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The State of Rural Minnesota, 2019

January 2019

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Each year, the Center for Rural Policy and Development provides a brief update on various economic and demographic data in rural Minnesota. As policy discussions concerning rural Minnesota unfold, it is important to understand the past, present, and potential futures of rural regions. This report provides historical data points, illustrating how rural conditions have changed and where they are at now, making for healthy discussions about the current demographic and economic vitality of these areas.

Rural Atlas Online

To supplement and support the annual State of Rural Minnesota report, we also maintain and regularly update an online, interactive collection of maps and charts that shows readers this data broken down in different ways. In addition to this report with its high-level analysis, our Atlas of Minnesota Online provides more interactive maps and charts showing a variety of data on demographics, the economy and more at the state, county, planning region, and economic development region levels. Visit www.ruralmn.org/rural-atlas to view the site.

Summary

People

Currently, population growth in Greater Minnesota is largely concentrated in the larger metropolitandesignated counties such as Blue Earth and Olmsted, the north central lakes area such as Itasca, Cass and Hubbard, and in counties where there is a concentration of non-white populations, such as Kandiyohi and Mower.

Meanwhile, the most urban areas of the state, including the Twin Cities, have seen a significant increase in annual population gains compared to the previous decade, primarily due to a significantly larger international migration into these areas. Unless a similar migration trend of either growing domestic or international in-migration is seen in rural areas, most of rural Minnesota is projected to continue losing population over the next 20 to 30 years.

Also, one aspect of these trends that continues to get overlooked is the in-migration of 30- to 49-yearolds across Greater Minnesota. Many rural development organizations are recognizing this trend and are developing initiatives that focus on recruitment and retention in this age group.

Economic Vitality

There are few significant differences in employment when comparing urban and rural areas. Education and health services along with trade, transportation, and utilities employ nearly 50% of the labor force in most of our counties no matter how rural. Rural counties, however, have a higher percentage of people employed in agriculture and government jobs or are self-employed, while the Twin Cities area has a significant share of people employed in the professional and business services sector.

There continues to be significant opportunity for employment in regions outside the seven-county metro. The highest job vacancy rates and largest increases in wages for job vacancies have occurred in Greater Minnesota.

Although the largest gains in earnings per job have occurred outside of the most urban counties, the growth hasn't been enough to close the gap between this region and the rest of the state. The agriculture sector experienced enormous growth in earnings between 2008 and 2012, but low earnings over the last four years have erased those gains.

Agriculture

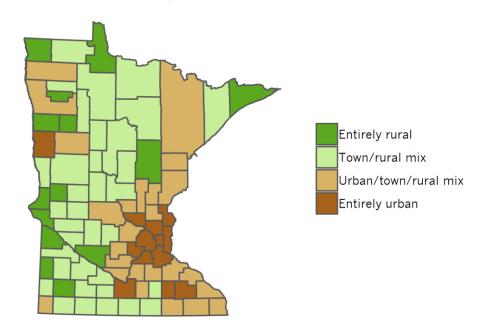
Although agricultural land values are beginning to decline since their peak in 2014, they continue to be historically high, with the largest increases in land value occurring along the western side of the state. Meanwhile, low commodity prices and increases in the costs of production have created a situation where many farmers have a negative net income. Even when including government payments, which typically represent 2% to 3% of total farm income, most farmers are barely getting by.

Rural-Urban Commuting Area regions

Everyone has their own idea and definition of "rural" based on their perceptions—one person's small town is another person's weekend city shopping hub. However, anyone traveling across our state can agree that most of Minnesota can't be categorized as strictly rural or metropolitan. Most places are in between.

To develop a better understanding of trends across Minnesota, this report will be using two different breakdowns: a) maps highlighting data at the individual county level, and b) county-level data aggregated into four categories developed by the Minnesota State Demographer: entirely rural; town/rural mix; urban/town/rural mix; and entirely urban (Figure 1). As the names suggest, counties have been grouped based on the degree of their "ruralness" or "urbanness." The appendix provides more complete definitions for each of these categories.

The number of counties within each category are: a) entirely rural: 14; b) town/rural mix: 35; c) urban/town/rural mix: 25; and d) entirely urban: 13.



County categorizations based on rural-urban commuting areas

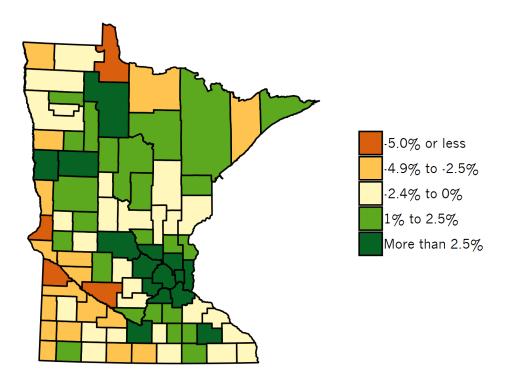
Figure 1: The MN State Demographic Center analyzed census tracts in each county to determine their category. Data: MN State Demographic Center

People

While the state's most rural counties are still experiencing annual population *declines*, the rest of the state is seeing growth slowing, except in entirely urban counties, which since 2010 have seen a significant increase in annual population gains. Meanwhile, although Minnesota has experienced an average annual net loss in domestic migration, urban counties have overcome that loss through significantly higher international migration.

Population gains slowing throughout Greater Minnesota while the most rural areas see declines continuing

Currently, population growth outside of the seven-county metro is largely concentrated in metropolitan counties such as Blue Earth and Olmsted, the north central lakes area (for example, Itasca, Cass and Hubbard), and in counties where there is a concentration of non-white populations, such as in Kandiyohi and Mower (Figure 2).



