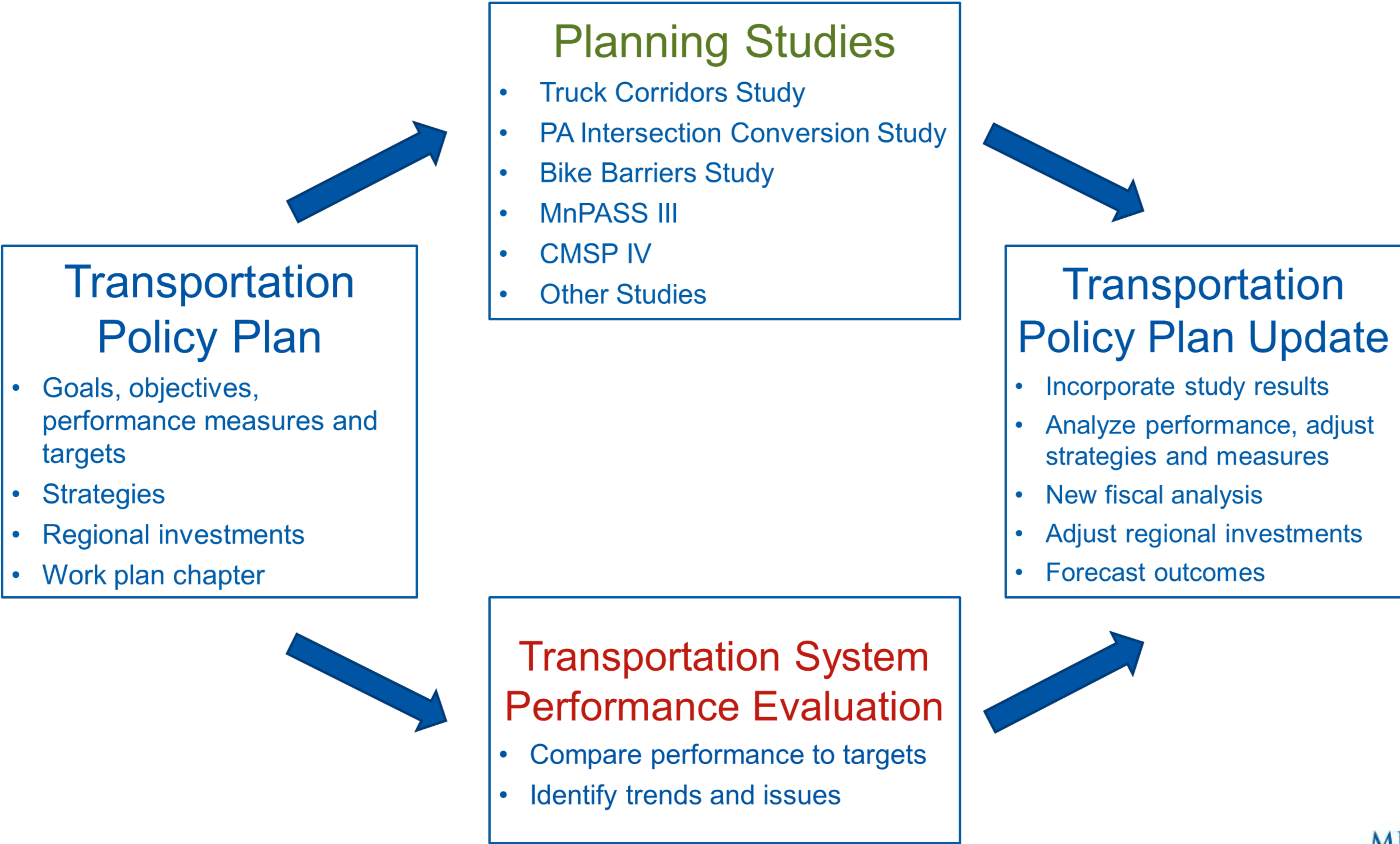


# 2020 Transportation System Performance Evaluation

# Planning Work and the TPP



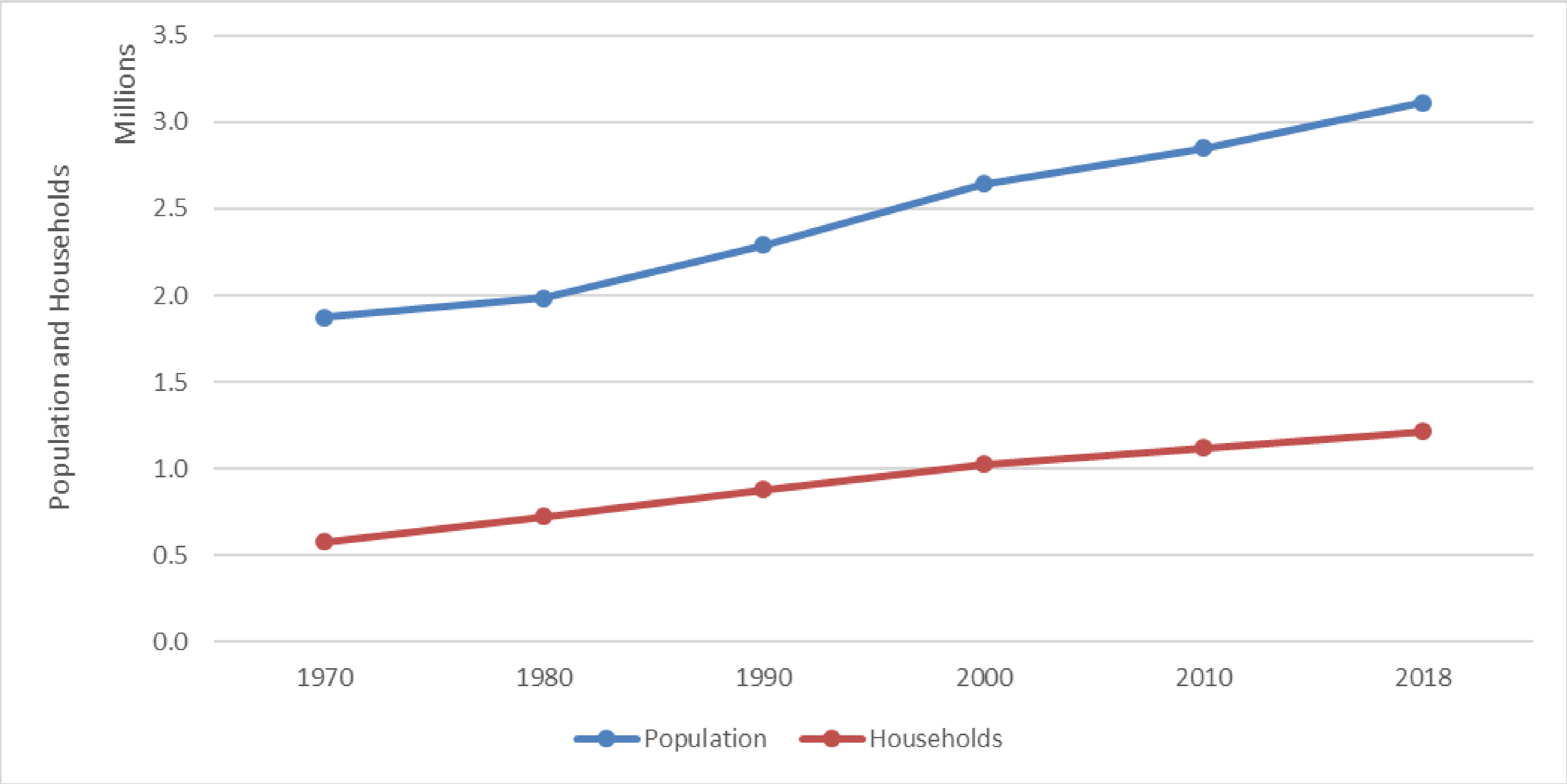
# Overview

- Comprehensive review of the regional transportation system performance
  - Demographics
  - Highway
  - Aviation
  - Bicycle and Pedestrian
  - Transit
  - Freight
- Prepared to inform the 2020 update of the ***Transportation Policy Plan***
- Incorporates performance measures relevant to ***2040 TPP*** goals and ***Thrive MSP 2040*** outcomes

