

# Chartbook Section 8

## Health Care Providers and Service Availability

# Section 8: Health Care Providers and Service Availability

- Hospital capacity, services offered, and system affiliation
- Utilization of hospital services
- Hospital financial trends, capital expenditures, and community benefit
- Availability of physician clinic services
- Availability of diagnostic imaging services
- Availability of freestanding outpatient surgical services

This slide deck is part Minnesota's Health Care Markets Chartbook, an annual review of key metrics in health care access, coverage, market competition and health care costs ([MN Statutes, Section 144.70](#))

A summary of the charts and graphs contained within is provided at [Chartbook Summaries - Section 8](#). Direct links are listed on each page. Please contact the Health Economics Program at 651-201-3550 or [health.hep@state.mn.us](mailto:health.hep@state.mn.us) if additional assistance is needed for accessing this information.

# Hospital Capacity, Services, and System Affiliation

# Hospital Capacity in Minnesota, 2017

| <b>Number of Hospitals<sup>1</sup></b> | <b>Available Beds<sup>2</sup></b> | <b>Occupancy Rate Based on Available Beds</b> | <b>Licensed Beds<sup>3</sup></b> | <b>Occupancy Rate Based on Licensed Beds</b> | <b>Available Beds Per 1,000 Population</b> |
|--|-----------------------------------|---|----------------------------------|--|--|
| 129                                    | 11,365                            | 59.3%   | 16,194                           | 41.6%  | 2.0  |

<sup>1</sup>Unity Hospital merged with Mercy Hospital under one license in 2017.

<sup>2</sup>Available beds is defined as the number of acute care beds that are immediately available for use or could be brought online within a short period of time.

<sup>3</sup>Licensed beds is defined as the number of beds licensed by the Department of Health, under Minnesota Statutes, sections 144.50 to 144.58.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Regional Hospital Capacity in Minnesota, 2017

|               | Number of Hospitals <sup>1</sup> | Available Beds <sup>2</sup> | Available Beds Per 1,000 Population | Occupancy Rate Based on Available Beds | Licensed Beds <sup>3</sup> | Occupancy Rate Based on Licensed Beds |
|---------------|----------------------------------|-----------------------------|-------------------------------------|--|----------------------------|---------------------------------------|
| Central       | 18                               | 1,113                       | 1.5                                 | 47.6%                                  | 1,360                      | 38.9%                                 |
| Metro         | 25                               | 5,812                       | 1.9                                 | 72.4%                                  | 8,524                      | 49.4%                                 |
| Northeast     | 17                               | 1,132                       | 3.5                                 | 46.4%                                  | 1,377                      | 38.1%                                 |
| Northwest     | 13                               | 371                         | 1.8                                 | 29.8%                                  | 497                        | 22.2%                                 |
| South Central | 15                               | 455                         | 1.6                                 | 41.8%                                  | 761                        | 25.0%                                 |
| Southeast     | 10                               | 1,634                       | 3.2                                 | 61.2%                                  | 2,578                      | 38.8%                                 |
| Southwest     | 23                               | 548                         | 2.5                                 | 17.3%                                  | 689                        | 13.7%                                 |
| West Central  | 8                                | 300                         | 1.5                                 | 26.7%                                  | 408                        | 19.6%                                 |
| <b>Total</b>  | <b>129</b>                       | <b>11,365</b>               | <b>2.0</b>                          | <b>59.3%</b>                           | <b>16,194</b>              | <b>41.6%</b>                          |

<sup>1</sup>Unity Hospital merged with Mercy Hospital under one license in 2017.

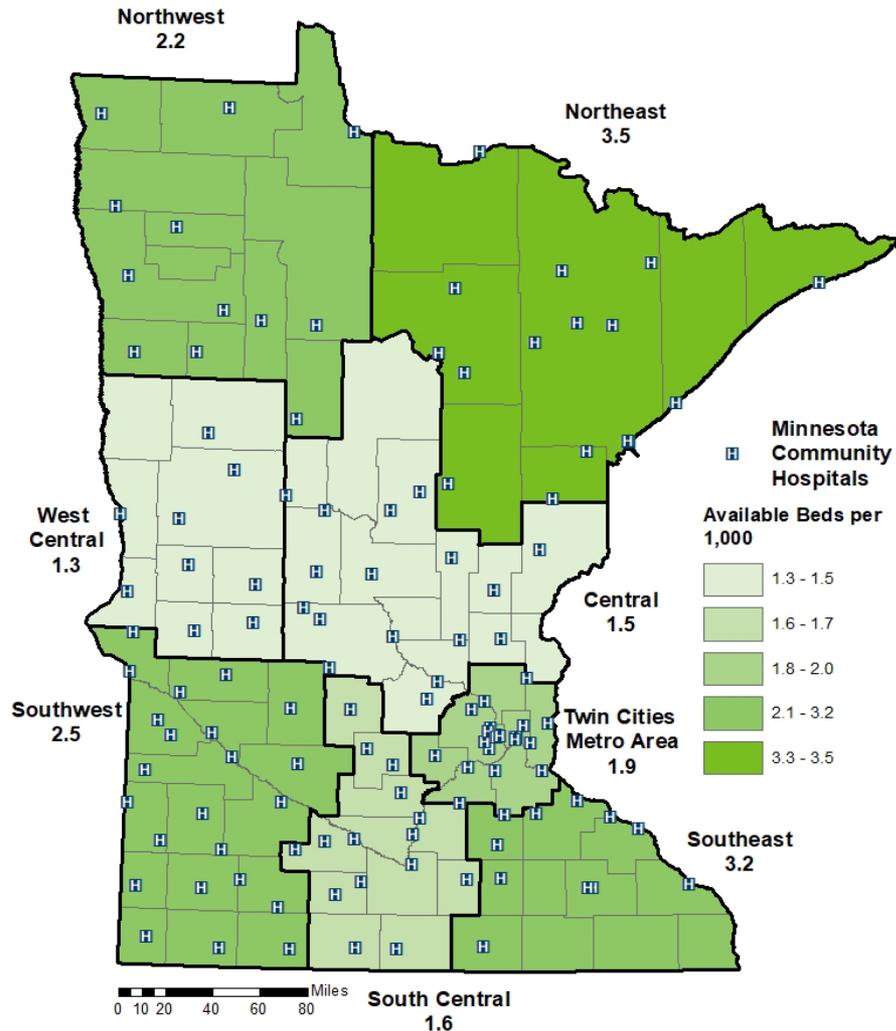
<sup>2</sup>Available beds is defined as the number of acute care beds that are immediately available for use or could be brought online within a short period of time.

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Regions are defined from the State Community Health Services Advisory Committee found here: <http://www.health.state.mn.us/schsac/>.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Available Minnesota Hospital Beds per 1,000 Population by SCHSAC Region, 2017



Regions are defined from the State Community Health Services Advisory Committee found here: <http://www.health.state.mn.us/schsac/>.

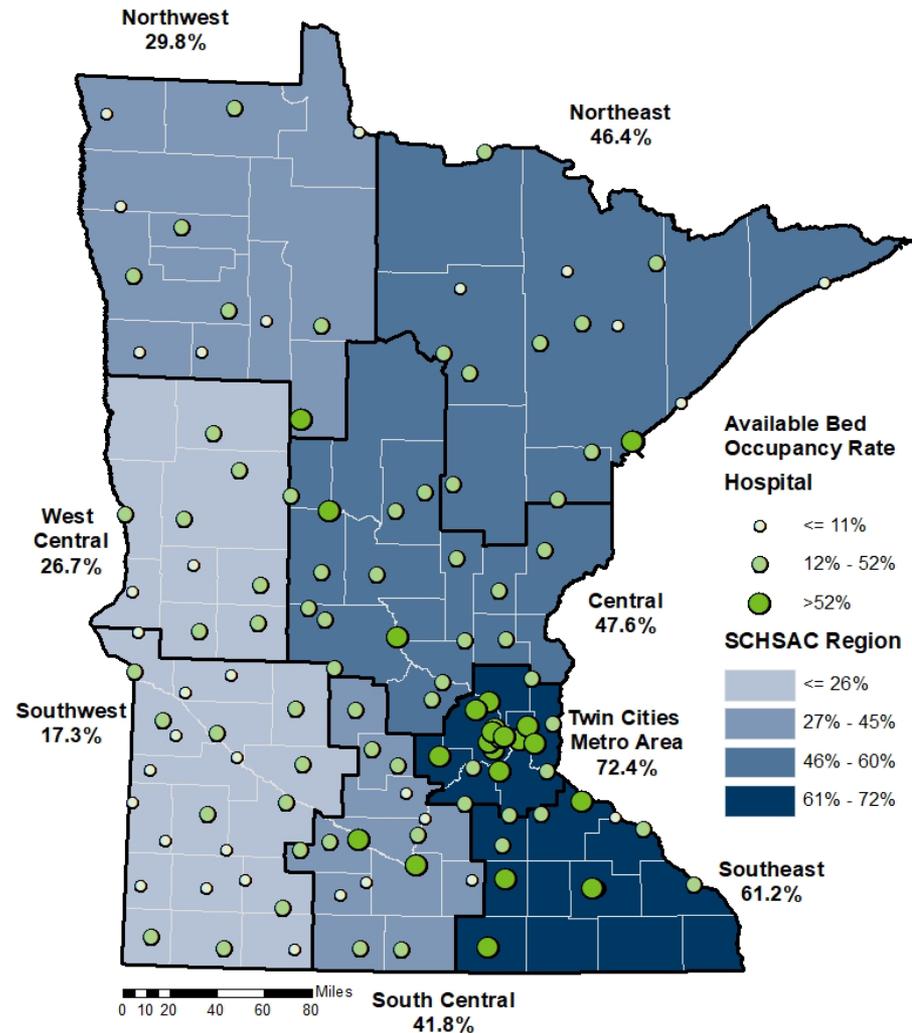
Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of image](#)

# Distribution of Minnesota's Hospitals by Size and Region

|                      | Available Beds in 2017 |               |               |                 |                     | Total       |
|----------------------|------------------------|---------------|---------------|-----------------|---------------------|-------------|
|                      | Under 25<br>Beds       | 25-49<br>Beds | 50-99<br>Beds | 100-199<br>Beds | 200 or More<br>Beds |             |
| <b>Central</b>       | 11.1%                  | 66.7%         | 11.1%         | 5.6%            | 5.6%                | 100%        |
| <b>Metro</b>         | 8.0%                   | 8.0%          | 28.0%         | 12.0%           | 44.0%               | 100%        |
| <b>Northeast</b>     | 47.1%                  | 17.6%         | 17.6%         | 5.9%            | 11.8%               | 100%        |
| <b>Northwest</b>     | 38.5%                  | 53.8%         | 0%            | 7.7%            | 0%                  | 100%        |
| <b>South Central</b> | 53.3%                  | 40.0%         | 0%            | 6.7%            | 0.0%                | 100%        |
| <b>Southeast</b>     | 40.0%                  | 30.0%         | 20.0%         | 0%              | 10.0%               | 100%        |
| <b>Southwest</b>     | 47.8%                  | 47.8%         | 4.3%          | 0%              | 0%                  | 100%        |
| <b>West Central</b>  | 37.5%                  | 37.5%         | 12.5%         | 12.5%           | 0%                  | 100%        |
| <b>Statewide</b>     | <b>33.3%</b>           | <b>36.4%</b>  | <b>12.4%</b>  | <b>6.2%</b>     | <b>11.6%</b>        | <b>100%</b> |

# Available Minnesota Hospital Bed Occupancy Rate by Region, 2017



Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of image](#)

# Services Available in Minnesota Hospitals, 2017

|   | Number of Hospitals with Services Available <sup>1</sup> | Number of Hospitals with Services Not Available |
|---|--|---|
| <b>Surgery</b>  |  |   |
| Inpatient Surgery   | 120  | 9   |
| Outpatient Surgery  | 127  | 2   |
| Open-Heart Surgery Services                                     | 18   | 111   |
| Organ Transplant Services                                       | 4  | 125   |
| <b>Mental Health/Chemical Dependency Services</b>               |  |   |
| Outpatient Psychiatric Services                                 | 65   | 64  |
| Detoxification Services   | 26   | 103   |
| <b>Diagnostic Radiology</b>                                     |  |   |
| Computer Tomography (CT) Scanning Services                      | 128  | 1   |
| Magnetic Resonance Imaging (MRI) Services                       | 126  | 3   |
| Positron Emission Tomography (PET) Services                     | 7  | 122   |
| Single Photon Emission Computerized Tomography (SPECT) Services | 54   | 75  |
| <b>Other Services</b>   |  |   |
| Renal Dialysis Services   | 37   | 92  |
| Cardiac Catheterization Services                                | 24   | 105   |

<sup>1</sup>Services are considered “available” when they are provided on site by hospital staff, on site through contracted services, or off site through shared services agreement.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

