Transportation System Performance Evaluation

TAB Technical Advisory Committee Information Item



June 7, 2023 Liz Roten, Jonathan Ehrlich

metrocouncil.org



An interactive, web-native approach

Overview

- 98 interactive charts and maps
- 128 tables
- 60+ distinct data sources
- Primarily web-based
- Static PDF available on request

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Transportation System Performance Evaluation					
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Preface					

Stewardship

1 Efficiently preserve and maintain the transportation system

2 Operate the

regional transportation

system efficiently

and cost - effectively

Safety and

Security

3 Reduce vulnerability

4 Reduce crashes and improve safety and security

Access to

Destinations

Transportation System Performance Evaluation

AUTHOR Metropolitan Council PUBLISHED April 14, 2023

Preface

This report is a comprehensive review of the Twin Cities transportation system as prepared by Metropolitan Council in 2023. The Minnesota State Legislature adopted statutes in 1996 requiring the Metropolitan Council to produce this report (previously called the Transportation System Audit). This report was prepared to inform the 2024 update of the region's long-range transportation plan, the 2050 Transportation Policy Plan (2050 TPP).

Metropolitan Council

The Council's mission is to foster efficient and economic growth for a prosperous metropolitan region

Chair: Charlie Zelle

Table 1: Metropolitan Council Members

	District 1	Judy Johnson	District 10	Peter Lindstron
	District 2	Reva Chamblis	District 11	Susan Vento
	District 3	Tyronne Carter	District 12	Gail Cederberg
	District 4	Deb Barber	District 13	Chai Lee
	District 5	Anjuli Cameron	District 14	Willetha (Toni)
	District 6	John Pacheco Jr.	District 15	Tenzin Dolkar

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Preface

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Stewardship

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Transportation System

Performance

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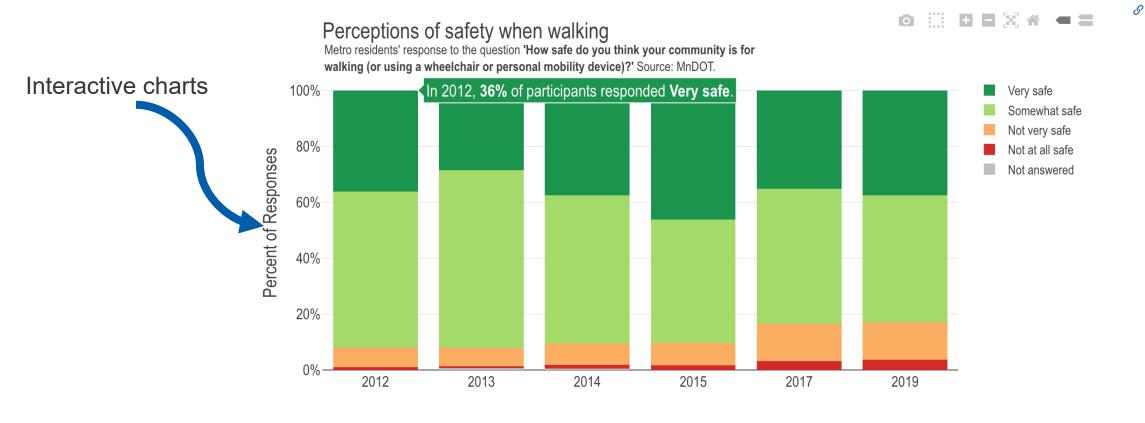
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Organized by goal

4.1 Perception of Safety When Walking and Bicycling

Metro respondents to <u>MnDOT's public opinion survey</u> are asked to rate perceptions of safety for bicycling and walking in their communities using a four point scale. 1 corresponds to a perception that bicycling and walking is not at all safe and 4 corresponds to a perception that bicycling and walking is very safe. MnDOT tracks the percentage of respondents who perceive their environment as safe by totaling those who respond with 3 (somewhat safe) or 4 (very safe). The survey is typically done every two years.

Figure 4.1 shows how people's responses to the question **How safe do you think your community is for walking (or using a wheelchair or personal mobility device)?** over time. In recent years, the amount of people who felt "not very safe" or "not at all safe" has increased. For instance, those who felt "not at all safe" increased from 2% in 2015 to 4% in 2019.



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Context

Figure 4.1: Perceptions of safety when walking

Table of contents

4.1 Perception of Safety When Walking and Bicycling

4.2 Transit safety

4.3 Status of At-Grade Rail/Roadway Crossing Infrastructure

4.4 Traffic Fatalities and Injuries

Easy navigation

Current 2040 TPP Goals



Transportation System Stewardship

Sustainable investments in the transportation system are protected by strategically preserving, maintaining, and operating system assets.



Safety and Security

The regional transportation system is safe and secure for all users.



Access to Destinations

A reliable, affordable, and efficient multimodal transportation system supports the prosperity of people and businesses by connecting them to destinations throughout the region and beyond.



Competitive Economy

The regional transportation system supports the economic competitiveness, vitality, and prosperity of the region and state.