Population change from 2010 to 2017

Figure 2: Population gains outside of the seven-county metro are in "recreational" counties and where non-white populations are concentrated. Data: U.S. Census Decennial Census & American Community Survey 5-year

All of these trends are influencing population projections. The counties expected to continue experiencing population increases over the next 20 to 30 years are in areas with higher percentages of non-white populations and have a higher number of people migrating in from outside the United States.

Despite all of these trends, though, one aspect that continues to get overlooked is the in-migration of 30- to 49-year-olds across Greater Minnesota. Many rural development organizations are recognizing this trend and are developing initiatives that focus on the recruitment and retention of this age group.

In urban counties, international in-migration makes up for domestic out-migration

A relatively significant change in Greater Minnesota's population is occurring across the state, but that change varies depending on how rural or urban a county is. As Figure 3 shows, the more urban a county is, the more likely it is to have seen continued population growth, but between 2010 and 2017, that growth has slowed compared to the decade 2000-2010. The exception is in entirely urban counties, where growth in the current decade has continued to accelerate. The state's most rural counties, however, have continued to see population loss on average, but the rate of loss has stayed fairly steady.

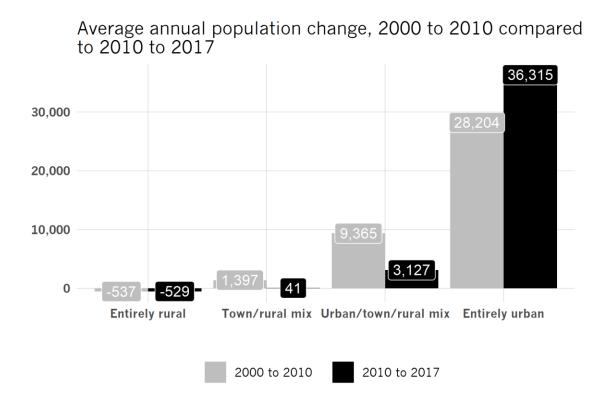
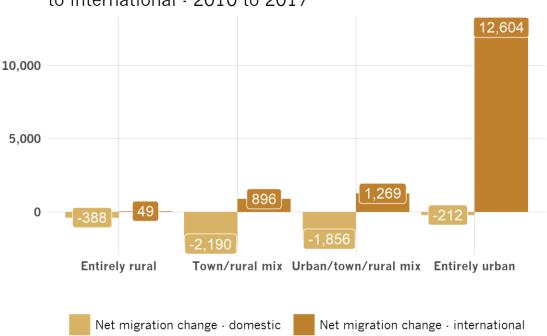


Figure 3: The town/rural and urban/town/rural mix county groups are seeing significantly lower annual population gains from 2010 to 2017 than they did from 2000 to 2010. Data: U.S. Census Bureau, Population Estimates

One of the primary differences in any of the rural county groups compared to the most urban areas is the lack of international migration. All regions are experiencing an annual net loss in domestic migration, but the loss in urban areas is significantly less and has been overcome by huge gains in international migration (Figure 4).



Average annual migration change, domestic compared to international - 2010 to 2017

Figure 4: Although all regions have experienced an annual loss in domestic migration, entirely urban areas overcome this with significant gains through international migration. Data: U.S. Census Bureau, Population Estimates Without international migration, natural change can barely make up for out-migration from rural counties. In addition, counties in the entirely rural group continue to see more deaths than births, meaning those counties are experiencing on average both outmigration and negative natural change (Figure 5).



Average annual components of population change, 2010 to 2017

Figure 5: Natural change can barely overcome outmigration in counties with a town/rural mix and urban/town/rural mix. Entirely rural areas experience an overall outmigration and more deaths than births (negative natural change). Data: U.S. Census Bureau, Population Estimates

Population projections show gains in counties with non-white populations

Although the nonwhite and Latino populations have increased across all of Minnesota since 1970, that population has exploded in entirely urban counties, going from 2% of the population in 1970 to 22% in 2017. Today, that percentage averages between 7% and 8% across the other county groups (Figure 6).

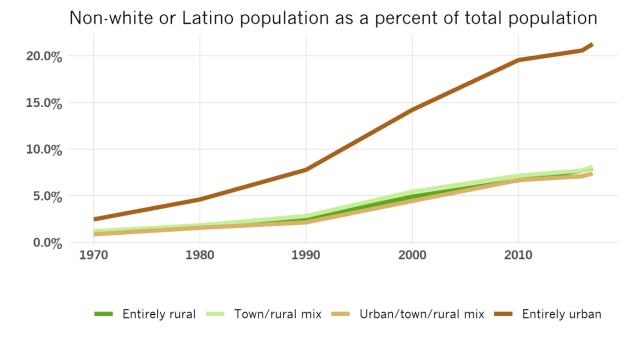


Figure 6: Urban areas have experienced significantly more growth in non-white populations. Data: U.S Census, Decennial Census & ACS 5-year

In Greater Minnesota, nonwhite and Latino populations tend to be concentrated in a few areas, such as St. Cloud, Worthington, and Rochester, while the demographics in the rest of the region have stayed largely unchanged. The counties where these populations are concentrated in Greater Minnesota are not only the same locations that are currently experiencing population gains (compare Figure 2 and Figure 7), but are also projected to continue seeing population gains (Figure 7 and Figure 8). However, Southwest Minnesota is an outlier. Despite the higher concentration of non-white population, they are still projected to experience a decline due to the significantly higher percentage of older people and the net loss in domestic migration.

