

# Providing Perspective During COVID-19 Using Data

**Cameron Macht**

**DEED Labor Market Information Office**

**Regional Analysis & Outreach**

**[www.mn.gov/deed/data/](http://www.mn.gov/deed/data/)**

**August 19, 2020**

# Minnesota Dept. of Employment & Economic Development

- DEED has been busy during the COVID-19 pandemic
  - Unemployment Insurance, Business & Community Development, LMI
- Each state produces employment and economic statistics in cooperation with U.S. Department of Labor's Bureau of Labor Statistics
- LMI includes employment statistics, unemployment rates, wages and salaries, job projections and more
  - We provide data to a wide variety of stakeholders and customers
- LMI is the foundation for informed, market-responsive planning
  - Focused on trends
- [mn.gov/deed/data/](https://mn.gov/deed/data/)

The screenshot shows the DEED website's 'Data Center' page. The header features the DEED logo and navigation links: 'For Job Seekers', 'For Business', 'For Government', 'About Us', 'Data', and 'A-Z Index'. The 'Data' menu is expanded, listing various data tools and reports. The main content area includes a 'Data Center' section with a video player for 'Unemployment Insurance Statistics' and a 'We've Got Your Number' section. Below these are three columns for 'Data Tools', 'Monthly Highlights', and 'Regional Labor Markets', each with a brief description of the content.

research analysts x +

EMPLOYMENT AND ECONOMIC DEVELOPMENT

Search

For Job Seekers For Business For Government About Us Data A-Z Index

Home Data

Data

- Data Tools
- Monthly Highlights
- Regional Labor Markets
- Reports & Publications
- Economic Analysis
- Export & Trade Statistics
- Data for Job Seekers
- Data for Businesses
- Data for Government
- Data for News Media
- LMI Help

Data Center

Unemployment Insurance Statistics

Daily and Weekly Unemployment Insurance Statistics provided since March 16. Monthly Unemployment Insurance Statistics.

We've Got Your Number

Nothing tells a story like numbers. And here is where we let them do the talking. Our data and data tools provide a comprehensive, nuts-and-bolts look at Minnesota's economy and workforce.

Data Tools

Monthly Highlights

Regional Labor Markets

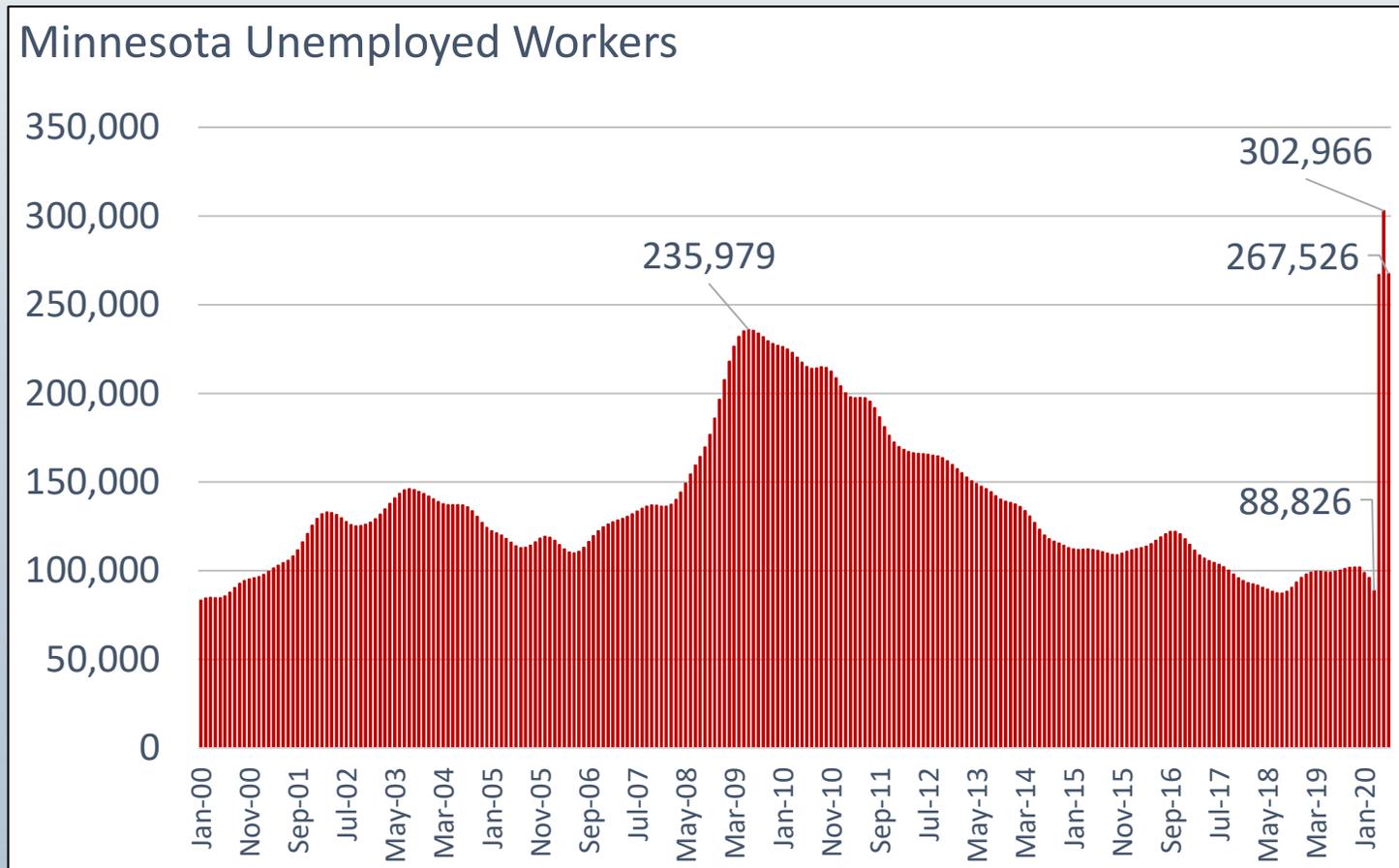
Dig deep into data on employment, unemployment, wages and occupations, regional and state comparisons and more.

