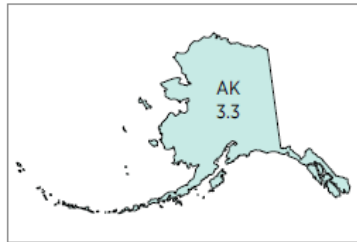




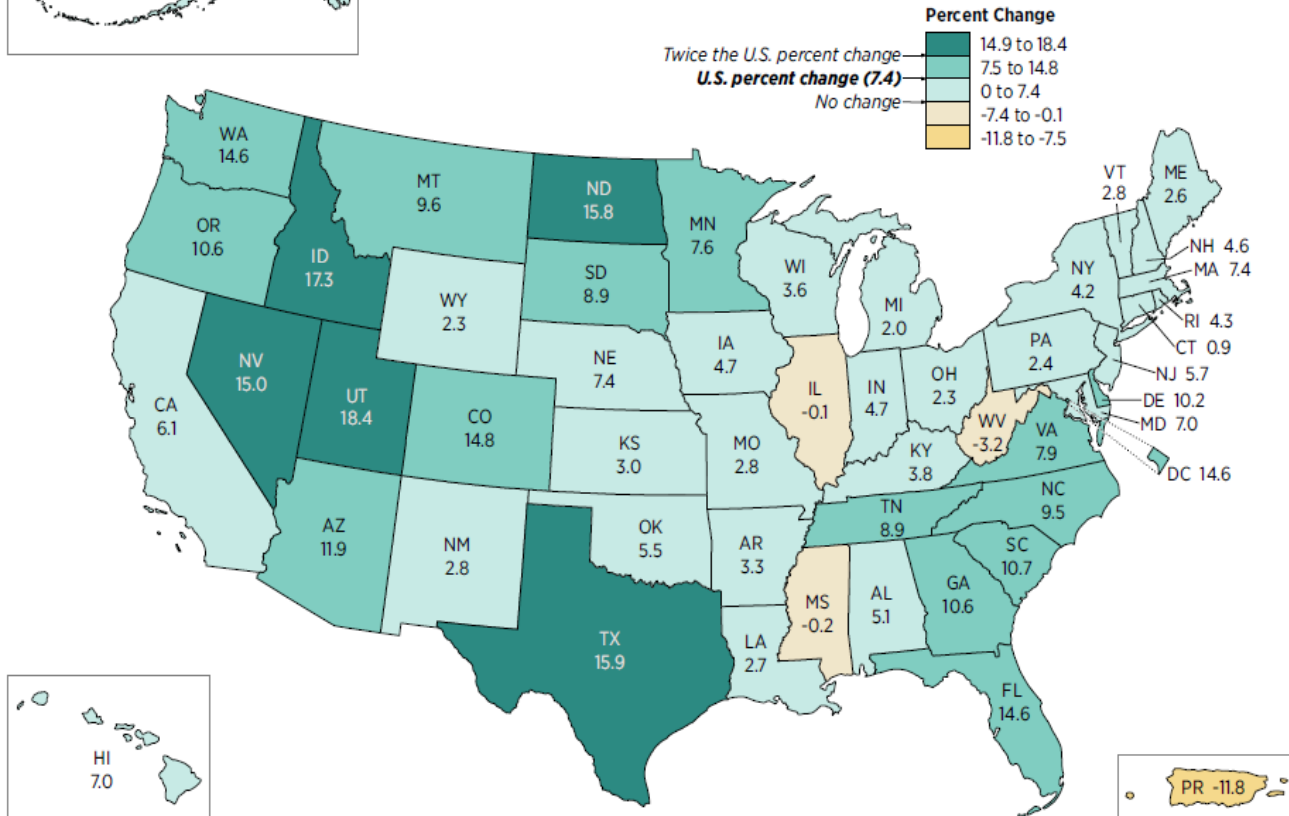
Governor's Task Force on Broadband  
Minnesota Population Trends

Susan Brower, Minnesota State Demographer  
May 24, 2021

# First 2020 Census numbers released last month



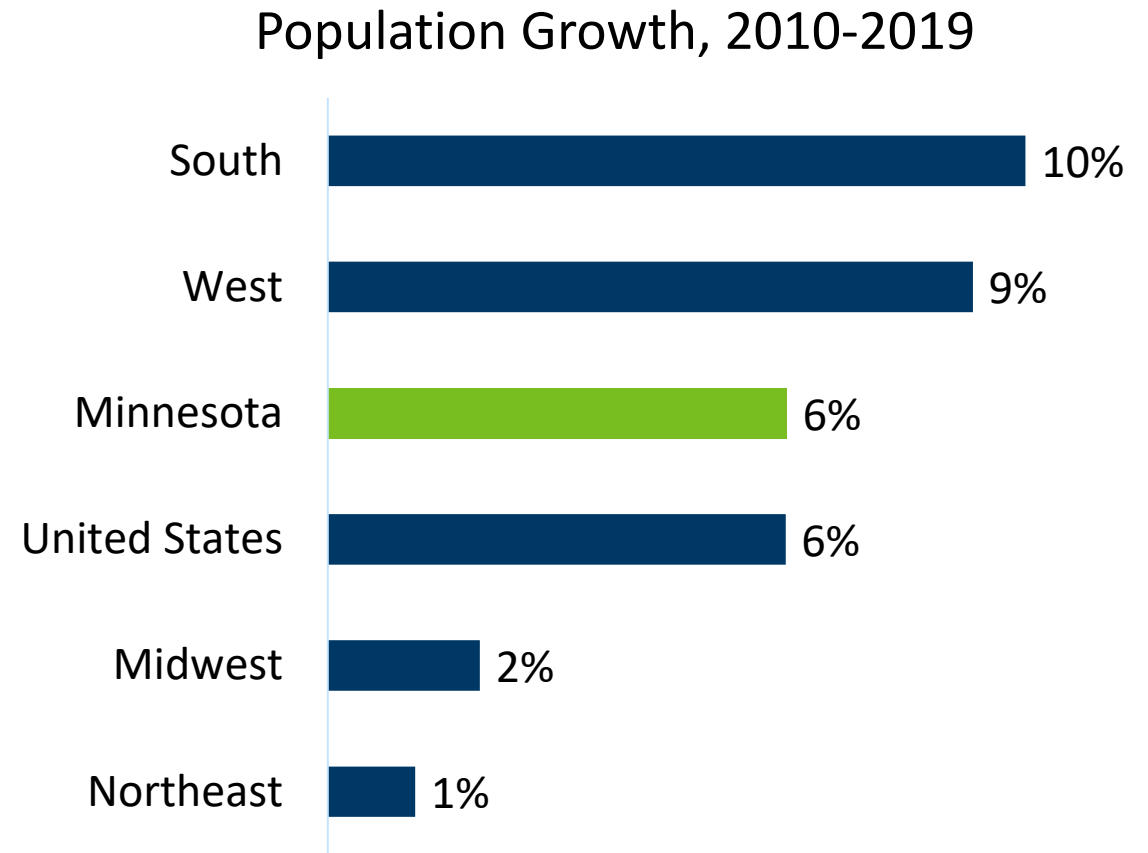
Percent Change in Resident Population for the 50 States, the District of Columbia, and Puerto Rico: 2010 to 2020



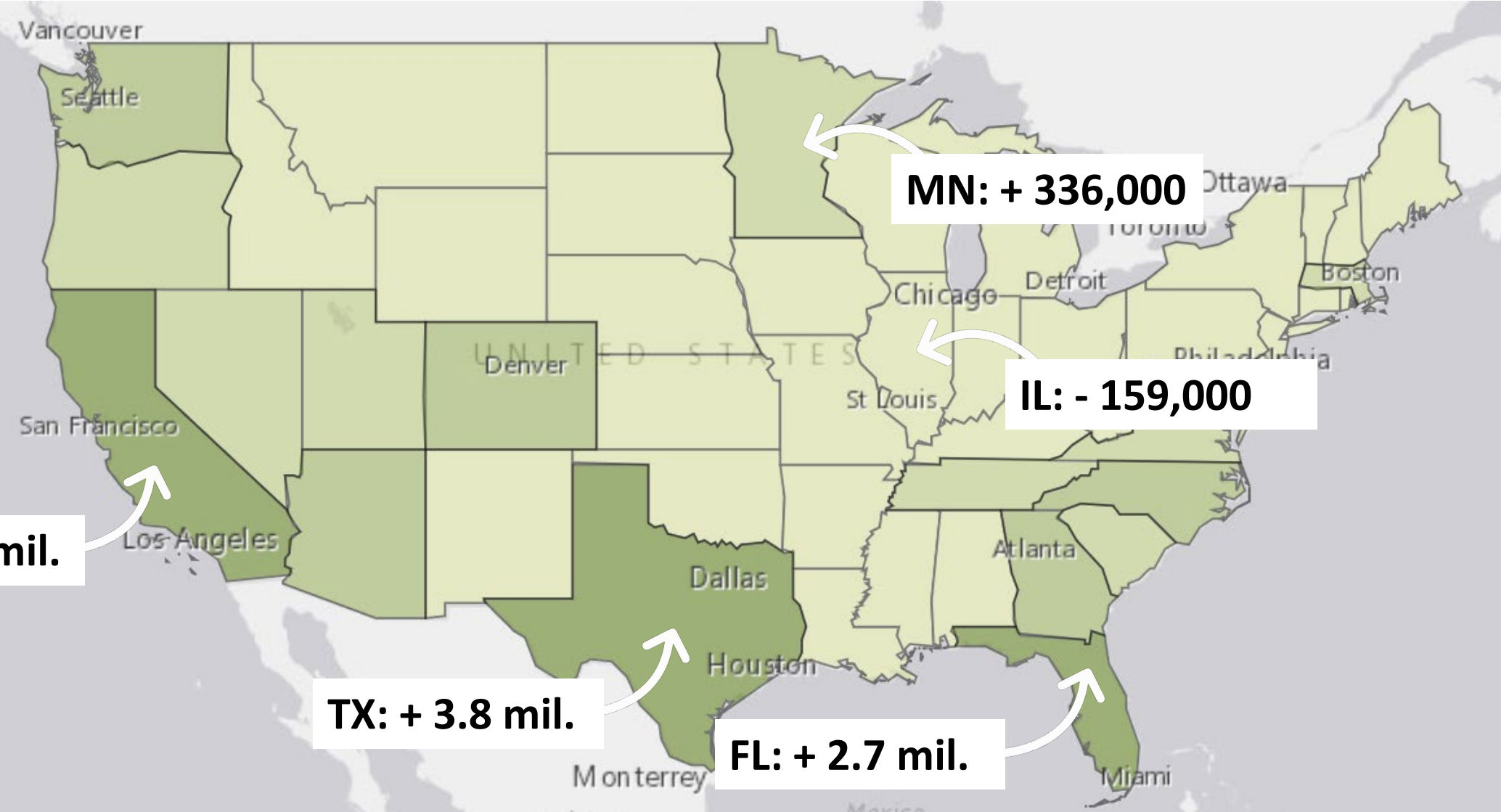
**Minnesota:** 402,000 people added since 2010 (7.6%)  
**U.S.:** 22.7 million added (7.4%)