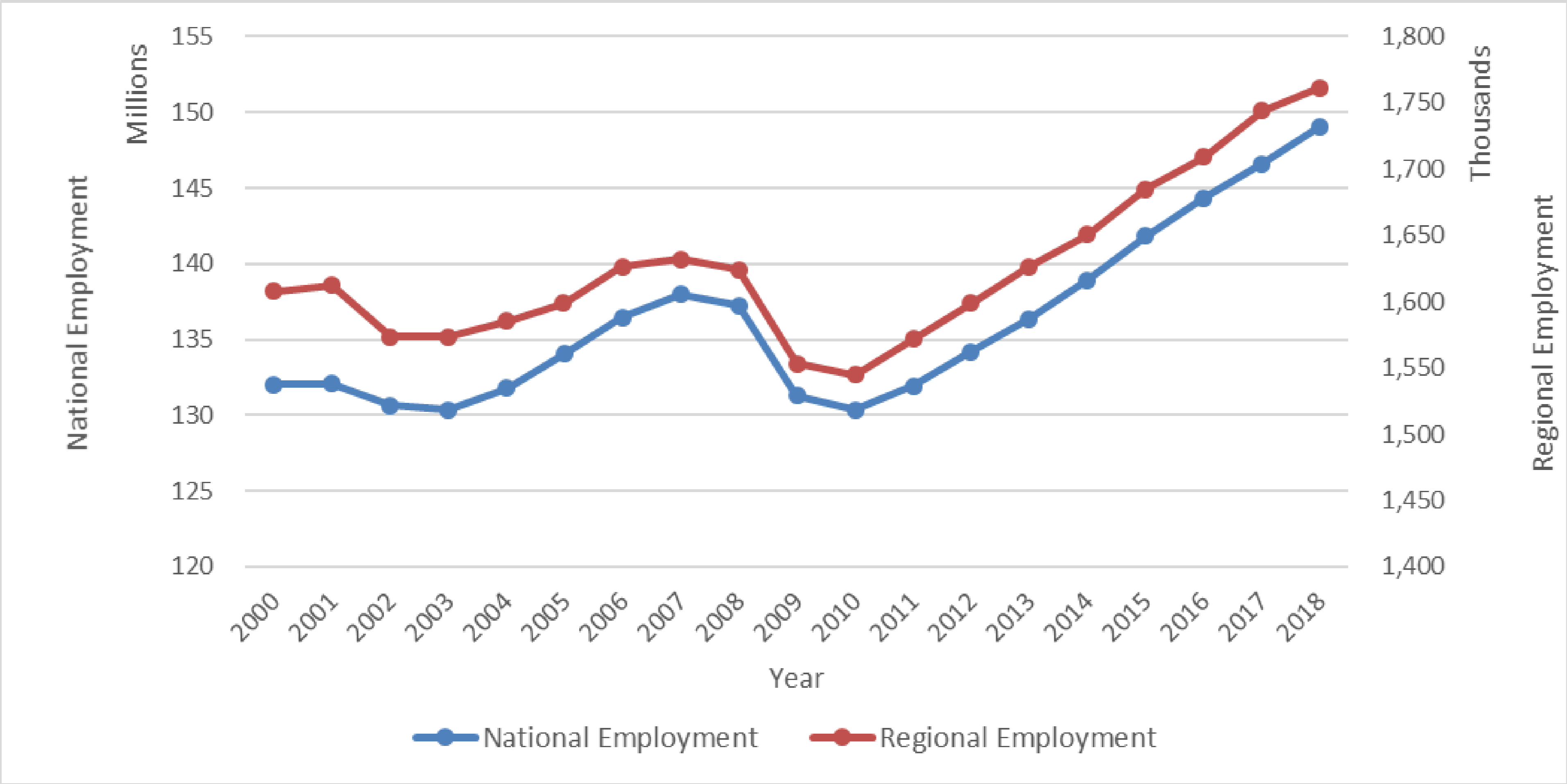
# Legislative Requirement

- Before each TPP update, the TSPE is required to:
  - Evaluate transportation system's ability to effectively and efficiently transport goods and people
  - Evaluate trends and impacts
  - Assess success in meeting regional transportation benchmarks
  - Compare transit system performance to peer regions

