

Section 8: Health Care Providers and Service Availability

- ★ Hospital system and capacity
- ★ Utilization of hospital services
- ★ Hospital financial trends
- ★ Hospital capital expenditures
- ★ Hospital community benefit
- ★ Availability of specific health care services at hospitals (e.g., imaging, surgery)
- ★ Physician services

Hospital System and Capacity

Hospital Capacity in Minnesota, 2009

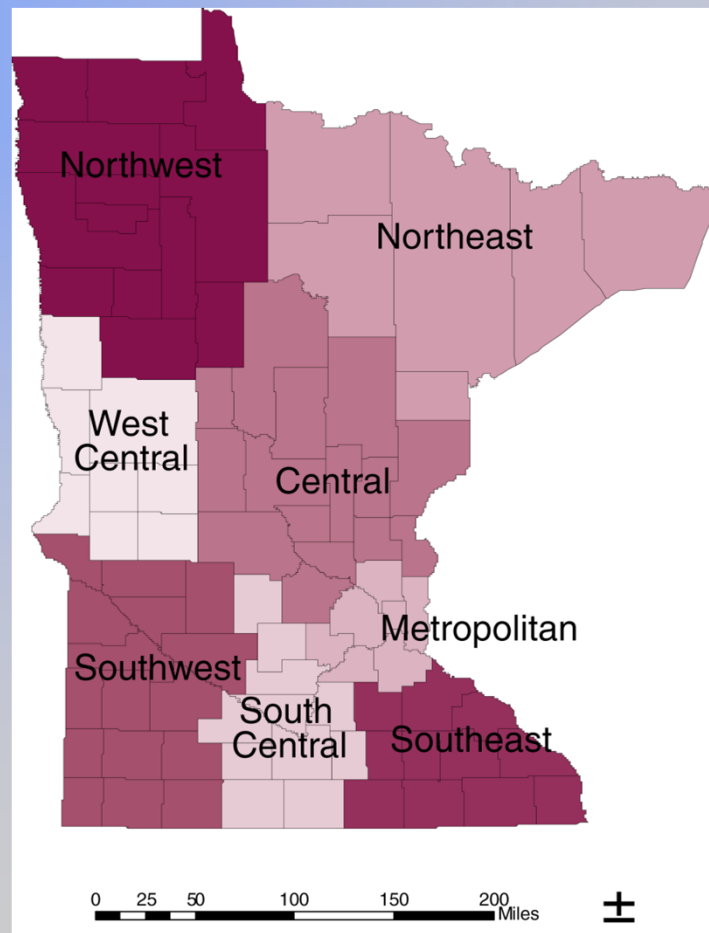
Number of Hospitals	Available Beds*	Occupancy Rate Based on Available Beds	Licensed Beds**	Occupancy Rate Based on Licensed Beds	Available Beds Per 1,000 Population
134	11,872	57.0%	16,237	41.7%	2.3

*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.

**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, U.S. Census Bureau

Minnesota Geographic Regions: Definition



Regional Hospital Capacity in Minnesota, 2009

	Number of Hospitals	Available Beds*	Occupancy Rate Based on Available Beds	Licensed Beds**	Occupancy Rate Based on Licensed Beds	Available Beds Per 1,000 Population
Central	20	1,131	51.7%	1,387	42.1%	1.6
Metro	26	5,960	68.7%	8,383	48.8%	2.1
Northeast	17	1,200	47.4%	1,410	40.4%	3.7
Northwest	13	407	35.4%	578	24.9%	2.1
South Central	15	564	39.1%	782	28.2%	2.0
Southeast	12	1,668	54.1%	2,532	35.7%	3.4
Southwest	23	606	22.5%	743	18.4%	2.8
West Central	8	336	35.4%	422	28.2%	1.8
Total	134	11,872	57.0%	16,237	41.7%	2.3



*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.

**Licensed beds is defined as the number of beds licensed by the Department of Health, under Minnesota Statutes, sections 144.50 to 144.58.

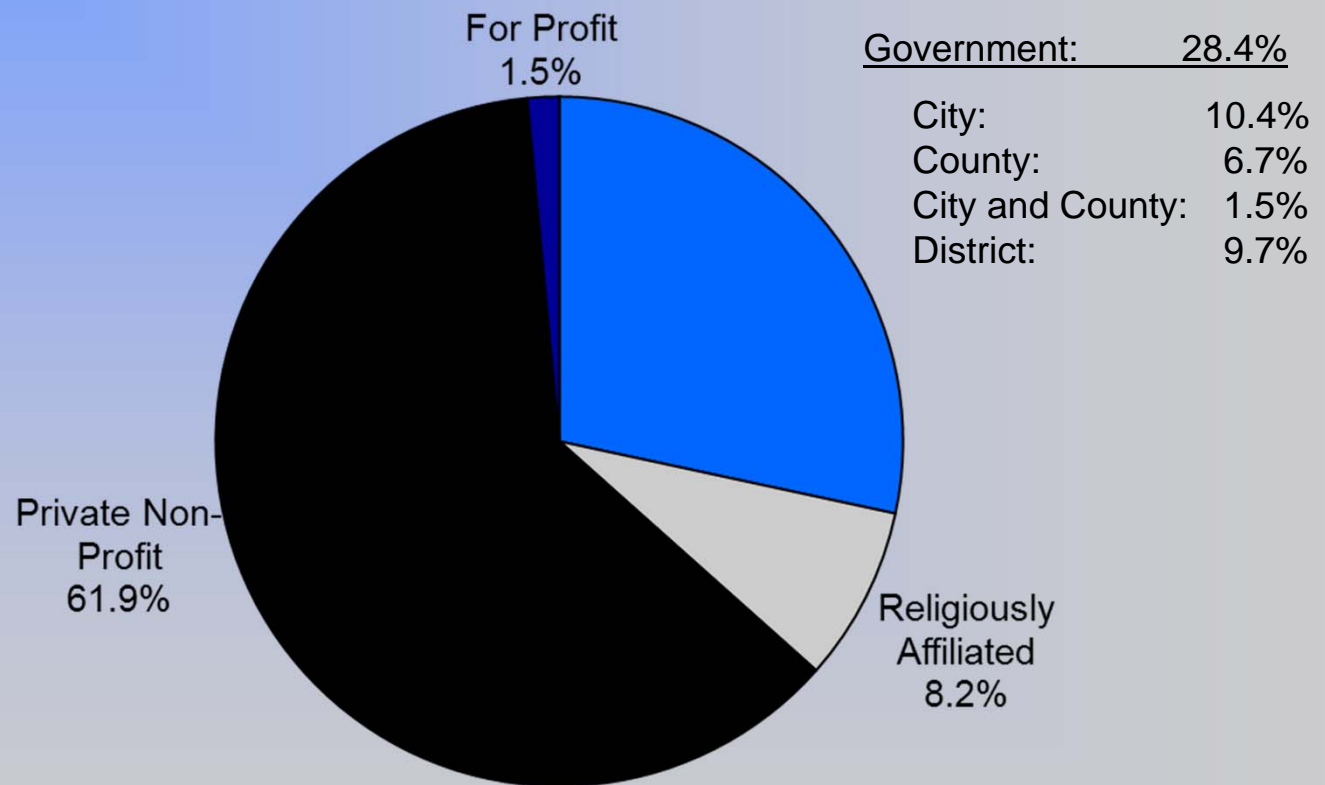
Source: MDH Health Economics Program analysis of hospital annual reports