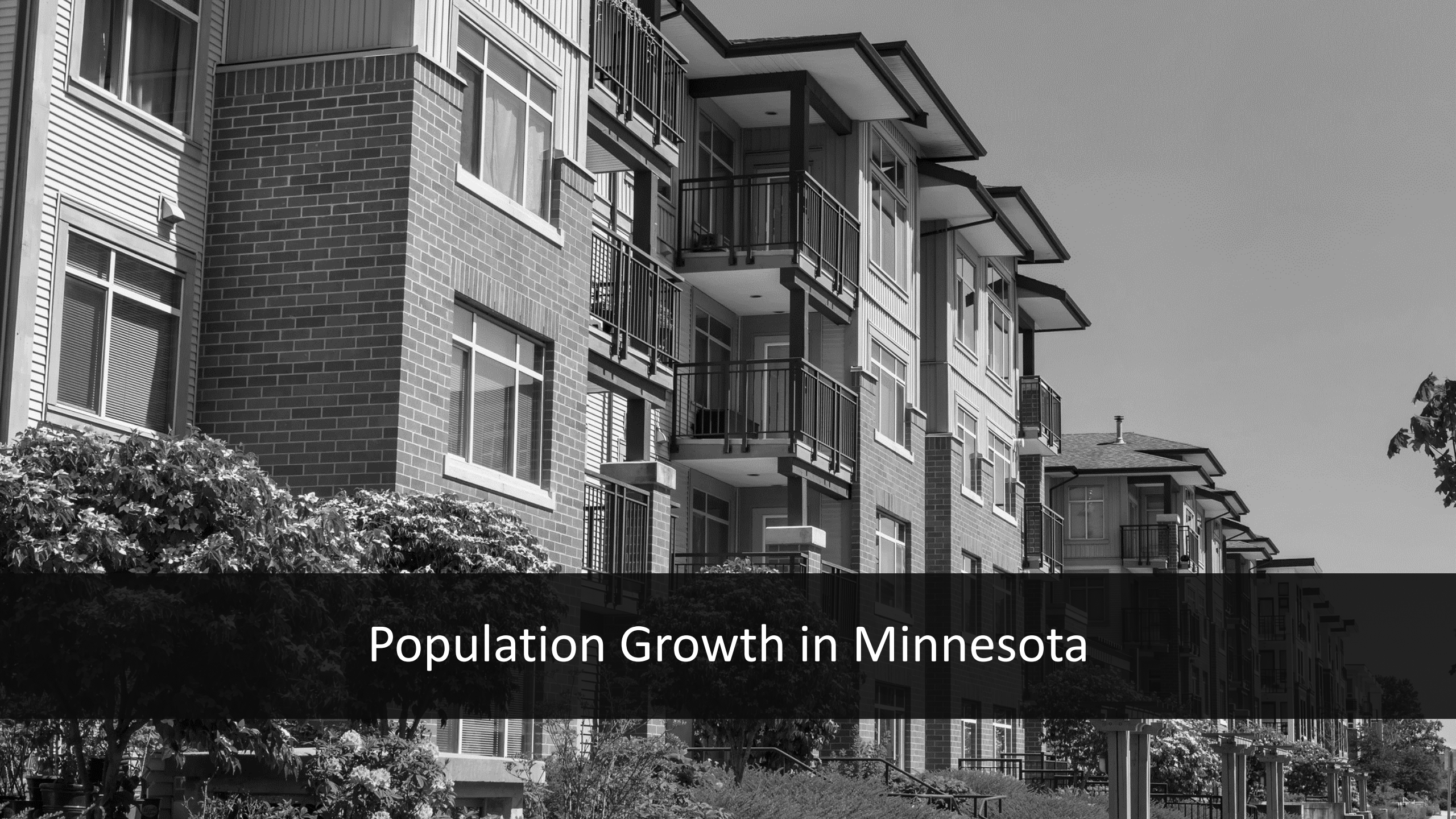
# Minnesota's population at-a-glance

- Minnesota's 2019 population was estimated to be 5,639,632
- Minnesota's population grew 6% between 2010 and 2019, adding 335,707 residents.



# Population change in other states...for scale 2010-2019

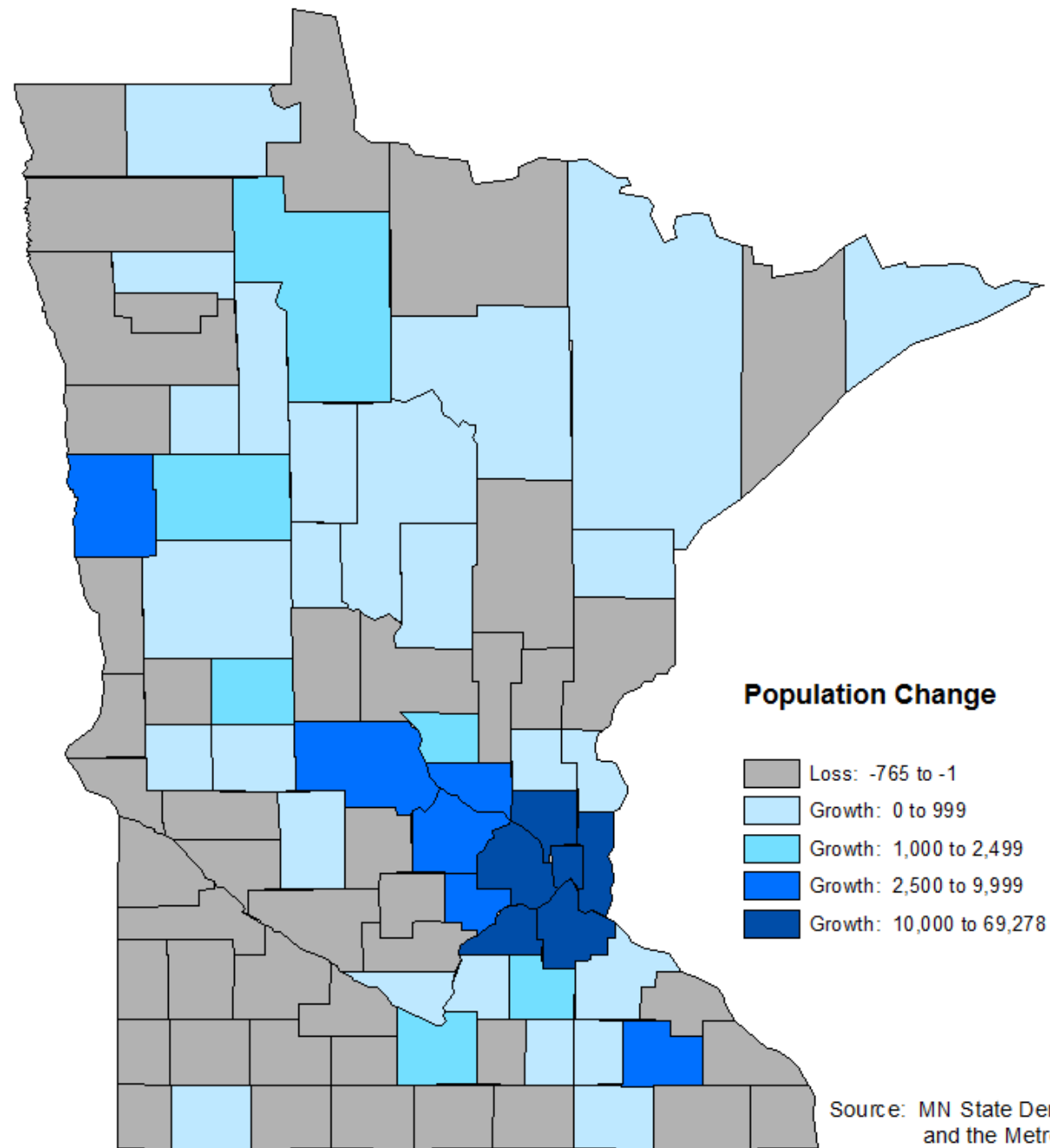




# Population Growth in Minnesota

2010-2019

- 80% of the state's growth occurred in the Twin Cities 7-county metro.
- Hennepin and Ramsey added 153,000 jointly, 46% of the state's growth.

