | 41106 | Rural | 3 | 30 |
| UT | WASATCH | 32106 | Rural | 2 | 38 |
| VA | NEW KENT | 21682 | Urban | 2 | 94 |
| VA | NOTTOWAY | 15434 | Rural | 3 | 180 |
| VA | PAGE | 23731 | Rural | 10 | 79 |
| VA | ROANOKE | 93730 | Urban | 1 | 270 |
| VT | WASHINGTON | 58290 | Rural | 3 | 175 |
| VT | WINDHAM | 42869 | Rural | 11 | 216 |
| WA | ADAMS | 19506 | Rural | 7 | 138 |
| WA | COLUMBIA | 4047 | Urban | 3 | 53 |
| WA | GARFIELD | 2210 | Rural | 3 | 79 |
| WA | LINCOLN | 10579 | Rural | 9 | 189 |
| WA | PEND OREILLE | 13354 | Urban | 7 | 118 |
| WA | SAN JUAN | 16715 | Rural | 9 | 20 |
| WI | ADAMS | 19973 | Rural | 6 | 74 |
| WI | BUFFALO | 13167 | Rural | 2 | 29 |
| WI | BURNETT | 15352 | Rural | 6 | 56 |
| WI | CLARK | 34679 | Rural | 10 | 54 |
| WI | JACKSON | 20529 | Rural | 2 | 76 |
| WI | JUNEAU | 26576 | Rural | 11 | 40 |
| WI | KEWAUNEE | 20445 | Urban | 11 | 68 |
| WI | LAFAYETTE | 16741 | Rural | 5 | 53 |
| WI | MONROE | 45625 | Rural | 5 | 138 |
| WI | PEPIN | 7254 | Rural | 4 | 55 |



| State | County | Population (2017) | Urban or Rural | Hospitals | Total Hospital Beds |
|-------|------------|-------------------|----------------|-----------|---------------------|
| WI | SAWYER | 16418 | Rural | 4 | 66 |
| WI | VERNON | 30759 | Rural | 9 | 103 |
| WI | WAUSHARA | 24369 | Rural | 2 | 57 |
| WV | BOONE | 22349 | Urban | 4 | 63 |
| WV | BRAXTON | 14237 | Rural | 5 | 75 |
| WV | MORGAN | 17686 | Rural | 3 | 124 |
| WV | POCAHONTAS | 8456 | Rural | 4 | 65 |
| WV | ROANE | 14043 | Rural | 9 | 140 |
| WV | TUCKER | 6915 | Rural | 2 | 46 |
| WV | TYLER | 8795 | Rural | 5 | 51 |
| WV | WEBSTER | 8372 | Rural | 5 | 110 |
| WV | WYOMING | 21210 | Rural | 11 | 88 |
| WY | CROOK | 7410 | Rural | 5 | 32 |
| WY | NIOBRARA | 2397 | Rural | 7 | 56 |