Healthy and Equitable Communities

The regional transportation system advances equity and contributes to communities' livability and sustainability while protecting the natural, cultural, and developed environments.

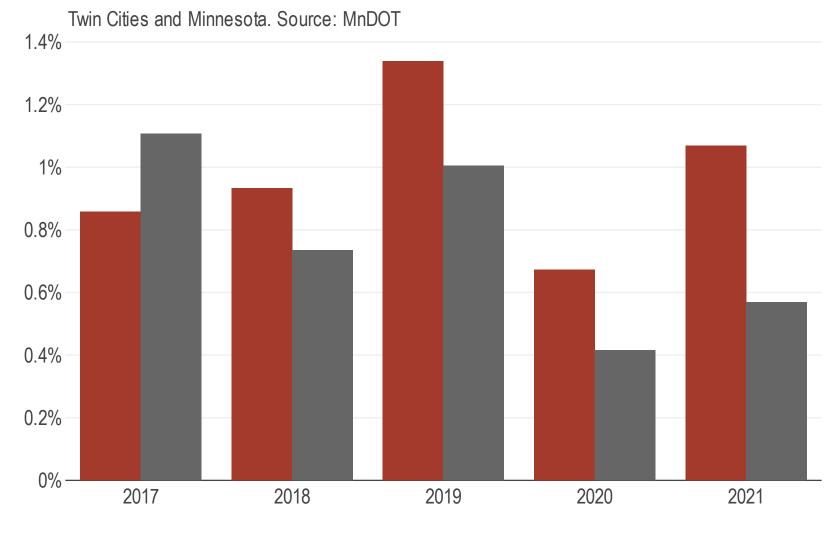


Leveraging Transportation Investments to Guide Land Use

The region leverages transportation investments to guide land use and development patterns that advance the regional vision of stewardship, prosperity, livability, equity, and sustainability.

Pavement Condition

Pavement in 'Poor' Category (Interstate and NHS)

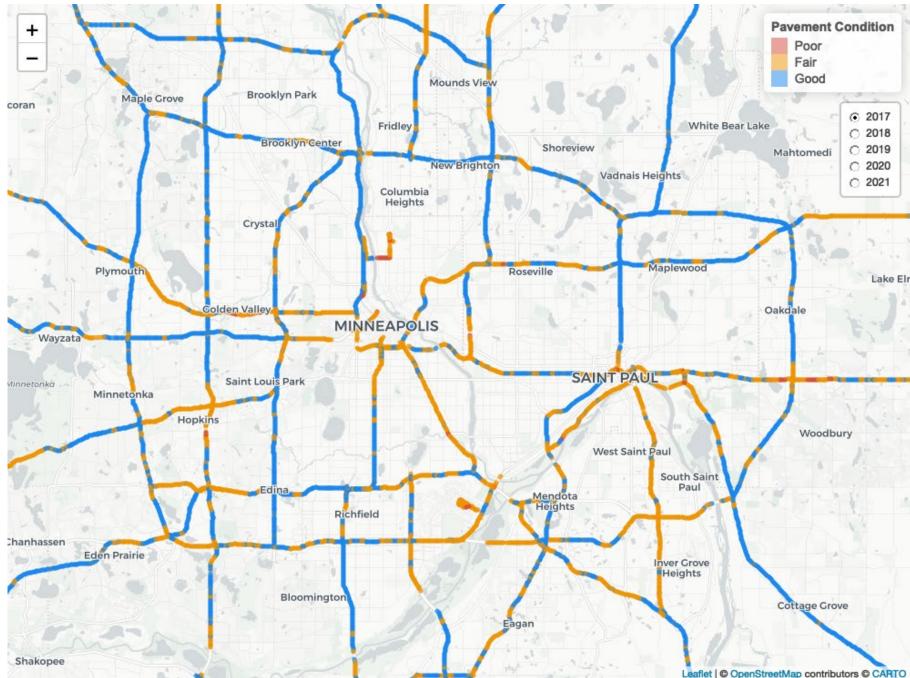


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Twin Cities

Statewide

Pavement Condition Map



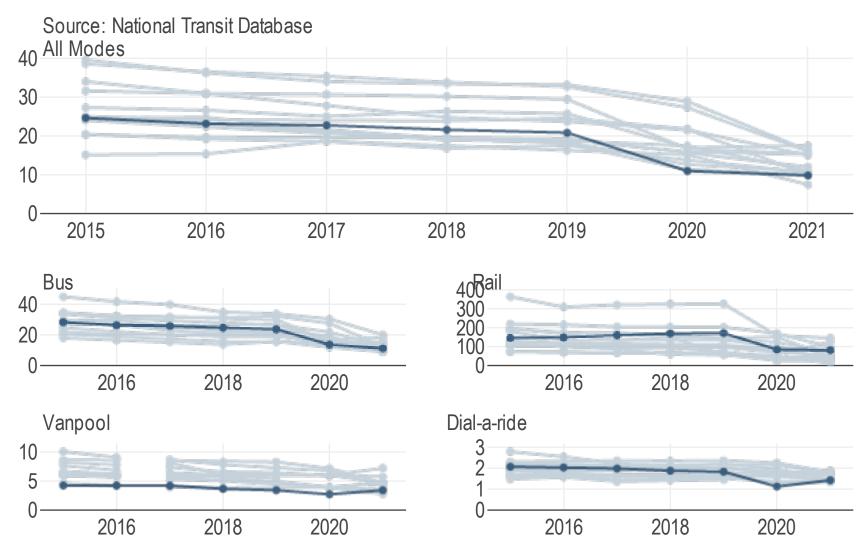
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Public Transit