Distribution of Minnesota's Hospitals by Size and Region, 2009

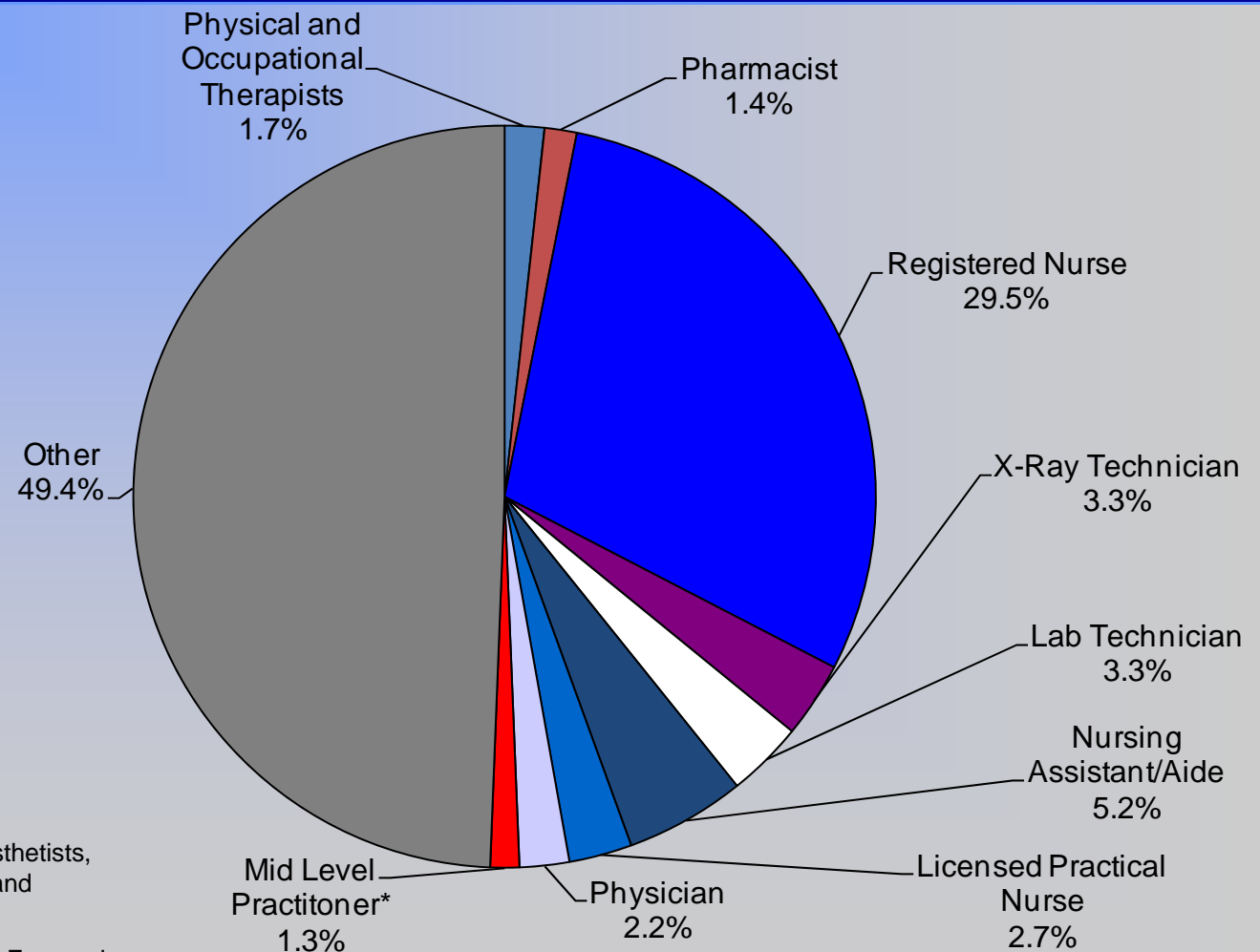
By Number of Available Beds

	Under 25 Beds	25-49 Beds	50-99 Beds	100-199 Beds	200 or More Beds	Total
Central	15.0%	65.0%	10.0%	5.0%	5.0%	100.0%
Metro	3.8%	11.5%	23.1%	19.2%	42.3%	100.0%
Northeast	47.1%	17.6%	11.8%	11.8%	11.8%	100.0%
Northwest	46.2%	38.5%	7.7%	7.7%	0.0%	100.0%
South Central	46.7%	33.3%	13.3%	6.7%	0.0%	100.0%
Southeast	25.0%	25.0%	33.3%	0.0%	16.7%	100.0%
Southwest	39.1%	52.2%	8.7%	0.0%	0.0%	100.0%
West Central	37.5%	37.5%	12.5%	12.5%	0.0%	100.0%
Statewide	29.9%	35.1%	14.9%	8.2%	11.9%	100.0%