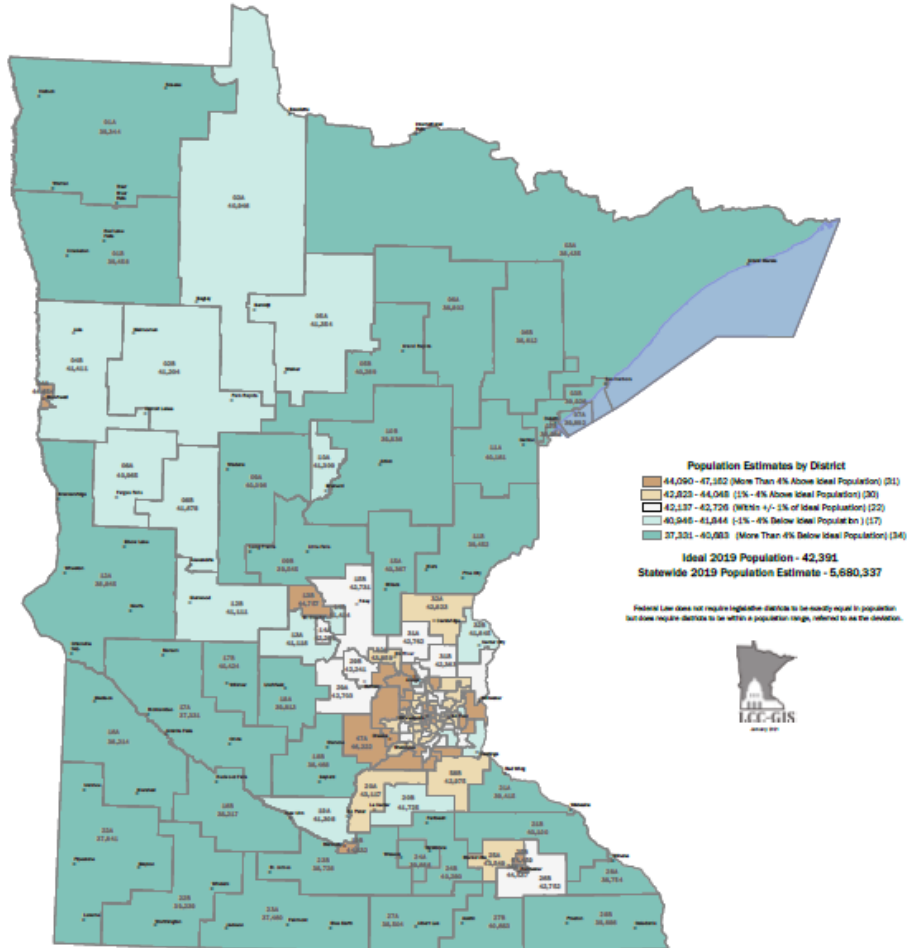


Source: MN State Demographic Center  
and the Metropolitan Council

Maps shows 2010-2015

# Redistricting of State Legislative Districts

2019 Minnesota House District Population  
Estimates from the Minnesota State Demographic Center



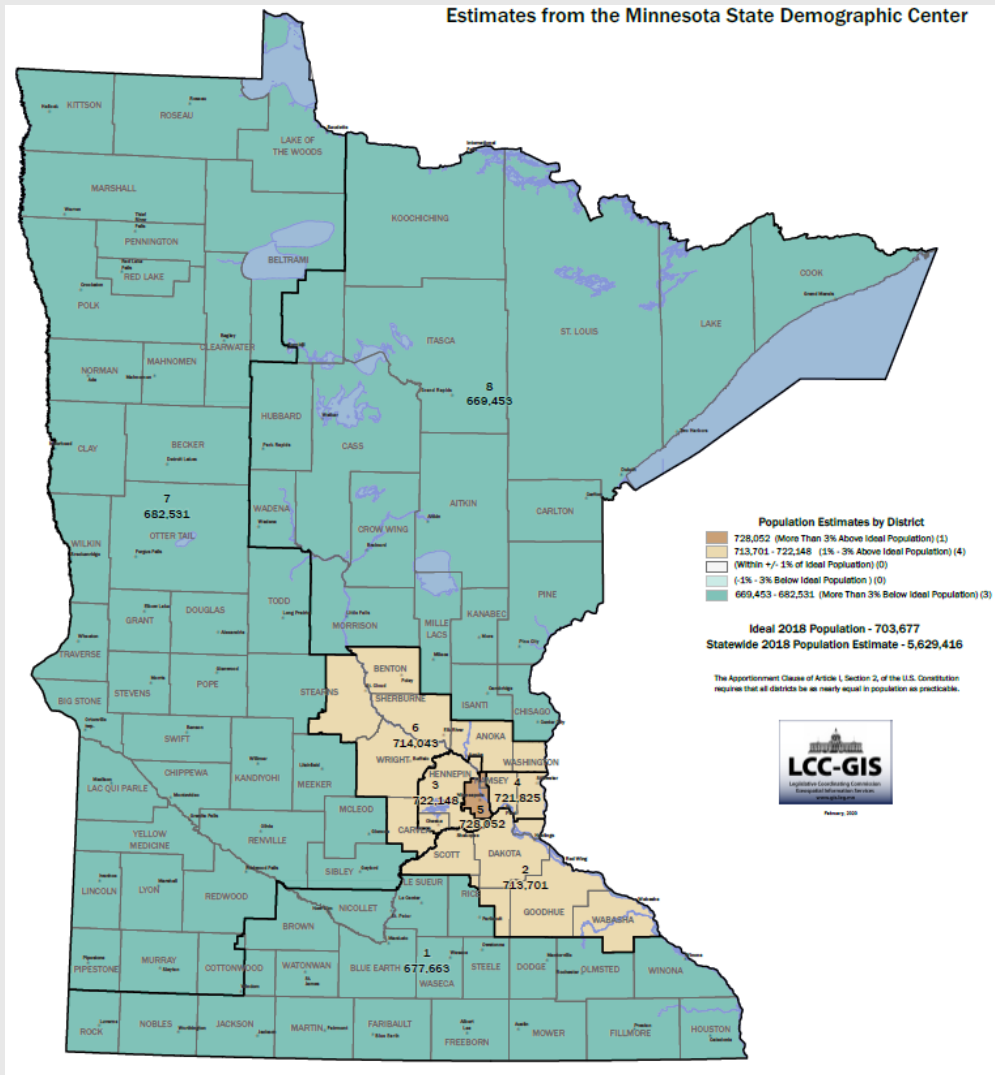
## Population Estimates by District

- 44,090 - 47,162 (More Than 4% Above Ideal Population) (31)
- 42,823 - 44,048 (1% - 4% Above Ideal Population) (30)
- 42,137 - 42,726 (Within +/- 1% of Ideal Population) (22)
- 40,946 - 41,844 (-1% - 4% Below Ideal Population) (17)
- 37,331 - 40,683 (More Than 4% Below Ideal Population) (34)

**Ideal 2019 Population - 42,391**

**Statewide 2019 Population Estimate - 5,680,337**

# Redistricting of Congressional Districts



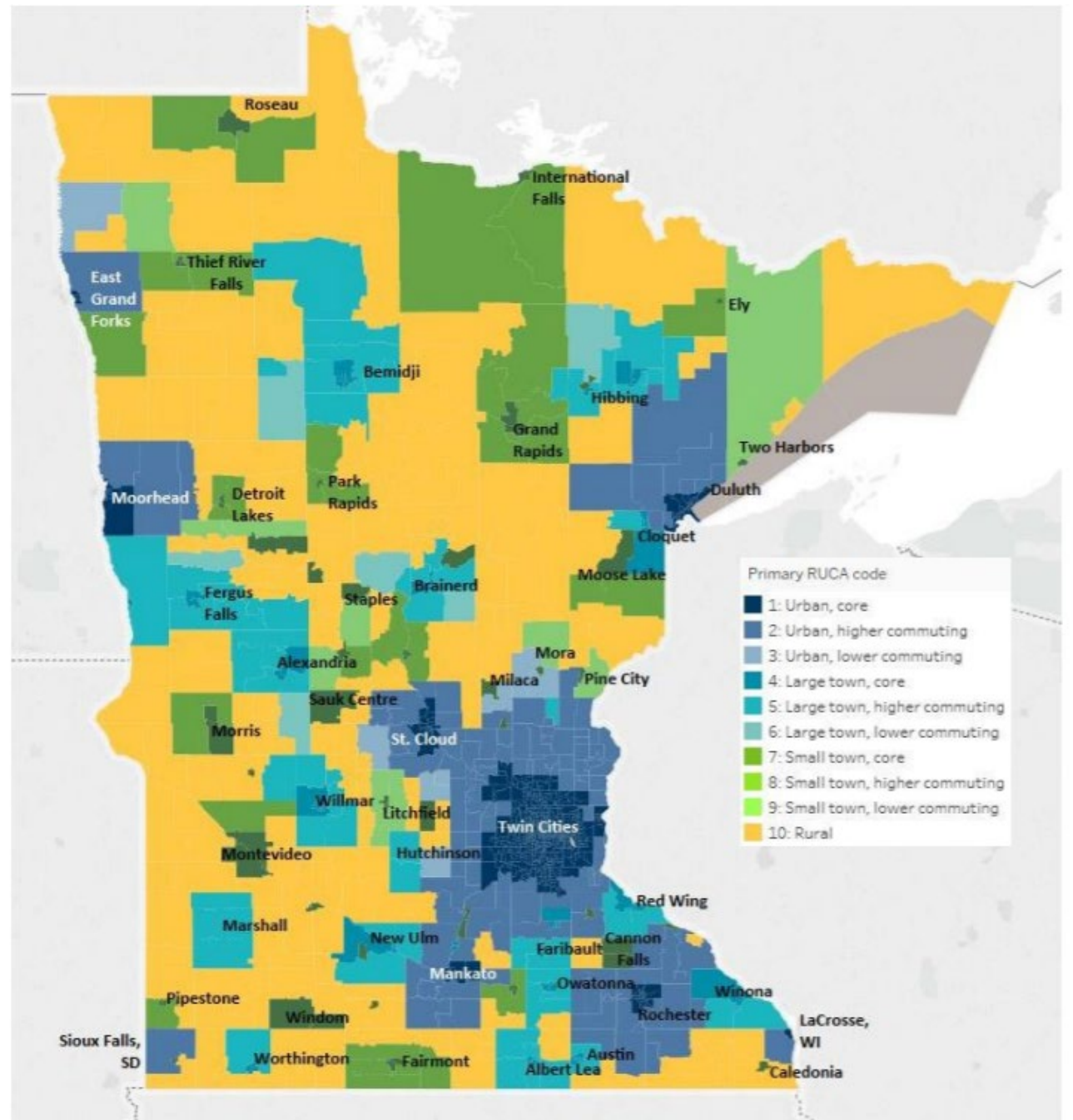
District	Square Miles	Population 2010	Population 2019	Change 2010-2019
1	12,177	662,991	683,810	20,819
2	2,530	662,991	719,567	56,576
3	583	662,990	730,942	67,952
4	365	662,990	734,708	71,718
5	142	662,991	733,792	70,801
6	3,036	662,990	727,367	64,377
7	35,388	662,991	686,188	23,197
8	32,696	662,991	663,966	975

Districts 1, 7 and 8 will need to expand in geographic size to meet ideal population size of ~ 710,000