The freshest available snapshot of Minnesota's economic performance on several job and employment fronts.

Explore your region's labor market. Find comprehensive Regional Profiles and County Profiles you can download in PDF, as well as links to articles and data tools. Or contact your regional analyst.

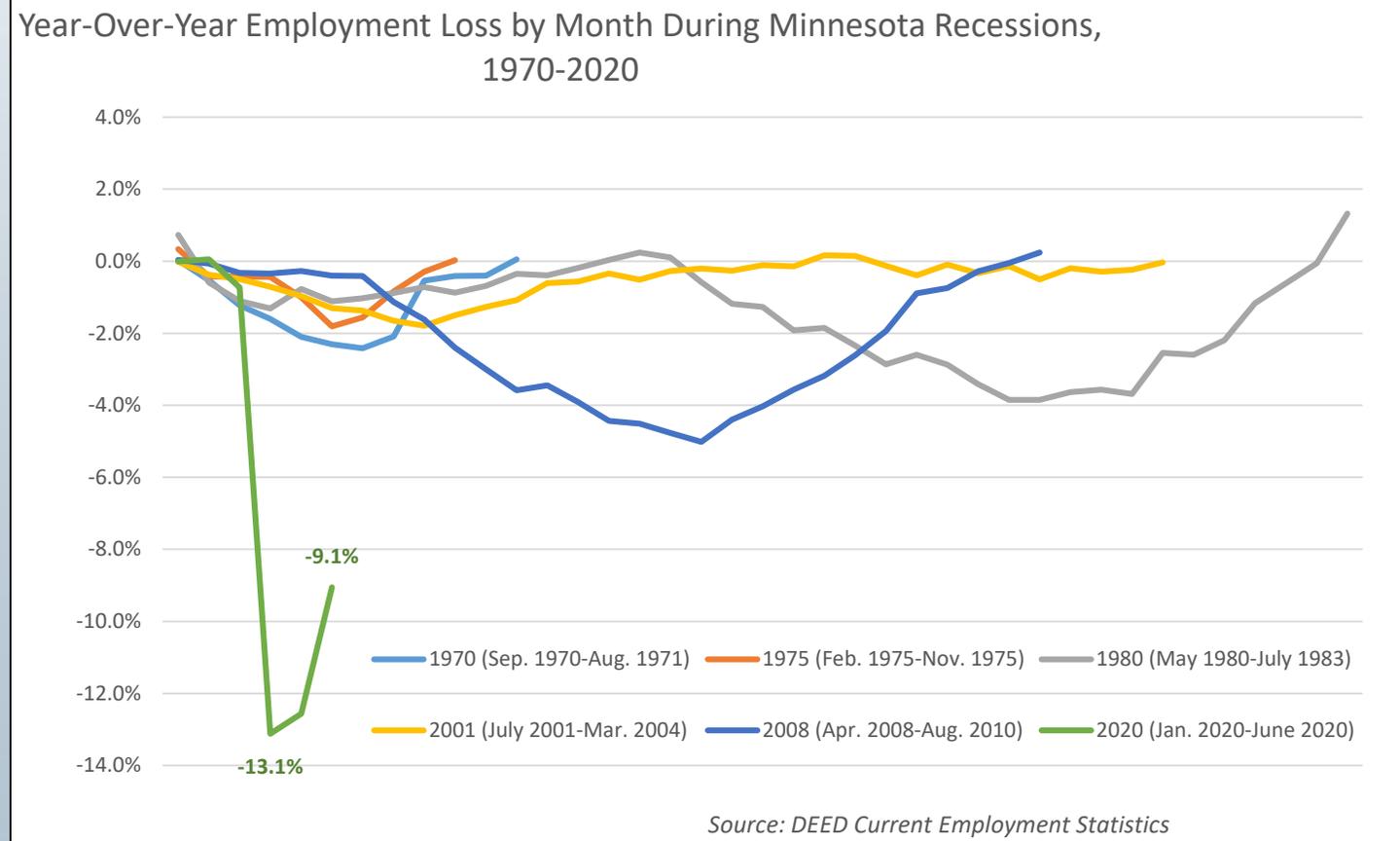
# Unemployment Rates

- Minnesota's unemployment rate dropped to **8.6%** in June 2020
  - 9.9% in May was the highest rate on record – *previous highs in 1983, 2010*
- Since February, the number employed has dropped by **-176,348**; the number unemployed has risen by **+171,415**; and the unemp. rate has risen from **3.1% to 8.6%**
  - This includes a drop of **-5,000** from the labor force with a drop in participation rate from **70.2% to 69.9%**
- Minnesota has the **22<sup>nd</sup>** lowest unemp. rate in U.S.
  - U.S. rate dropped to **10.2%** in July 2020
    - As high as **14.7%** in April