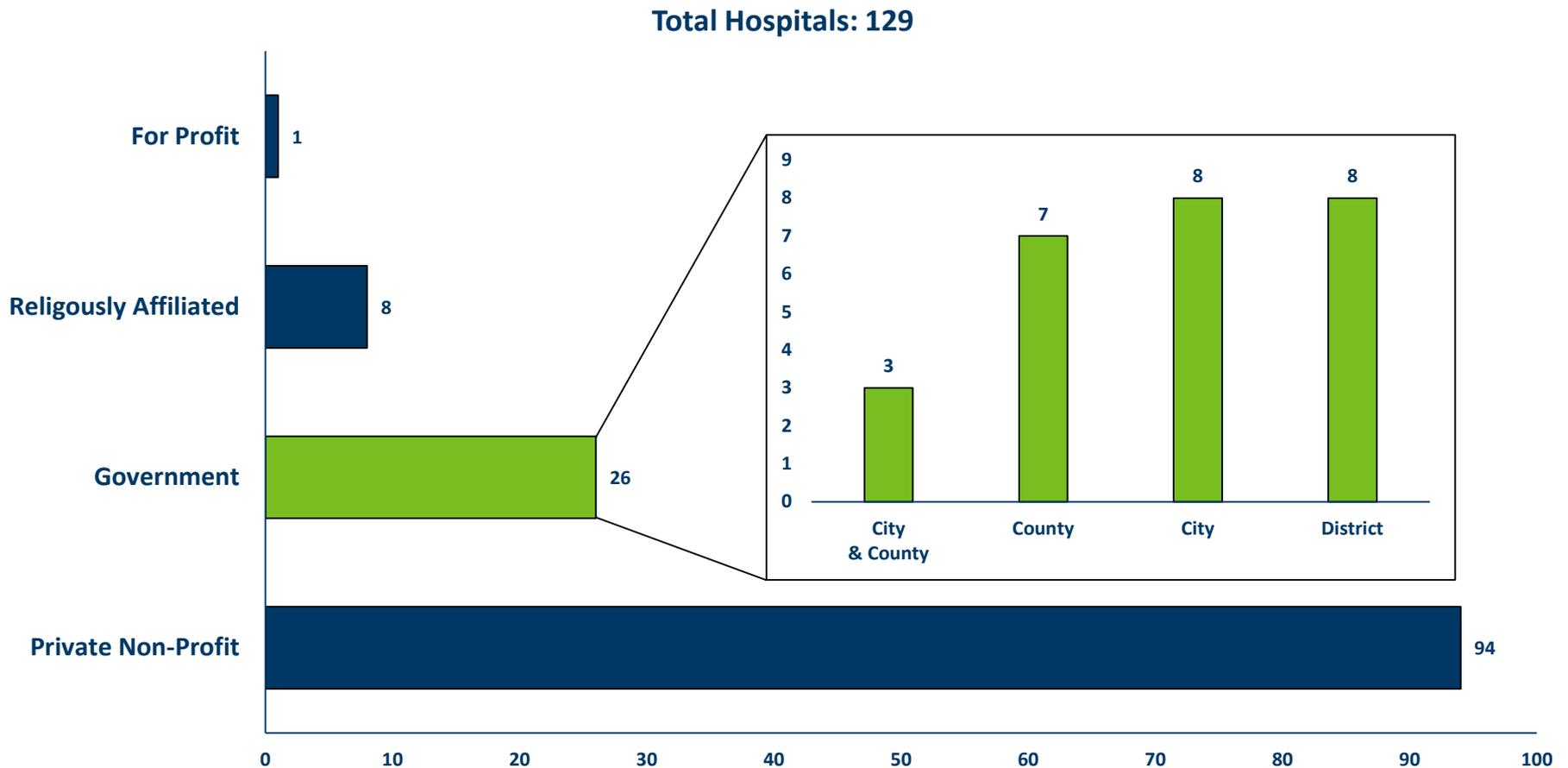
# Trends in Minnesota Hospital Ambulance Diversions

| <b>Diversion Status</b>          | <b>2014</b>  | <b>2015</b>  | <b>2016</b>  | <b>2017</b>  | <b>2018</b>  | <b>2014 to 2018</b> |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|---------------------|
| Emergency Department (any)       | 301          | 516          | 812          | 930          | 978          | 677                 |
| Mental Health (any) <sup>1</sup> | 0            | 1            | 567          | 555          | 597          | 597                 |
| Trauma (any)                     | 117          | 159          | 188          | 226          | 209          | 92                  |
| Non-mental health closures (any) | 1,467        | 1,973        | 2,202        | 2,361        | 2,398        | 931                 |
| <b>All Closures</b>              | <b>1,467</b> | <b>1,974</b> | <b>2,769</b> | <b>2,916</b> | <b>2,995</b> | <b>1,528</b>        |

<sup>1</sup>Closures to Mental Health services were not reported in these data before 2015.

Source: MDH Health Economics Program analysis of MN Trac Data, August 2019. Ambulances may be diverted for multiple reasons. See the MDH MN Trac website for additional information on this data source here: <http://www.health.state.mn.us/oep/responsesystems/mntrac.html>

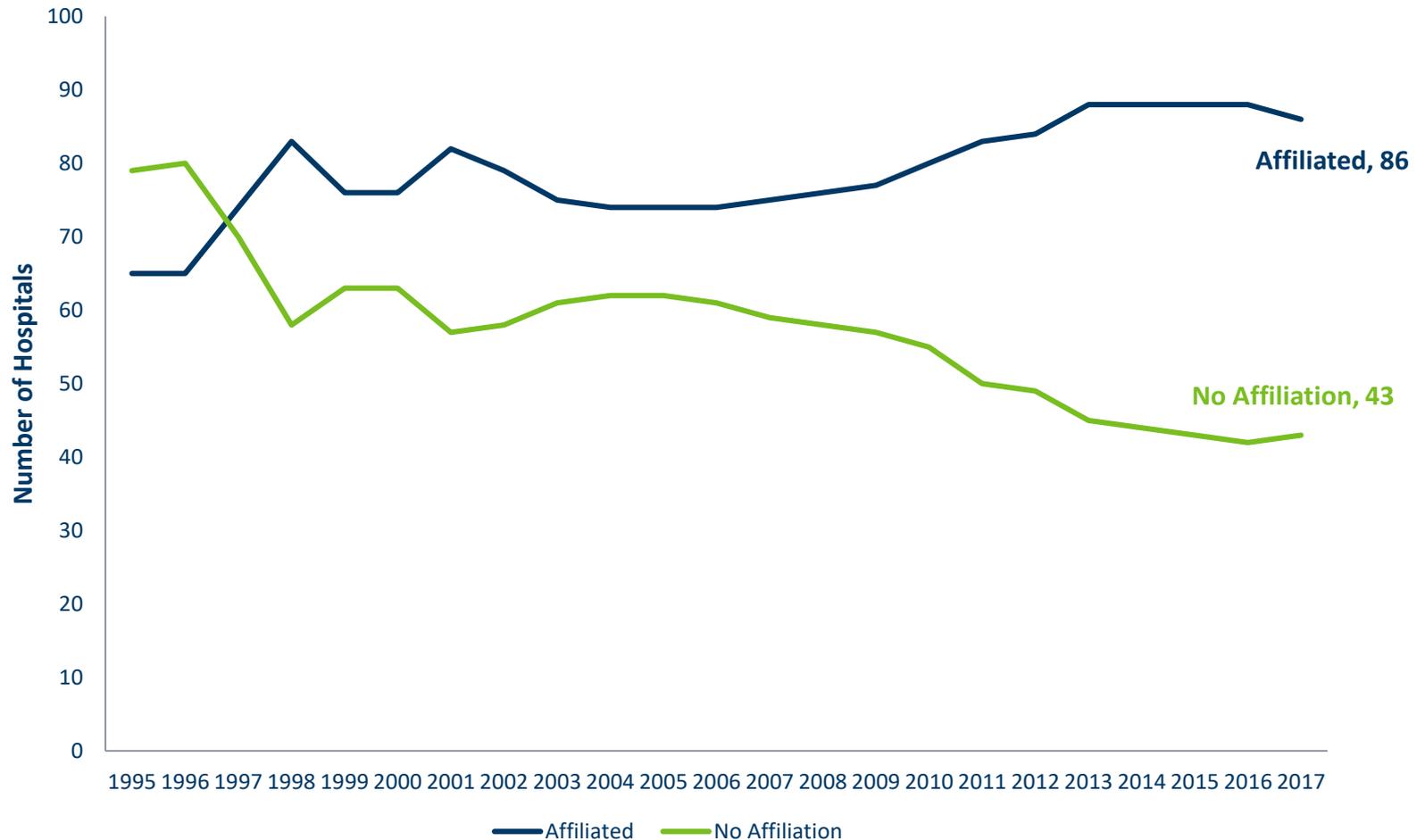
# Ownership of Minnesota Hospitals, 2017



Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of graph](#)

# Minnesota Hospitals Affiliated with a Health Care System



Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.  
[Summary of graph](#)

# Minnesota Hospital System, 2017

|                                       | Owned     | Managed  | Leased   | Total                 | Available Beds |
|---------------------------------------|-----------|----------|----------|-----------------------|----------------|
| Sanford Health                        | 7         | 5        | 3        | 15                    | 419            |
| Allina Health System                  | 11        | 0        | 0        | 11                    | 1,750          |
| Mayo Clinic                           | 11        | 0        | 0        | 11                    | 1,672          |
| Essentia Health                       | 10        | 0        | 1        | 11                    | 784            |
| Fairview Health Services              | 6         | 0        | 0        | 6                     | 1,399          |
| CentraCare Health System/CarrisHealth | 3         | 0        | 3        | 6                     | 601            |
| HealthEast Care System                | 4         | 0        | 0        | 4                     | 623            |
| Catholic Health Initiatives           | 4         | 0        | 0        | 4                     | 90             |
| Avera Health                          | 2         | 1        | 0        | 3                     | 80             |
| Park Nicollet Health Services         | 2         | 1        | 0        | 3                     | 470            |
| HealthPartners, Inc.                  | 2         | 0        | 0        | 2                     | 518            |
| North Memorial Health Care            | 2         | 0        | 0        | 2                     | 434            |
| St. Luke's Hospital, Duluth           | 1         | 1        | 0        | 2                     | 283            |
| Ridgeview Medical Center              | 2         | 0        | 0        | 2                     | 26             |
| Other <sup>1</sup>                    | 4         | 1        | 0        | 5                     | 416            |
| <b>Total</b>                          | <b>71</b> | <b>9</b> | <b>7</b> | <b>86<sup>2</sup></b> | <b>9,565</b>   |
| <b>Unaffiliated Hospitals</b>         |           |          |          | <b>43</b>             | <b>1,801</b>   |

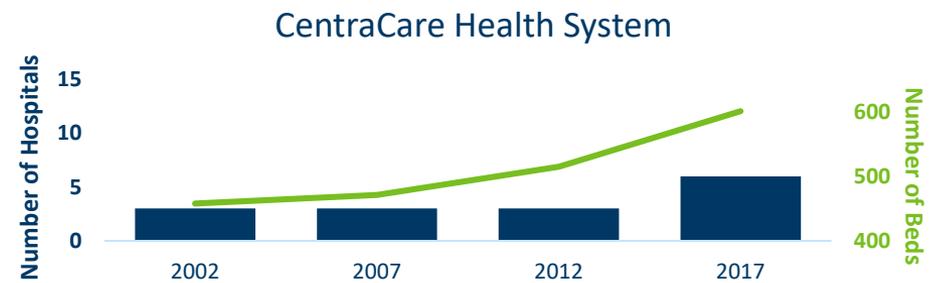
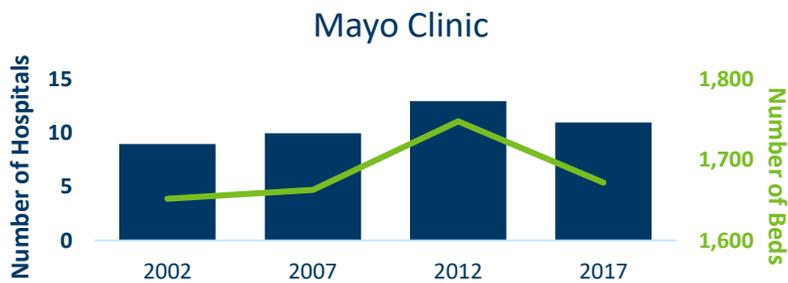
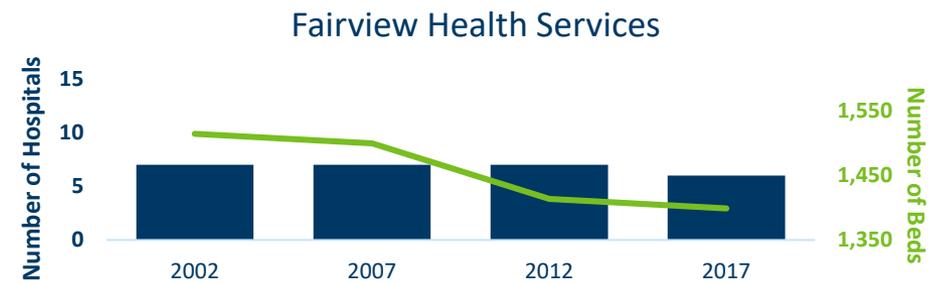
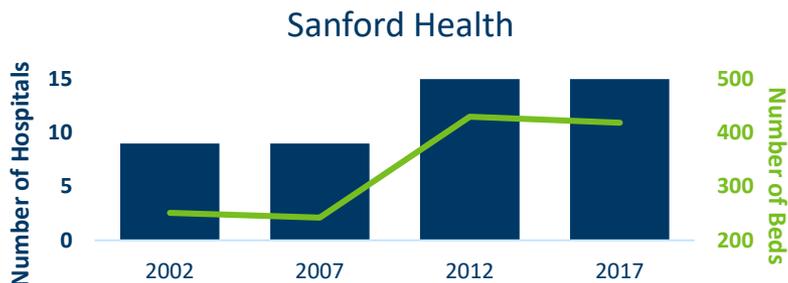
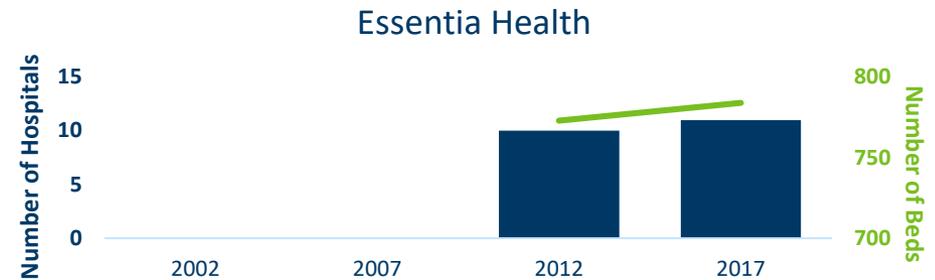
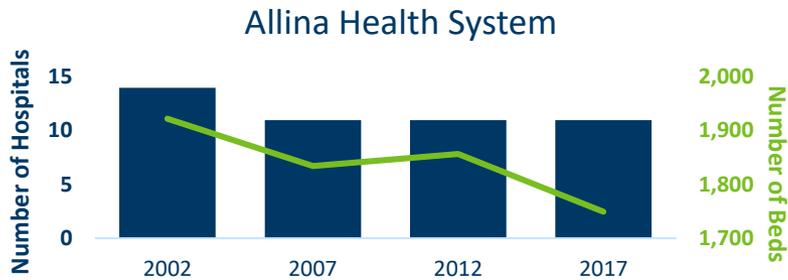
<sup>1</sup>Systems with only one hospital each, including: Lake Region Healthcare - Fergus Falls, Children's Hospitals and Clinics, Ministry Health Care, Rice Memorial Hospital, and Select Medical Corporation.