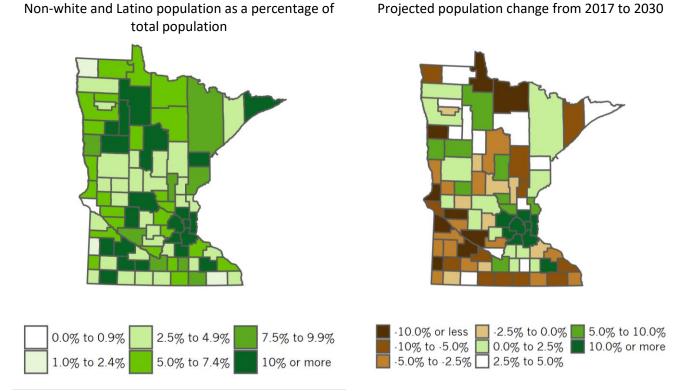


Figure 7: Non-white and Latino populations live in concentrated communities across Greater Minnesota. Data: U.S. Census Bureau, Decennial Census & ACS 5-year Figure 8: Population projections show gains in counties that are typically known as "recreational" or have a concentration of non-white populations. Data: MN State Demographic Center | U.S. Census Bureau, ACS 5-year

People recruitment: in-migration of 30- to 49-year-olds

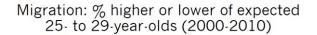
One aspect of migration data that can be hidden is the trend in migration by age group. Even though most rural areas have been experiencing an overall out-migration, it is not always a loss among all age groups. In fact, many rural counties see an in-migration of people between the ages of 30 and 49. In lakes regions, that age range extends out to include even older households as they retire and move to lake homes.

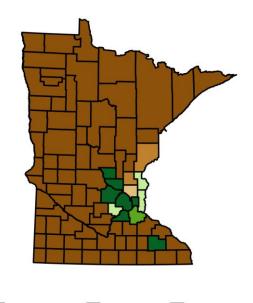
Many rural development organizations, county boards, and municipal organizations are participating in "people recruitment" strategies to take advantage of this migration pattern, which is well documented by <u>University of Minnesota Extension.</u>¹

Figures 9 and 10 provide a glimpse into this trend. For any location in the state, it can be expected that if all conditions stay the same, the number of 25- to 29-year-olds counted in the 2010 census will be equal to the number of 15- to 19-year-olds counted in the 2000 census—the same people, just ten years older. All conditions do not stay the same, however: at the end of that ten-year period there may be more or fewer people than should be expected for that age group—hence an in-migration or out-migration.

Such is the case in Minnesota. Between 2000 and 2010, almost all rural counties experienced an outmigration of people who would be 25 to 29 years old in 2010 (Figure 9). They had migrated away somewhere in the previous ten years. But while this age group was migrating out, the next age group older, those entering their early 30s in 2010, were migrating into these rural counties (Figure 10). The question now, of course, is whether the 2020 Census will show this trend continuing.

¹ Find more on this research at https://extension.umn.edu/economic-development/rural-brain-gain-migration





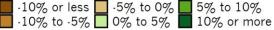
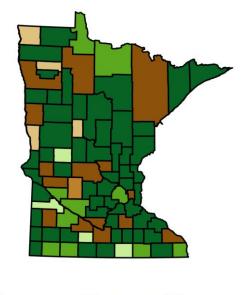


Figure 9: The percent change in the number of 25- to 29-year-olds between 2000 and 2010. All counties outside the Twin Cities area except Olmsted and Benton saw an out-migration of 25- to 29-year-olds. Data: U.S. Census Bureau Decennial Census Migration: % higher or lower of expected 30- to 34-year-olds (2000-2010)



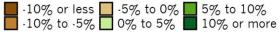


Figure 10: The percent change in the number of 30- to 34-year-olds between 2000 and 2010. Rural counties saw significant in-migration of 30- to 34-year-olds. Rural areas tend to see this trend up to 49-year-olds. Data: U.S Census Bureau Decennial Census

Economic vitality

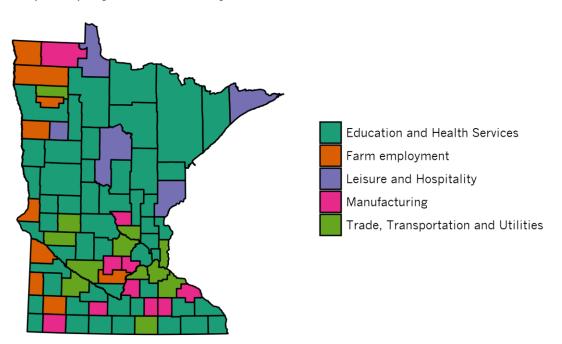
Similar to the state's urban areas, the rural economy is diverse, and while education and health services is the top employment industry in most counties, other industries, such as agriculture in western counties, are also significant. Greater Minnesota also has the highest job vacancy rates and the largest increases in wages for job vacancies.

Rural areas have a higher percentage employed in government, agriculture, and selfemployment

One issue that arises when looking at jobs and employment in rural areas is that many data sources do not capture farm employment due to many of the workers not being covered by typical unemployment insurance programs. The information provided below is a mix of two data sources in an attempt to capture the employment impacts of agriculture. Although mixing two data sources can be problematic, we feel that this more accurately captures the worker-industry environment than just leaving out agriculture altogether.

The following map and tables provide the industries with the highest percentage of workers. The top employing industries are strikingly similar across all of Minnesota, although there are other top employment industries that match regions where we would expect. The highest percentage of

employment continues to be in the education and health services industry across most of Minnesota. However, agriculture becomes more prominent in western counties, leisure and hospitality in a few northern counties, and manufacturing in southern Minnesota (Figure 11).



Top employment industry, 2017

Figure 11: Education and health services is the dominant industry sector across Minnesota in terms of highest employment. Other industries take the top spot where expected, such as agriculture in western counties and leisure and hospitality in some northern counties. Data: Bureau of Labor Statistics, Quarterly Census of Employment and Wages; Bureau of Economic Analysis, Local Area Personal Income and Employment.