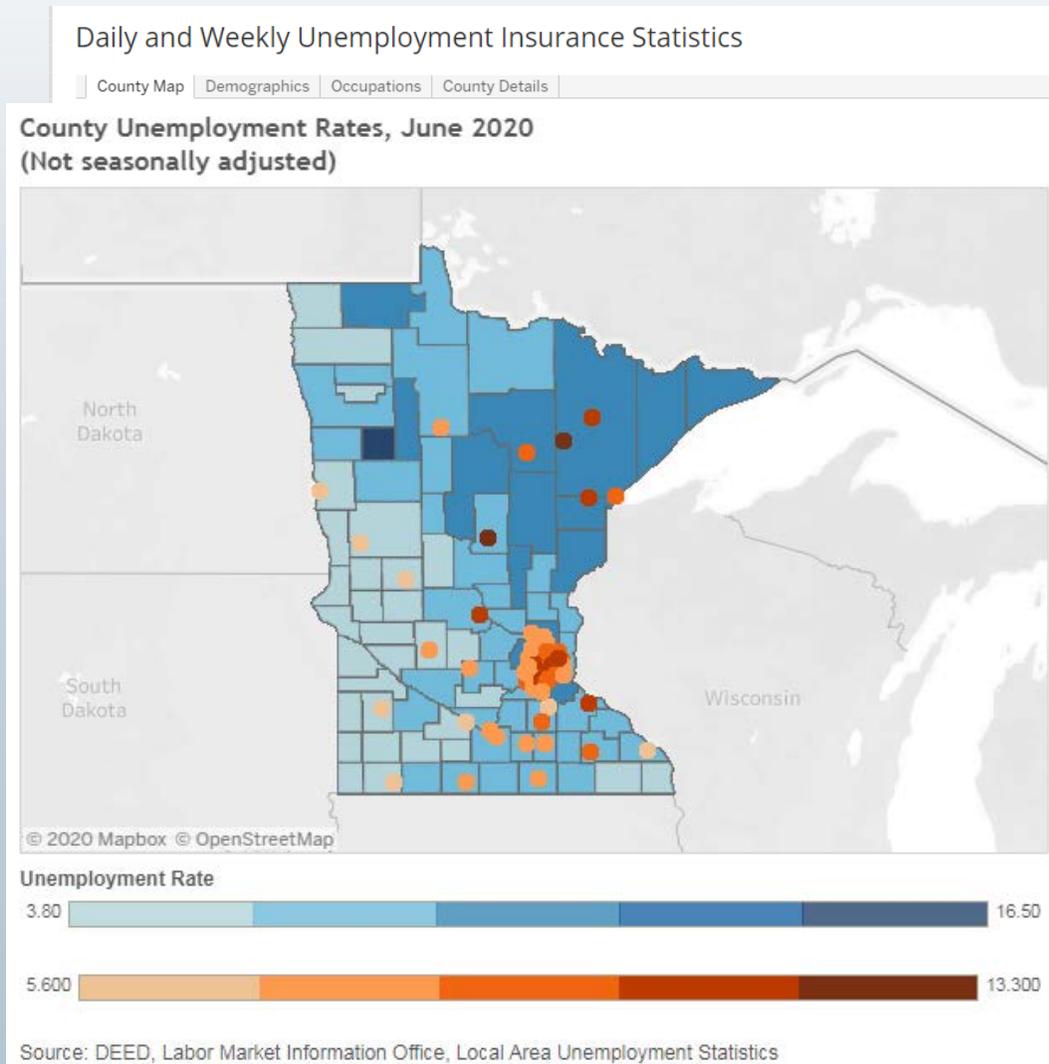
# Current Employment Statistics

- Minnesota is down -273,776 payroll jobs over the year in June, a decline of -9.1% compared to 2019
  - U.S. employment fell -9.0% from June 2019 to June 2020
- These job losses, largely the result of pandemic containment measures, are unprecedented in the history of the data series going back nearly a century both at the state and national level
- *How bad is it?*
  - *It depends...*
    - *Industries*
    - *Regions*
    - *Occupations*
    - *Person*



# Unemployment Insurance Claims Statistics

- Stakeholders (leaders, businesses, workforce development boards, the media) needed help, and our traditional tools did not offer enough
- Typically overlooked, Unemp. Insurance statistics were suddenly a useful dataset
- The existing tool was updated once per month, in a table format
- The new tool was built to provide daily updates, and in visual form
  - Count of UI applications by day
  - Cumulative UI applications by county
    - As a share of 2019 labor force (impact)
- Unemp. rates at the county level are much more indicative of COVID-19 employment changes



# Unemployment Insurance Applications Statistics

- **Demographic details looking at:**
  - Age
  - Education
  - Gender
  - Veteran Status
  - Race & Ethnicity
- **Geographic details for:**
  - Planning Regions
- **Occupational details at the 3-digit SOC Code level**
  - Food & Beverage Serving Workers
  - Retail Sales Workers
  - Construction Trades Workers
  - Other Production Occupations
  - Cooks & Food Prep Workers