<sup>2</sup>Hospitals with multiple affiliations are counted under each affiliation and available beds are divided across systems equally.

Health care systems are ordered by total number of hospitals in descending order.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Available Minnesota Hospital Beds by Health System Affiliation, Select Years



Only includes systems with five or more hospitals in 2017.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of graph](#)

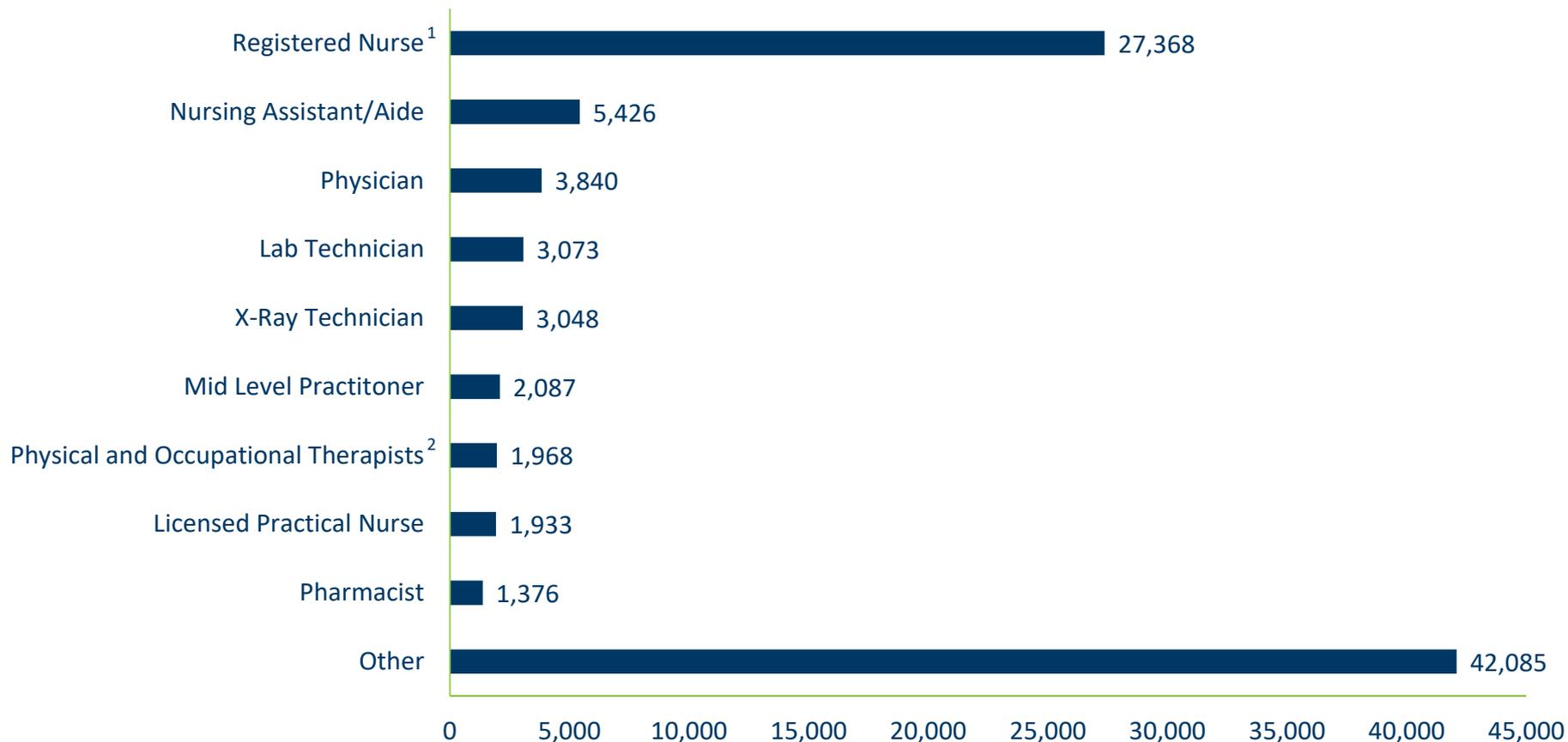
# Minnesota Hospital Offsite Clinics, Select Years

|  | 2012 | 2017 | Change,<br>2012 to 2017 |
|--|------|------|-------------------------|
| All Clinics                                    | 587  | 741  | 26%                     |
| Clinics that Billed as a Hospital <sup>1</sup> | 360  | 523  | 45%                     |
| All Other Clinics (Not Billed as a Hospital)   | 227  | 218  | -4%                     |

<sup>1</sup> Locations identified as "Billed as a Hospital" are considered hospital outpatient clinics, as they are billed under the hospital's Medicare and Medicaid provider number; revenue from these clinics is included in hospital revenue.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019

# Composition of Minnesota's Hospital Workforce, 2017



<sup>1</sup> Other is reported as grouped category of positions, and includes both patient care and non-patient care employees.

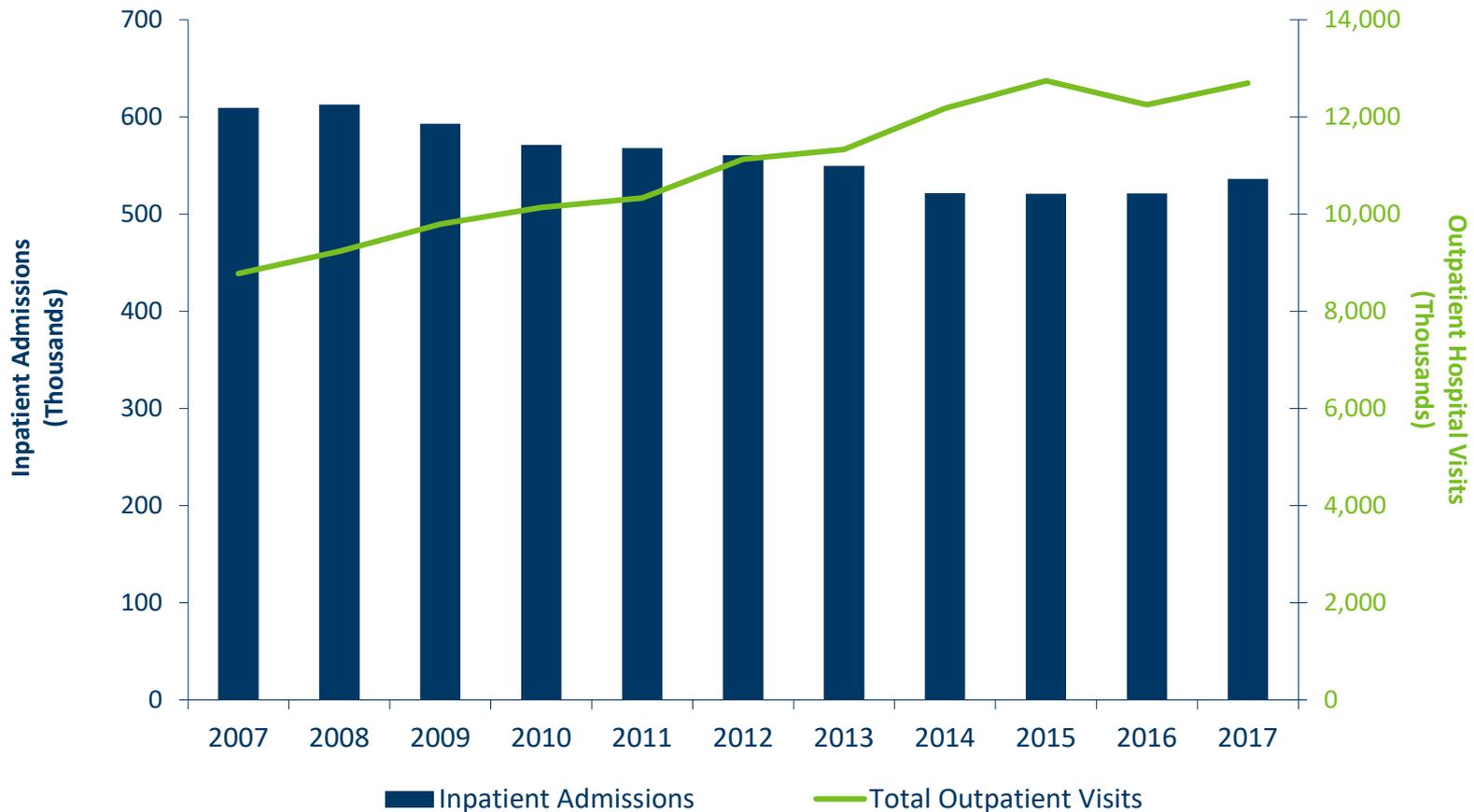
<sup>2</sup> Includes nurse anesthetists, nurse practitioners, and physician assistants.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of graph](#)

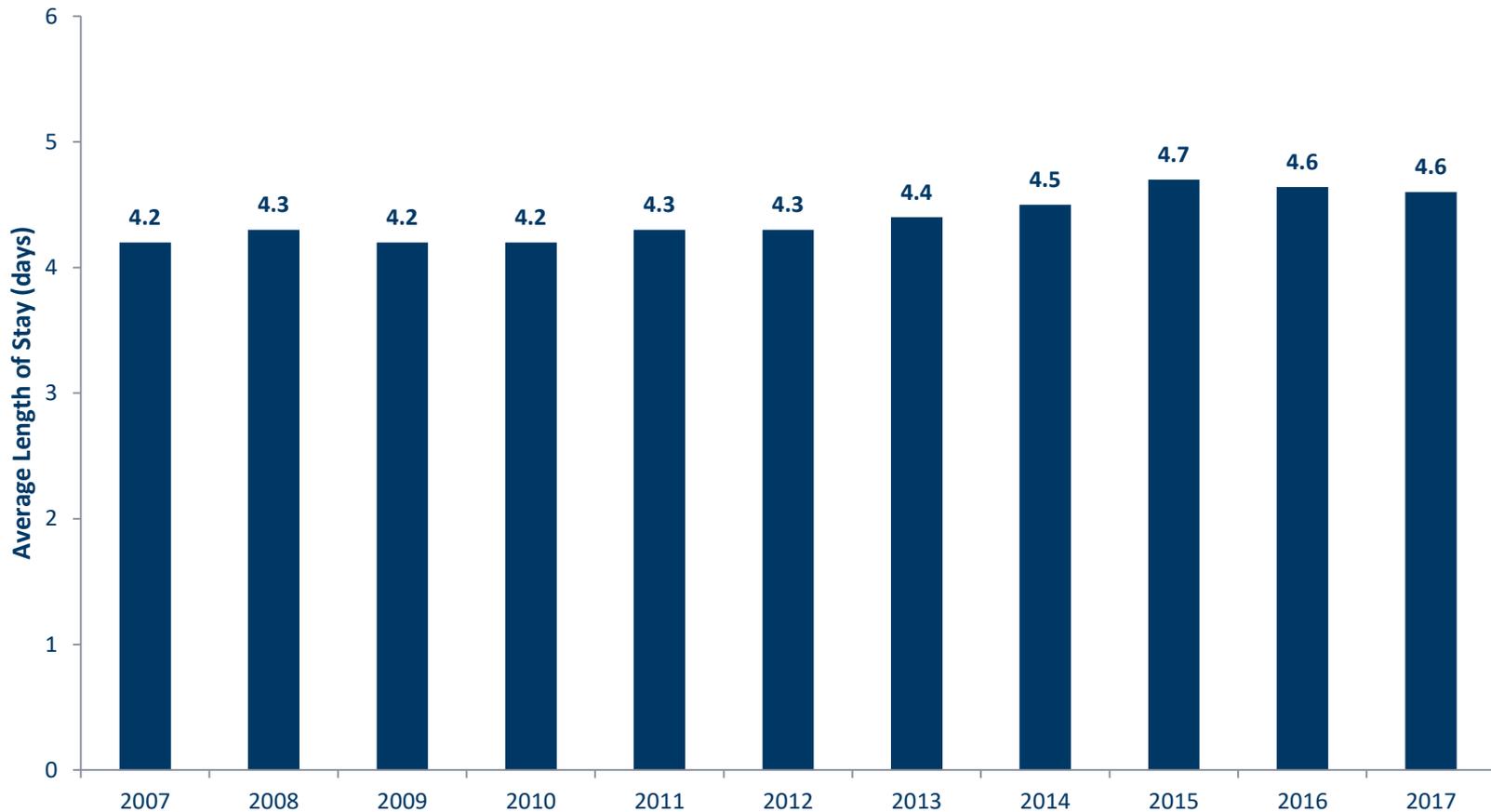
# Utilization of Hospital Services

# Minnesota Hospital Outpatient Visits and Inpatient Admissions



Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.  
[Summary of graph](#)