# Demographics: Pop & Household

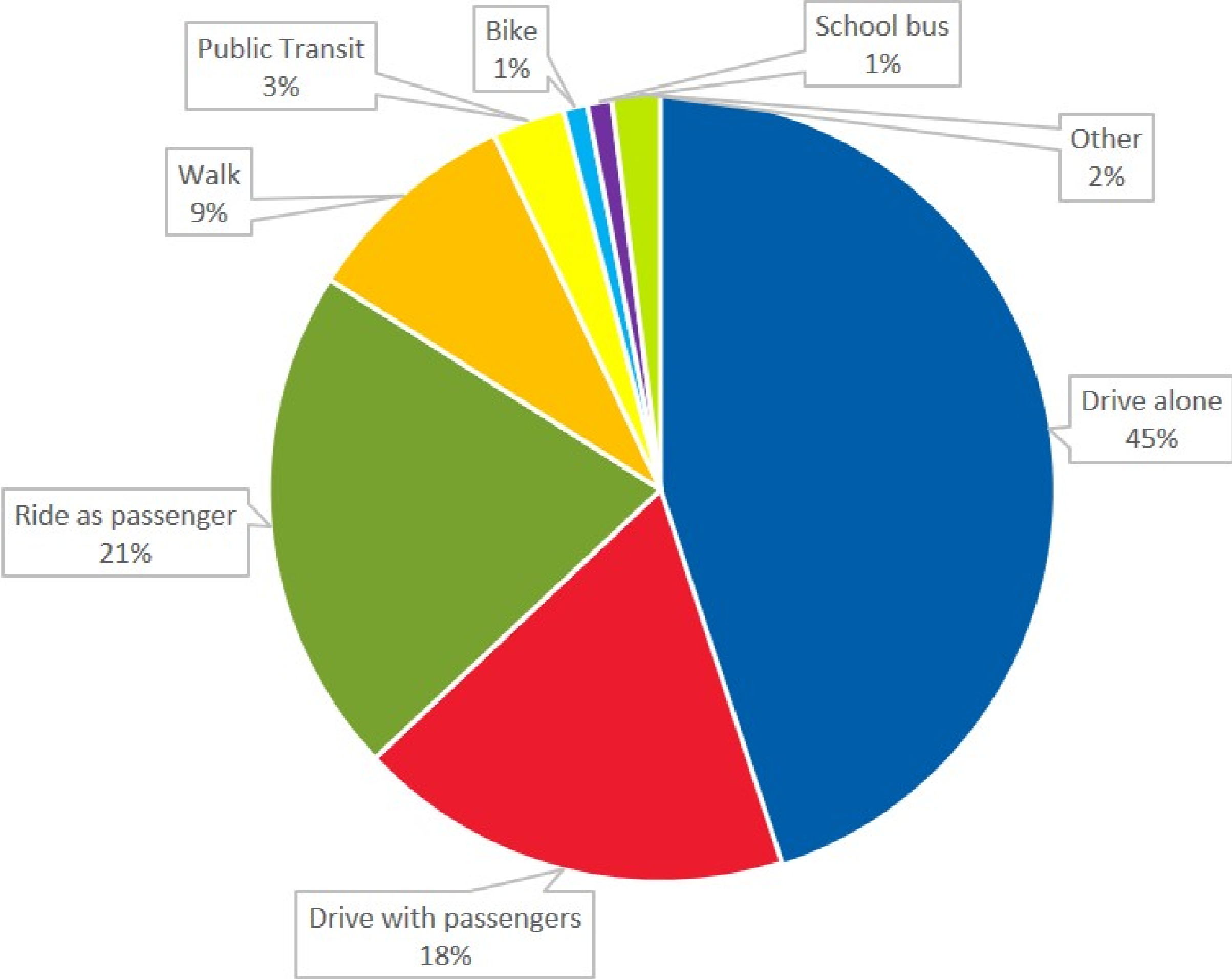


# Demographics: Jobs

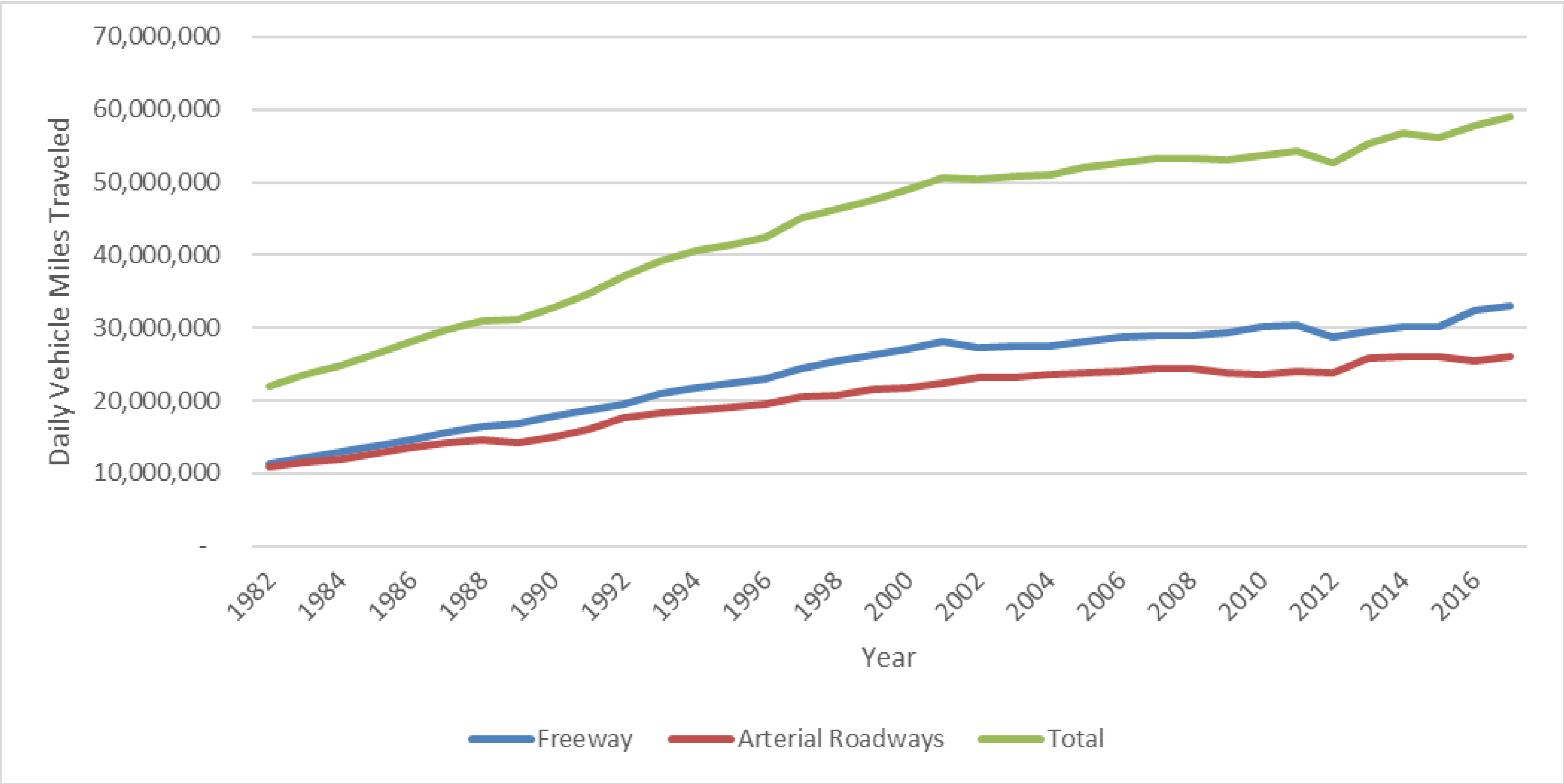




# Travel Mode Use

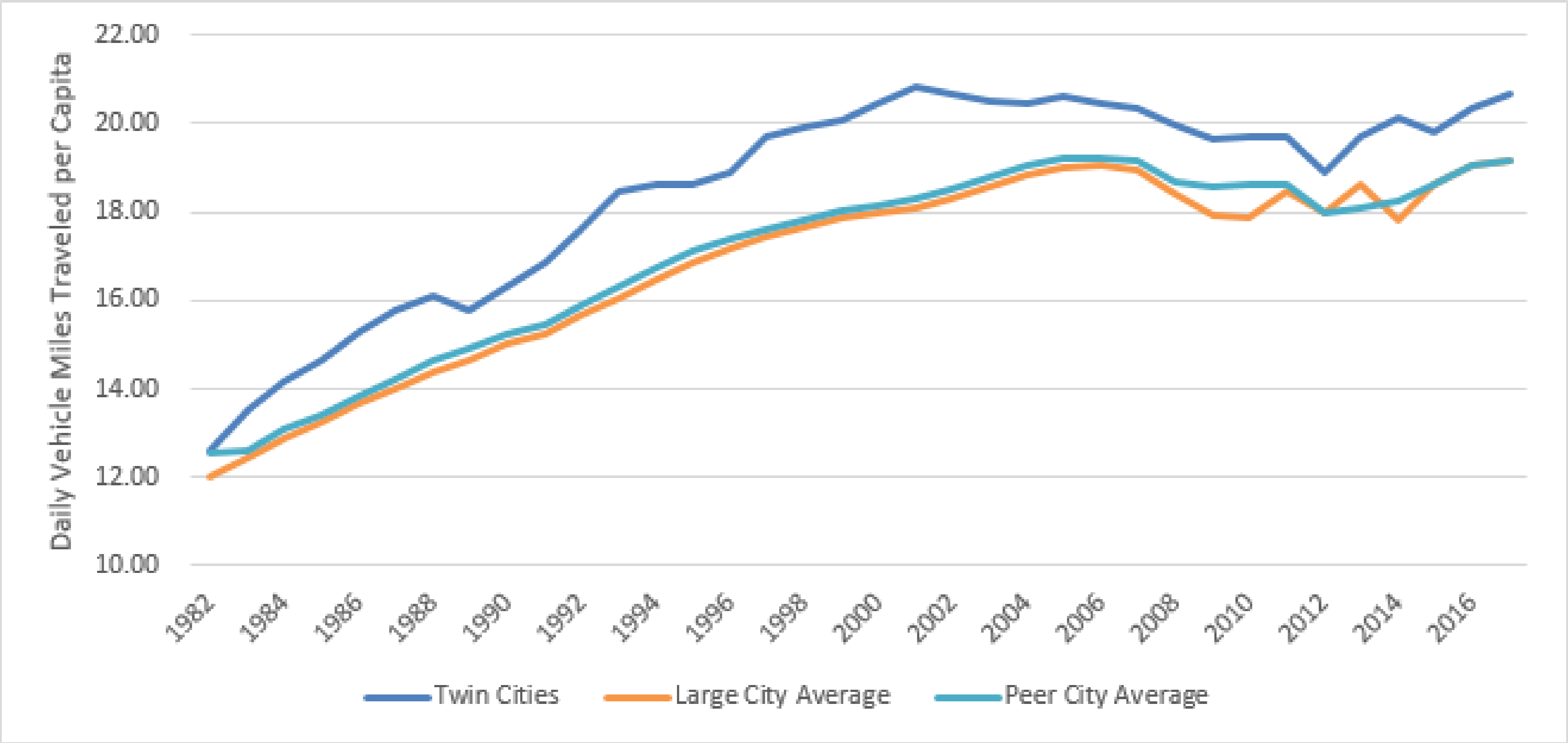


# Vehicle Miles Traveled (VMT)





# VMT per Person



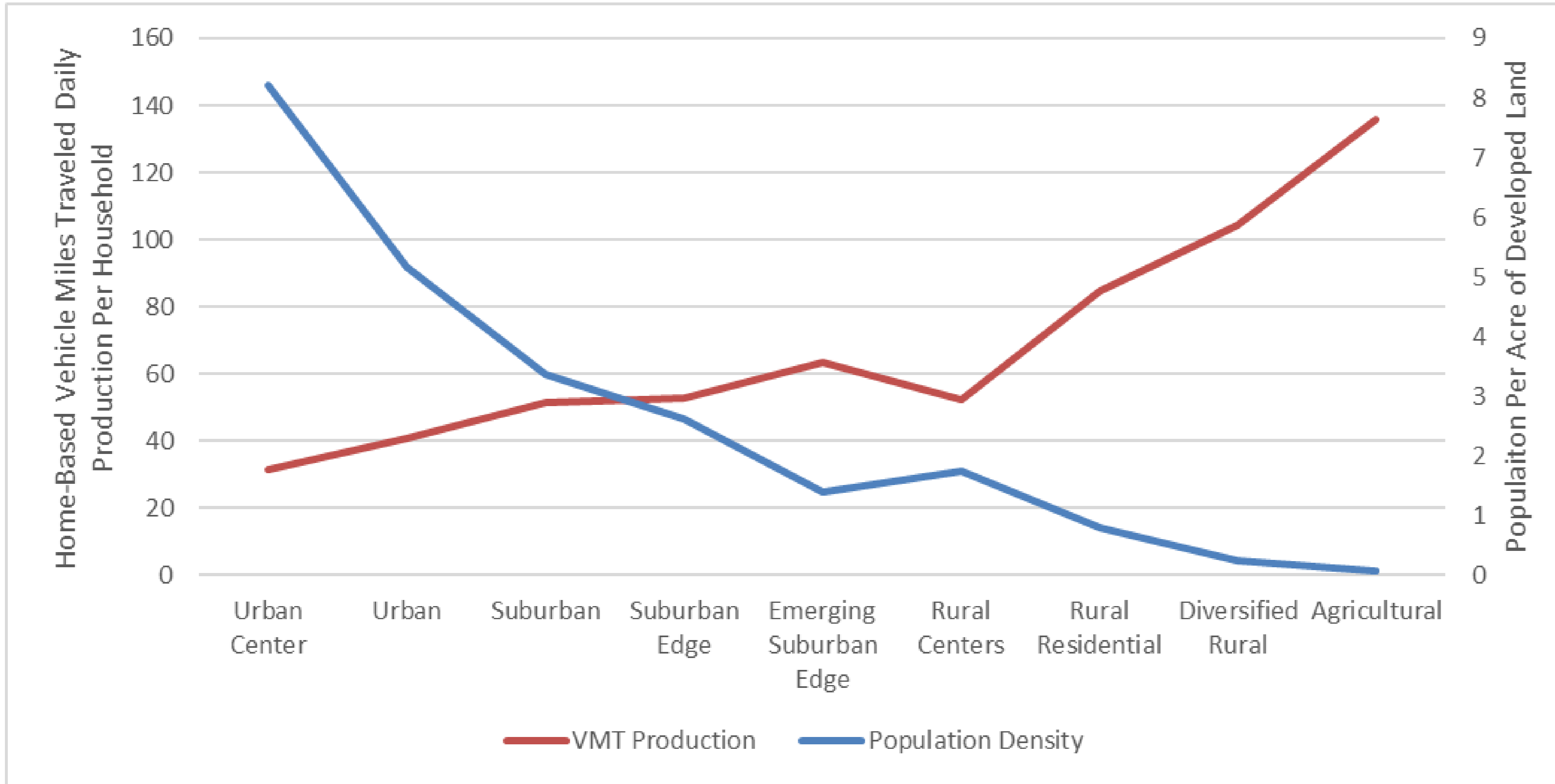