- **County Details**
  - 87 counties in Minnesota
  - Occupational details

County Map
Demographics
Occupations
County Details

Select a County:



Select a Category:

**Demographics: Cumulative UI Application Counts from March 16**

	All	16-19	20-24	25-34	35-44	45-54	55-64	65+
Aitkin	1,616	48	147	295	282	308	376	160
Anoka	50,600	1,885	6,355	11,814	10,757	8,974	8,250	2,565
Becker	4,088	135	480	897	869	674	716	317
Beltrami	4,839	157	842	1,221	970	679	666	304
Benton	5,057	198	727	1,269	1,163	798	691	211
Big Stone	287		29	70	56	44	62	21
Blue Earth	9,379	292	2,130	2,357	1,736	1,238	1,183	443
Brown	2,355	69	241	494	490	414	472	175
Carlton	4,169	127	497	935	883	768	718	241
Carver	11,834	391	1,285	2,374	2,477	2,270	2,227	810

**Occupations: Cumulative UI Application Counts from March 16**

County	Occupation	Count
Aitkin	412000 - Retail Sales Workers	71
	353000 - Food and Beverage Serving Workers	193
	472000 - Construction Trades Workers	143
	352000 - Cooks and Food Preparation Workers	95
	319000 - Other Healthcare Support Occupations	52
	434000 - Information and Record Clerks	39
	291000 - Health Diagnosing and Treating Practitioners	40
	519000 - Other Production Occupations	24
	533000 - Motor Vehicle Operators	36
	395000 - Personal Appearance Workers	28
	359000 - Other Food Preparation and Serving Related Workers	34
	292000 - Health Technologists and Technicians	31
	439000 - Other Office and Administrative Support Workers	38
	119000 - Other Management Occupations	26
	372000 - Building Cleaning and Pest Control Workers	32
399000 - Other Personal Care and Service Workers	27	