# Average Length of Stay in Minnesota Hospitals



Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of graph](#)

# Average Length of Stay: Rural and Urban Minnesota Hospitals



Hospital rural/urban classification is based on hospital location in relation to [Rural-Urban Commuting Areas](#). Isolated rural, small rural town, and large rural city are combined under the “Rural” category.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

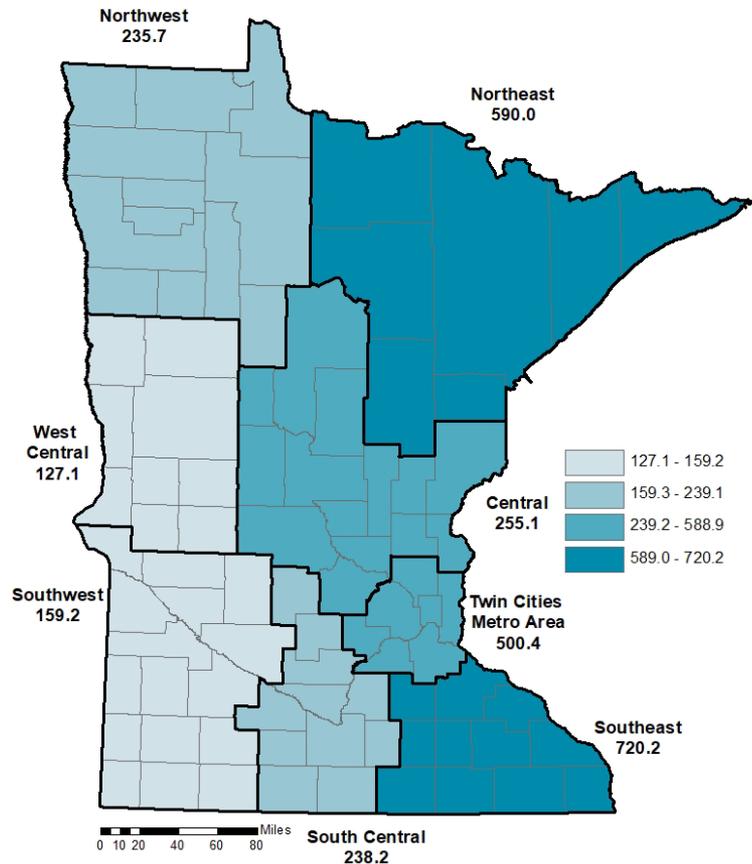
[Summary of graph](#)

# Minnesota Hospital Utilization by Region, 2017

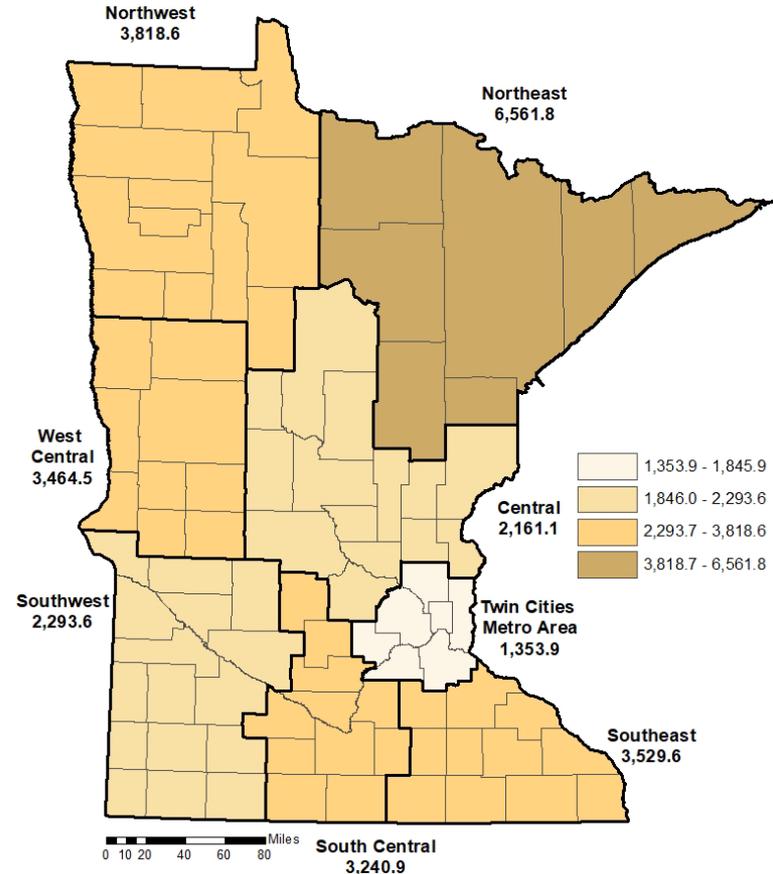
|                  | Inpatient Admissions | Inpatient Days   | Average Length of Stay (days) | Outpatient Visits |
|------------------|----------------------|------------------|-------------------------------|-------------------|
| Central          | 51,395               | 193,296          | 3.8                           | 1,655,044         |
| Metro            | 330,887              | 1,535,994        | 4.6                           | 4,195,789         |
| Northeast        | 41,143               | 191,574          | 4.7                           | 2,133,181         |
| Northwest        | 12,741               | 40,317           | 3.2                           | 785,123           |
| South Central    | 19,308               | 69,389           | 3.6                           | 947,994           |
| Southeast        | 60,490               | 364,984          | 6.0                           | 1,797,944         |
| Southwest        | 11,570               | 34,560           | 3.0                           | 496,737           |
| West Central     | 8,841                | 29,217           | 3.3                           | 683,071           |
| <b>Statewide</b> | <b>536,375</b>       | <b>2,459,331</b> | <b>4.6</b>                    | <b>12,694,883</b> |

# Total Inpatient Days and Outpatient Visits in SCHSAC Regions, 2017

Total Inpatient Hospital Days in SCHSAC Regions per 1,000 Population, 2017



Total Outpatient Hospital Visits in SCHSAC Regions per 1,000 Population, 2017



Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of image](#)

# Distribution of Hospital Admissions and Inpatient Days by Type of Service, 2017

|                                  | Percent of Admissions <sup>1</sup> | Percent of Inpatient Days <sup>1</sup> |
|----------------------------------|------------------------------------|--|
| Medical & surgical care          | 36.5%                              | 36.6%                                  |
| Chemical dependency care         | 13.4%                              | 9.6%                                   |
| Neonatal care (excluding births) | 13.1%                              | 7.1%                                   |
| Cardiac care                     | 12.0%                              | 11.1%                                  |
| Other acute care                 | 8.9%                               | 9.0%                                   |
| Psychiatric care                 | 6.7%                               | 7.6%                                   |
| Neurology care                   | 6.3%                               | 6.8%                                   |
| Orthopedic care                  | 6.2%                               | 12.0%                                  |
| Obstetric care                   | 1.9%                               | 2.3%                                   |
| Rehabilitation                   | 0.1%                               | 0.2%                                   |
| <b>Total acute care</b>          | <b>100%</b>                        | <b>100%</b>                            |

<sup>1</sup>Total Acute Care Admissions and Inpatient Days do not include inpatient transfers to different services during a hospital stay. Services are ordered by percent of admissions in descending order.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Distribution of Rural & Urban Hospital Admissions and Inpatient Days by Type of Service, 2017

|                                  | Rural                              |  | Urban                              |  |
|----------------------------------|------------------------------------|--|------------------------------------|--|
|                                  | Percent of Admissions <sup>1</sup> | Percent of Inpatient Days <sup>1</sup> | Percent of Admissions <sup>1</sup> | Percent of Inpatient Days <sup>1</sup> |
| Medical & surgical care          | 42.8%                              | 44.2%                                  | 35.3%                              | 35.7%                                  |
| Obstetric care                   | 16.6%                              | 11.0%                                  | 12.5%                              | 6.6%                                   |
| Orthopedic care                  | 13.8%                              | 13.7%                                  | 13.3%                              | 9.1%                                   |
| Cardiac care                     | 9.2%                               | 8.4%                                   | 12.4%                              | 11.4%                                  |
| Other acute care                 | 7.2%                               | 7.1%                                   | 9.2%                               | 9.2%                                   |
| Psychiatric care                 | 6.3%                               | 15.1%                                  | 6.2%                               | 11.6%                                  |
| Neonatal care (excluding births) | 5.6%                               | 4.3%                                   | 6.5%                               | 7.1%                                   |
| Neurology care                   | 3.0%                               | 4.7%                                   | 7.3%                               | 7.9%                                   |
| Chemical dependency care         | 1.3%                               | 2.1%                                   | 2.0%                               | 2.3%                                   |
| Rehabilitation                   | 0.0%                               | 0.1%                                   | 0.1%                               | 0.2%                                   |

<sup>1</sup>Column will total to more than 100% due to some inpatient stays in more than one service line.

Services are ordered by rural percent of admissions in descending order.

Hospital rural/urban classification is based on hospital location in relation to [Rural-Urban Commuting Areas](#). Isolated rural, small rural town, and large rural city are combined under the “Rural” category.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Trend in Outpatient Service Utilization at Minnesota Hospitals

| Year | Outpatient Surgeries (Thousands) | Outpatient Surgeries per 1,000 in Population | ED visits (Thousands) | ED visits per 1,000 in Population |
|------|----------------------------------|--|-----------------------|-----------------------------------|
| 2007 | 340                              | 65   | 1,647                 | 316                               |
| 2008 | 410                              | 78   | 1,663                 | 317                               |
| 2009 | 403                              | 77   | 1,703                 | 325                               |
| 2010 | 419                              | 79   | 1,693                 | 319                               |
| 2011 | 415                              | 78   | 1,748                 | 327                               |
| 2012 | 422                              | 78   | 1,816                 | 338                               |
| 2013 | 429                              | 79   | 1,833                 | 338                               |
| 2014 | 430                              | 79   | 1,823                 | 334                               |
| 2015 | 448                              | 82   | 1,919                 | 350                               |
| 2016 | 438                              | 79   | 1,918                 | 347                               |
| 2017 | 453                              | 81   | 1,918                 | 344                               |

Source: U.S. Census, MDH Health Economics Program analysis of hospital annual reports, July 2019.  
[Summary of graph](#)

# Hospital Financial Trends

# Net Assets of Minnesota Hospitals



Net assets is an accounting term defining the total assets minus the total liabilities, and describes the hospital's financial position.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of graph](#)