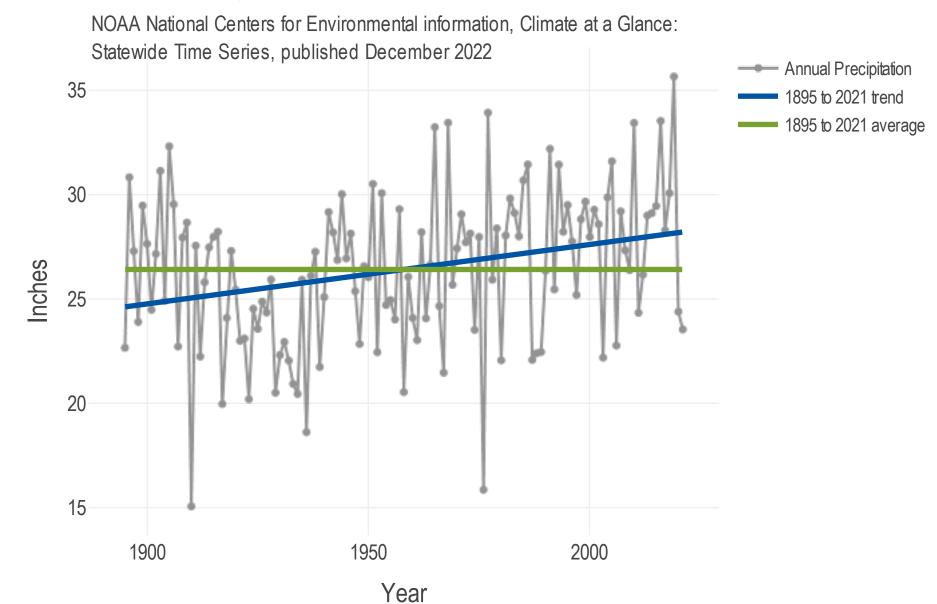
Unlinked trips per revenue hour





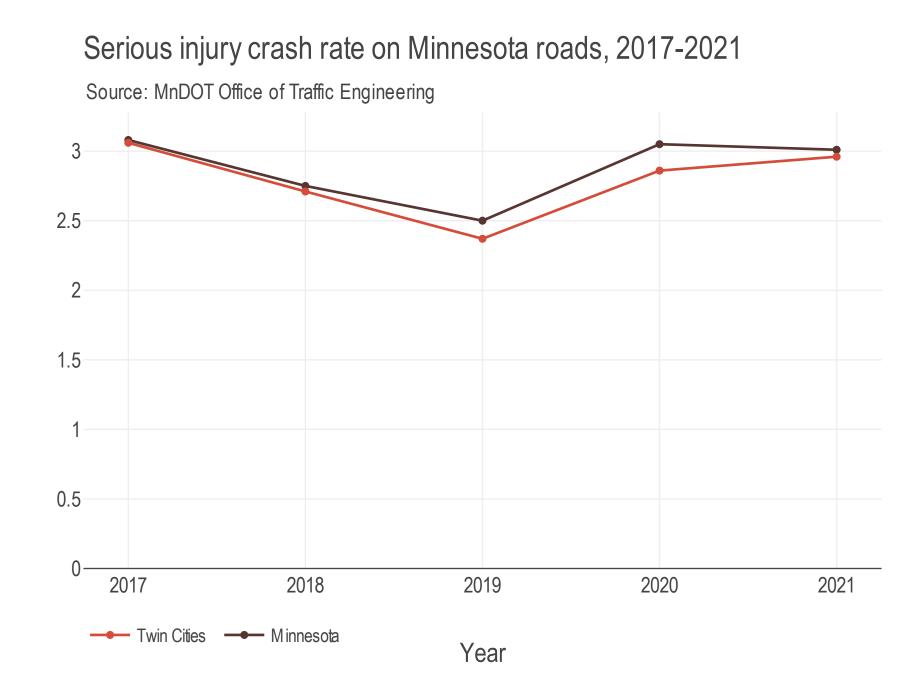
Climate Change

Annual Precipitation in Minnesota



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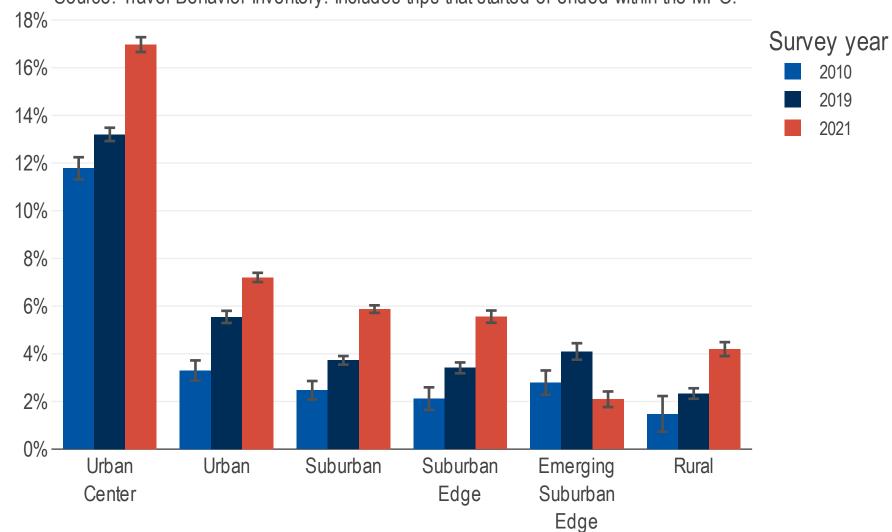
Serious injury crash rate



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Mode share by Thrive - walking

Percent of trips made by walking: 2010, 2019 and 2021



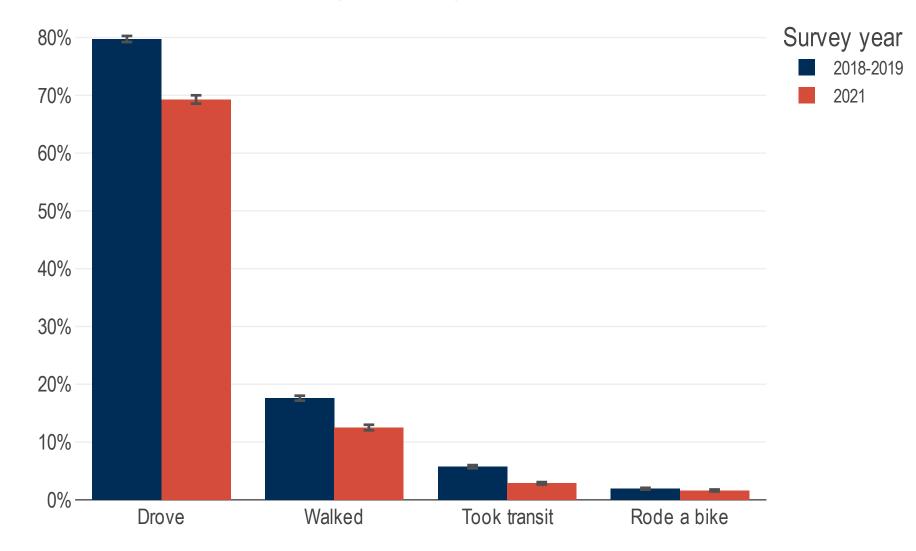
Source: Travel Behavior Inventory. Includes trips that started or ended within the MPO.