Ownership of Minnesota Hospitals, 2009



Composition of Minnesota's Hospital Workforce, 2009

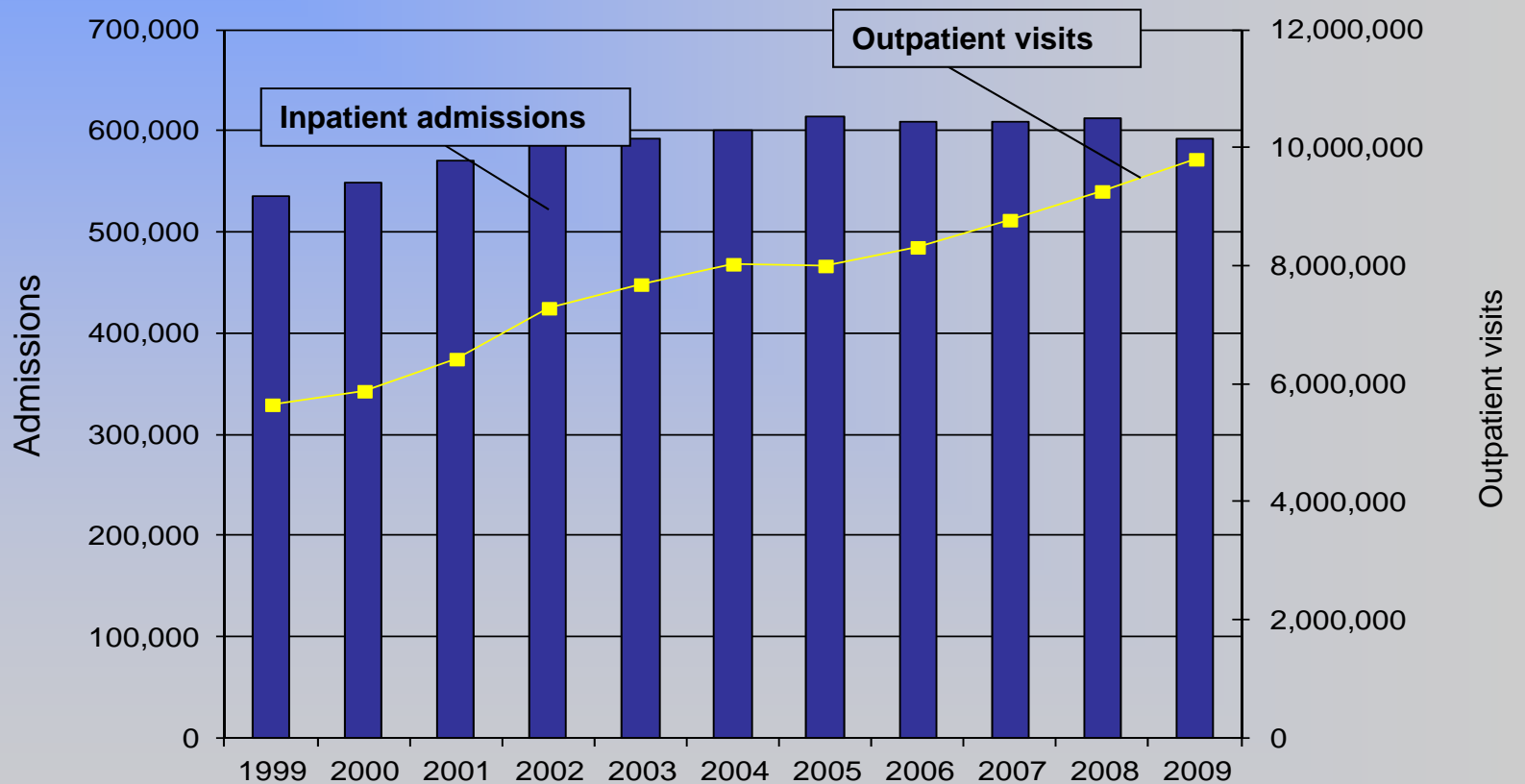


*Includes nurse anesthetists, nurse practitioners, and physician assistants

Source: MDH Health Economics Program analysis of hospital annual reports

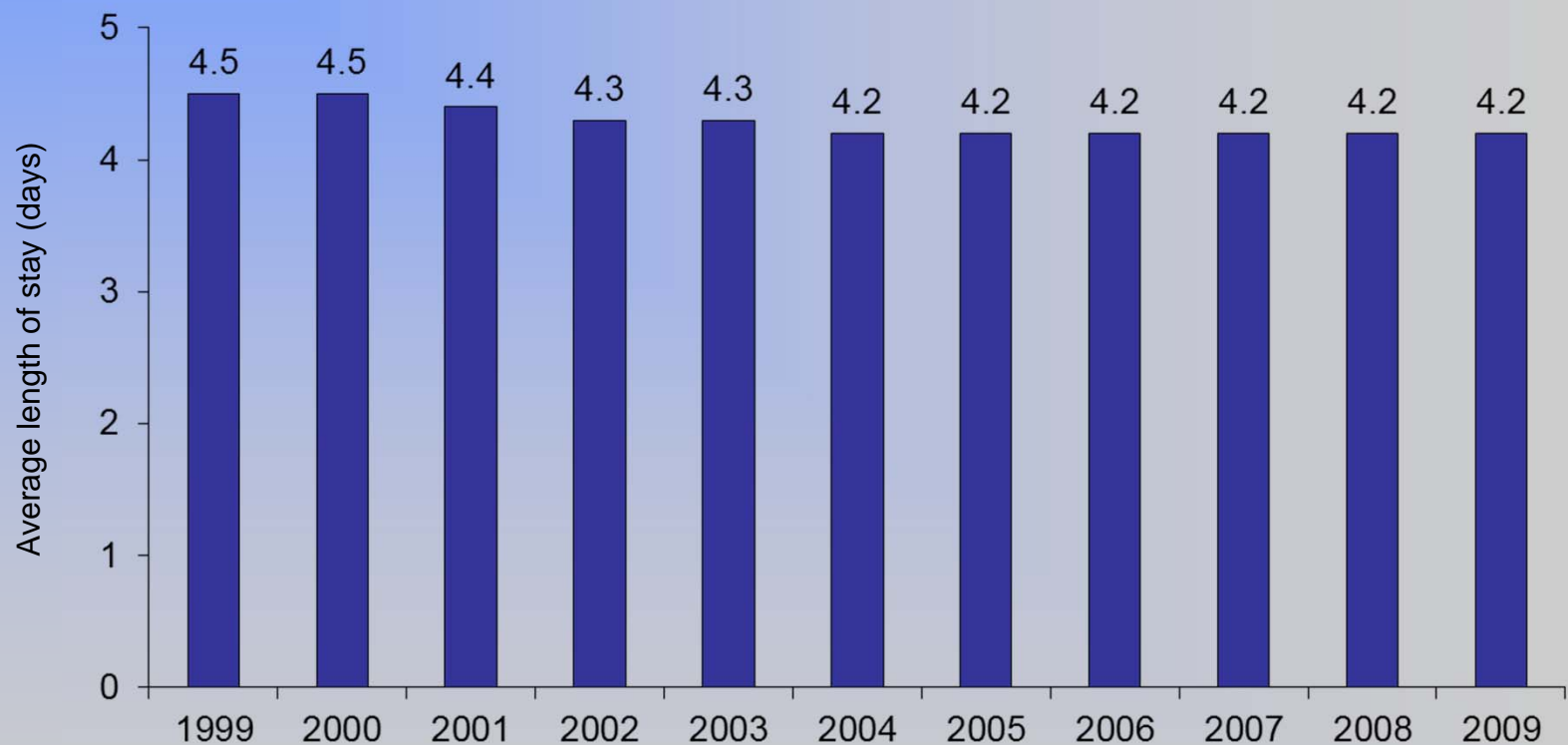
Utilization of Hospital Services

Minnesota Hospital Outpatient Visits and Inpatient Admissions, 1999 to 2009