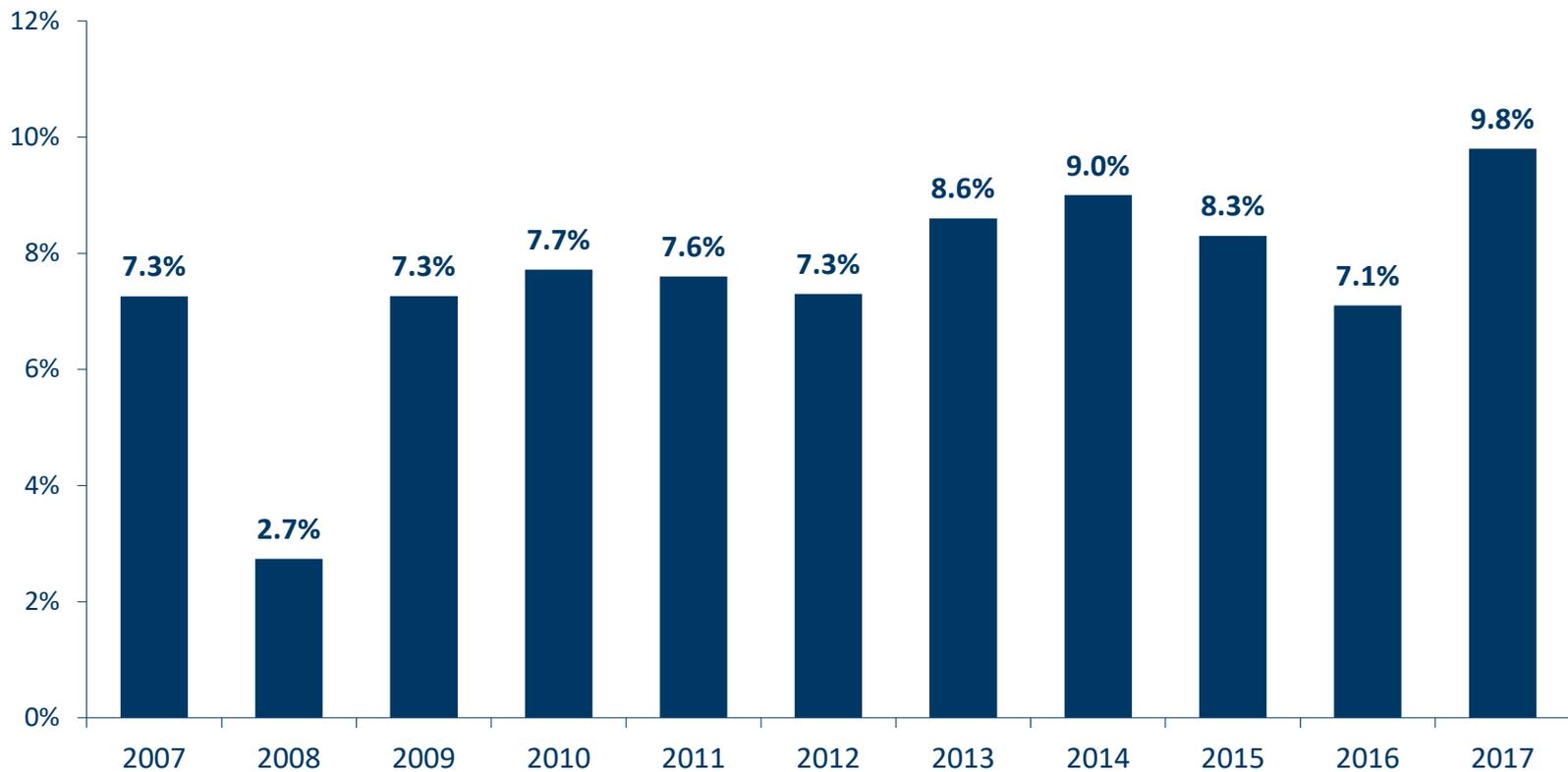
# Net Income of Minnesota Hospitals



Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of graph](#)

# Minnesota Hospitals' Net Income as a Percent of Revenue



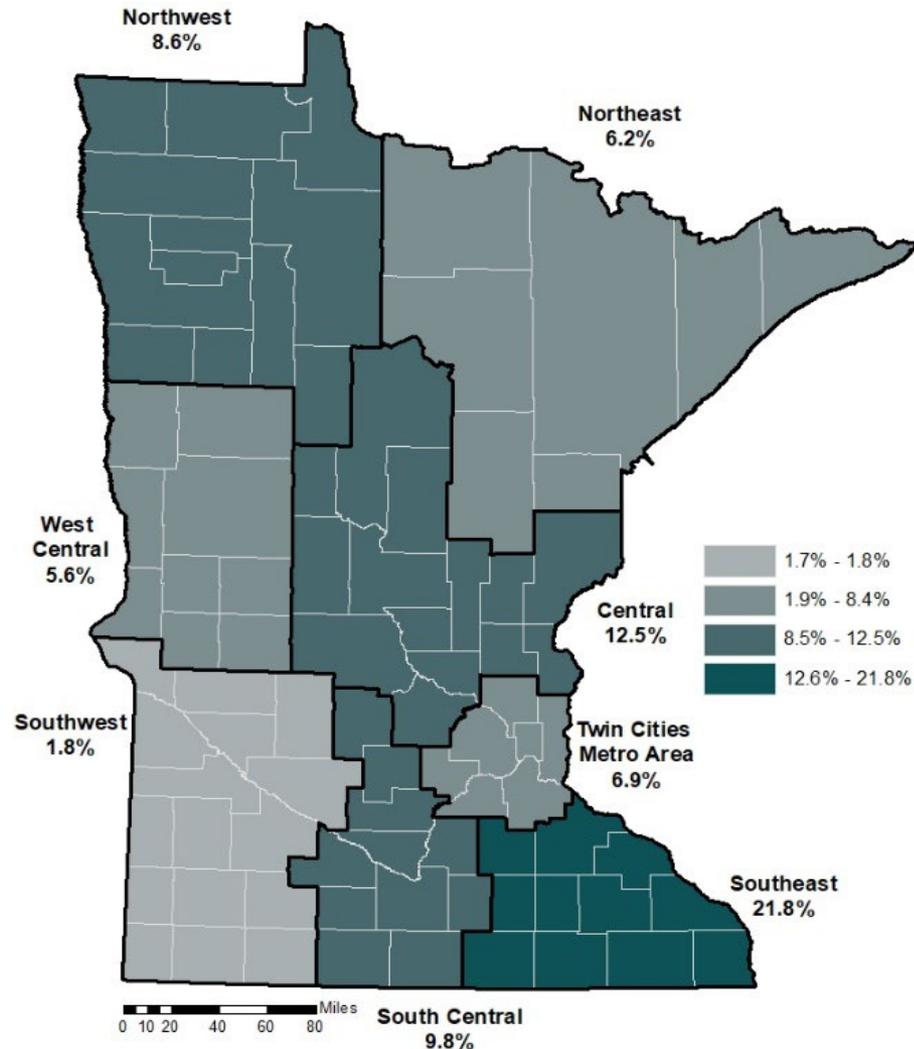
Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of graph](#)

# Minnesota Hospital Financial Indicators by Region, 2017

|                  | Net Income<br>(\$ Millions) | Net Income as a<br>percent of Revenue |
|------------------|-----------------------------|---------------------------------------|
| Central          | \$249.2                     | 12.5%                                 |
| Metro            | \$723.3                     | 6.9%                                  |
| Northeast        | \$115.0                     | 6.2%                                  |
| Northwest        | \$52.5                      | 8.6%                                  |
| South Central    | \$77.8                      | 9.8%                                  |
| Southeast        | \$700.2                     | 21.8%                                 |
| Southwest        | \$8.6                       | 1.8%                                  |
| West Central     | \$25.0                      | 5.6%                                  |
| <b>Statewide</b> | <b>\$1,951.6</b>            | <b>9.8%</b>                           |

# Minnesota Hospital Net Income as a Percent of Revenue by Region, 2017



Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

[Summary of image](#)

# Minnesota Hospital Financial Indicators by Hospital Size and Type, 2017

| Number of Available Beds            | Net Income<br>(\$ Millions) | Net Income as a<br>percent of Revenue |
|-------------------------------------|-----------------------------|---------------------------------------|
| Under 25 Beds                       | \$40.7                      | 4.6%                                  |
| 25 to 49 Beds                       | \$166.6                     | 7.1%                                  |
| 50 to 99 Beds                       | \$152.1                     | 6.8%                                  |
| 100 to 199 Beds                     | \$161.7                     | 8.7%                                  |
| 200 Beds or More                    | \$1,430.5                   | 11.4%                                 |
| <b>Type of Hospital<sup>1</sup></b> |                             |                                       |
| Critical Access Hospital (CAH)      | \$166.1                     | 7.6%                                  |
| PPS                                 | \$1,780.4                   | 10.1%                                 |
| Other                               | \$5.1                       | 4.3%                                  |
| <b>All Hospitals</b>                | <b>\$1,951.6</b>            | <b>9.8%</b>                           |

<sup>1</sup>A critical access hospital is a federal designation for a rural hospital that meets certain criteria and PPS hospitals are Medicare Prospective Payment System hospitals.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Sources of Patient Revenue for Minnesota Hospitals, 2016-2017

|   | Rural Facilities |             | Urban Facilities |             | Facilities Statewide |             |
|---|------------------|-------------|------------------|-------------|----------------------|-------------|
|   | 2016             | 2017        | 2016             | 2017        | 2016                 | 2017        |
| <b>Medicare</b>                             | 39.1%            | 39.9%       | 29.2%            | 30.0%       | 31.3%                | 32.1%       |
| <b>State Public Programs<sup>1</sup></b>    | 12.2%            | 12.0%       | 13.9%            | 14.2%       | 13.6%                | 13.8%       |
| <b>Private Insurance</b>                    | 43.7%            | 43.2%       | 52.9%            | 52.2%       | 51.0%                | 50.3%       |
| <b>Self-Pay</b>                             | 3.3%             | 3.4%        | 2.6%             | 2.3%        | 2.7%                 | 2.6%        |
| <b>Other Payers</b>                         | 1.7%             | 1.4%        | 1.3%             | 1.3%        | 1.4%                 | 1.3%        |
| <b>Hospital Patient Revenue, All Payers</b> | <b>100%</b>      | <b>100%</b> | <b>100%</b>      | <b>100%</b> | <b>100%</b>          | <b>100%</b> |

<sup>1</sup>Includes Medical Assistance and MinnesotaCare.

Percent shown is a percent of Hospital Patient revenue.

Hospital rural/urban classification is based on hospital location in relation to [Rural-Urban Commuting Areas](#). Isolated rural, small rural town, and large rural city are combined under the “Rural” category.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Capital Expenditure Commitments by Minnesota Hospitals, 2017

|   | 2016    | 2017    |
|---|---------|---------|
| Total number of capital expenditure commitments reported                      | 69      | 73      |
| Percent of Minnesota hospitals reporting major capital expenditure commitment | 20.6%   | 30.2%   |
| Value of major capital expenditure commitments reported (Millions)            | \$362.6 | \$664.0 |

Major spending commitments that are reportable under 62J.17 include expenditures in excess of \$ 1 million.

A small portion of capital expenditure data may belong to earlier reporting periods.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Minnesota Hospital Capital Expenditure Commitments by Type, 2017

|  | Capital Expenditure Commitments (\$ Millions) | Percent of Total Capital Expenditure Commitments |
|--|---|--|
| Medical equipment                                | \$73.9  | 11.1%  |
| Building and space                               | \$522.5                                       | 78.7%  |
| Other  | \$67.7  | 10.2%  |
| <b>All Major Capital Expenditure Commitments</b> | <b>\$664.0</b>                                | <b>100%</b>                                      |

# Minnesota Hospital Capital Expenditure Commitment by Category, 2017

|                                     | Capital Expenditure Commitments (\$ Millions) | Percent of Total Capital Expenditure Commitments |
|-------------------------------------|---|--|
| <b>Other Patient Care Services</b>  | \$324.5                                       | 48.9%  |
| <b>Surgery</b>                      | \$114.4                                       | 17.2%  |
| <b>General Infrastructure</b>       | \$103.9                                       | 15.6%  |
| <b>Emergency Care</b>               | \$27.0  | 4.1%   |
| <b>Diagnostic Imaging</b>           | \$17.1  | 2.6%   |
| <b>Rehabilitation</b>               | \$16.8  | 2.5%   |
| <b>Intensive Care (ICU or NICU)</b> | \$7.4   | 1.1%   |
| <b>Cardiac Care</b>                 | \$5.9   | 0.9%   |
| <b>Mental Health</b>                | \$4.9   | 0.7%   |
| <b>Radiation Therapy</b>            | \$3.5   | 0.5%   |
| <b>All Major Capital Projects</b>   | <b>\$664.0</b>                                | <b>100%</b>                                      |

Major spending commitments that are reportable under 62J.17 include expenditures in excess of \$ 1 million.

Categories are ordered by commitment amount (\$) in descending order.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Community Benefit Provided by Minnesota Hospitals, 2017