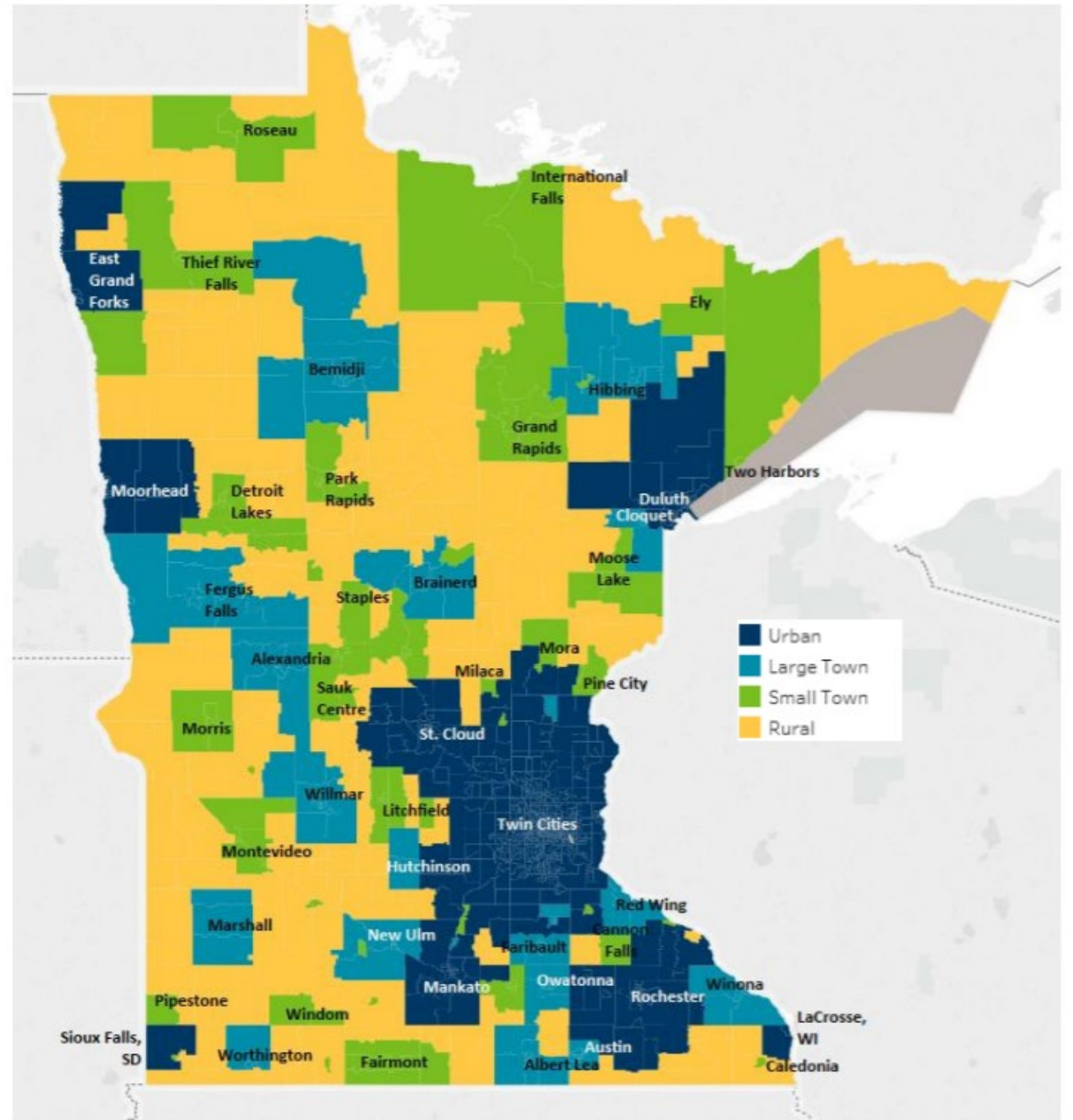
## Rural Urban Commuting Areas (RUCAS)

The USDA nicely defines Minnesota's ~1,300 census tracts into 10 urban-rural categories based on population size, proximity to larger urban areas, and commute patterns

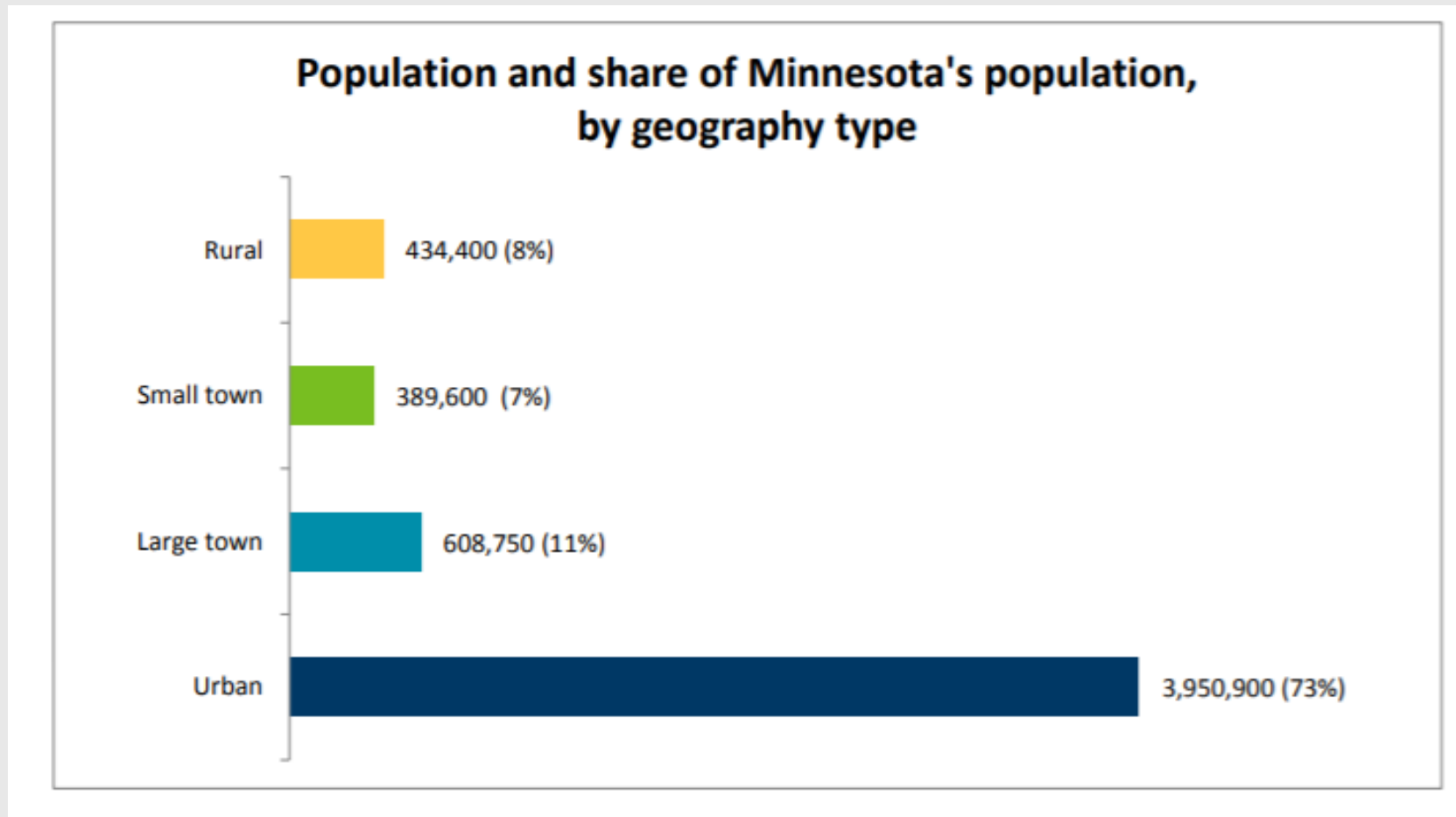


## Rural Urban Commuting Areas (RUCAS)

Collapsing 10 RUCA codes into 4 categories



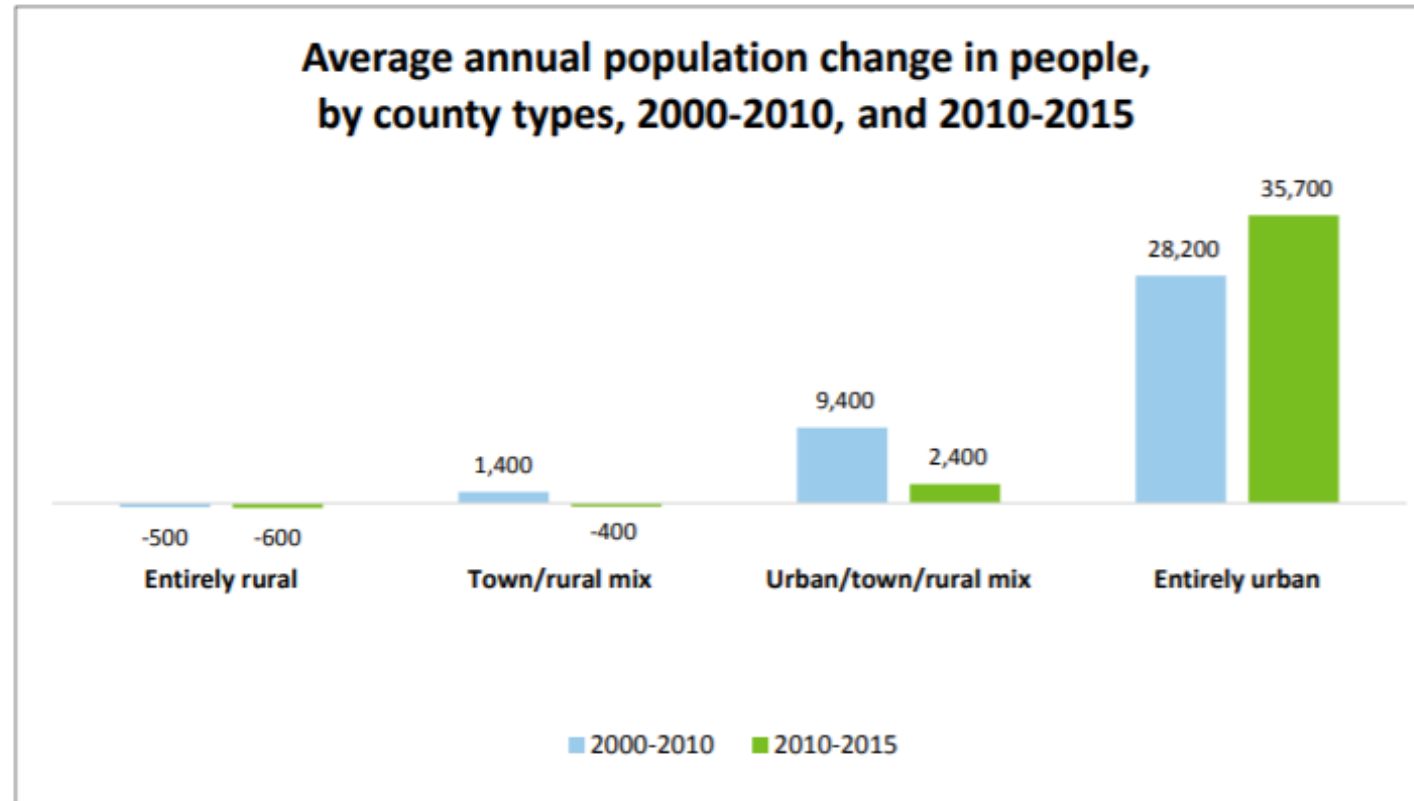
# 73% of Minnesotans live in an urban area, 2015