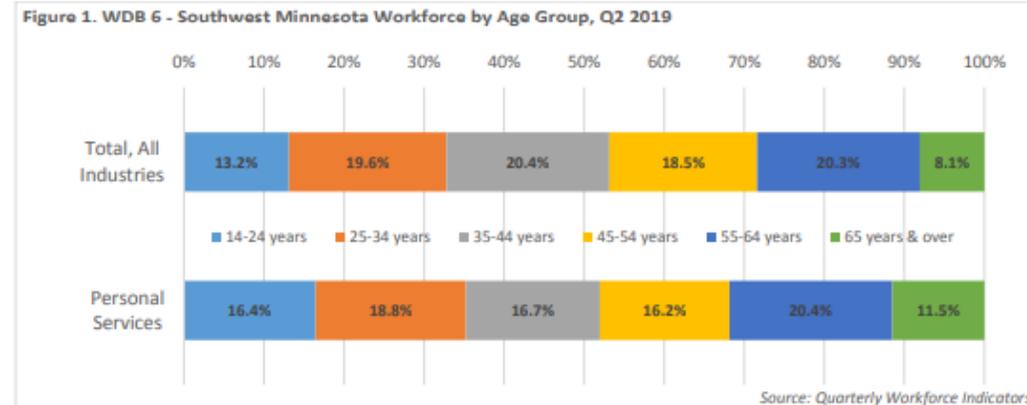
Updated May 29, 2020

# Regional Industry Profiles

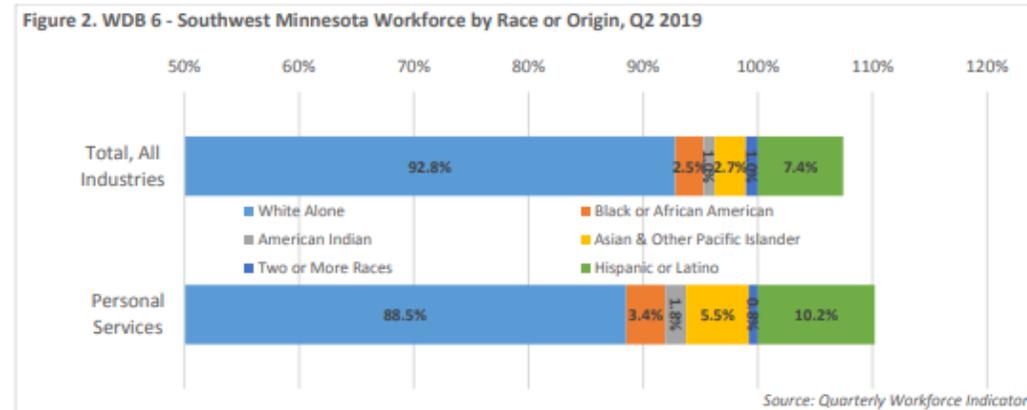
- Used QCEW and QWI data to create industry profiles for workforce development partners to understand the size and scope of the affected industries; and the unemployed workers

- Age
- Race
- Education
- Skills

of 2019, nearly half (48.1%) of the personal service workforce in Southwest Minnesota was 45 years or older, including almost one-third (31.9%) that were 55 years and over. This means that there was a slightly smaller percentage of people in their prime working years, from 25 to 44 years (see Figure 1).



Personal service workers in Southwest Minnesota were more diverse than the total of all industries combined. In the second quarter of 2019, the share of workers of other race groups and origins was greater in the personal service industry than that for the total of all industries (see Figure 2 – please note that the numbers add up to more than 100% because Hispanic or Latino is an ethnicity rather than a race).