Top industries around the state in terms of employment include trade, transportation and utilities; leisure and hospitality; manufacturing; construction; farm employment; and professional and business services. The one significant difference between the regions is the high employment in the professional and business services in the entirely urban group of counties (Table 1).

Table 1: Top five employment industries by planning region. Includes percent of total employment in each industry.Data: Bureau of Economic Analysis, Local Area Personal Income and Employment

Rank	Northwest	Northeast	Central	Seven County	Southwest	Southeast
	Minnesota	Minnesota	Minnesota	Mpls-St Paul	Minnesota	Minnesota
1	Education and	Education and	Education and	Education and	Education and	Education and
	Health	Health	Health Services:	Health Services:	Health Services:	Health
	Services: 24.7%	Services: 31.9%	25.3%	23.0%	23.9%	Services: 32.7%
2	Trade,	Trade,	Trade,	Trade,	Trade,	Trade,
	Transportation	Transportation	Transportation	Transportation	Transportation	Transportation
	and Utilities:	and Utilities:	and Utilities:	and Utilities:	and Utilities:	and Utilities:
	19.3%	18.1%	19.9%	18.7%	18.2%	16.7%
3	Manufacturing: 11.8%	Leisure and Hospitality: 13.0%	Manufacturing: 14.4%	Professional and Business Services: 16.9%	Manufacturing: 16.0%	Manufacturing: 14.9%
4	Leisure and Hospitality: 10.5%	Public Administration: 7.6%	Leisure and Hospitality: 9.5%	Leisure and Hospitality: 9.9%	Farm employment: 10.0%	Leisure and Hospitality: 9.0%
5	Farm employment: 9.3%	Professional and Business Services: 5.9%	Professional and Business Services: 6.1%	Manufacturing: 9.7%	Leisure and Hospitality: 7.2%	Professional and Business Services: 5.6%

Another difference is in the percentage of people employed by government. Government is a major employer in many rural counties, where the need for a baseline of services can be disproportionate to the population. In 2017, 18% of total jobs in the entirely rural county group were in government, 14% in the town/rural group, 13% in the urban/town/rural group, and 10% in the entirely urban county groups, respectively (Figure 12).

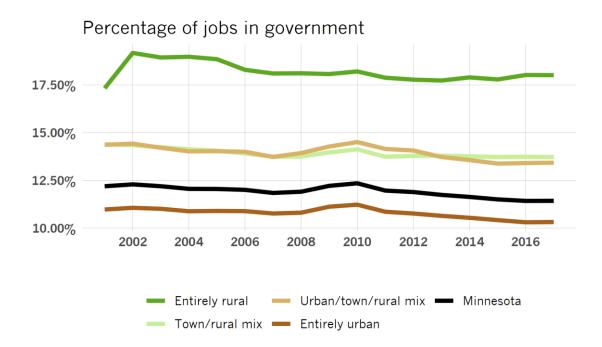


Figure 12: Government jobs include the executive, legislative, judicial, administrative and regulatory activities of federal, state, and local governments and the military, plus government enterprises, which are government agencies that cover a substantial portion of their operating costs by selling goods and services to the public. These types of jobs make up a significantly higher percentage of the jobs outside of the entirely urban areas. Data: Bureau of Economic Analysis, Regional Personal Income and Employment

Percent of jobs in government, 2017

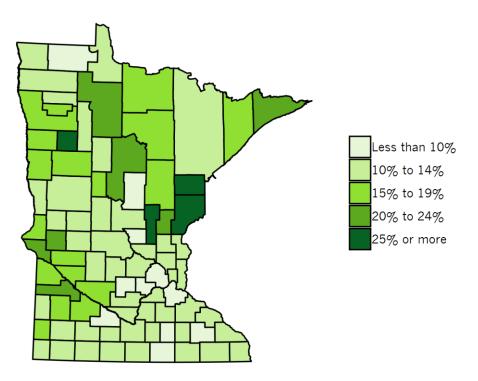


Figure 13: The highest percentage of jobs in government is in northern and western Minnesota. Data: Bureau of Economic Analysis, Local Area Personal Income and Employment

It's no surprise that farming is a significant source of employment for the more rural areas of the state. Western counties have the highest percentage of employment in agriculture, with many over 20%. The largest share is in Marshall County, where 34% of employment are in agriculture. However, in most southern Minnesota counties 10% or fewer of the jobs are in agriculture (Figure 14).

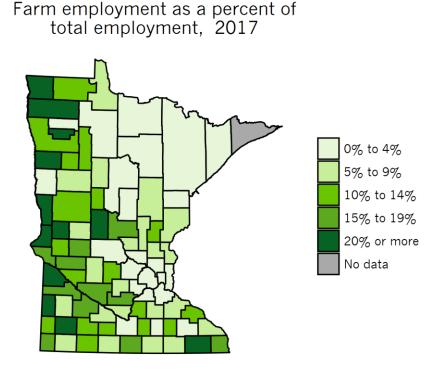


Figure 14: Farm employment is the number of workers engaged in the direct production of agricultural commodities, either livestock or crops, whether as a sole proprietor, partner, or hired laborer. These workers as a percentage of employment typically make up 20% or more of total employment in counties dominated by agricultural. Data: Bureau of Economic Analysis, Local Region Personal Income and Employment & U.S. Census Bureau, ACS 5-year Another notable characteristic of employment in rural regions is the number of non-employers and selfemployed. The state's most rural regions have a higher percentage of these entities in relation to total jobs compared to more urban regions (Figure 15). It's particularly high in northern counties, where nonemployers and self-employed can represent 12% to 18% of total jobs. The highest percentage is in Hubbard County with 18.2%.