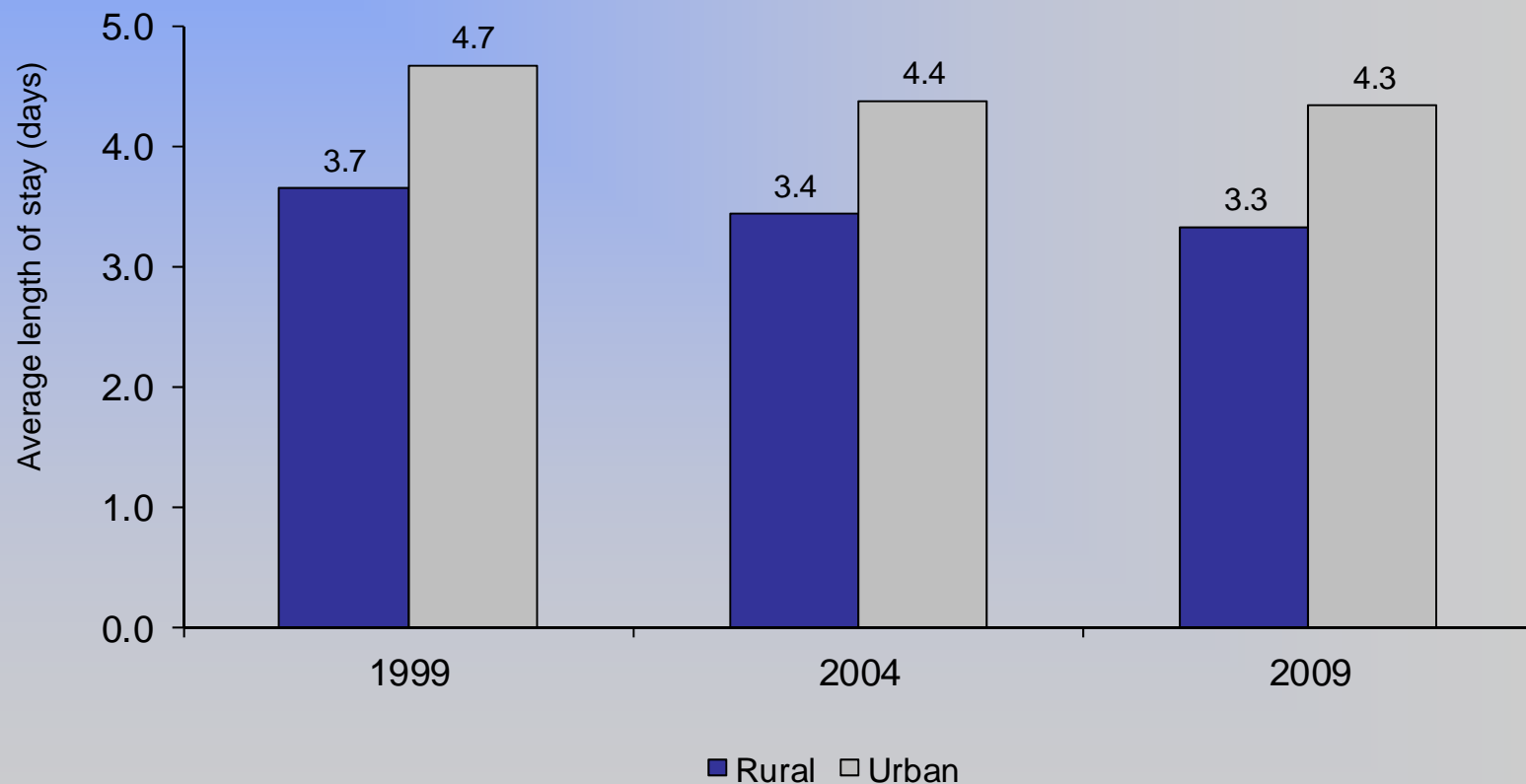


Source: MDH Health Economics Program analysis of hospital annual reports

Average Length of Stay in Minnesota Hospitals, 1999 to 2009



Average Length of Stay: Rural and Urban Minnesota Hospitals, 1999 to 2009



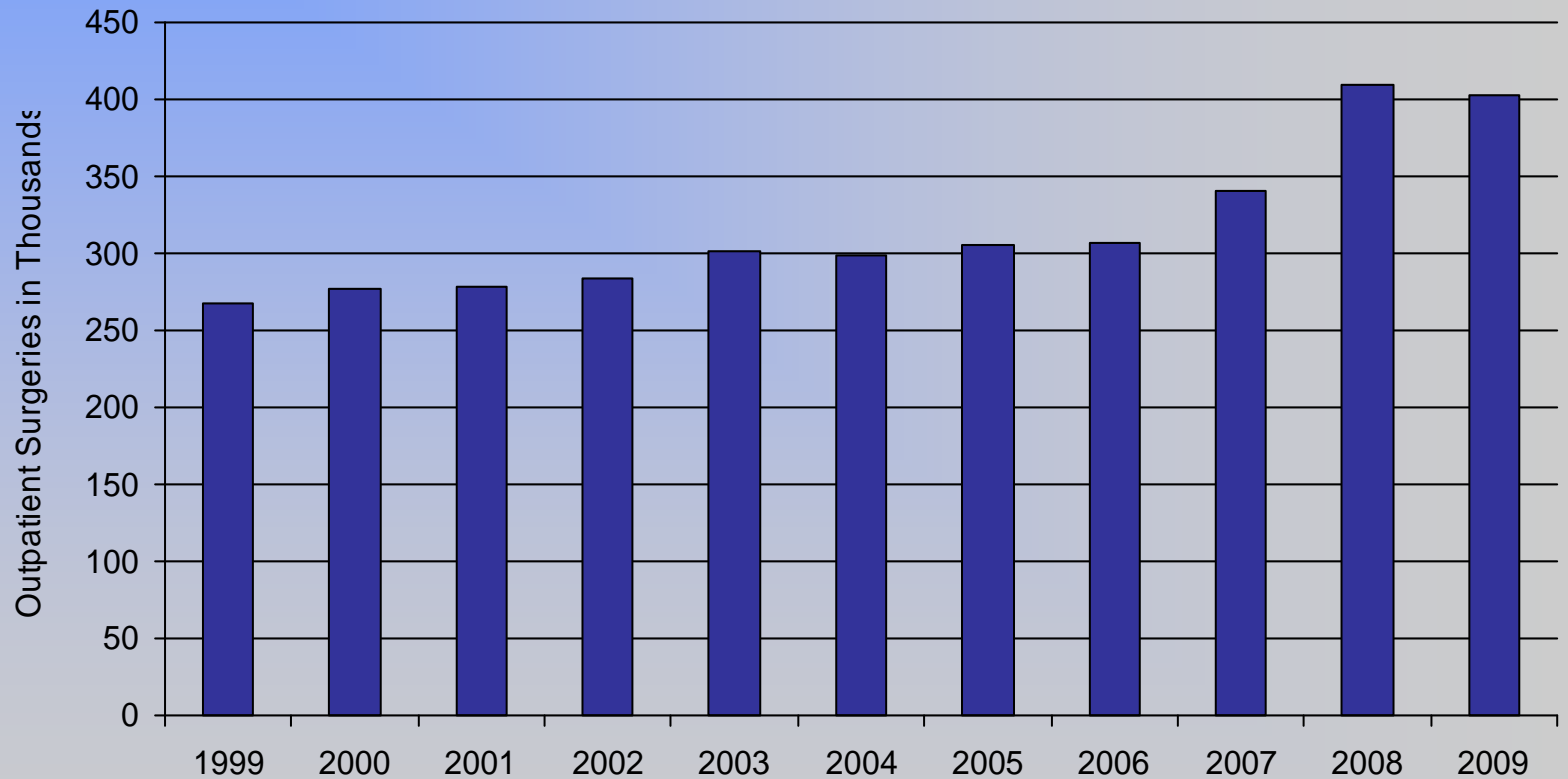
Minnesota Hospital Utilization by Region, 2009

	Inpatient Admissions	Inpatient Days	Average Length of Stay (days)	Outpatient Visits
Central	62,601	213,307	3.4	1,216,890
Metro	338,928	1,493,683	4.4	4,124,422
Northeast	50,102	207,708	4.1	912,681
Northwest	15,177	52,597	3.5	460,544
South Central	23,073	80,555	3.5	699,127
Southeast	75,128	329,559	4.4	1,598,770
Southwest	15,310	49,780	3.3	483,990
West Central	12,509	43,389	3.5	314,718
Statewide	592,828	2,470,578	4.2	9,811,142