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Mode participation rate

Mode participation rate, adults, 2019 vs. 2021

Source: Travel Behavior Inventory. Includes only adults who live in the MPO.



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Trip replacement behavior

Percent of adults who _ on a typical weekday, 2019 vs. 2021

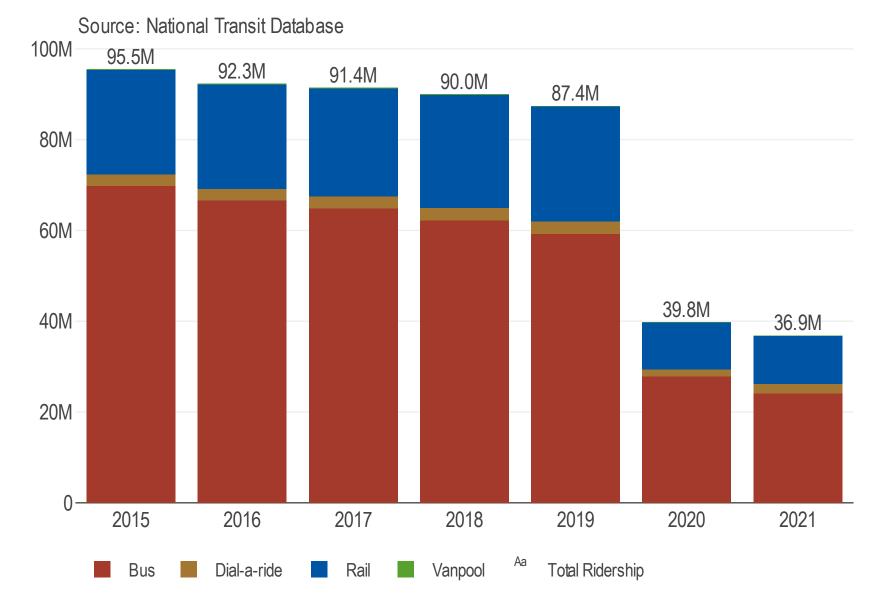
30% Survey year 2018-2019 2021 25% 20% 15% 10% 5% 0% Stayed home all Worked from Got a delivery Received home 6 hours or packages at of food day home more

Source: Travel Behavior Inventory. Includes only adults who live in the MPO.