Source: Texas Transportation Institute



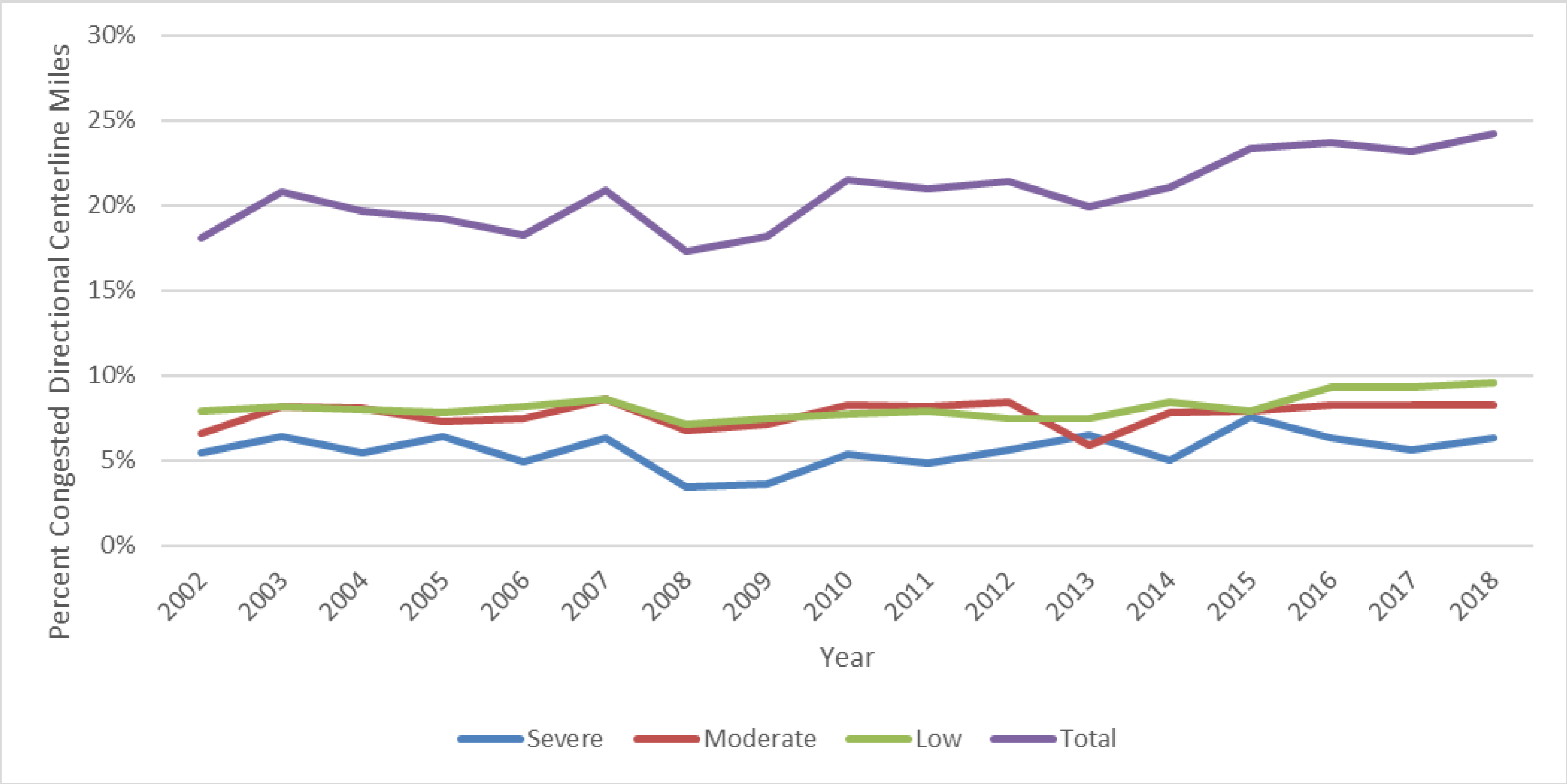
# Highway System Peer Regions

- Seattle
- Portland
- Denver
- St. Louis
- Milwaukee
- Dallas
- Cincinnati
- Cleveland
- Pittsburgh
- Baltimore