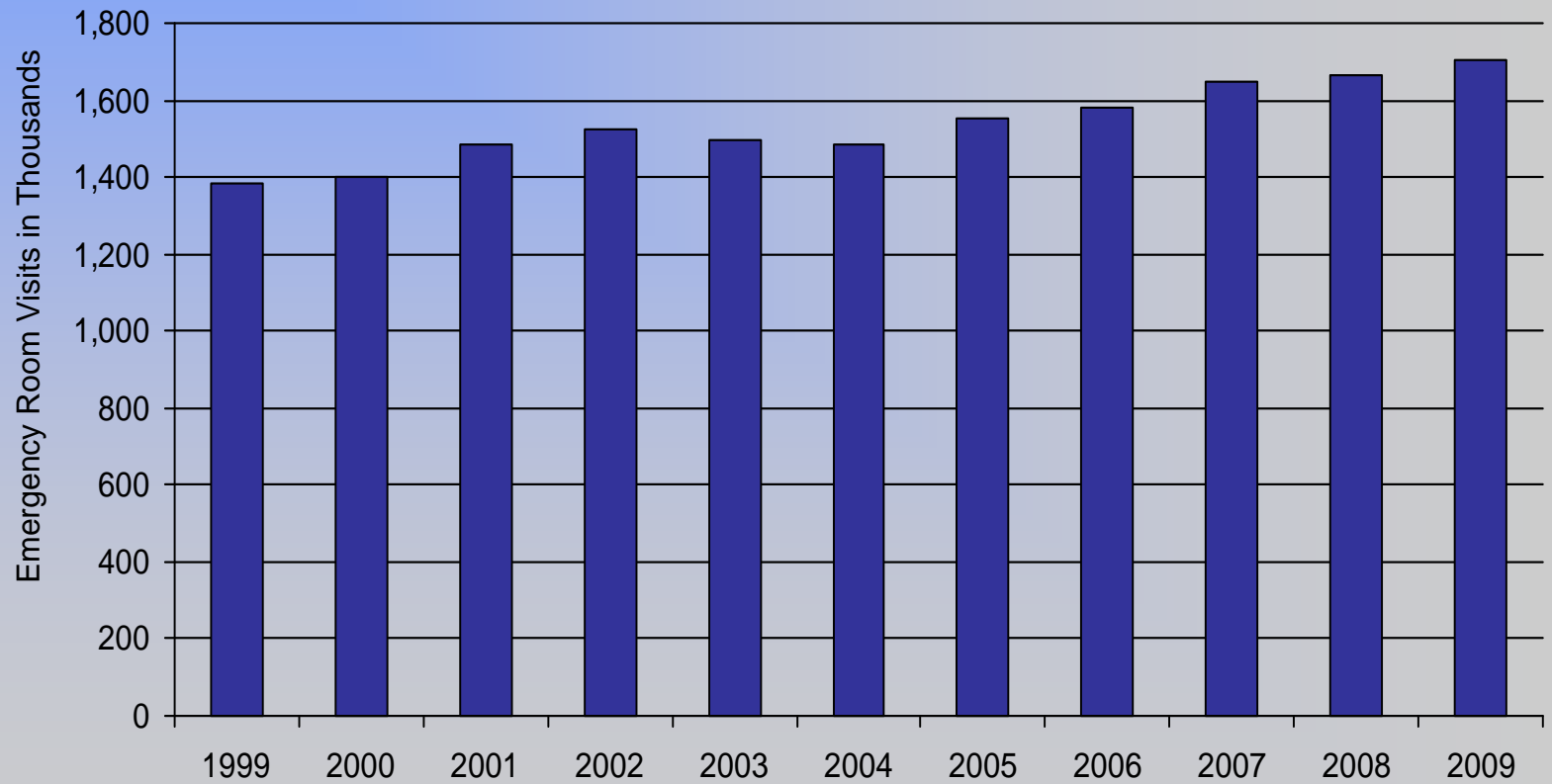
Distribution of Hospital Admissions and Inpatient Days by Type of Service, 2009

	Percent of Admissions	Percent of Inpatient Days
Medical & surgical care	33.9%	37.0%
Cardiac care	13.0%	11.0%
Obstetric care	12.6%	7.8%
Orthopedic care	12.2%	10.0%
Psychiatric care	6.1%	10.8%
Neurology care	5.6%	5.9%
Neonatal care (excluding births)	3.8%	5.2%
Chemical dependency care	1.4%	1.8%
Rehabilitation	1.1%	3.1%
Other acute care	10.3%	7.5%
Total acute care	100.0%	100.0%