Source: Minnesota State Demographic Center, Greater Minnesota: Revised and Revisited, 2017

# Counties that are rural are stable or declining in population slowly

Figure 24





## Computer and Internet Use in Minnesota

# American Community Survey Data Computer and Internet Use

**8** At this house, apartment, or mobile home – do you or any member of this household own or use any of the following types of computer?

- |  | Yes                      | No                       |
|--|--------------------------|--------------------------|
| a. Desktop or laptop                               | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Smartphone                                      | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Tablet or other portable wireless computer      | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Some other type of computer<br><i>Specify</i> ↘ | <input type="checkbox"/> | <input type="checkbox"/> |

**9** At this house, apartment, or mobile home – do you or any member of this household have access to the Internet?

- Yes, by paying a cell phone company or Internet service provider
- Yes, without paying a cell phone company or Internet service provider → *SKIP to question 11*
- No access to the Internet at this house, apartment, or mobile home → *SKIP to question 11*

**10** Do you or any member of this household have access to the Internet using a –

- |  | Yes                      | No                       |
|--|--------------------------|--------------------------|
| a. cellular data plan for a smartphone or other mobile device?   | <input type="checkbox"/> | <input type="checkbox"/> |
| b. broadband (high speed) Internet service such as cable, fiber optic, or DSL service installed in this household? | <input type="checkbox"/> | <input type="checkbox"/> |
| c. satellite Internet service installed in this household?   | <input type="checkbox"/> | <input type="checkbox"/> |
| d. dial-up Internet service installed in this household?   | <input type="checkbox"/> | <input type="checkbox"/> |
| e. some other service?<br><i>Specify service</i> ↘   | <input type="checkbox"/> | <input type="checkbox"/> |

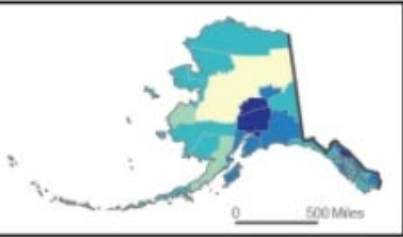
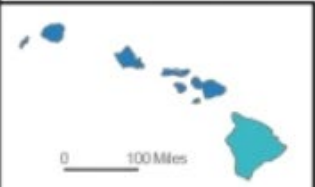
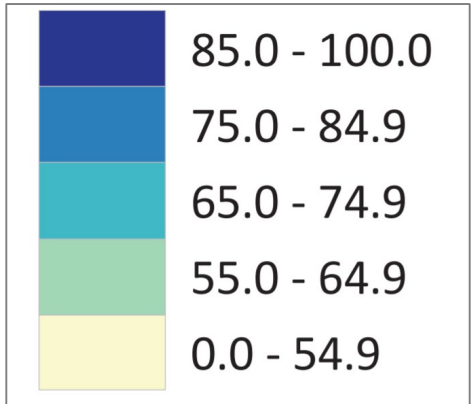
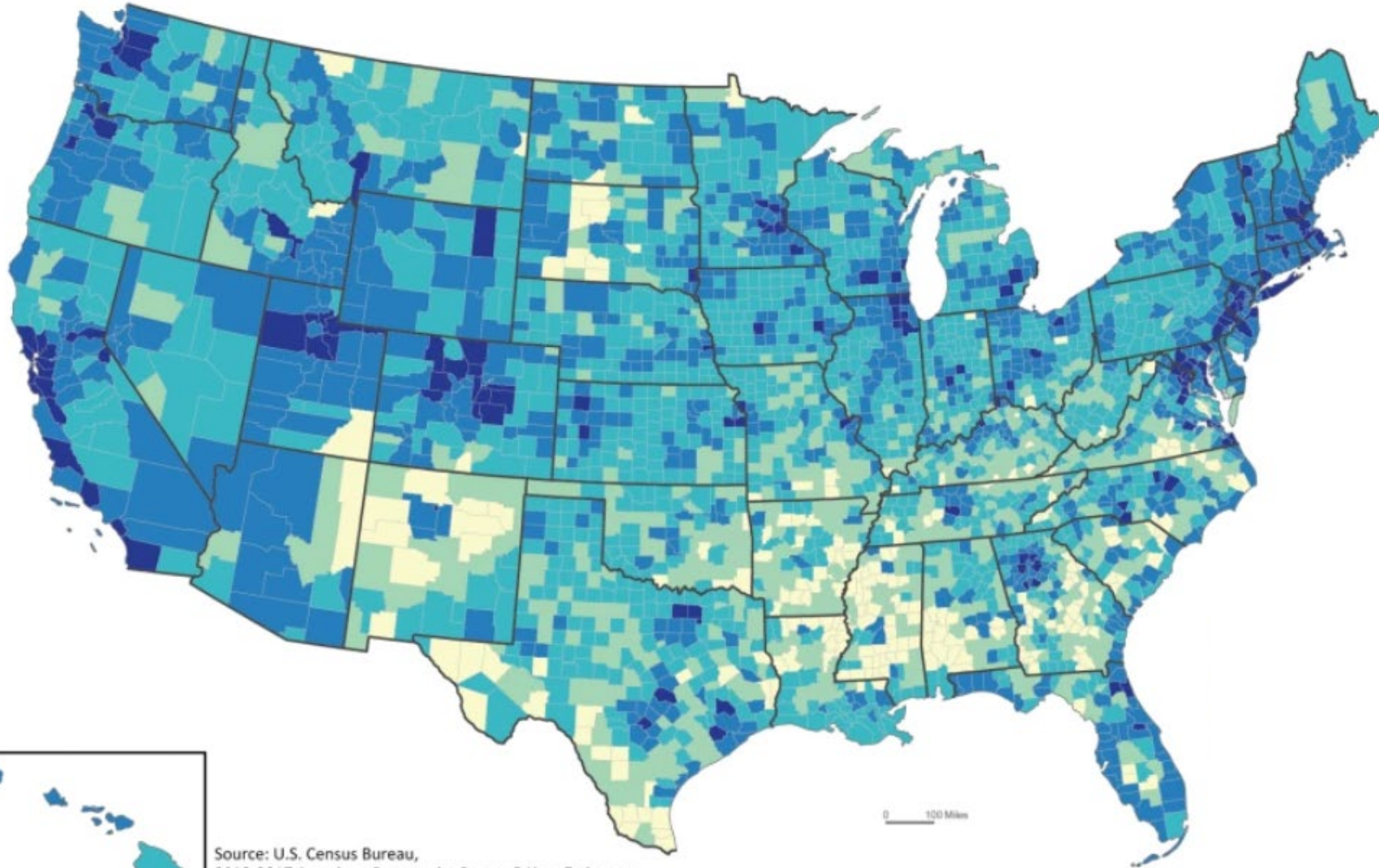
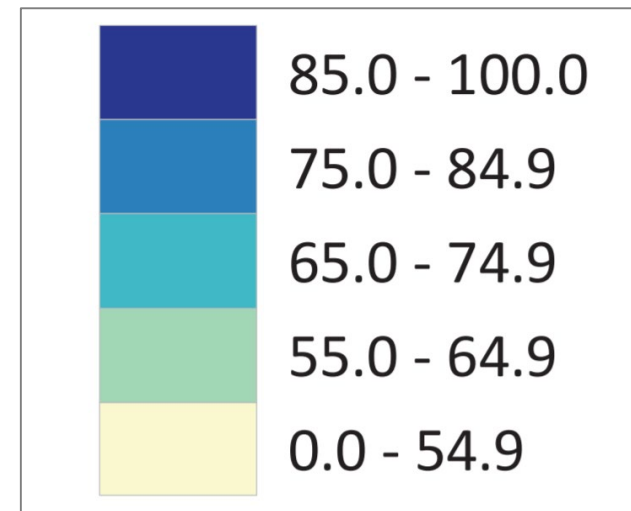
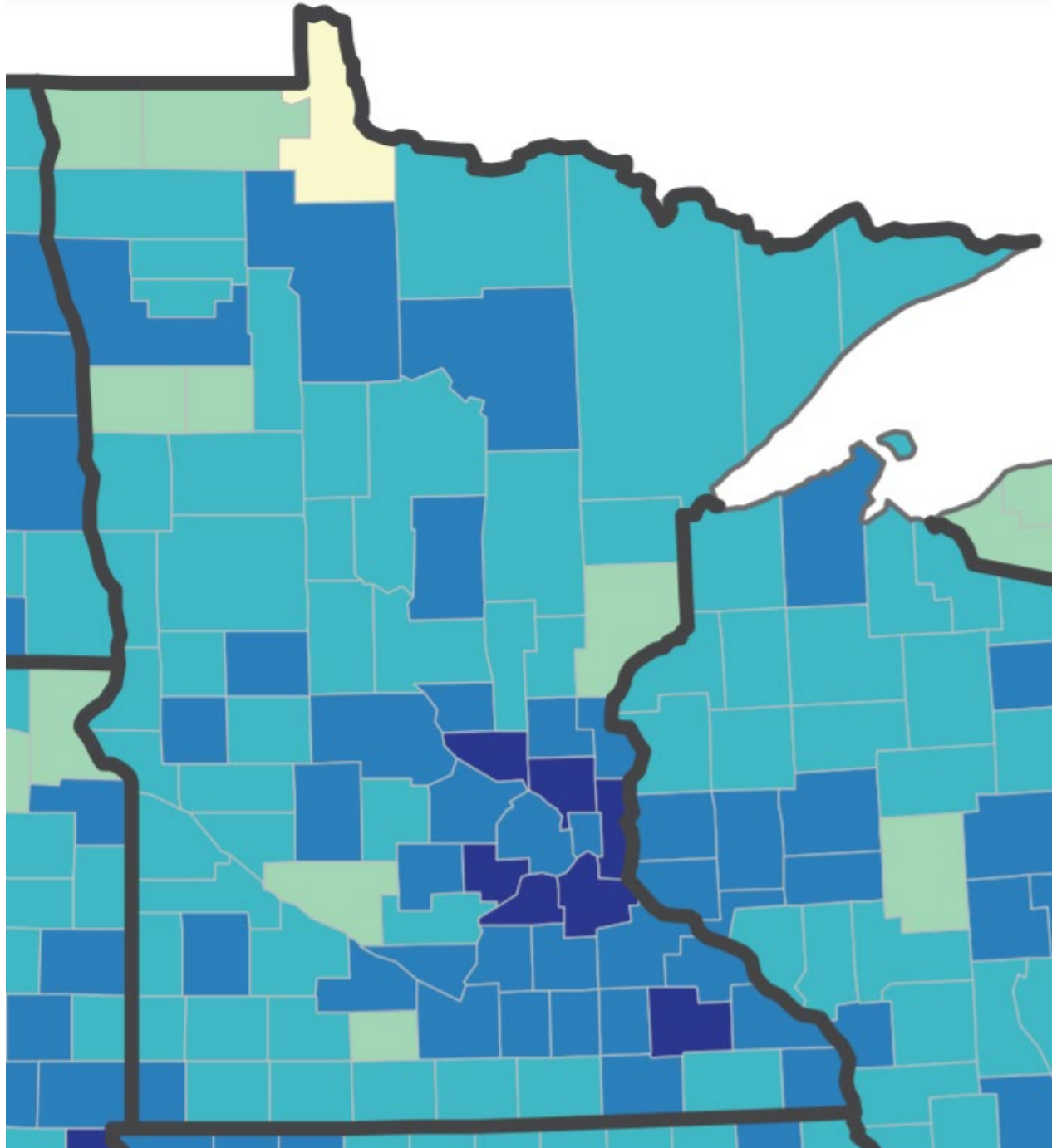