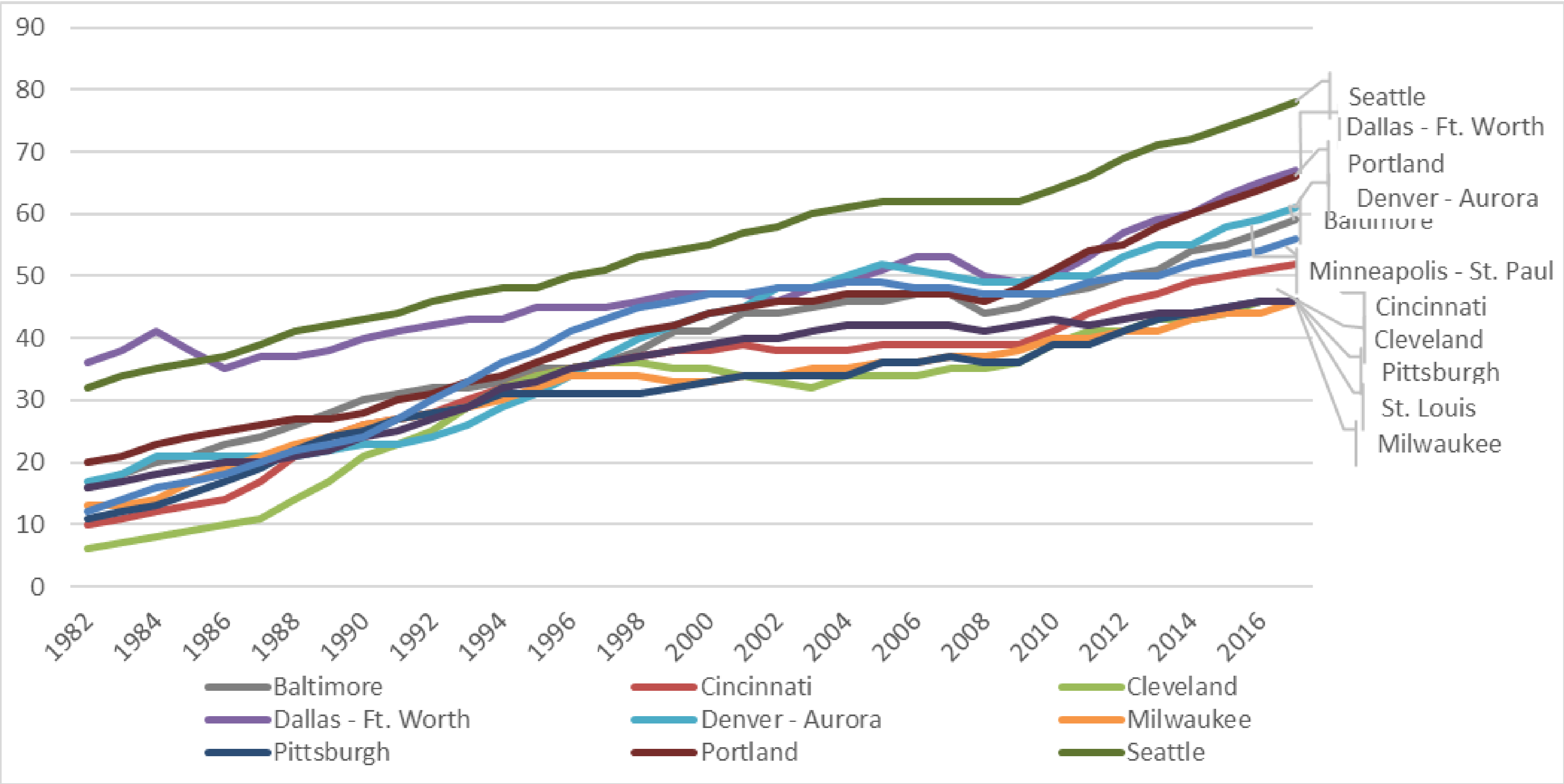
# Travel and Density



# Highways: Congestion



# Highways: Annual Delay per Auto Commuter