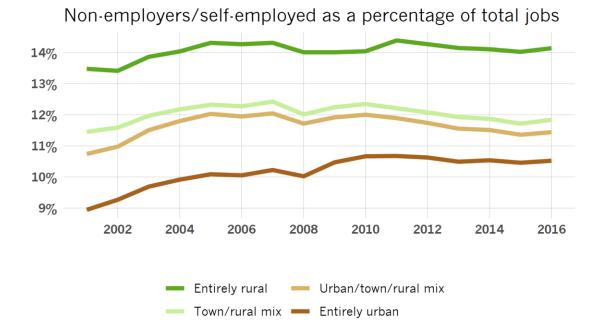


Figure 15: The percentage of the workforce recognized as operating non-employer businesses is significant in most rural areas of Minnesota. Being a non-employer means an individual operates a non-farm business with no employees, has annual business receipts of at least \$1,000, and is subject to federal income tax. Data: Census Bureau, Non-Employer Statistics

Number of self-employed/non-employers as a percent of jobs, 2017

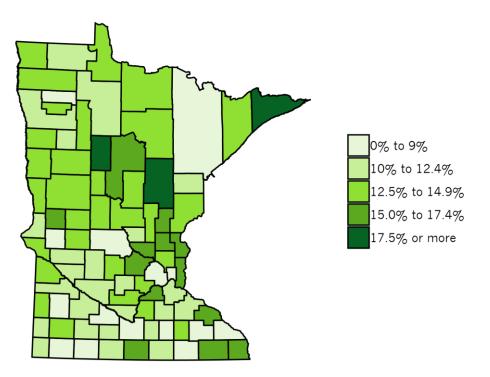


Figure 16: The highest number of self-employed and non-employers as a percentage of total jobs are in northern Minnesota. Hubbard County has the highest percentage with 18.2%. Data: U.S. Census Bureau, Non-Employer Statistics

Gap in earnings continues to grow

"Average earnings by place of work" shows the wages workers make, as opposed to their income, which can include both earned income, such as wages, and unearned income, such as interest and dividends. "Jobs" includes both full-time and part-time jobs (but is not the same as "employment" or "workers," since one worker can hold more than one job at a time) and includes wage and salary jobs, sole proprietorships, and individual general partnerships, but not unpaid family workers or volunteers. This measure can be especially useful when assessing the economic vitality of areas in Greater Minnesota since it takes into account farm and non-employer incomes that are not captured in many other economic measurements.

Figure 16 shows that the gap in average earnings between the entirely urban county group and the other three county groups continues to increase. In the entirely rural county group, earnings experienced a significant increase between 2011 and 2013, largely due to the sharp rise in farm incomes, but that growth has dropped off considerably since then.

Currently, average earnings in the entirely rural county group are 61% of average earnings for the state, while average earnings in the town/rural group and the urban/town/rural mixed group are 71% and 77% respectively.

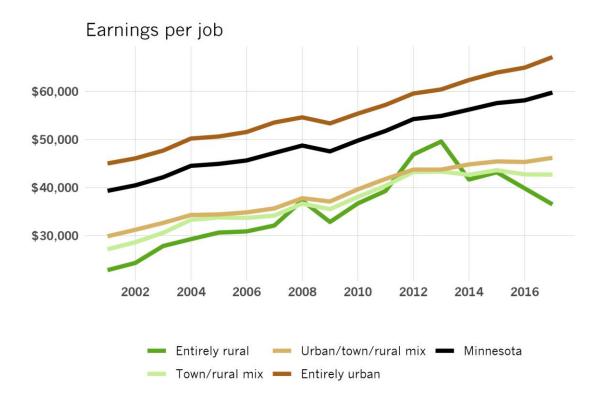


Figure 17: Earnings per job shows an increasing gap between entirely urban counties and the rest of the state. Agricultural income can have a significant impact on entirely rural counties, which can be seen between 2008 and 2014. Data: Bureau of Economic Analysis, Regional Personal Income and Employment

Earnings per job, 2017

Figure 18: Earnings per job is significantly higher in the seven-county metro area while moderately high earnings are scattered throughout Greater Minnesota. Counties in southern Minnesota typically have higher earnings per job than counties in northern Minnesota. Data: Bureau of Economic Analysis, Local Area Personal Income and Employment

Despite this continued gap, though, the highest growth in earnings per job since 2001 continues to be in rural regions. In 2017, the earnings per job in the entirely rural group was \$38,728, which is 59% higher than in 2001, the largest gain out of all the county groups. The town/rural mix, urban/town/rural mix and entirely urban county groups saw gains of 57%, 55% and 49% over 2001 levels respectively (Figure 19).

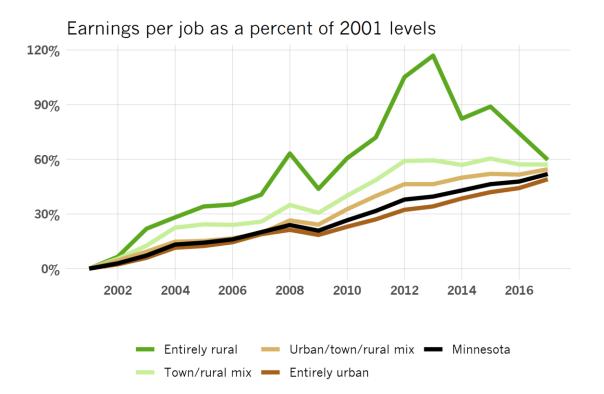


Figure 19: Despite the increasing gap in earnings per job between rural and urban areas, the largest increases in earnings have taken place in rural regions of the state. Data: Bureau of Economic Analysis, Regional Personal Income and Employment

Greater Minnesota feeling pressure to fill job vacancies

Job vacancies are increasing across the state and are at their highest levels at any point since 2005. This increase is largely due to retirements in the workforce as well as continued economic growth.