Figure 1.  
**Percentage of Households With  
Subscription to Any Broadband Service:  
2013-2017**

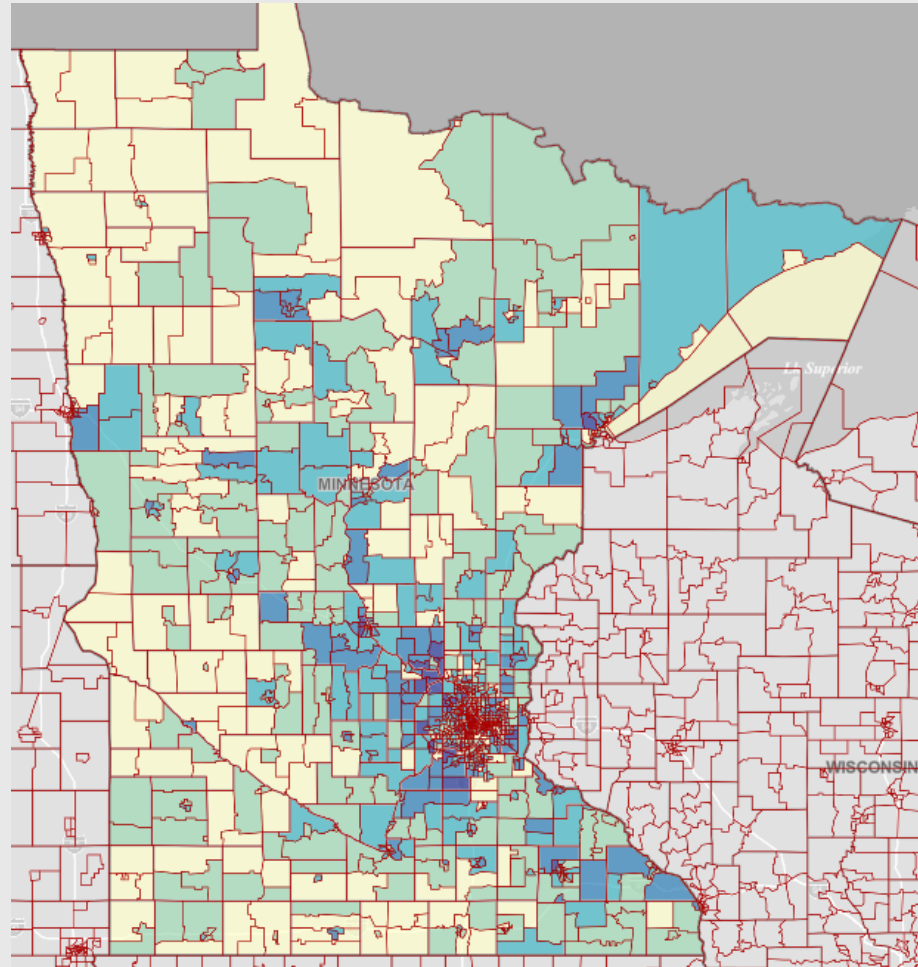


Source: U.S. Census Bureau,  
2013-2017 American Community Survey 5-Year Estimates  
For more information on the American Community Survey, see <[census.gov/acs](http://census.gov/acs)>.