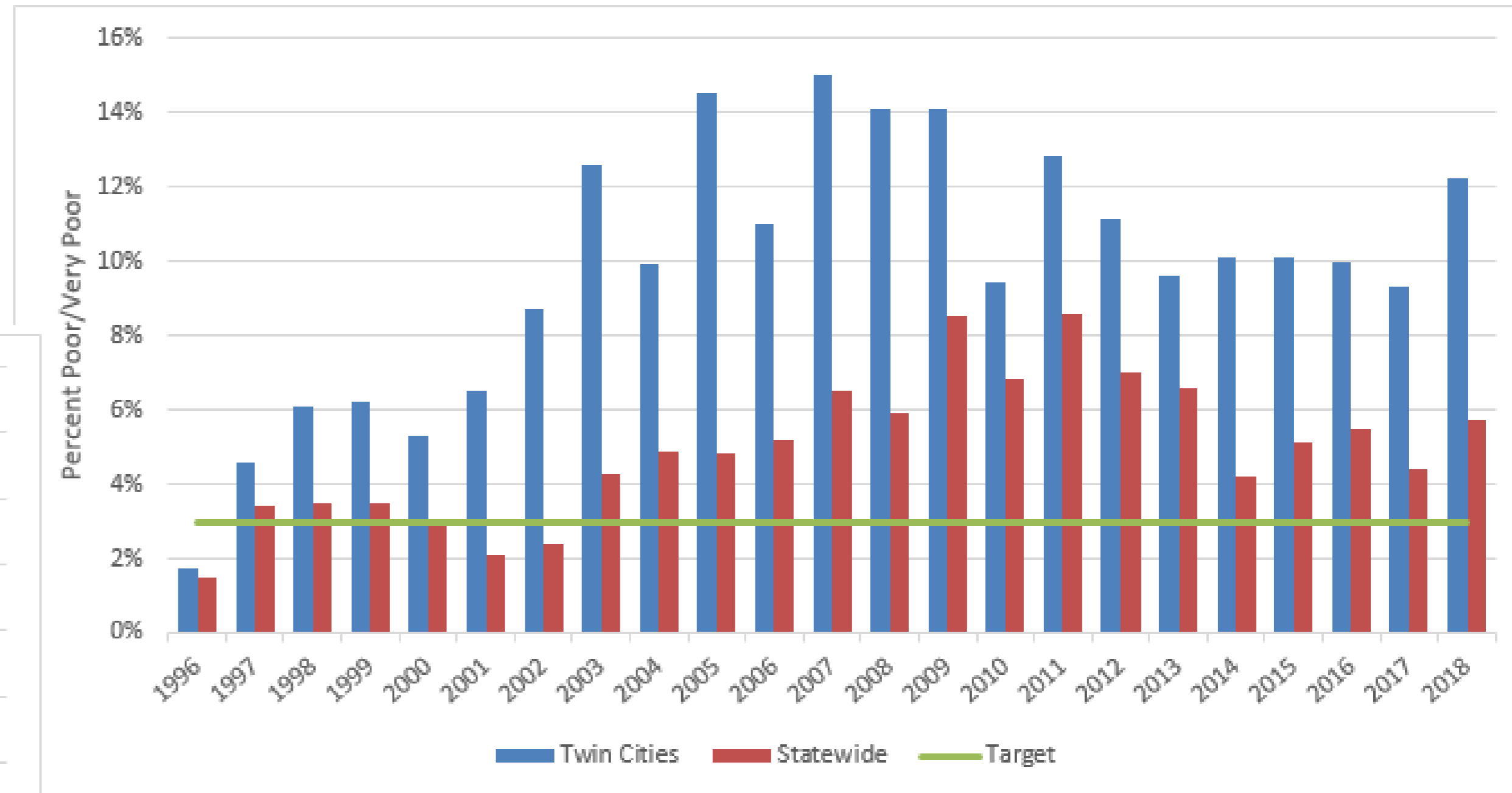


# Highways: Pavement Condition (MnDOT PAs)

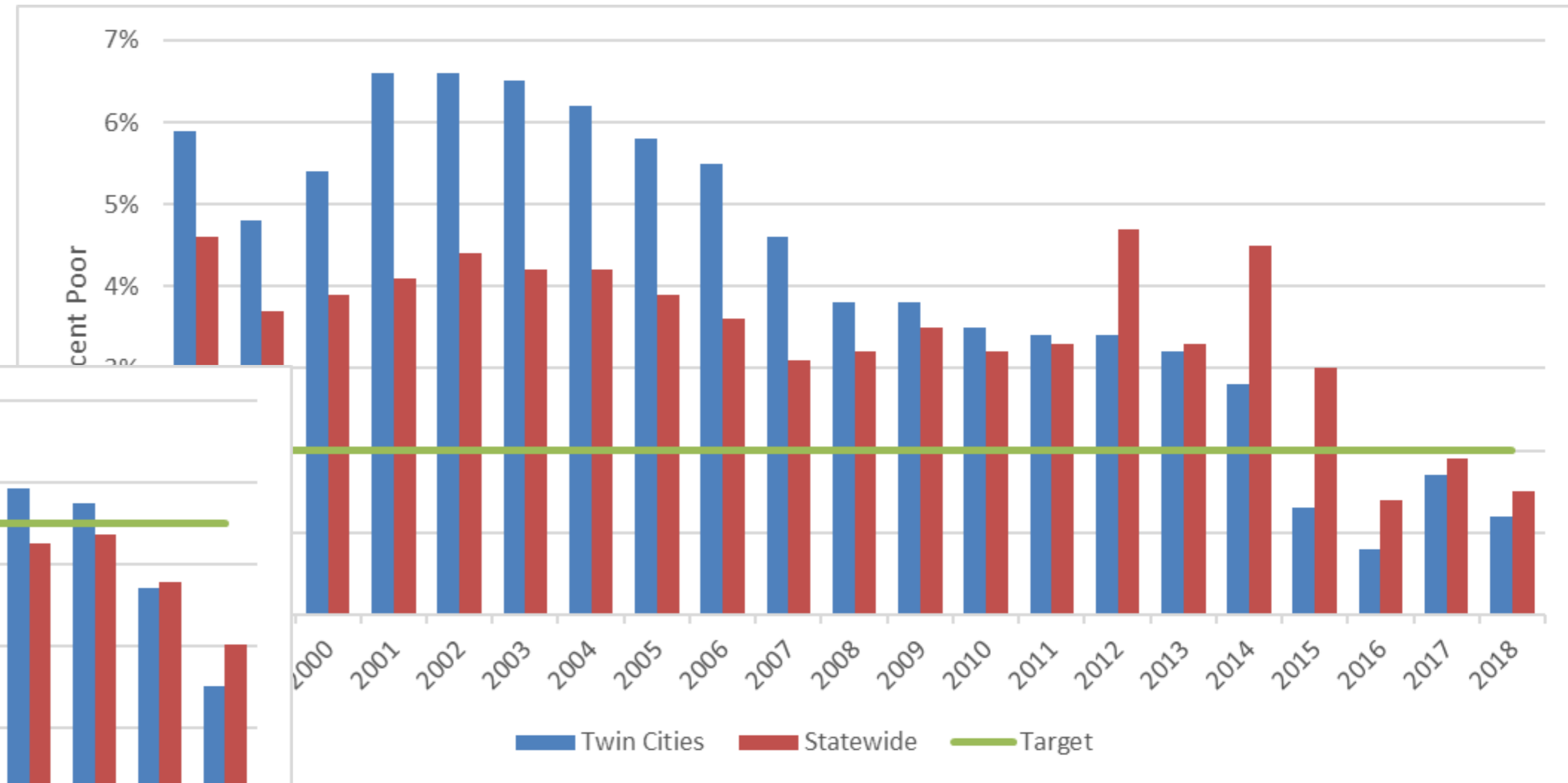
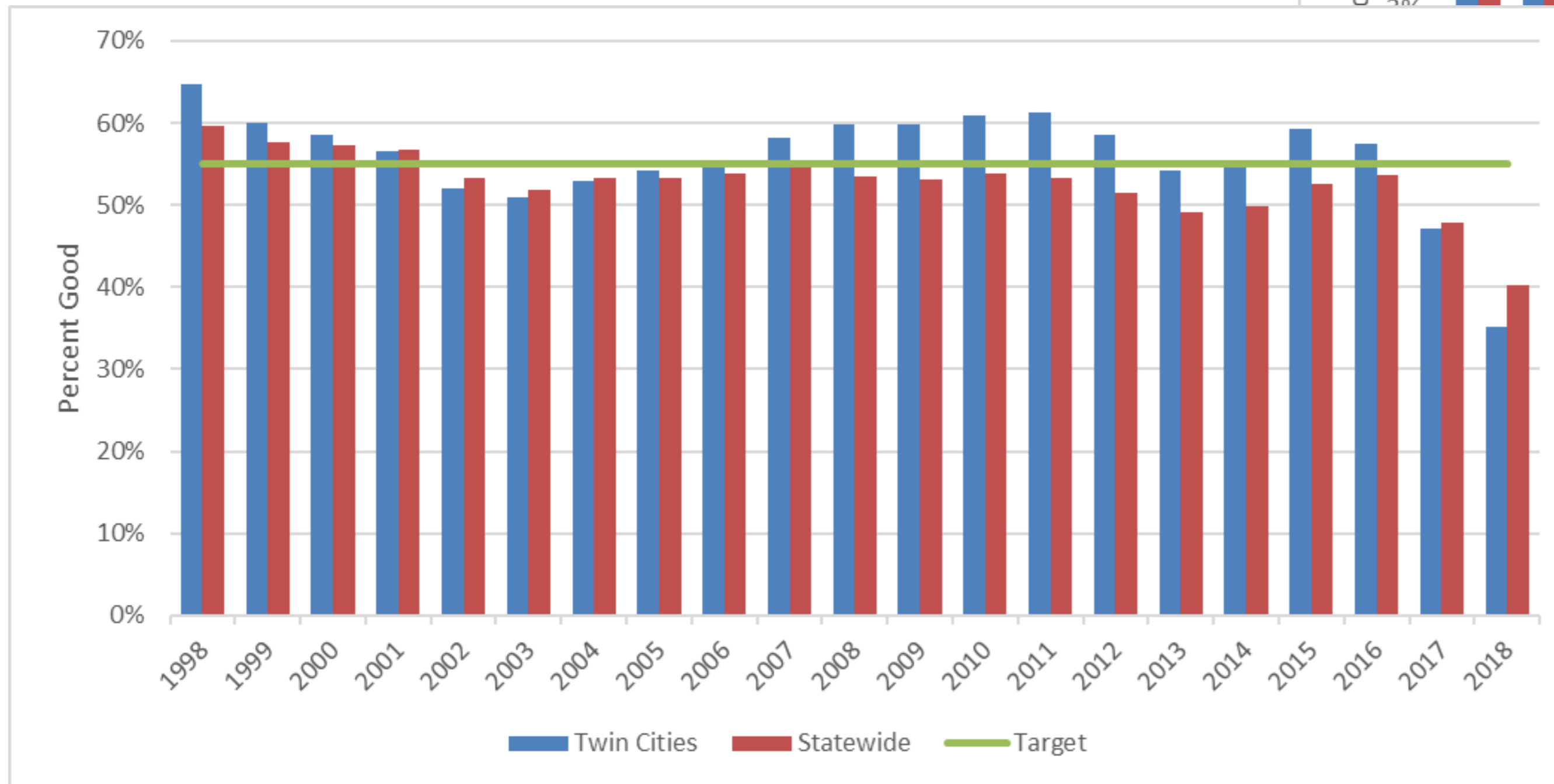