To get a sense of the pressure a region might feel in filling these vacancies, Figure 20 provides the average quarterly number of job vacancies for each year as a percentage of total jobs in the region. The higher the percentage, the more challenging it is to fill the positions. The highest percentages exist in regions outside of the seven-county metro. Northeast Minnesota currently has the highest percentage, where the average quarterly number of vacancies in 2017 represented 5.4% of the total filled jobs in the region.

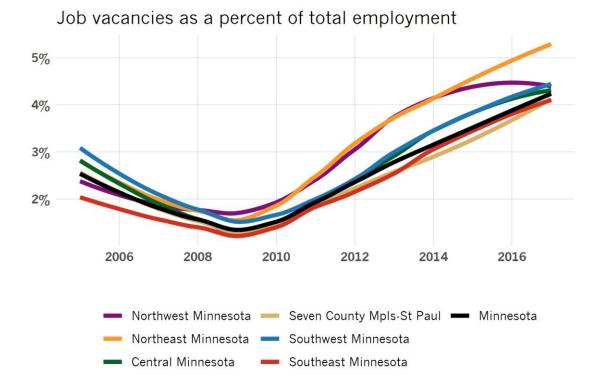


Figure 20: The job vacancy rate is the ratio of vacant job positions to all jobs. A high vacancy rate indicates a relatively strong demand for workers. The highest job vacancy rates exist outside of the Twin Cities seven-county metro. Data: MN DEED Job Vacancy Survey

Although the median wages for all job vacancies continue to be lower in Greater Minnesota than in the seven-county metro area, the largest increases in wages have occurred in Greater Minnesota. In 2005, the median wage for job vacancies in Greater Minnesota ranged from \$2.30 to \$3.40 lower than in the seven-county Twin Cities area. By 2017, the gap had shrunk to \$0.80 to \$2.20 lower (Figure 21).

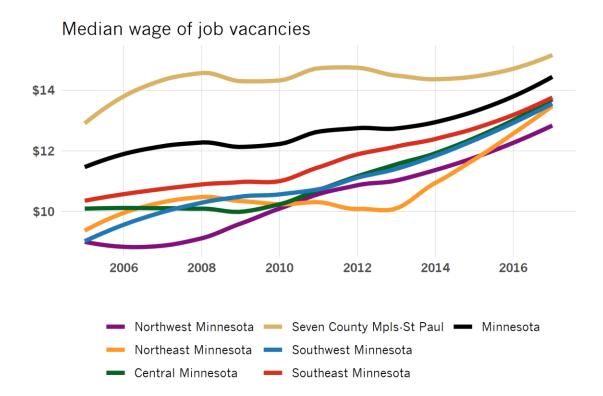
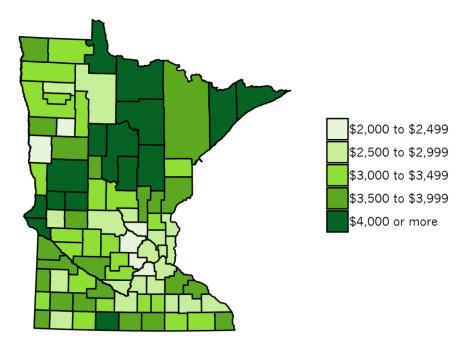


Figure 21: The median wages of all job vacancies in regions outside the Twin Cities are increasing steadily. Data: MN DEED Job Vacancy Survey

Use of public assistance is greatest in the most rural areas

Social Security payments are made up of monthly payments to retired and disabled persons, their dependents and survivors, plus lump-sum payments to survivors. This does not include medical payments, however. The distribution of Social Security dollars from county to county is largely a reflection of the distribution of senior citizens. Therefore, we expect the highest per-capita payments to be in the most rural areas (Figure 22).



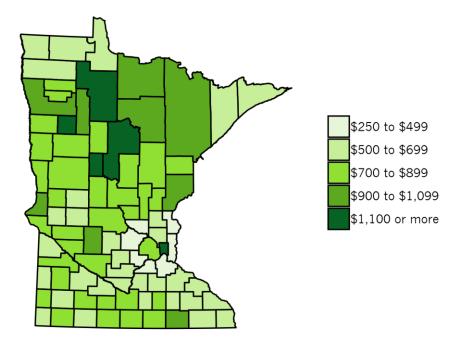
Annual social security payments per capita, 2017

Figure 22: Not surprisingly, the largest social security payments are in counties with higher percentages of 65-yearolds or older. Data: Bureau of Economic Analysis Local Region Personal Income and Employment, U.S. Census Bureau ACS 5-year

Despite the highest per-capita payments in more rural regions, the largest growth in per-capita social security payments has been in more urban areas. Social security payments in entirely urban counties in 2001 averaged \$1,231 but had grown to \$2,574 by 2017, an increase of 109%. The other county groups saw increases of 98%, 98% and 86% in urban/town/rural mix, town/rural mix, and entirely rural groups, respectively.

Public assistance payments include family assistance, food stamp payments, general assistance, supplemental security payments and other income maintenance benefits for families in need. It does not include medical payments or farm program payments.

The highest income maintenance benefits per capita continue to be in more rural areas. A few counties in northern Minnesota, where poverty rates tend to be higher, have some of the highest per-capita payments, exceeding an average of \$1,000 per person (Figure 23).



Annual income maintenance benefits per capita, 2017

Figure 23: Public assistance payments include family assistance, food stamp payments, general assistance, supplemental security payments and other income maintenance benefits for families in need. It does not include medical payments or farm program payments. Data: Bureau of Economic Analysis, Local Region Personal Income and Employment & U.S. Census Bureau, ACS 5-year

Agriculture

After peaking in 2014, farmland values are beginning to decline. More importantly, despite high land values, net income for farmers is also continuing to decline due to low commodity prices and increases in the costs of production, leaving many farmers with a negative net income.