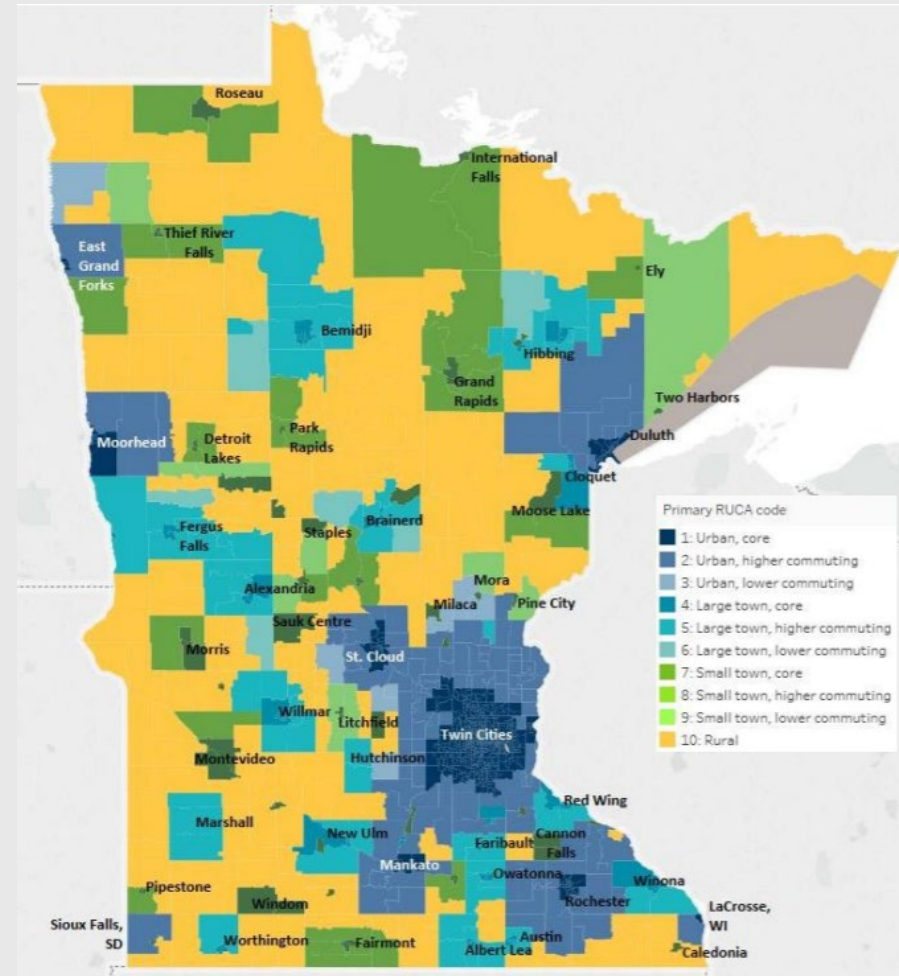




# Compare broadband subscriptions and rural-urban geographies in Minnesota



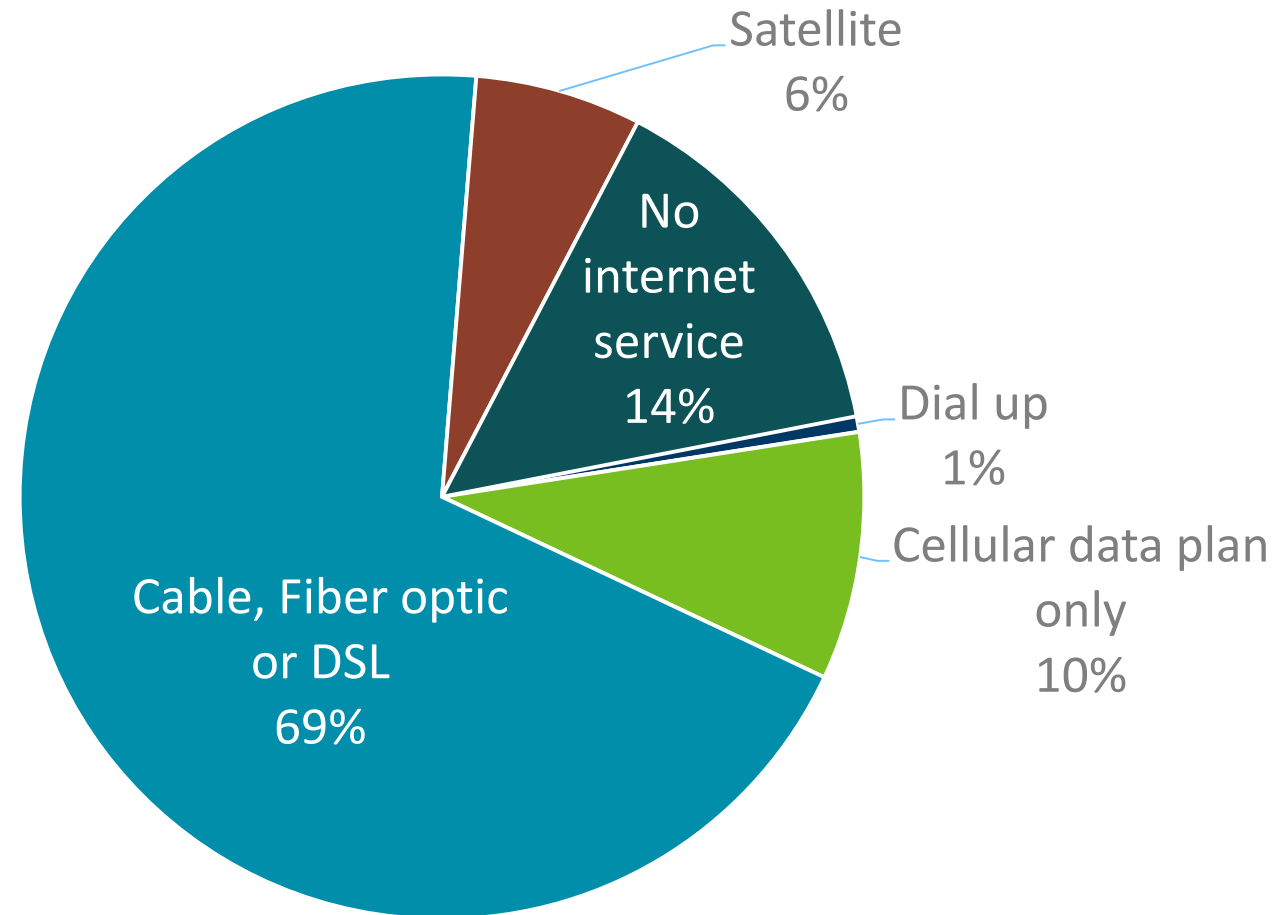
Percent with Broadband Subscription  
2015-2019



Urban-Rural Geography of Minnesota  
2010

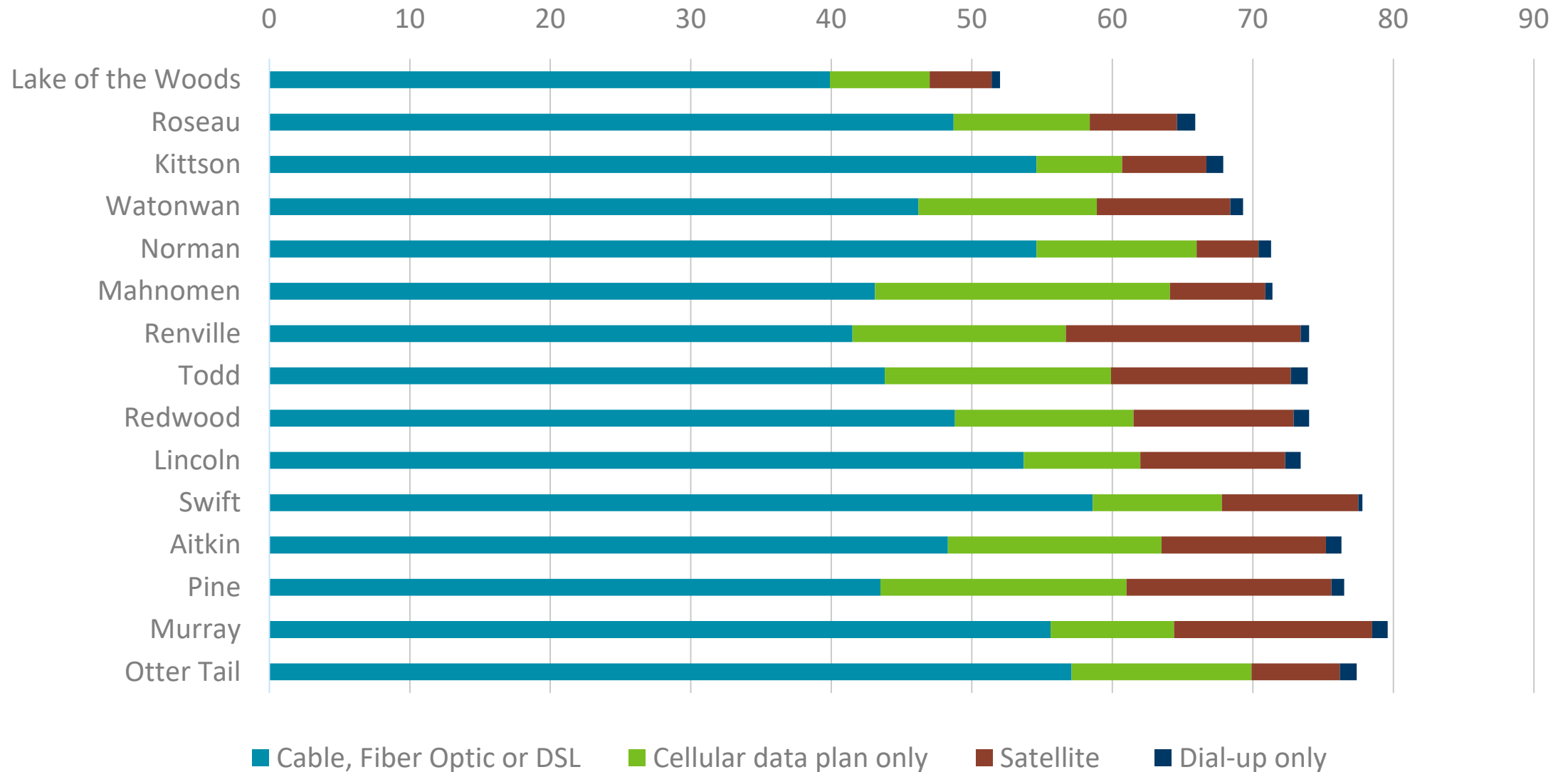
# Quick Facts about Minnesota Households' Internet Access

Minnesota Households' Internet Service



Source: U.S. Census Bureau, 2015-2019 American Community Survey

# Counties with the 15 lowest rates of internet access by type of internet subscription



Source: U.S. Census Bureau, 2015-2019 American Community Survey

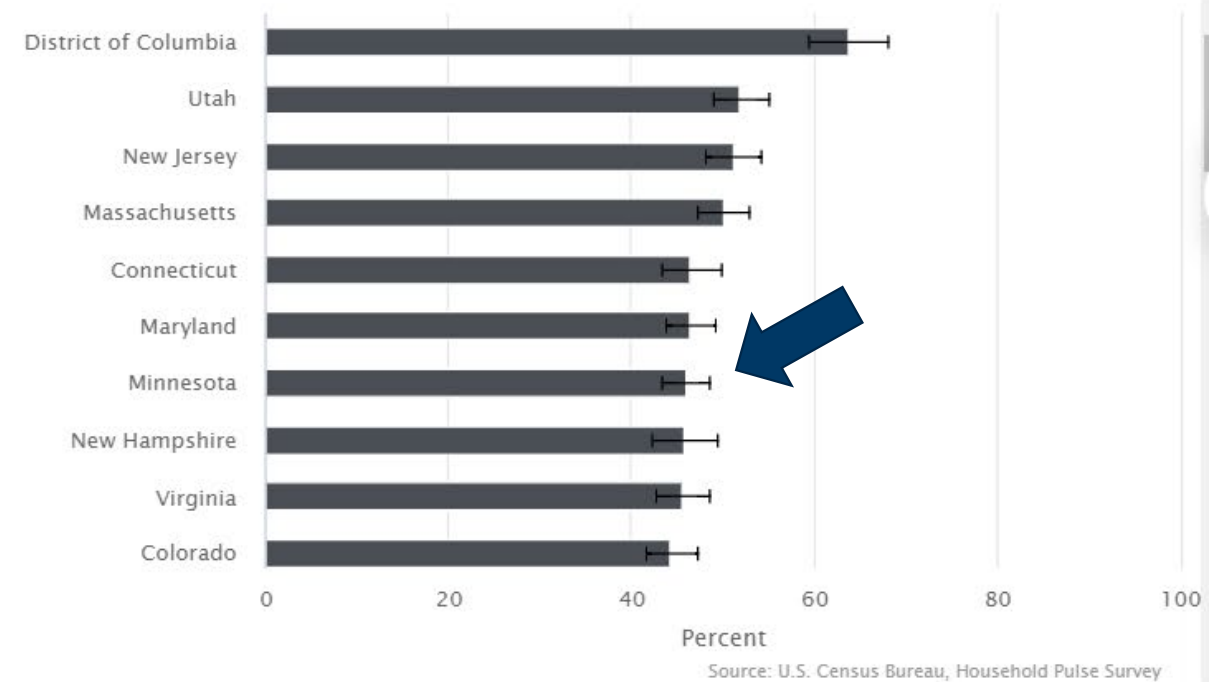
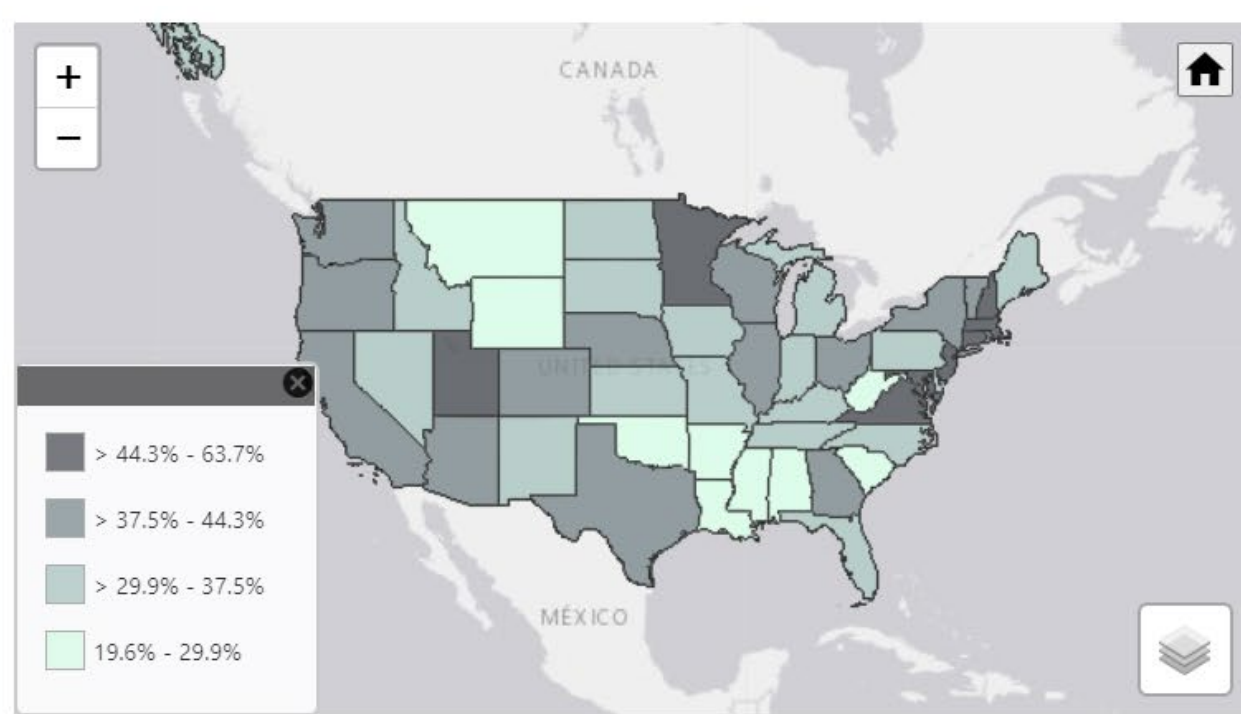
# Disparate access to broadband by age, race, and education