Trend in Outpatient Surgeries at Minnesota Hospitals, 1999 to 2009



Trend in Emergency Room Visits at Minnesota Hospitals, 1999 to 2009

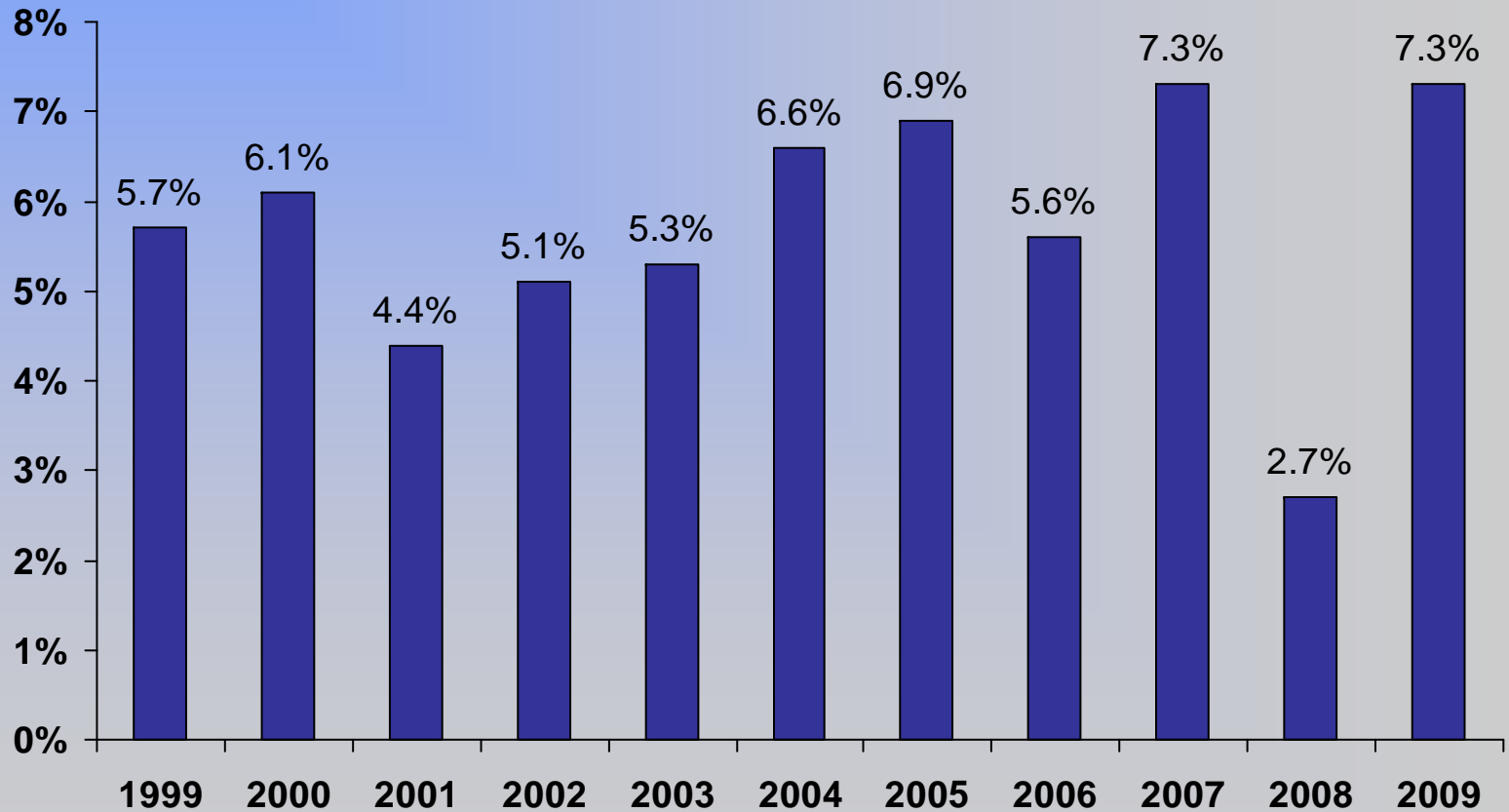


Hospital Financial Trends

Net Income of Minnesota Hospitals, 1999 to 2009



Minnesota Hospitals' Net Income as a Percent of Revenue, 1999 to 2009



Financial Indicators by Region, 2009

	Net Income (in Millions)	Net Income as a % of Revenue
Central	\$38.6	2.8%
Metro	\$576.2	7.7%
Northeast	\$57.7	4.8%
Northwest	\$7.3	2.3%
South Central	\$44.1	7.4%
Southeast	\$221.4	11.7%
Southwest	\$20.1	5.2%
West Central	\$18.0	7.3%
Statewide	\$983.3	7.3%

Financial Indicators by Hospital Size, 2009

	Net Income (Millions)	Net Income as a % of Revenue
Under 25 Beds	\$24.5	5.1%
25 to 49 Beds	\$132.0	8.4%
50 to 99 Beds	\$137.6	8.1%
100 to 199 Beds	\$119.9	6.4%
200 Beds or More	\$569.3	7.2%
All Hospitals	\$983.3	7.3%

Sources of Patient Revenue for Minnesota Hospitals, 2009

	Percent of Rural Hospital Patient Revenue	Percent of Urban Hospital Patient Revenue	Percent of Patient Revenue, Statewide
Medicare	37.9%	27.5%	29.5%
State Public Programs*	10.2%	12.6%	12.1%
Private Insurance	45.3%	54.1%	52.4%
Self-Pay	4.3%	3.5%	3.7%
Other Payers	2.3%	2.3%	2.3%
All Payers	100.0%	100.0%	100.0%

Hospital Capital Expenditures

Capital Expenditure Commitments by Minnesota Hospitals, 2009

	2008	2009
Percent of Minnesota hospitals reporting major capital expenditure commitment	29.1%	20.9%
Total number of capital expenditure commitments reported	99	78
Value of major capital expenditure commitments reported (Millions)	\$440.0	\$258.7

Minnesota Hospital Capital Expenditure Commitments by Type, 2009

	Capital Expenditure Commitments (Millions)	Percent of Total Capital Expenditure Commitments
Medical equipment	\$50.5	19.5%
Building and space	\$172.0	66.5%
Other	\$36.2	14.0%
All Major Capital Expenditure Commitments	\$258.7	100.0%