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Transit Ridership

Twin Cities Ridership by mode

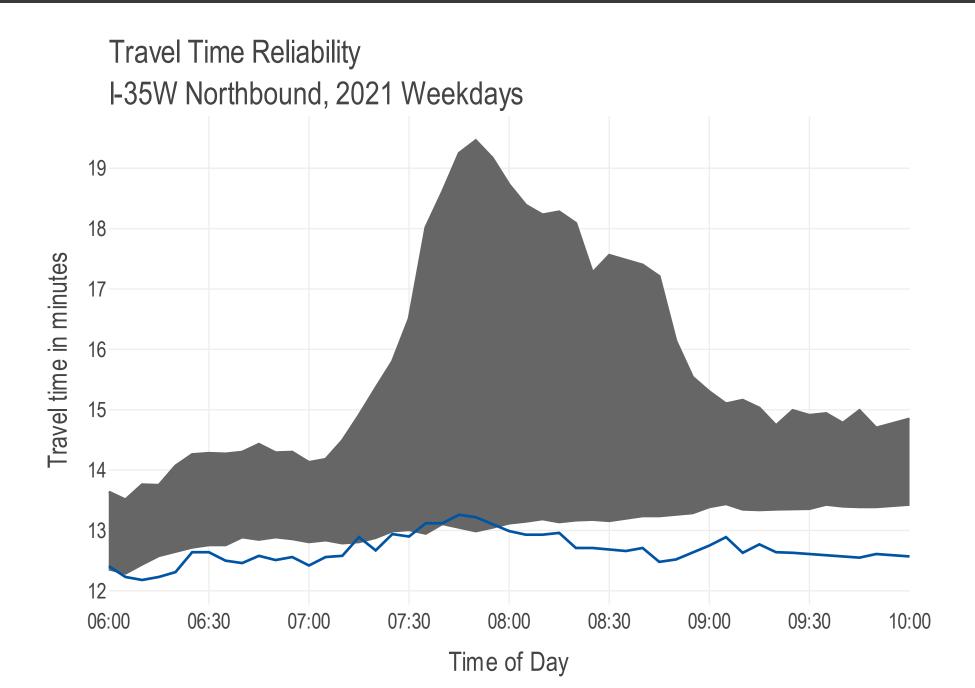


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Daily delay per commuter

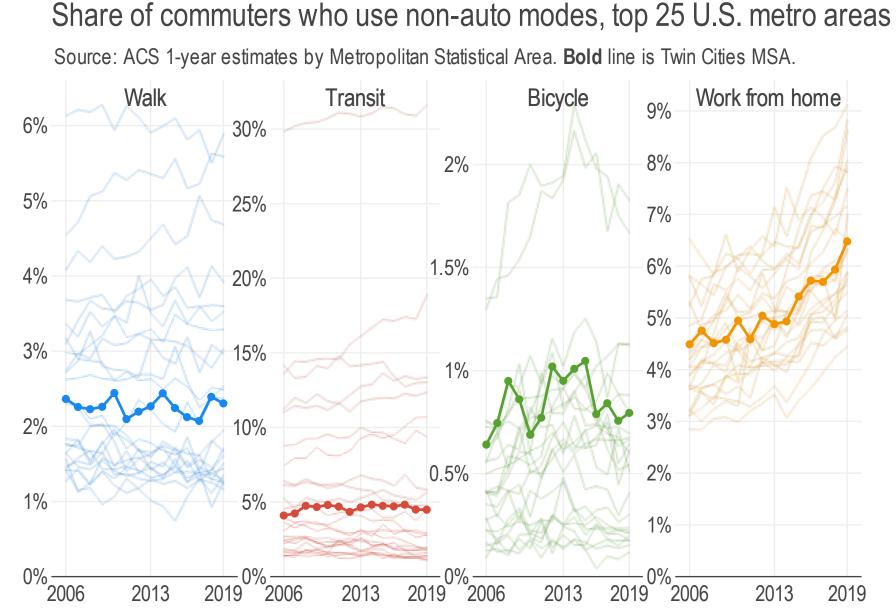
Peak-hour auto commuter delay, minutes per person per day Source: TTI Urban Mobility Report Minutes of delay Twin Cities Peer regions