Land values declining from 2014 peak but still historically high

Current land value estimates by the University of Minnesota Land Economics department remain historically high as they continue to reflect in part the high returns from farming between 2008 and 2012, but they are coming down (Figure 24). In 2017, the average value of ag land per acre for Minnesota was \$4,799, down 3% from 2016. However, demand for farmland for residential and commercial development has also driven up values, as can be seen in the urban and suburban counties of the Twin Cities, where ag land values are the highest (Figure 25).

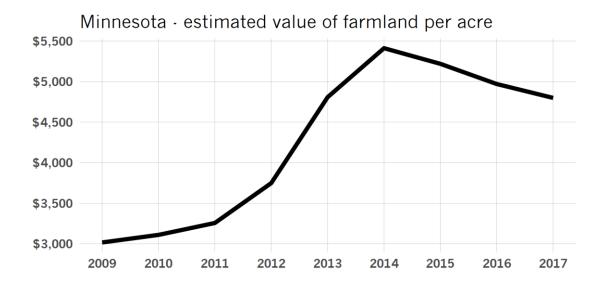
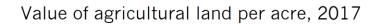


Figure 24: Farmland is defined as all agricultural 2a land, including Green Acres, minus the house/garage/first acre and the building site. This was called "deeded" land prior to 2009. The significant increase in value between 2011 and 2014 is due to the high returns from farming, while increasing pressure for residential and commercial development is keeping values up in and around metropolitan areas. Data: University of Minnesota Land Economics



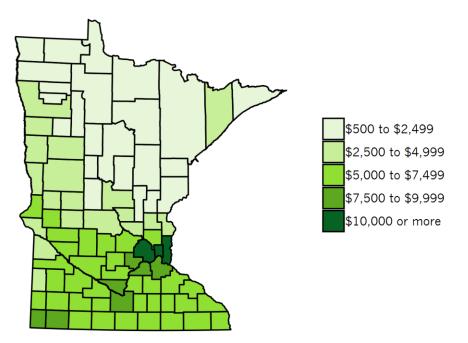
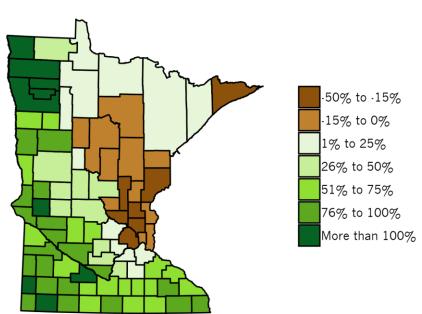


Figure 25: The value of agricultural land is highest in the metropolitan areas due to increased pressure from commercial and residential development. Data: University of Minnesota Land Economics

The value of farmland increased dramatically between 2009 and 2014. Even in today's poor ag economy, estimated farm land values in counties in the entirely rural group, where farmland dominates, were estimated to be 80% higher in 2017 compared to 2009, while in the entirely urban counties in Minnesota farmland was estimated to be 27% higher. The change in the value of farmland, however, varies greatly from county to county. In fact, farmland in Hennepin and Ramsey counties, the northern suburbs and counties stretching into the north-central lakes region has dropped in value since 2009. The largest increases have occurred in northwest Minnesota (Figure 26).



Percent change in value of agricultural land per acre since 2009

Figure 26: Change in agricultural land values since 2009 shows considerable variation across the state. The largest increases have occurred in western Minnesota. Data: University of Minnesota Land Economics

Net income for farming continues to decrease

The following chart shows the cost of production and cash receipts received per acre for farmers in Minnesota. These elements are defined as:

- Total cash receipts: gross revenue received by farmers from the sale of crops, livestock, and livestock products and of the value of defaulted loans made by Commodity Credit Corporation and secured by crops; and,
- Production expenses: purchases of feed, livestock and poultry, seed, fertilizer, agricultural chemicals and lime, and petroleum products; labor expenses; machinery rental and custom work; animal health costs; and all other expenses, including depreciation.

Starting in 2015 and continuing into 2017, the cost of production has exceeded the cash receipts for farmers in Minnesota due to natural increase in costs of inputs and low commodity prices. In 2017, the cost of production was \$754 per acre while cash receipts were only \$720 per acre (Figure 27).

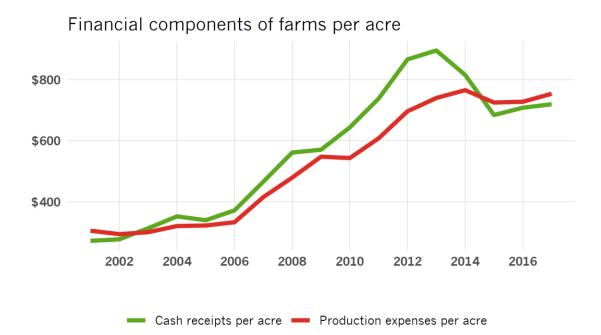


Figure 27: Starting in 2015 and continuing through 2017, the overall cost of production has exceeded cash receipts for farms per acre. Data: Bureau of Economic Analysis, Local Region Personal Income and Employment

Federal government payments to farm operators consist of deficiency payments under price support programs for specific commodities, disaster payments, conservation payments, and direct payments to farmers under federal appropriations legislation.

The bulk of government payments in 2017 are attributable to agricultural commodity programs. In Minnesota, the average payments were 2.4% of total farm income. The largest percentages were in northwestern Minnesota, where percentages ranged from 4% to 12%.