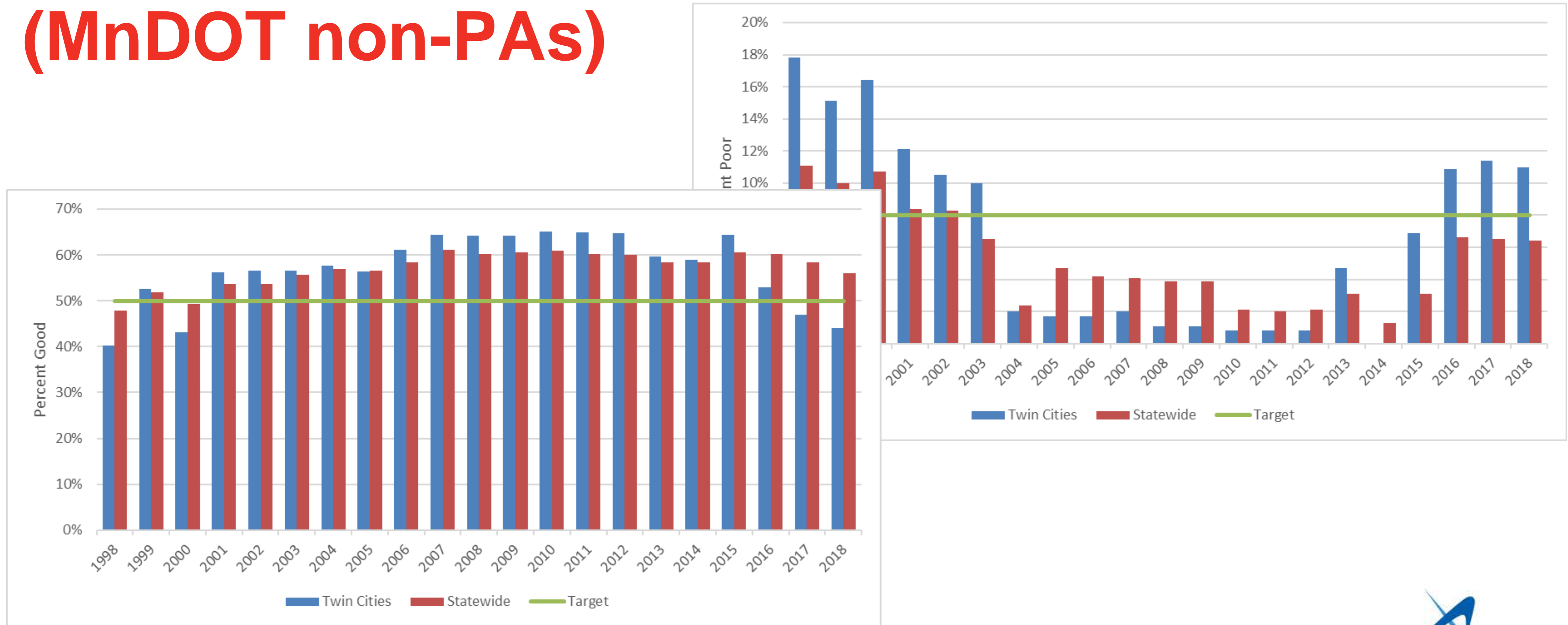
# Highways: Pavement Conditions (MnDOT non-PAs)



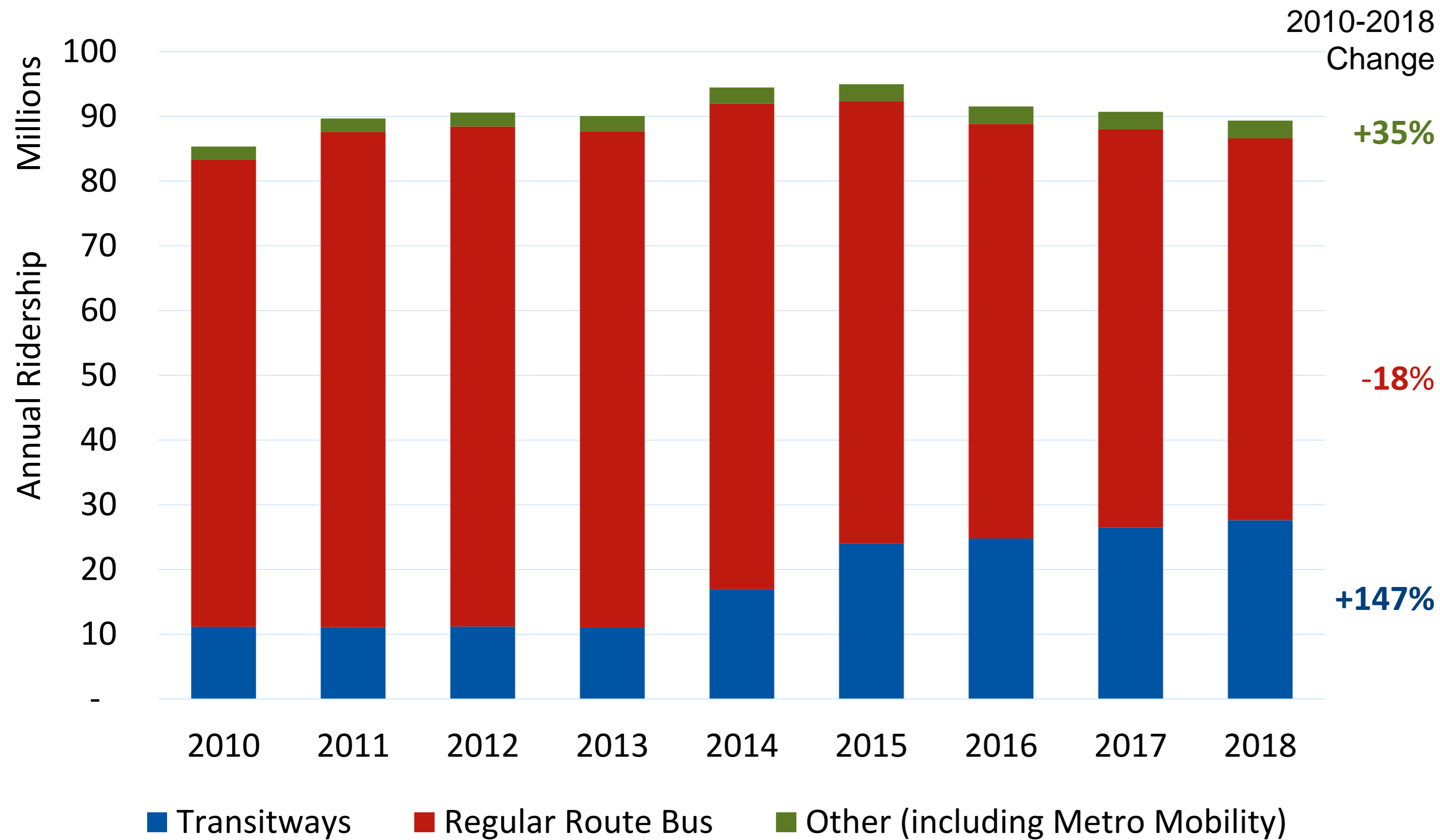
# Highways: Bridges (MnDOT PAs)