E-ZPass Travel Time



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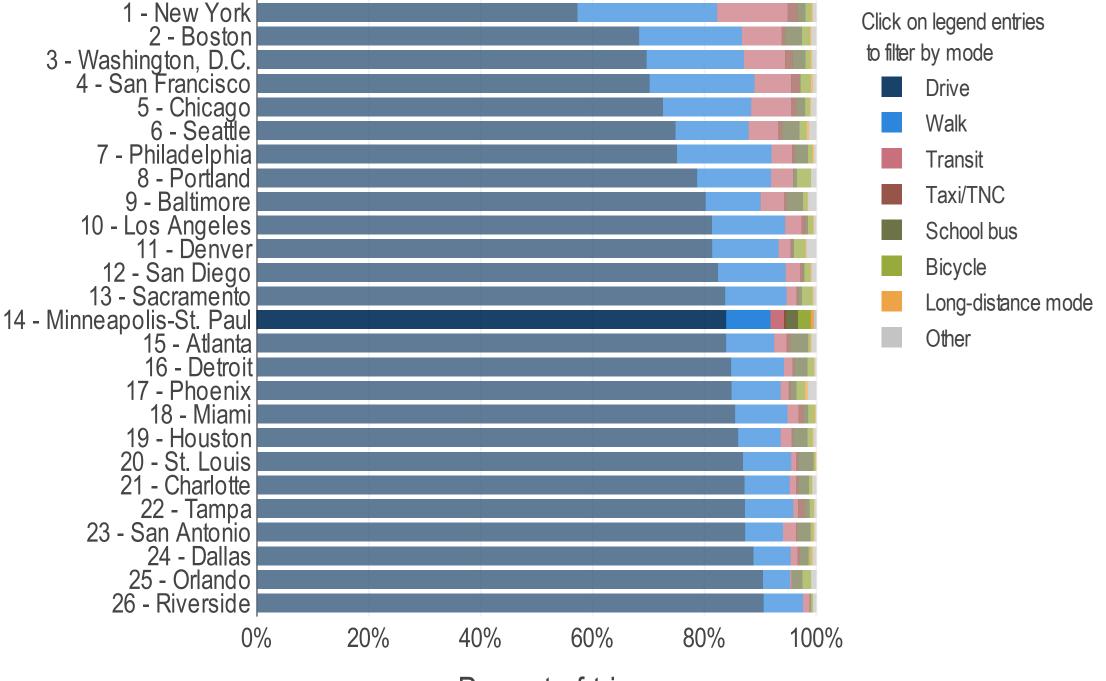
Non-auto commute modes



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How people travel in the 26 most populous U.S. metro areas

Source: 2017 National Household Travel Survey.



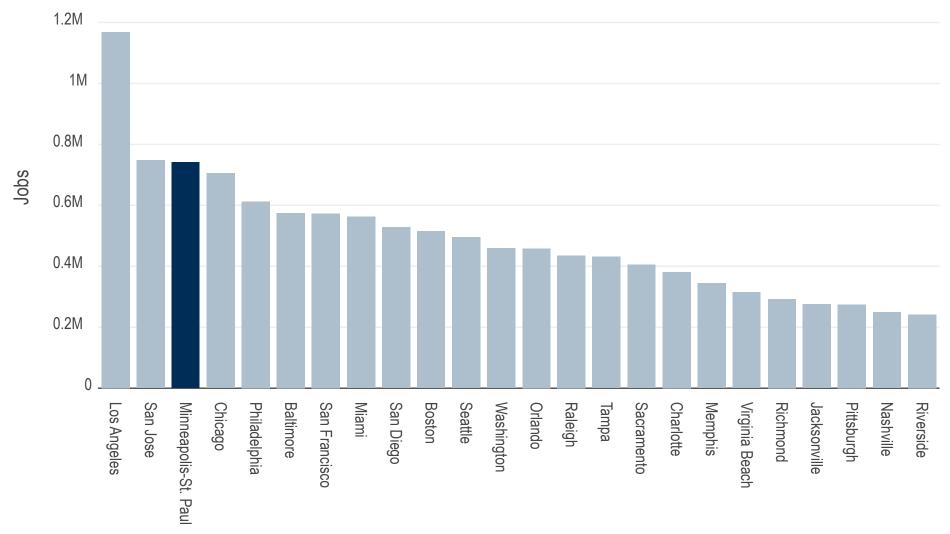
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Percent of trips