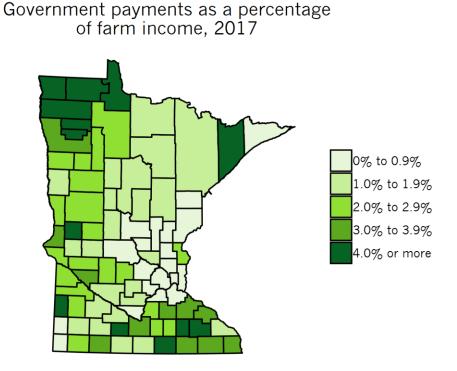
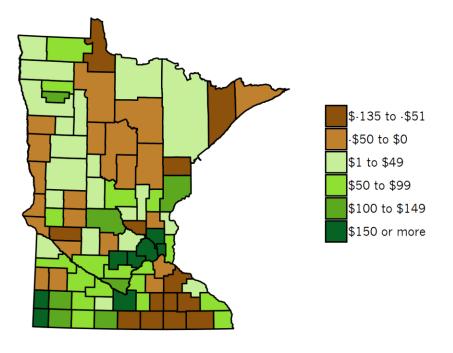


Figure 28: The bulk of government payments to farmers in 2017 are attributable to agricultural commodity programs. The average payments were 2.4% of total income across Minnesota. Data: Bureau of Economic Analysis, Local Region Personal Income and Employment

When including government payments, income still isn't enough to cover the cost of production for many farmers. The highest net income for farms exists in the seven-county metro and in southwestern Minnesota (Figure 29).



Net income per farm land acre, 2017

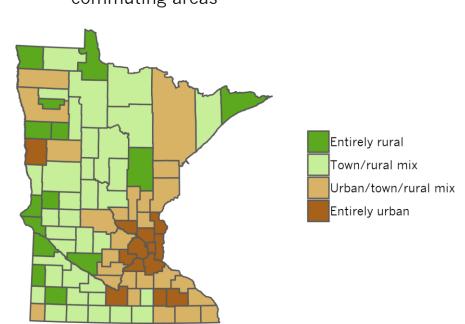
Figure 29: Net income includes cash receipts from marketings, government subsidies, and other income while subtracting the cost of production. In a majority of Minnesota counties, farmers are making less than \$50 per acre or losing money. Data: Bureau of Economic Analysis, Local Region Personal Income and Employment

Appendix: Rural-Urban Commuting Areas

Throughout this report we present information using four county groups developed by the State Demographer and Minnesota's Demographic Center derived from the USDA's Rural-Urban Commuting Area codes. This definition provides a handy way to look at counties by similar characteristics rather than location.

Staff at the Minnesota Demographic Center examined each Census tract in the state to determine its "type" using the definitions in the Rural-Urban Commuting Area framework (explained below). Each county was then classified by its "mix" of Census tracts. For example, if a county has one Census tract that can be defined as "small town" and all other Census tracts could be defined as rural, the county is categorized as "town/rural mix." The number of counties within each category are i) entirely rural: 14; ii) town/rural mix: 35; iii) urban/town/rural mix: 25; and iv) entirely urban: 13.

Figure 30 shows how each county is categorized.



County categorizations based on rural-urban commuting areas

Figure 30: These categorizations are based on an analysis of the rural-urban commuting areas at each county's census tract level. Data: MN State Demographic Office

The United State Department of Agriculture Economic Research Service developed the Rural-Urban Commuting Area codes as a way to define geographic areas using more than population alone. These codes incorporate population density, urbanization, and daily commuting to define a geographic area. Below are the ten primary RUCA codes, grouped into their four geography definitions.

Urban Definition

- 1 Census tract is situated at the metropolitan area's core and the primary commuting flow is within an urbanized area of 50,000 residents or more.
- 2 Census tract is within a metropolitan area and has higher primary commuting (30% or more) to an urbanized area of 50,000 residents or more.
- **3** Census tract is within a metropolitan area and has lower primary commuting (10-30%) to an urbanized area of 50,000 residents or more.

Large Town Definition

- 4 Census tract is situated at a micropolitan area's core and the primary commuting flow is within a larger urban cluster of 10,000 to 49,999 residents.
- **5** Census tract is within a micropolitan area and has higher primary commuting (30% or more) to a larger urban cluster of 10,000 to 49,999 residents.
- **6** Census tract is within a micropolitan area and has lower primary commuting (10-30%) to a larger urban cluster of 10,000 to 49,999 residents.

Small Town Definition

- 7 Census tract has a primary commuting flow within a small urban cluster of 2,500 to 9,999 residents.
- 8 Census tract has higher primary commuting (30% or more) to a small urban cluster of 2,500 to 9,999 residents.
- **9** Census tract has lower primary commuting (10-30%) to a small urban cluster of 2,500 to 9,999 residents.

Rural Definition

10 Census tract has a primary commuting flow outside of urban areas and urban clusters.

The Minnesota State Demographer's office analyzed each county to determine the combinations of census tract types in each one. The counties were then categorized into 4 groups:,

- Entirely rural: every census tract was rural;
- Town/rural mix: the county had at least one census tract that was rural, and small or large town census tracts;
- Urban/town/rural mix: the county had at least one census tract that was rural, small or large town, and urban; and,
- Entirely urban: every census tract was urban.

For more information about these definitions check out their report - <u>"Greater Minnesota: Refined &</u> <u>Revisited"</u>

4 primary RUCA definitions - MN census tracts

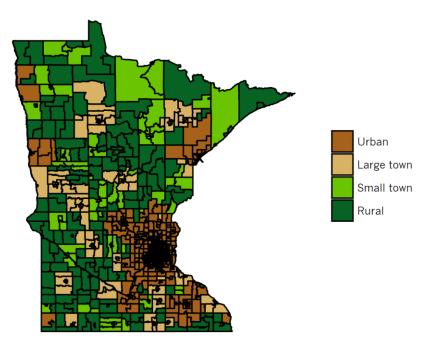


Figure 31: Each census tract was given one of the four definitions from the table above. Data: MN State Demographic Office