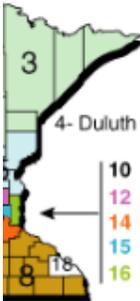


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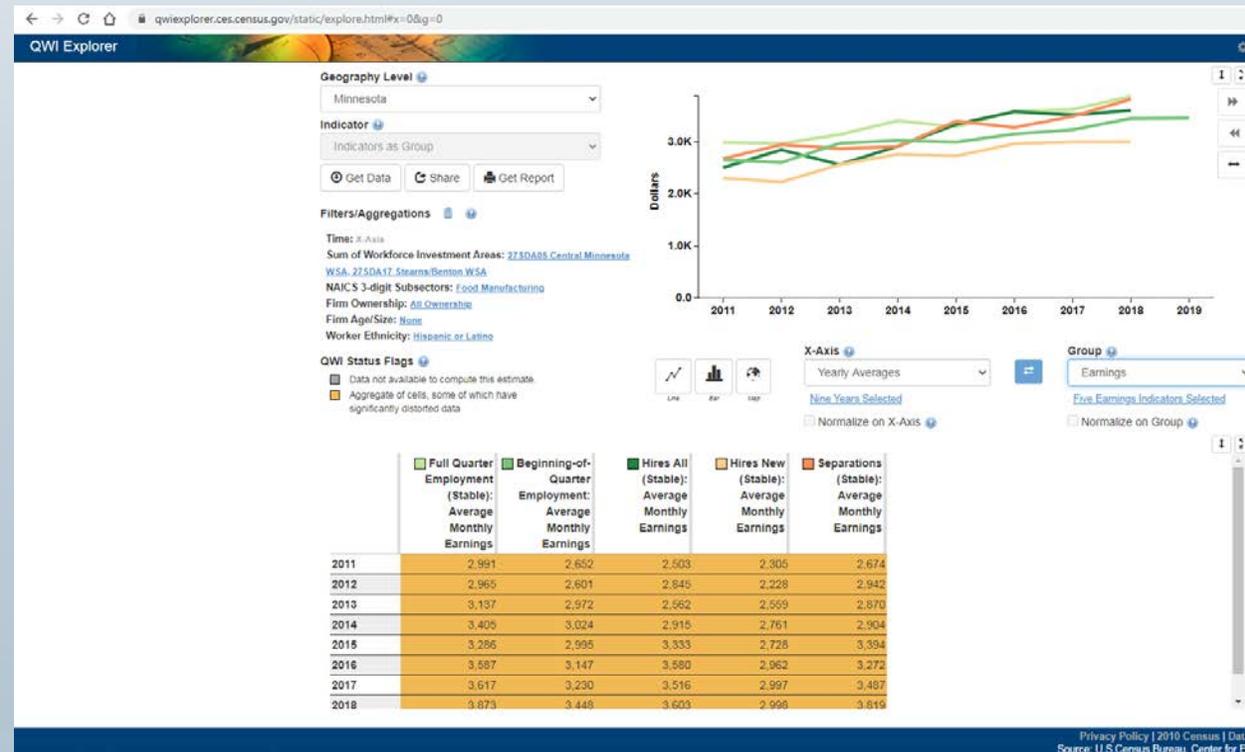
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# Quarterly Workforce Indicators

- <https://qwiexplorer.ces.census.gov/static/explore.html#x=0&g=0>
- Geographies
- Industries – 3 digit, 4-digit
- Sex, Age, Education, Race, Ethnicity
- Yearly Averages
  - Food Manufacturing
- Turnover Rates
- Earnings
  - By Sex, Age, Education, Race, or Ethnicity



# Racial Disparities Reports

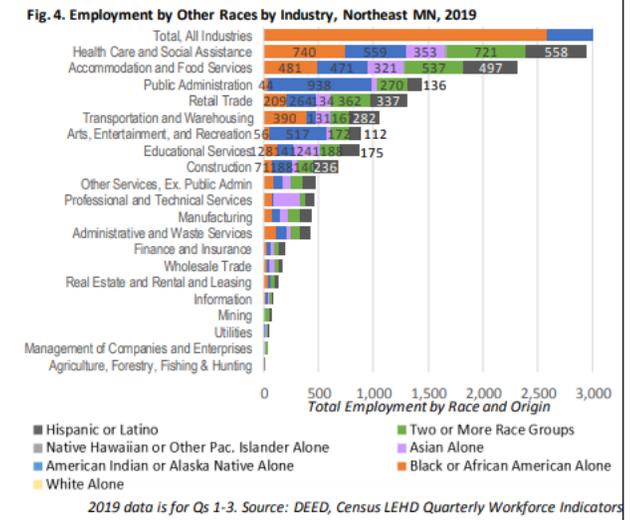
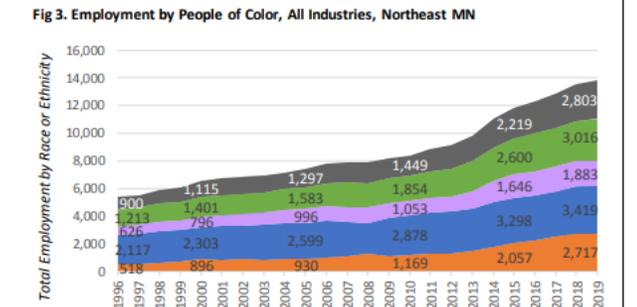
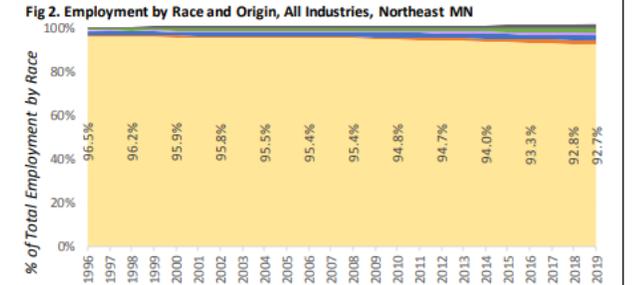
- Used American Community Survey data to explore race and origin data for every region
  - Population Change
  - Educational Attainment
  - Labor Force & Employment
  - Income & Poverty Status
- Used QWI to explore race data by industry in the region
  - Job Changes
  - Industry Concentration