Minnesota Hospital Capital Expenditure Commitment by Category, 2009

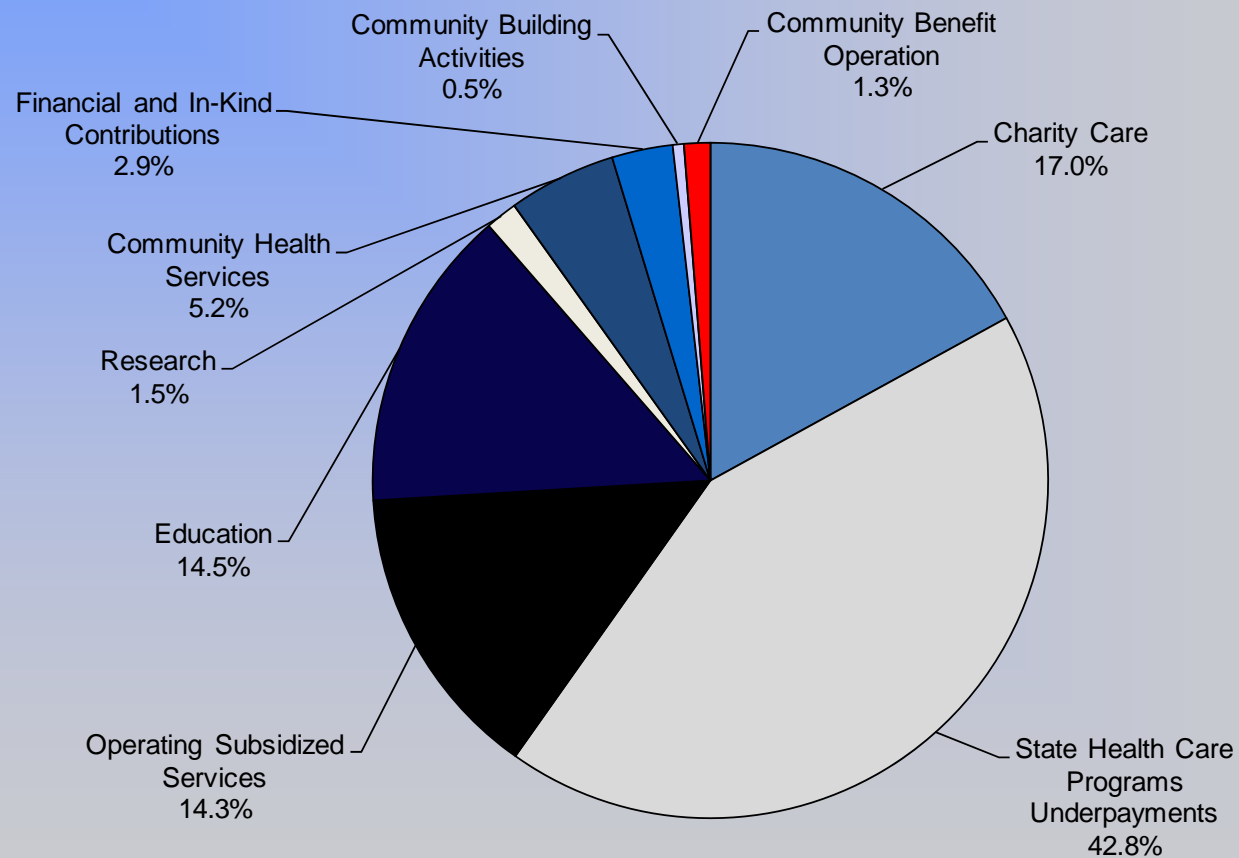
	Capital Expenditure Commitments (in Millions)	Percent of Total Capital Expenditure Commitment
General Infrastructure	\$146.0	56.4%
Surgery	\$20.9	8.1%
Obstetrics	\$19.8	7.7%
Other Patient Care Services	\$19.0	7.3%
Diagnostic Imaging	\$13.4	5.2%
Radiation Therapy	\$12.7	4.9%
Emergency Care	\$7.6	3.0%
Intensive Care (ICU or NICU)	\$5.9	2.3%
Mental Health	\$5.2	2.0%
Cardiac Care	\$4.0	1.5%
Neurology	\$3.9	1.5%
Other*	\$0.3	0.1%
All Major Capital Projects	\$258.7	100.0%

Community Benefit

Community Benefit Provided by Minnesota Hospitals, 2009

	Community Benefit (in Millions)	Percent of Total Operating Expenses
Charity Care	\$133.0	1.1%
State Health Care Programs Underpayment	\$334.4	2.7%
Operating Subsidized Services	\$111.4	0.9%
Education	\$113.7	0.9%
Research	\$12.0	0.1%
Community Health Services	\$40.4	0.3%
Financial and In-Kind Contributions	\$22.8	0.2%
Community Building Activities	\$4.2	0.0%
Community Benefit Operation	\$9.8	0.1%
Total Community Benefit	\$781.6	6.3%

Distribution of Minnesota Hospitals' Community Benefit by Category, 2009



Availability of Specific Hospital Services

Services Available in Minnesota Hospitals, 2009

	<u>Number of Hospitals</u>	
	Services Available*	Services Not Available
Surgery		
Inpatient Surgery	129	5
Outpatient Surgery	132	2
Open-Heart Surgery Services	18	116
Organ Transplant Services	6	128
Mental Health/Chemical Dependency Services		
Outpatient Psychiatric Services	60	74
Detoxification Services	25	109
Diagnostic Radiology		
Computer Tomography (CT) Scanning Services	133	1
Magnetic Resonance Imaging (MRI) Services	129	5
Positron Emission Tomography (PET) Services	6	128
Single Photon Emission Computerized Tomography (SPECT) Services	37	97
Other Services		
Renal Dialysis Services	42	92
Cardiac Catheterization Services	25	109

*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

Physician Services

Number of Physicians Practicing in Minnesota, 2008

<u>Number of Physicians:</u>	11,790
Primary Care Physicians	6,675
Specialty Care Physicians	5,115
<u>Physicians per 100,000 Population:</u>	226
Primary Care Physicians	128
Specialty Care Physicians	98

Number of Physicians Practicing in Minnesota by MSA and Non-MSA Counties, 2008

	MSA Counties*	Non-MSA Counties*	State-wide
<u>Number of Physicians:</u>	10,092	1,698	11,790
Primary Care Physicians	5,425	1,250	6,675
Specialty Care Physicians	4,667	484	5,115
<u>Physicians per 100,000 Population:</u>	258	130	226
Primary Care Physicians	139	95	128
Specialty Care Physicians	119	37	98

*MSA is Metropolitan Statistical Areas. MSA counties : Anoka, Benton, Blue Earth, Carlton, Carver, Chisago, Clay, Dakota, Dodge, Hennepin, Houston, Isanti, Nicolet, Olmsted, Polk, Ramsey, St. Louis, Scott, Sherburne, Stearns, Wabasha, Washington, and Wright; non-MSA counties are the remaining 64 Minnesota counties.

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

Source: Minnesota Board of Medical Practices
Prepared by: MDH, Office of Rural Health & Primary Care

Distribution of Number of Physicians Practicing in Minnesota by Location and Specialty, 2008

	MSA Counties*	Non-MSA Counties*	Statewide
Primary Care Specialties	40.9%	64.7%	44.3%
Internal Medicine Specialties	12.9%	9.0%	12.3%
Surgical Specialties	7.3%	8.0%	7.4%
Other Specialties	39.0%	18.4%	36.0%
All Specialties	100.0%	100.0%	100.0%

*MSA is Metropolitan Statistical Areas. MSA counties : Anoka, Benton, Carlton, Carver, Chisago, Clay, Dakota, Dodge, Hennepin, Houston, Isanti, Olmsted, Polk, Ramsey, St. Louis, Scott, Sherburne, Stearns, Wabasha, Washington, and Wright; non-MSA counties are the remaining 66 Minnesota counties.

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

Source: Minnesota Board of Medical Practices
Prepared by: MDH, Office of Rural Health & Primary Care