Percent of Household Population with Broadband Internet



Source: U.S. Census Bureau, 2015-2019 American Community Survey

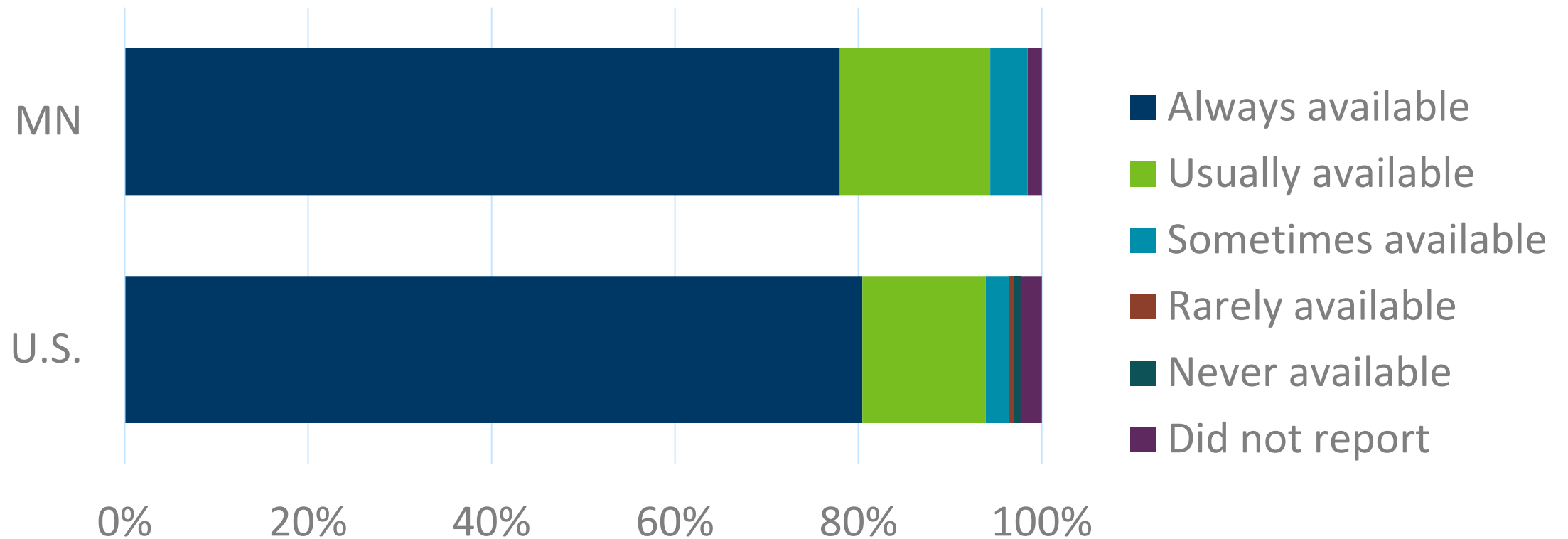
# In 46% of Minnesota households, at least one person teleworked because of COVID-19, compared to 39% nationally



Source: U.S. Census Bureau, Household Pulse Survey, Week 27, March 2021

# For the majority of school children, the internet is available for educational purposes

Households with children by availability of internet for educational purposes, May 2021



Source: U.S. Census Bureau, Household Pulse Survey, Week 29, May 2021

# In Population Studies: Studies on broadband and population growth show somewhat mixed results

children highly educated women tend to increase time spent with broadband (Billari, Giuntella and Stella, 2019)

and reduces depopulation of remote areas (Lehtonen, 2020)

somewhat mixed. The impact of broadband growth was found to be minimal (Soder, 2009)

# Impact of Broadband on Economic Development in Rural Areas



Study examined data from members of NTCA—The Rural Broadband Association (NTCA)

Aggregated employment numbers from customer firms served by NTCA

In MN in 2017:

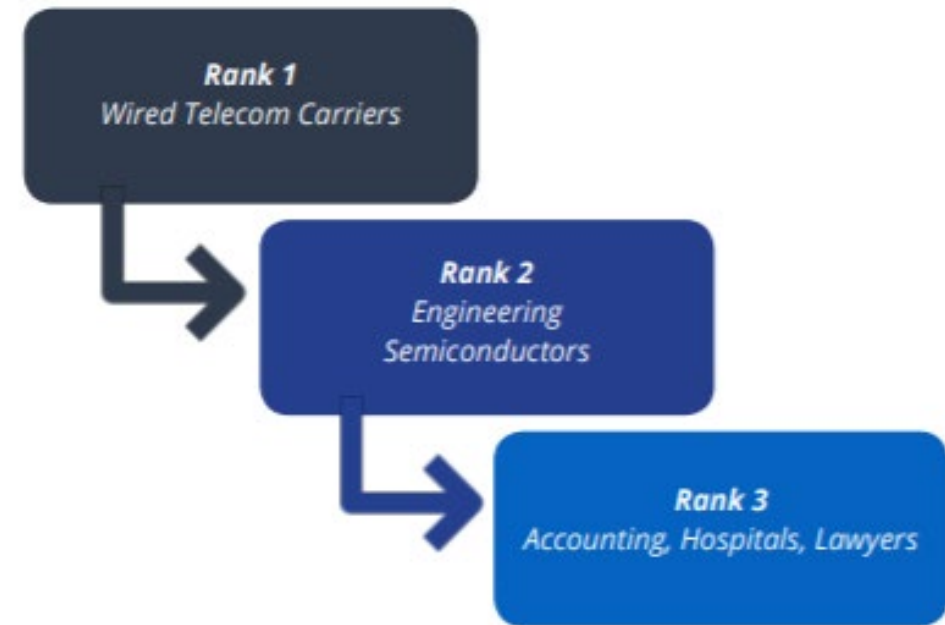
- Broadband in rural areas created and supported 2,039 jobs
- Supported \$225,674,665 in sales/economic output
- \$56,410,227 in salaries

Source: Purdue University, Center for Regional Development, August 2019



# Broadband ripple effects through rural areas

Industry	Rank One	Rank Two	Rank Three	Rank Four	Rank Five
Administrative Management and General Management Consulting Services	0	0	0	0	1
Advertising Agencies	0	0	1	1	0
Cable and Other Subscription Programming	1	9	1	1	2
Colleges, Universities and Professional Schools	0	0	0	1	2
Commercial Banking	0	0	0	1	0
Computer Systems Design Services	1	0	0	0	0
Corporate, Subsidiary and Regional Managing Offices	1	0	0	1	3
Engineering Services	0	9	20	7	4
Gasoline Stations With Convenience Stores	0	1	0	0	0
General Medical and Surgical Hospitals	1	14	12	11	3
Hotels (except Casino Hotels) and Motels	0	0	1	0	1
Independent Artists, Writers and Performers	0	0	0	1	1
Lessors of Residential Buildings and Dwellings	0	0	0	0	1
Motion Picture and Video Production	1	3	3	4	5
Motion Picture Theaters (except Drive-Ins)	1	1	1	0	3
Offices of Certified Public Accountants	0	2	4	13	8
Offices of Lawyers	0	0	0	0	6
Offices of Physicians (except Mental Health Specialists)	0	0	0	1	1
Other Electronic Component Manufacturing	0	1	0	0	0
Pharmacies and Drug Stores	0	0	1	0	0
Postal Service	0	0	0	1	0
Printed Circuit Assembly (Electronic Assembly) Manufacturing	0	0	0	1	0
Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	0	0	0	0	1
Religious Organizations	0	0	0	0	1
Semiconductor and Related Device Manufacturing	0	1	0	0	1
Sports Teams and Clubs	0	1	0	0	0
Wired Telecommunications Carriers	38	1	0	0	0
<b>Total Unique Industries</b>	<b>7</b>	<b>7</b>	<b>3</b>	<b>6</b>	<b>5</b>



Source: Purdue University, Center for Regional Development, August 2019

# Keep in touch

Email: [demography.helpline@state.mn.us](mailto:demography.helpline@state.mn.us)

Website: [mn.gov/demography](http://mn.gov/demography)

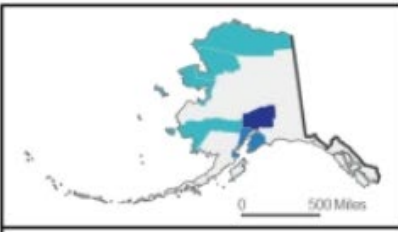


Figure 3.  
**Percentage of Households With Subscription to Any Broadband Service in Mostly Rural Counties: 2013-2017**