## Employment Diversity

While people of color make up 7.8 percent of the overall population, they held 7.3 percent of total jobs in Northeast Minnesota, according to data from the Quarterly Workforce Indicators program. Through the third quarter of 2019, that equaled 11,035 workers of other races, compared to 139,772 White workers. Workers of color held just 4.1 percent of total jobs in the region in 2000, meaning their employment presence substantially increased from 2000 to 2019 (see Fig 2).

In sum, workers of color have filled an additional 5,639 jobs in the region since 2000, accounting for 30.4 percent of new jobs added. With 3,419 jobs, American Indians were the largest race group in the regional economy, after gaining 1,116 jobs since 2000. The next largest group was people of Two or More Races, who held 3,016 jobs in 2019 after more than doubling since 2000. After the largest increase of 203 percent from 2000 to 2019, Black or African Americans held 2,717 jobs in the region. Asians held 1,883 jobs in 2019, a 137 percent rise since 2000. Finally, Hispanic or Latino workers accounted for 2,803 jobs, an increase of 151 percent from 2000 (see Figure 3).

Most sectors in Northeast Minnesota are non-diverse, but there are a couple industries that rely more heavily on workers of color. For example, 20.4 percent of the Arts, Entertainment, and Recreation workforce is non-White, consisting of 11.9 percent American Indians and 3.9 percent of Two or More Races. Likewise, 14.4 percent of the Accommodation and Food Services and 13.3 percent of Public Administration workforces were people of



2019 data is for Qs 1-3. Source: DEED, Census LEHD Quarterly Workforce Indicators

# QWI Visualization

- Used the LED Extraction Tool to download employment & earnings data for WIAs (and counties)

- <https://ledextract.ces.census.gov/static/data.html>

- **Geography**

- **Industries**

- **Race & Ethnicity**

- Sex, Age, Education

- **Employment & Earnings**

- **Quarters**

- **Export**

LED Extraction Tool - Quarterly Workforce Indicators (QWI)

1. Geography | 2. Firm Characteristics | 3. Worker Characteristics | 4. Indicators | 5. Quarters | 6. Summary and Export

**Estimated Results Size**

- Number of Rows: 20,000
- Size of CSV: 9 Mb
- Size of ZIP: 1 Mb
- Run Time: Less than a Minute.

**Request Progress**

Click "Submit Request" to send your request to the server.

Submission | Waiting | Processing | Finished

**Additional Information**

**Basic QWI Information**

- [QWI Data Schema](#)
- [QWI 101](#) [PDF, 203k]

**Comprehensive QWI Information**

- [Detailed QWI Definitions](#) [PDF, 272k]
- [The LEHD Infrastructure Files and the Creation of the Quarterly Workforce Indicators document](#) [PDF, 768k]

**Data Notices/Updates**

- [QWI Data Vintage Notices](#) [PDF, 166k]
- [National QWI Data \(Beta\)](#)

For more information, go to [LED Extraction Tool Help and Documentation](#).

Current Request ID:

Submit Request | Cancel Request

Include Labels  
Including labels will dramatically increase processing time and file size.