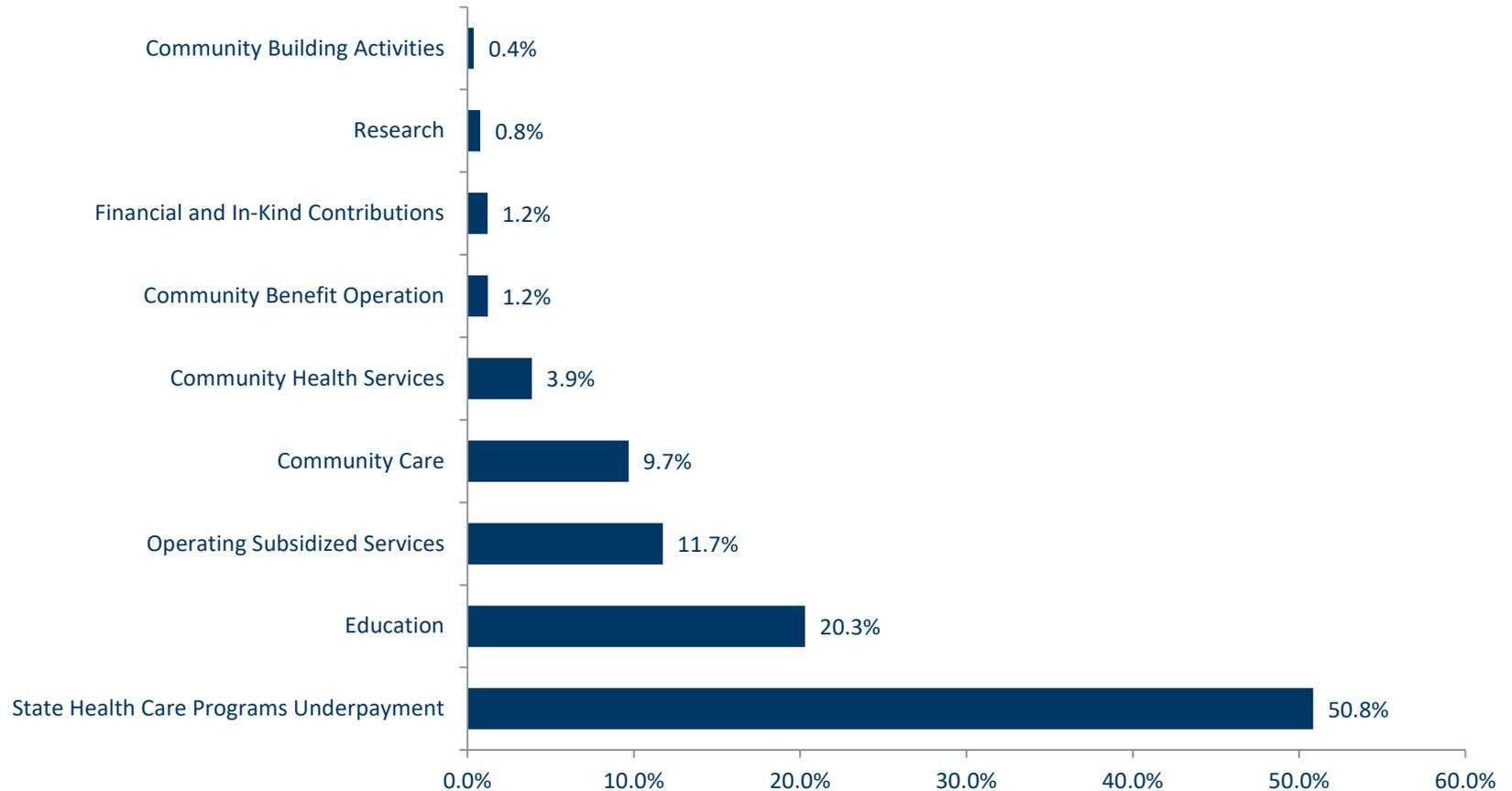
|   | Community Benefit <sup>1</sup><br>(\$ Millions) | Percent of Total Operating<br>Expenses |
|---|---|--|
| <b>Direct Patient Care or Unreimbursed Services</b> | <b>\$922.0</b>                                  | <b>5.1%</b>                            |
| State Health Care Programs Underpayment             | \$615.7   | 3.4%                                   |
| Operating Subsidized Services                       | \$142.1   | 0.8%                                   |
| Community Care                                      | \$117.2   | 0.7%                                   |
| Community Health Services                           | \$46.9  | 0.3%                                   |
| <b>Research &amp; Education</b>                     | <b>\$255.1</b>                                  | <b>1.4%</b>                            |
| Education   | \$245.7   | 1.4%                                   |
| Research  | \$9.4   | 0.1%                                   |
| <b>Financial and In-Kind Contributions</b>          | <b>\$14.6</b>                                   | <b>0.1%</b>                            |
| <b>Community Activities</b>                         | <b>\$19.3</b>                                   | <b>0.1%</b>                            |
| Community Benefit Operation                         | \$14.7  | 0.1%                                   |
| Community Building Activities                       | \$4.6   | 0.0%                                   |
| <b>Total</b>  | <b>\$1,211.0</b>                                | <b>6.8%</b>                            |

<sup>1</sup>Community benefit refers to the contributions hospitals make outside of reimbursed patient care to the communities, for the or definitions of categories see: MDH/Health Economics Program, "Hospital Community Benefit Spending in Minnesota, 2013 to 2015" August, 2018, available at <http://www.health.state.mn.us/divs/hpsc/hep/publications/legislative/commben2013to2015.pdf>.

Types of community benefit are grouped and ordered by benefit amount (\$) in descending order.

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Distribution of Minnesota Hospitals' Community Benefit, 2017



Community benefit refers to the contributions hospitals make outside of reimbursed patient care to the communities, for the or definitions of categories see: MDH/Health Economics Program, "Hospital Community Benefit Spending in Minnesota, 2013 to 2015" August, 2018, available at <http://www.health.state.mn.us/divs/hpsc/hep/publications/legislative/commben2013to2015.pdf>.

[Summary of graph](#)

Source: MDH Health Economics Program analysis of hospital annual reports, July 2019.

# Availability of Physician Clinic Services

# Number of Physicians Practicing in Minnesota, 2018

|  |        |
|--|--------|
| <b>Number of Physicians:</b>                   | 17,485 |
| Primary Care Physicians                        | 5,449  |
| Specialty Care Physicians                      | 10,431 |
| No Certification                               | 1,605  |
| <b>Physicians for Every 100,000 Residents:</b> | 318.4  |
| Primary Care Physicians                        | 99.2   |
| Specialty Care Physicians                      | 190.0  |
| No Certification                               | 29.2   |

Includes all physicians who have an active Minnesota license and a primary business address in Minnesota. "Primary Care" includes: General Family Medicine, General Internal Medicine, General Pediatrics. "No Certification" means there were no board certifications on the record received from the Minnesota Board of Medical Practice.

Note: Due to methodology changes, past Chartbook data should not be used for comparison.

Source: Minnesota Board of Medical Practices, January 2018, population estimates US. Census Bureau American Community Survey 2017 estimates by RUCA. Analysis by MDH, Office of Rural Health & Primary Care and Health Economics Program.

# Number of Physicians Practicing in Minnesota by RUCA, 2018

|  | RUCA Classification <sup>1</sup> |                  |                  |        | Statewide |
|--|----------------------------------|------------------|------------------|--------|-----------|
|  | Isolated Rural                   | Small Rural Town | Large Rural City | Urban  |           |
| <b>Number of Physicians<sup>2</sup></b>        | 227                              | 621              | 1,281            | 15,356 | 17,485    |
| Primary Care Physicians                        | 181                              | 391              | 584              | 4,293  | 5,449     |
| Specialty Care Physicians                      | 36                               | 200              | 629              | 9,566  | 10,431    |
| <b>Physicians for Every 100,000 Residents:</b> | 52.6                             | 160.3            | 210.4            | 378.0  | 318.4     |
| Primary Care Physicians                        | 41.9                             | 100.9            | 95.9             | 105.7  | 99.2      |
| Specialty Care Physicians                      | 8.3                              | 51.6             | 103.3            | 235.5  | 190.0     |

<sup>1</sup>RUCA refers to Rural-Urban Commuting Area, see [Minnesota Health Workforce Analysis Survey Methodology \(https://www.health.state.mn.us/data/workforce/method.html#ruca\)](https://www.health.state.mn.us/data/workforce/method.html#ruca) for more information.

<sup>2</sup>Includes all physicians who have an active Minnesota license and a primary business address in Minnesota. “Primary Care” includes: General Family Medicine, General Internal Medicine, General Pediatrics. “No Certification” means there were no board certifications on the record received from the Minnesota Board of Medical Practice.

Note: Due to methodology changes, past Chartbook data should not be used for comparison. Previous data used physicians’ mailing address and methodology was changed to use physicians’ business practice address.

Source: Minnesota Board of Medical Practices, January 2018, population estimates US. Census Bureau American Community Survey 2017 estimates by RUCA. Analysis by MDH, Office of Rural Health & Primary Care and Health Economics Program.

# Distribution of Number of Physicians Practicing in Minnesota by Location and Specialty, 2018

|                                    | RUCA Classification <sup>1</sup> |                  |                  |             | Statewide   |
|------------------------------------|----------------------------------|------------------|------------------|-------------|-------------|
|                                    | Isolated Rural                   | Small Rural Town | Large Rural City | Urban       |             |
| <b>Primary Care Physicians</b>     | 81%                              | 68%              | 53%              | 35%         | 35%         |
| <b>General Facility Based</b>      | 1%                               | 6%               | 11%              | 11%         | 12%         |
| <b>Surgeons</b>                    | 4%                               | 11%              | 12%              | 8%          | 9%          |
| <b>Other Specialty Physicians</b>  | 9%                               | 10%              | 19%              | 36%         | 34%         |
| <b>No Certification</b>            | 4%                               | 5%               | 5%               | 10%         | 10%         |
| <b>All Specialties<sup>2</sup></b> | <b>100%</b>                      | <b>100%</b>      | <b>100%</b>      | <b>100%</b> | <b>100%</b> |

<sup>1</sup>RUCA refers to Rural-Urban Commuting Area, see [Minnesota Health Workforce Analysis Survey Methodology \(https://www.health.state.mn.us/data/workforce/method.html#ruca\)](https://www.health.state.mn.us/data/workforce/method.html#ruca) for more information.

<sup>2</sup>All specialties Includes all physicians who have an active Minnesota license and a primary business address in Minnesota. “Primary Care” includes: General Family Medicine, General Internal Medicine, General Pediatrics. “No Certification” means there were no board certifications on the record received from the Minnesota Board of Medical Practice.

Note: Due to methodology changes, past Chartbook data should not be used for comparison. Previous data used physicians’ mailing address and methodology was changed to use physicians’ business practice address.

Source: Minnesota Board of Medical Practices, January 2018, population estimates US. Census Bureau American Community Survey 2017 estimates by RUCA. Analysis by MDH, Office of Rural Health & Primary Care and Health Economics Program.

# Number of Primary Care and Specialty Care Clinics by Region in Minnesota, 2018

|                  | Primary Care <sup>1</sup><br>Clinics <sup>2</sup> | Primary Care<br>Clinics per<br>100,000 | Specialty<br>Care <sup>3</sup><br>Clinics | Specialty Care<br>Clinics per<br>100,000 |
|------------------|---|--|---|--|
| Central          | 108   | 15.9                                   | 150                                       | 22.1                                     |
| Metro            | 319   | 10.6                                   | 774                                       | 25.6                                     |
| Northeast        | 55  | 20.3                                   | 84  | 31.1                                     |
| Northwest        | 38  | 17.3                                   | 27  | 12.3                                     |
| South Central    | 51  | 11.0                                   | 48  | 10.4                                     |
| Southeast        | 52  | 10.3                                   | 35  | 6.9                                      |
| Southwest        | 57  | 26.3                                   | 41  | 18.9                                     |
| West Central     | 33  | 16.9                                   | 24  | 12.3                                     |
| <b>Statewide</b> | <b>713</b>  | <b>12.8</b>                            | <b>1,183</b>                              | <b>21.2</b>                              |

<sup>1</sup> Primary Care includes general family medicine, general internal medicine, and general pediatrics.

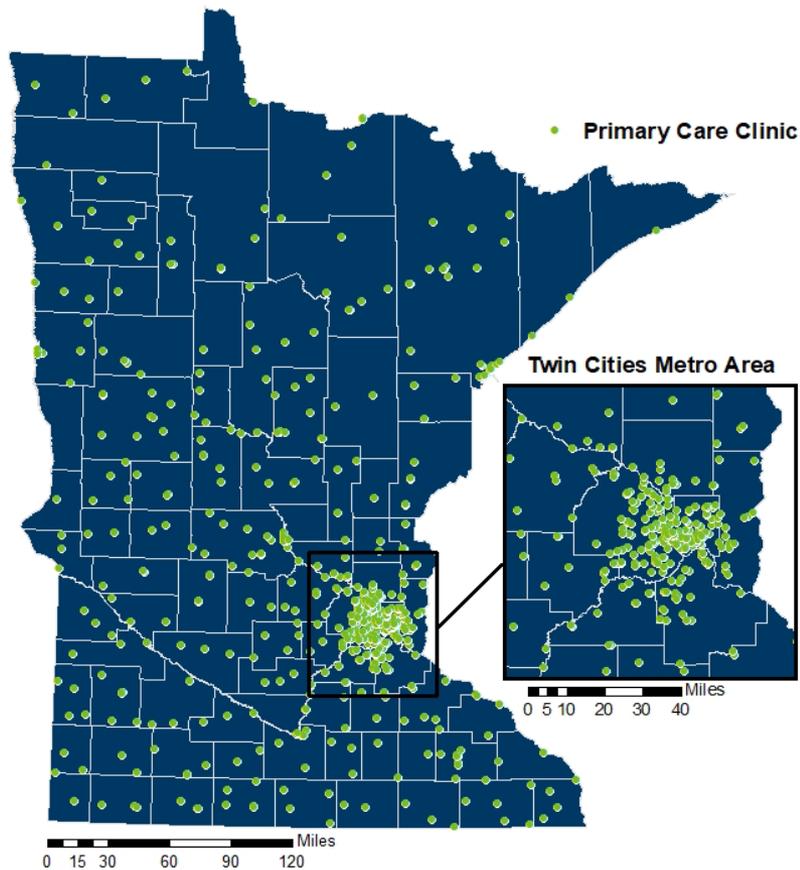
<sup>2</sup> This represents the number of clinics and does not account for patient population or number of practicing physicians.

<sup>3</sup> Specialty Care includes one or more non-primary care specialty.