Job availability by mode

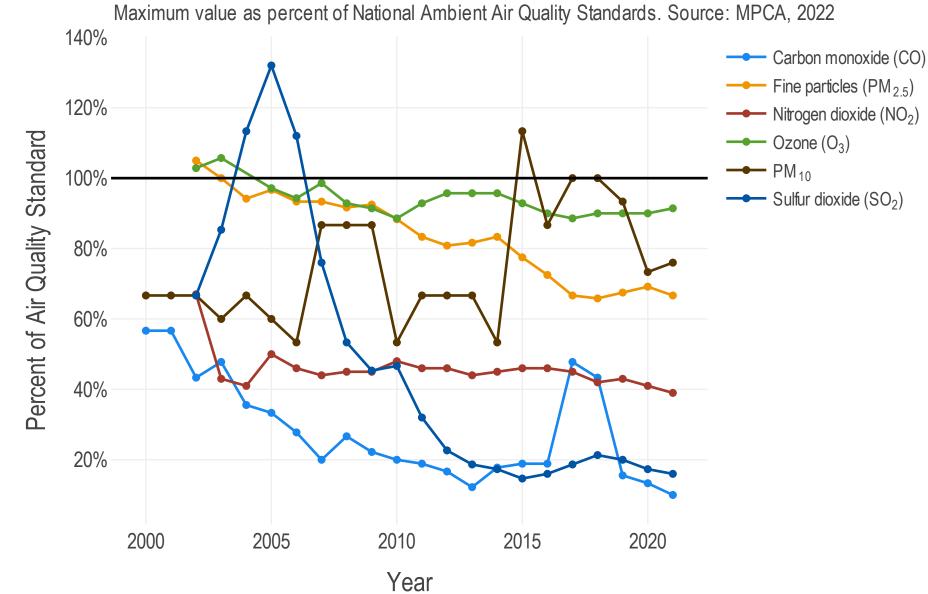
Jobs available within 30 minutes by car





Air quality

Air quality in the Twin Cities

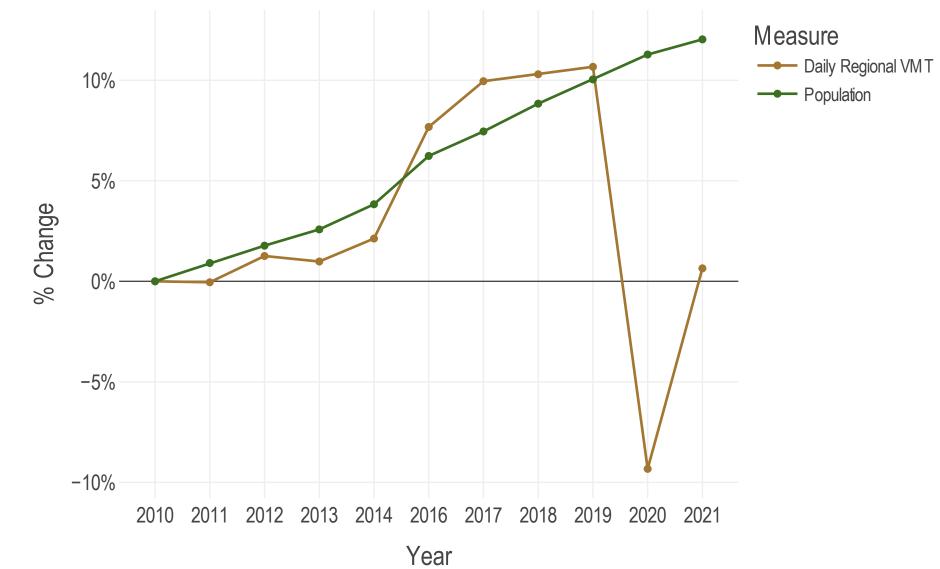


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VMT and population

Change in population and VMT since 2010

Source: Compiled Metropolitan Council, ACS, and Census population estimates and MnDOT VMT

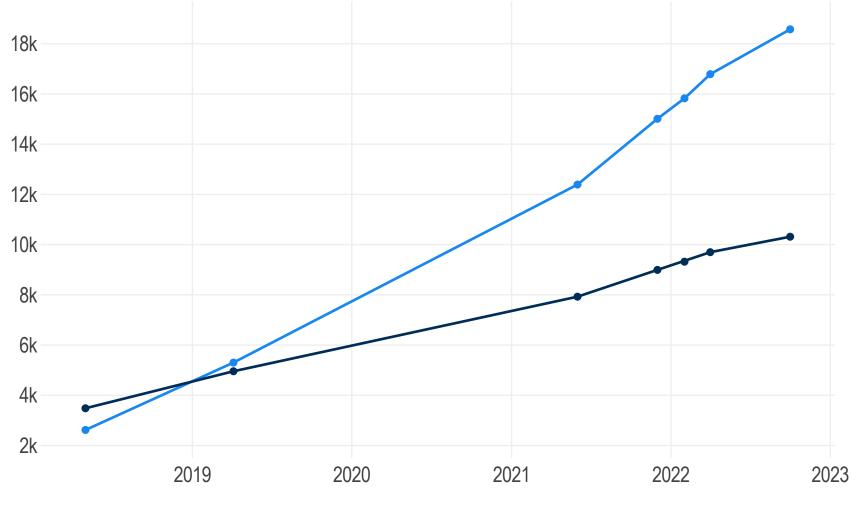


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Electric vehicles

Electric Vehicle Registrations

Combined original and renewal registrations. Source: MnDOT Electric Vehicle Dashboard