Email results: \_\_\_\_\_

Query Results

Current

Previous

Save Settings | Return to Quarters

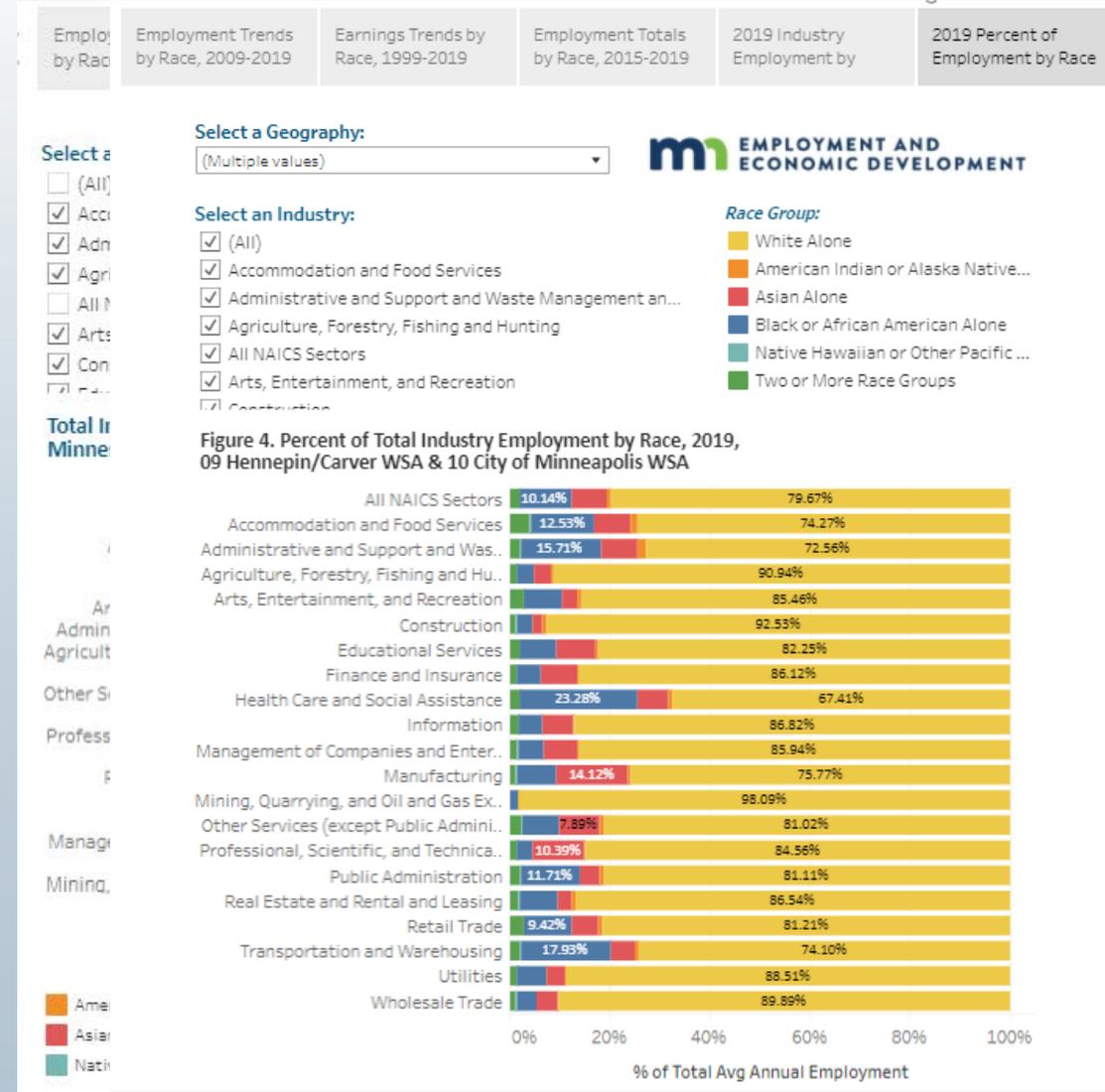
# QWI Visualization

- [https://public.tableau.com/profile/magda.olson#!/vizhome/QWI-Race byWSA 2019Ann/Story1](https://public.tableau.com/profile/magda.olson#!/vizhome/QWI-Race%20by%20WSA%202019Ann/Story1)

- Used the LED Extraction Tool to download employment & earnings data for WIAs (and counties)

- Many ways to visualize the data

- Employment Trends
- Earnings Trends
- Number of Jobs by Industry
- Concentration by Race by Industry



# CareerForceMN.com Blogs & Occupations in Demand

- We've been using CareerForceMN.com to communicate about occupations in demand during the pandemic – to help jobseekers who may switch from temporary layoff to permanent layoff to know where to go and what is available...
  - Healthcare
    - PCAs
    - CNAs
    - HHAs
    - RNs & LPNs
  - Software Developers
  - Transportation, Repair, Production, Office & Admin.



# THANK YOU!

- Cameron Macht
- Regional Analysis & Outreach Manager
- Acting Assistant LMI Director
- 320-441-6596
- [cameron.macht@state.mn.us](mailto:cameron.macht@state.mn.us)
- Labor Market Information Office
- <http://mn.gov/deed/data/>