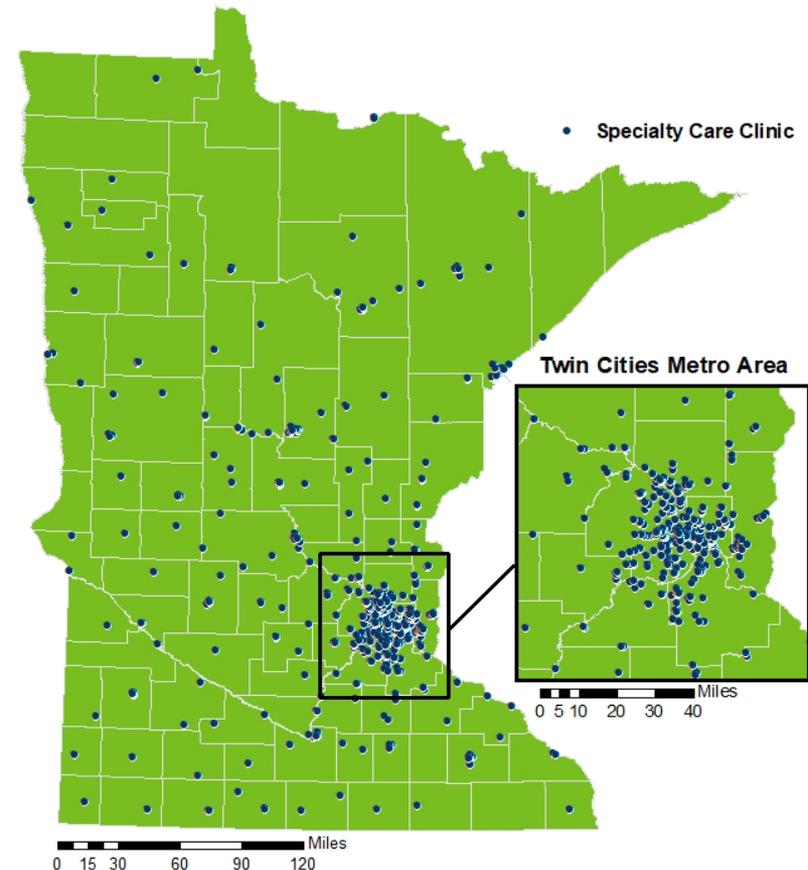
Source: MDH Health Economics Program analysis of the Physician Clinic Registry collected under Minnesota Statutes, Section 62U.02.

# Location of Minnesota Primary Care and Specialty Care Clinics, 2018

## Primary Care Clinics, 2018



## Specialty Care Clinics, 2018



Notes: Dots represent the number of clinics, and does not account for patient population or number of practicing physicians. Primary Care includes general family medicine, general internal medicine, and general pediatrics; Specialty Care includes one or more non-primary care specialty.

Source: MDH Health Economics Program analysis of the Physician Clinic Registry collected under Minnesota Statutes, Section 62U.02.

[Summary of image](#)

# Number of Minnesota Primary Care Clinics for Medical Groups with 10 or More Clinics, 2018

| Medical Group  | Number of Clinics |
|--|-------------------|
| Allina Health  | 58                |
| Essentia Health  | 45                |
| Mayo Clinic Health System                                  | 40                |
| Fairview Health Services                                   | 38                |
| Sanford Health - Fargo Region                              | 29                |
| Park Nicollet Health Services                              | 28                |
| HealthPartners Clinics                                     | 27                |
| CentraCare Health  | 26                |
| Hennepin County Medical Center (HCMC) Clinics              | 19                |
| North Memorial   | 19                |
| Children's - Minnesota                                     | 14                |
| HealthEast Clinics   | 14                |
| Olmsted Medical Center                                     | 14                |
| Sanford Health - Sioux Falls Region                        | 14                |
| Avera Medical Group  | 13                |
| University of Minnesota Physicians                         | 13                |
| Entira Family Clinics (formerly Family Health Services MN) | 12                |
| Integrity Health Network                                   | 12                |
| St. Luke's Clinics   | 11                |
| No Medical Group/All Other                                 | 267               |
| <b>Total Number of Primary Care Clinics</b>                | <b>713</b>        |

Primary Care includes general family medicine, general internal medicine, and general pediatrics.

Medical groups are ordered by number of clinics in descending order.

Source: MDH Health Economics Program analysis of the Physician Clinic Registry collected under Minnesota Statutes, Section 62U.02.

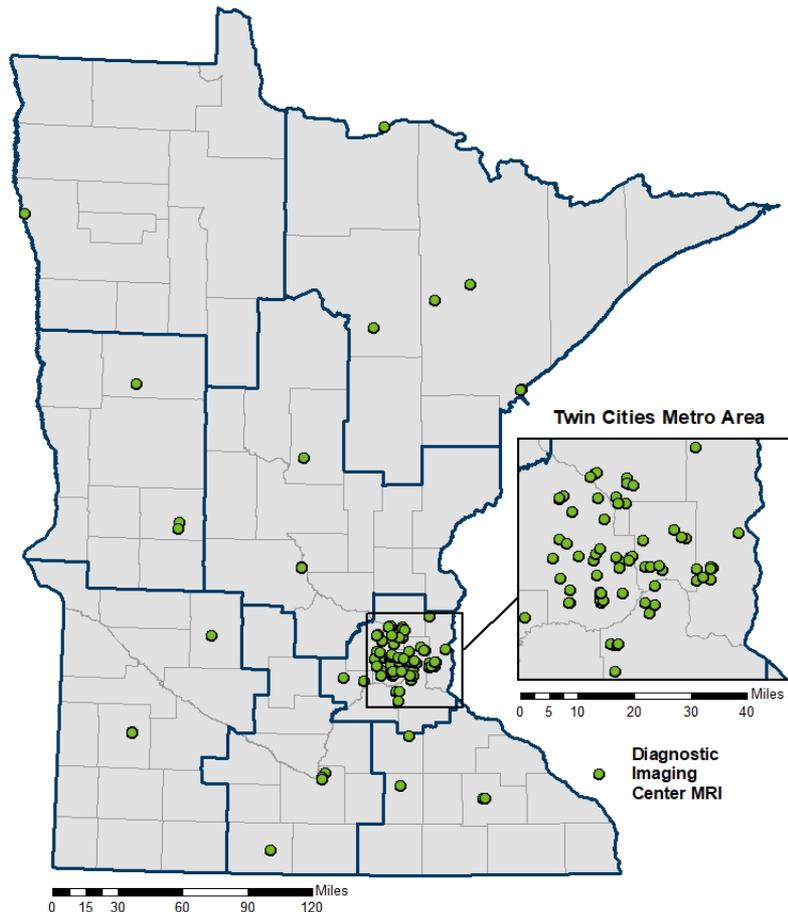
# Availability of Diagnostic Imaging Services

# Number of Magnetic Resonance Imaging (MRI) Scanners by Minnesota Region, 2017

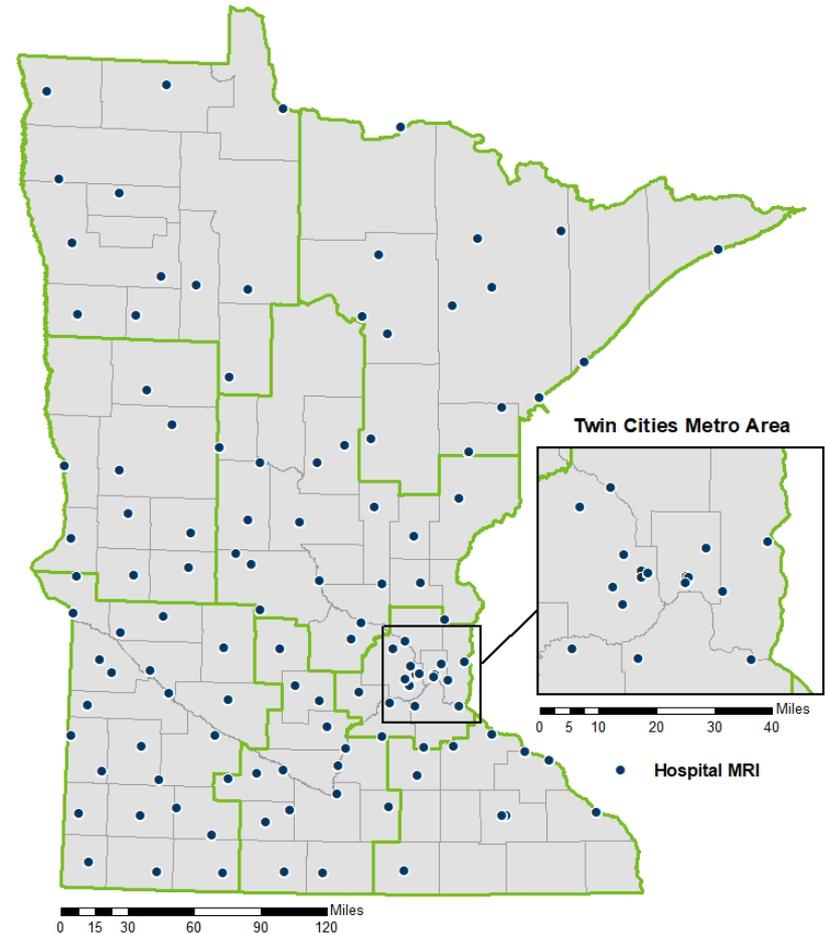
|                  | Diagnostic Imaging Center MRIs | Hospital MRIs | Total MRIs | Total MRIs per 100,000 Residents |
|------------------|--------------------------------|---------------|------------|----------------------------------|
| Central          | 15                             | 20            | 35         | 4.6                              |
| Metro            | 94                             | 59            | 153        | 5.0                              |
| Northeast        | 13                             | 22            | 35         | 10.8                             |
| Northwest        | 1                              | 13            | 14         | 8.2                              |
| South Central    | 5                              | 18            | 23         | 7.9                              |
| Southeast        | 27                             | 17            | 44         | 8.7                              |
| Southwest        | 3                              | 23            | 26         | 12.0                             |
| West Central     | 7                              | 11            | 18         | 7.8                              |
| <b>Statewide</b> | <b>165</b>                     | <b>183</b>    | <b>348</b> | <b>6.2</b>                       |

# Location of Diagnostic Imaging Center & Hospital Magnetic Resonance Imaging Scanners (MRIs), 2016

## Diagnostic Imaging Center MRIs



## Hospital MRIs



Source: MDH Health Economics Program analysis of data from the Diagnostic Imaging Facility Utilization Report and Hospital Annual Report.

[Summary of image](#)

# Number of Computed Tomography (CT) and Other Advanced Imaging Scanners by Minnesota Region, 2017

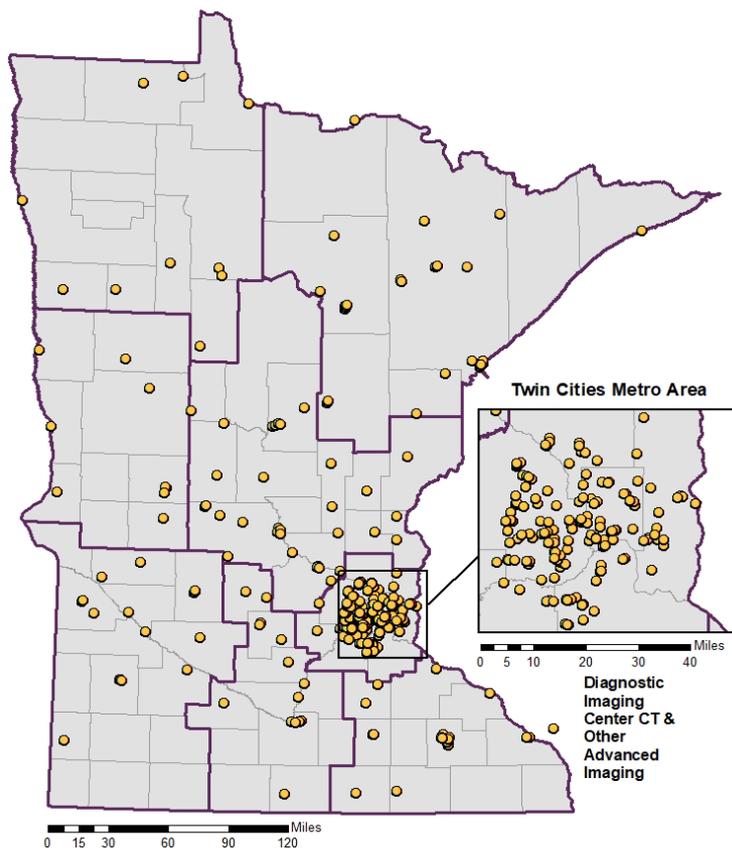
|                  | Diagnostic Imaging Center CT & Other Advanced Imaging Scanners | Hospital CT & Other Advanced Imaging Scanners | Total CT & Other Advanced Imaging Scanners | Total CT & Other Advanced Imaging Scanners per 100,000 Residents |
|------------------|--|---|--|--|
| Central          | 39   | 22  | 61   | 8.1  |
| Metro            | 188  | 118   | 306  | 10.0   |
| Northeast        | 26   | 17  | 43   | 13.2   |
| Northwest        | 11   | 11  | 22   | 12.9   |
| South Central    | 18   | 10  | 28   | 9.6  |
| Southeast        | 39   | 35  | 74   | 14.6   |
| Southwest        | 18   | 18  | 36   | 16.6   |
| West Central     | 12   | 4   | 16   | 7.0  |
| <b>Statewide</b> | <b>351</b>   | <b>235</b>                                    | <b>586</b>                                 | <b>10.5</b>  |

Note: The term 'other advanced imaging' includes positron emission tomography, single-photon emission computed tomography, and combination scanners.