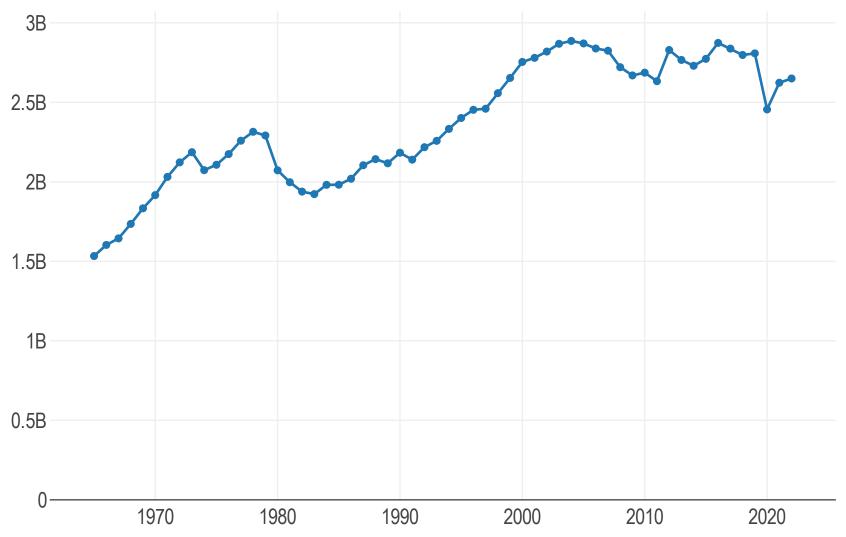


Battery EV — Plug-in Hybrid EV

Gasoline consumption

Statewide gasoline consumption

Source: MN Department of Revenue. Aviation and special fuel not included.

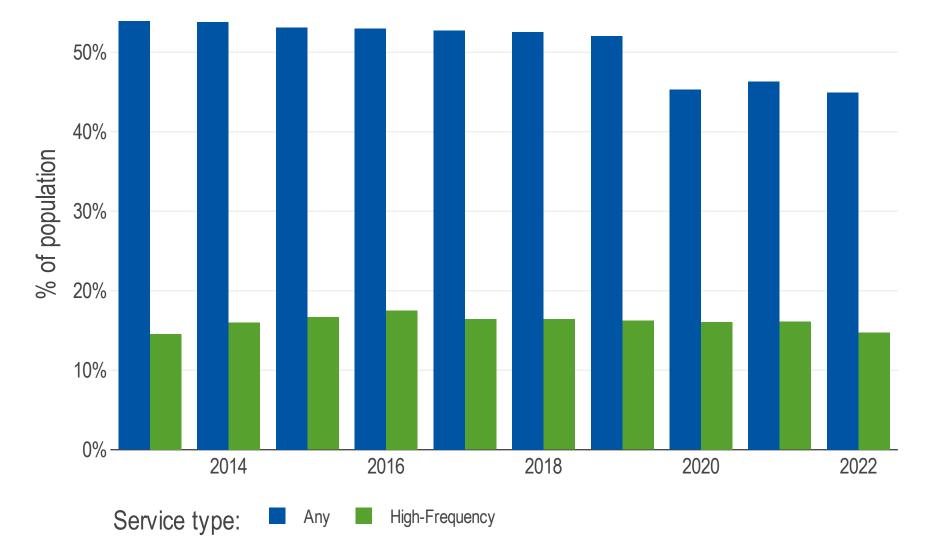


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High-frequency transit

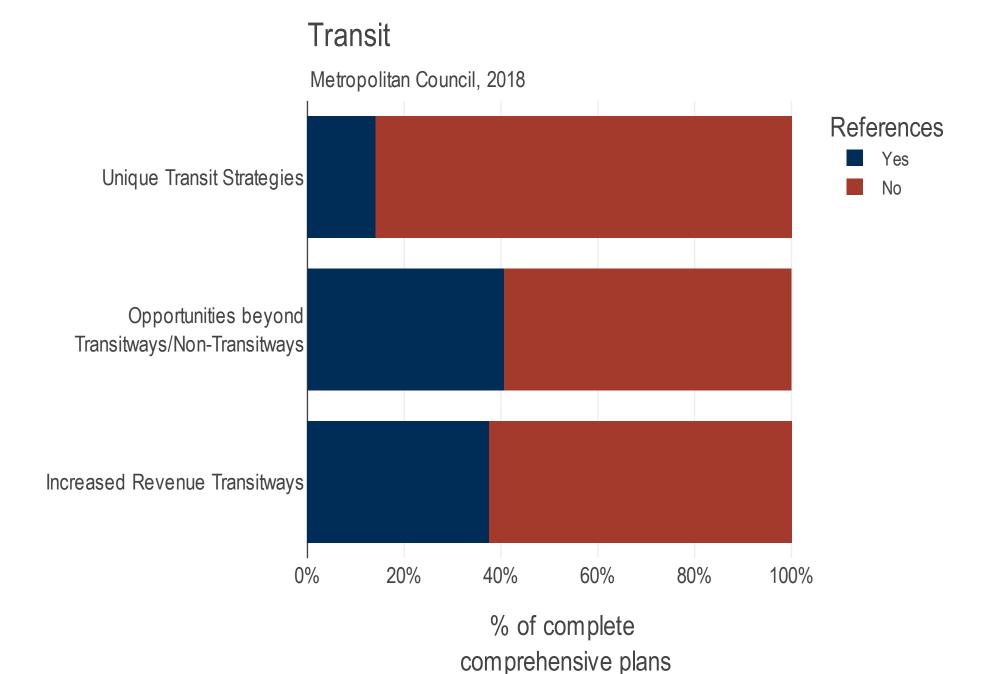
Share of population within a 10 min. walk of transit, by service type

Source: Open Mobility Data (transit feeds), Census ACS (population estimates), and Metro Transit (walkshed



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Comprehensive plans



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Thank you

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