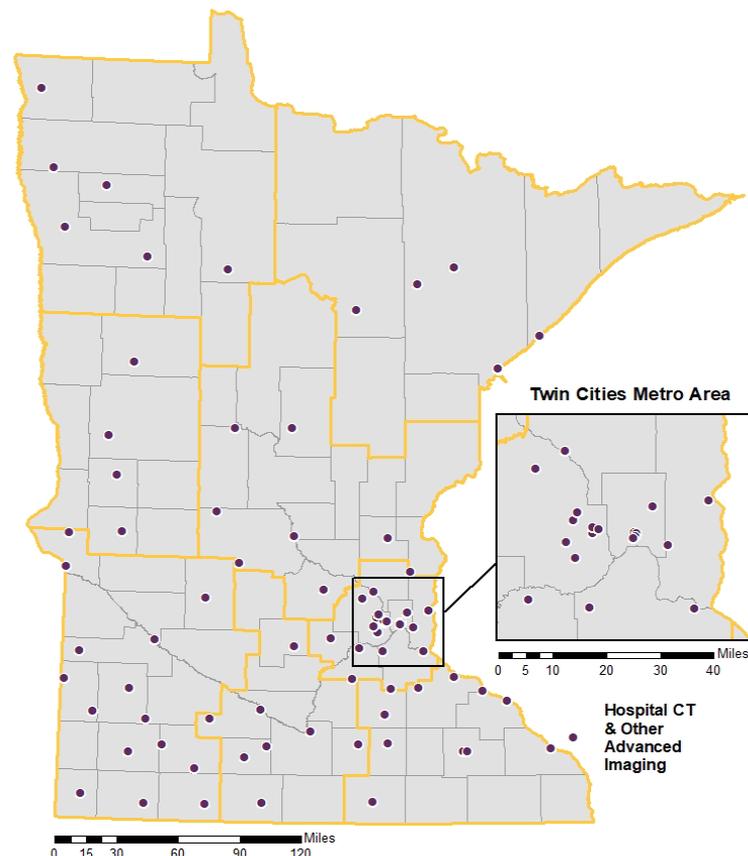
Source: MDH Health Economics Program analysis of data from the Diagnostic Imaging Facility Utilization Report and Hospital Annual Report.

# Location of Diagnostic Imaging Center Computed Tomography (CT), Other Advanced Imaging Scanners, 2017

## Diagnostic Imaging Center CT and Other Advanced Imaging



## Hospital CT and Other Advanced Imaging



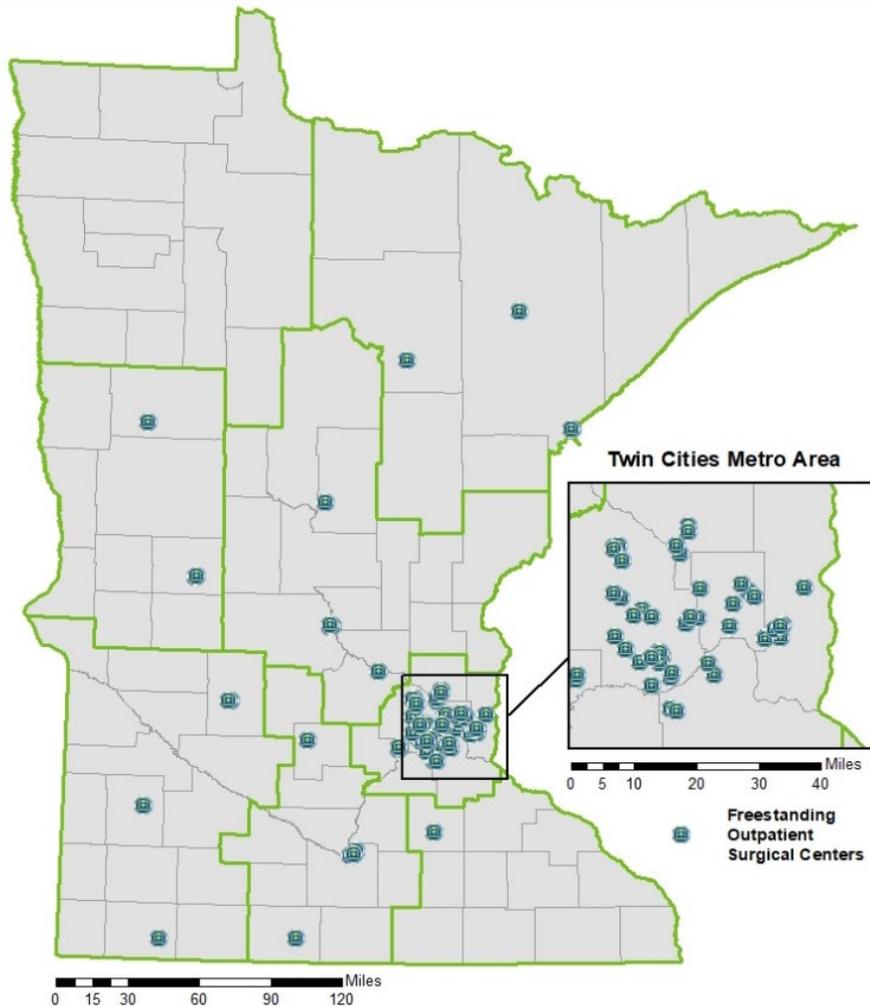
Note: The term 'other advanced imaging' includes positron emission tomography, single-photon emission computed tomography, and combination scanners.

Source: MDH Health Economics Program analysis of data from the Diagnostic Imaging Facility Utilization Report and Hospital Annual Report.

[Summary of image](#)

# Availability of Freestanding Outpatient Surgical Services

# Location of Freestanding Outpatient Surgical Centers in Minnesota, 2017

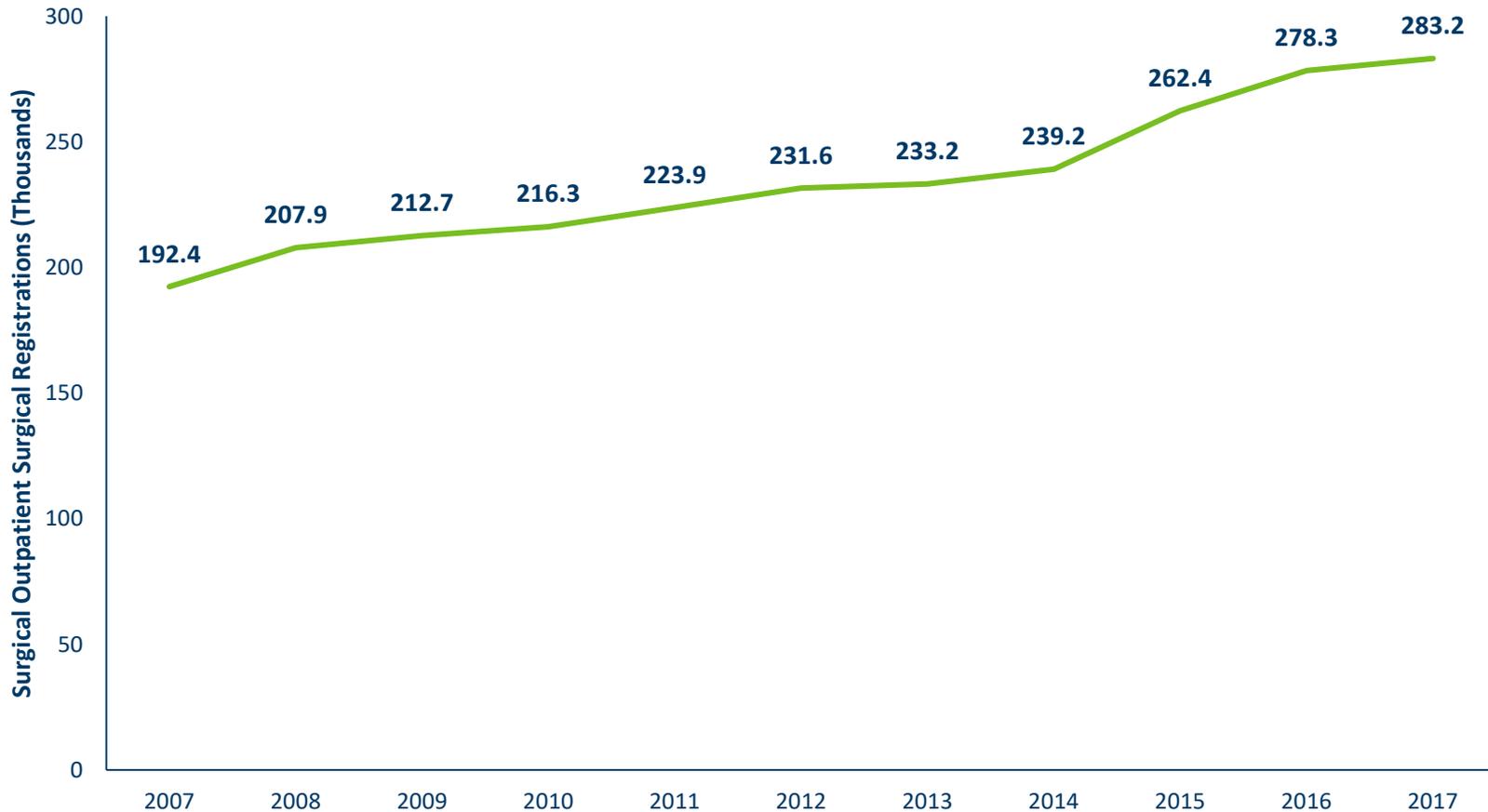


| Region           | Number of Freestanding Surgical Centers |
|------------------|---|
| Central          | 6                                       |
| Metro            | 50                                      |
| Northeast        | 4                                       |
| Northwest        | 0                                       |
| South Central    | 5                                       |
| Southeast        | 1                                       |
| Southwest        | 5                                       |
| West Central     | 2                                       |
| <b>Statewide</b> | <b>73</b>                               |

Source: MDH Health Economics Program analysis of data from the Freestanding Outpatient Surgical Center Financial, Utilization, and Services Report.

[Summary of image](#)

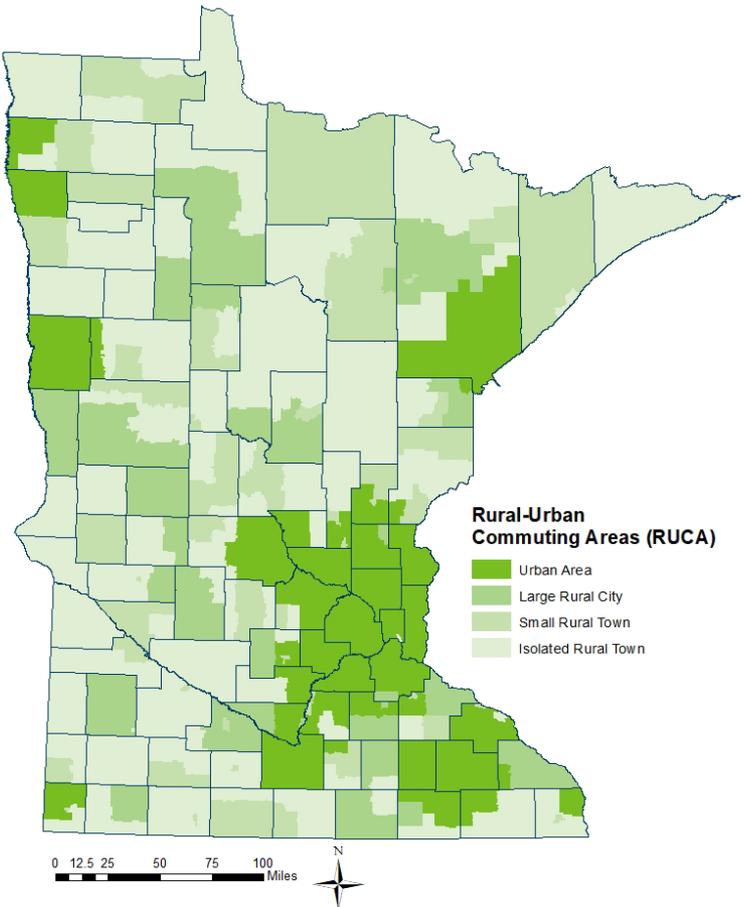
# Number of Freestanding Outpatient Surgical Registrations in Minnesota



Source: MDH Health Economics Program analysis of data from the Freestanding Outpatient Surgical Center Financial, Utilization, and Services Report.

[Summary of graph](#)

# Rural-Urban Commuting Areas (RUCA) & State Community Health Services Advisory Committee Regions (SCHSAC)



Rural and urban areas are identified using the Rural-Urban Commuting Areas (RUCA). For more information on RUCA, visit: [www.health.state.mn.us/data/workforce/method.html#ruca](http://www.health.state.mn.us/data/workforce/method.html#ruca)  
[Summary of graph](#)



Minnesota counties are grouped into State Community Health Services Advisory Committee (SCHSAC) Regions for state and local public health cooperation. For more information on SCHSAC, visit: [www.health.state.mn.us/schsac/](http://www.health.state.mn.us/schsac/)

# Additional Information from the Health Economics Program Available Online

- Health Economics Program Home Page  
([www.health.state.mn.us/healtheconomics](http://www.health.state.mn.us/healtheconomics))
- Publications ([www.health.state.mn.us/data/economics/publications/](http://www.health.state.mn.us/data/economics/publications/))
- Health Care Market Statistics (Chartbook Updates)  
([www.health.state.mn.us/data/economics/chartbook/](http://www.health.state.mn.us/data/economics/chartbook/))

A summary of the charts and graphs contained within is provided at [Chartbook Summaries - Section 8](#). Direct links are listed on each page. Please contact the Health Economics Program at 651-201-3550 or [health.hep@state.mn.us](mailto:health.hep@state.mn.us) if additional assistance is needed for accessing this information.