# Highways: Bridges (MnDOT non-PAs)

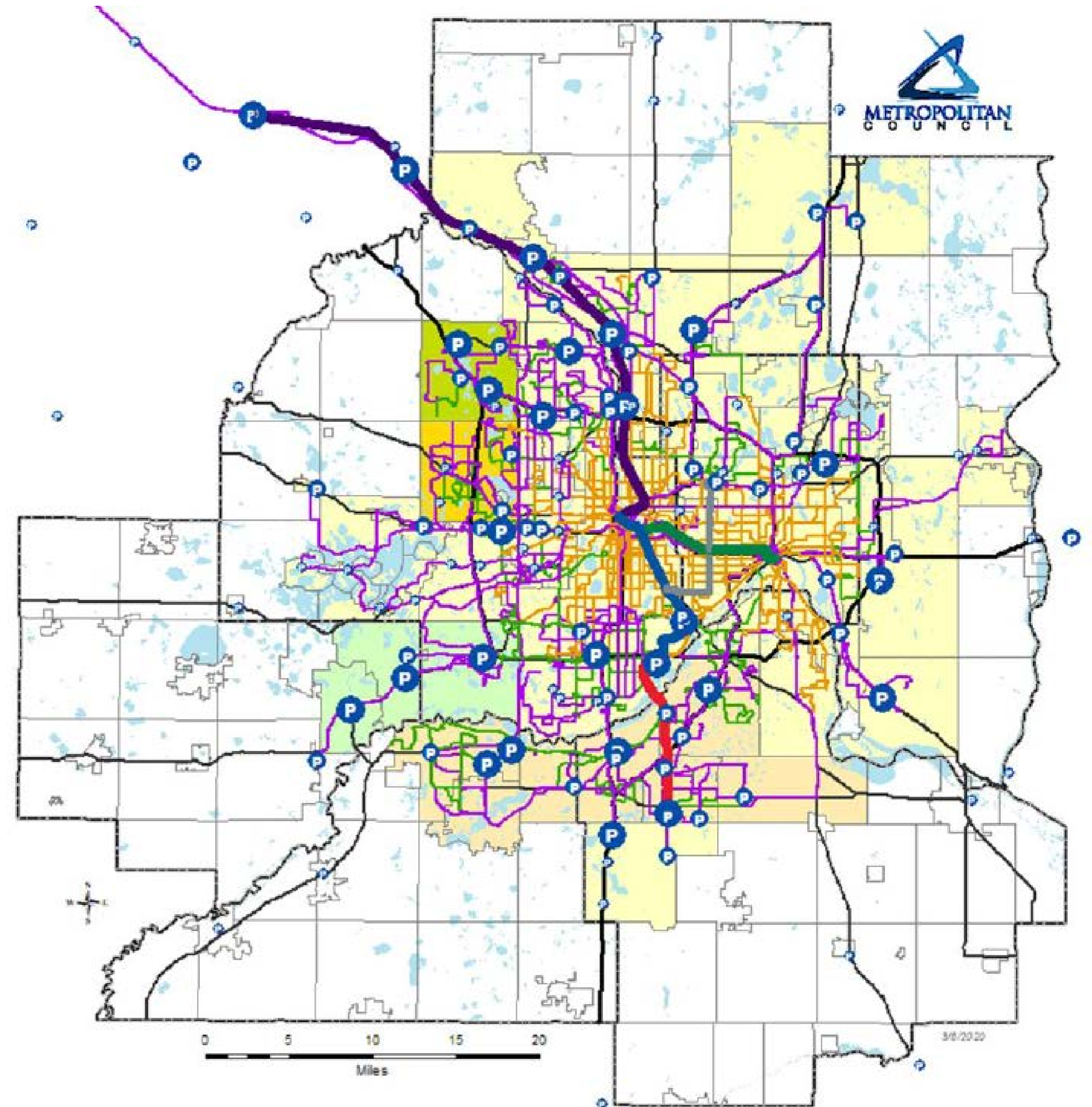
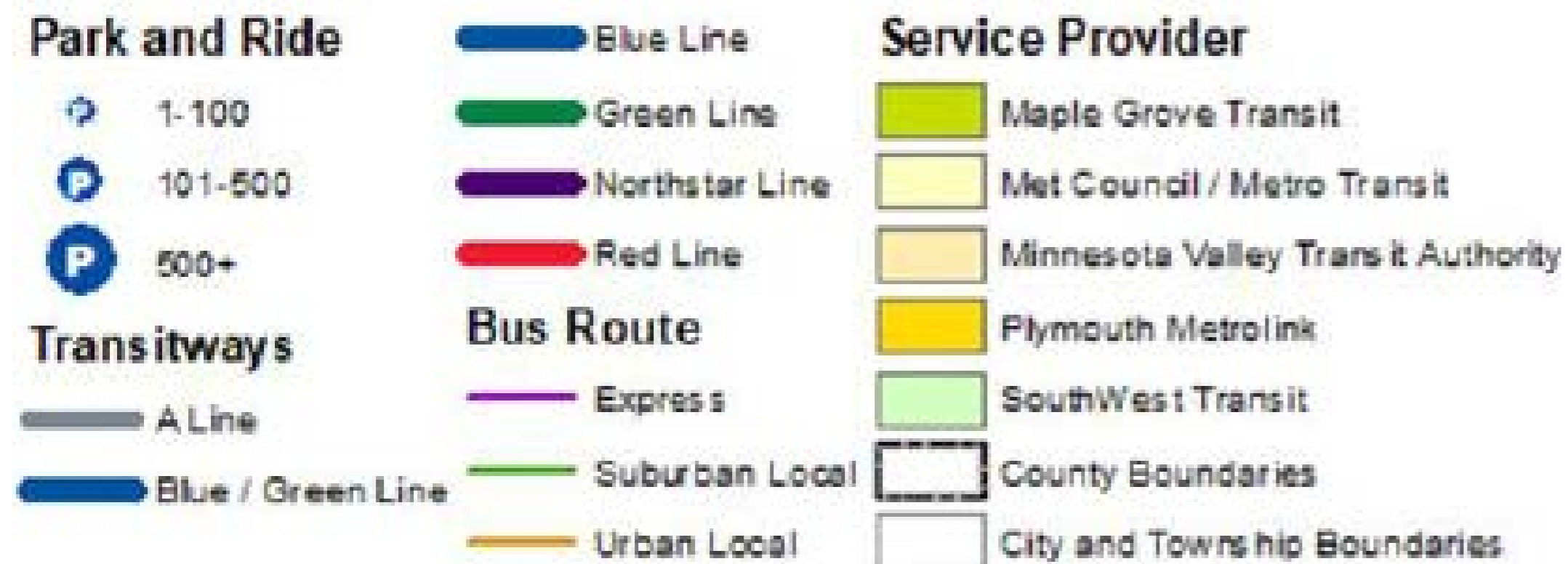


# Transit System Ridership



- Local and Express bus ridership down
- Transitway ridership up
- Metro Mobility ridership up

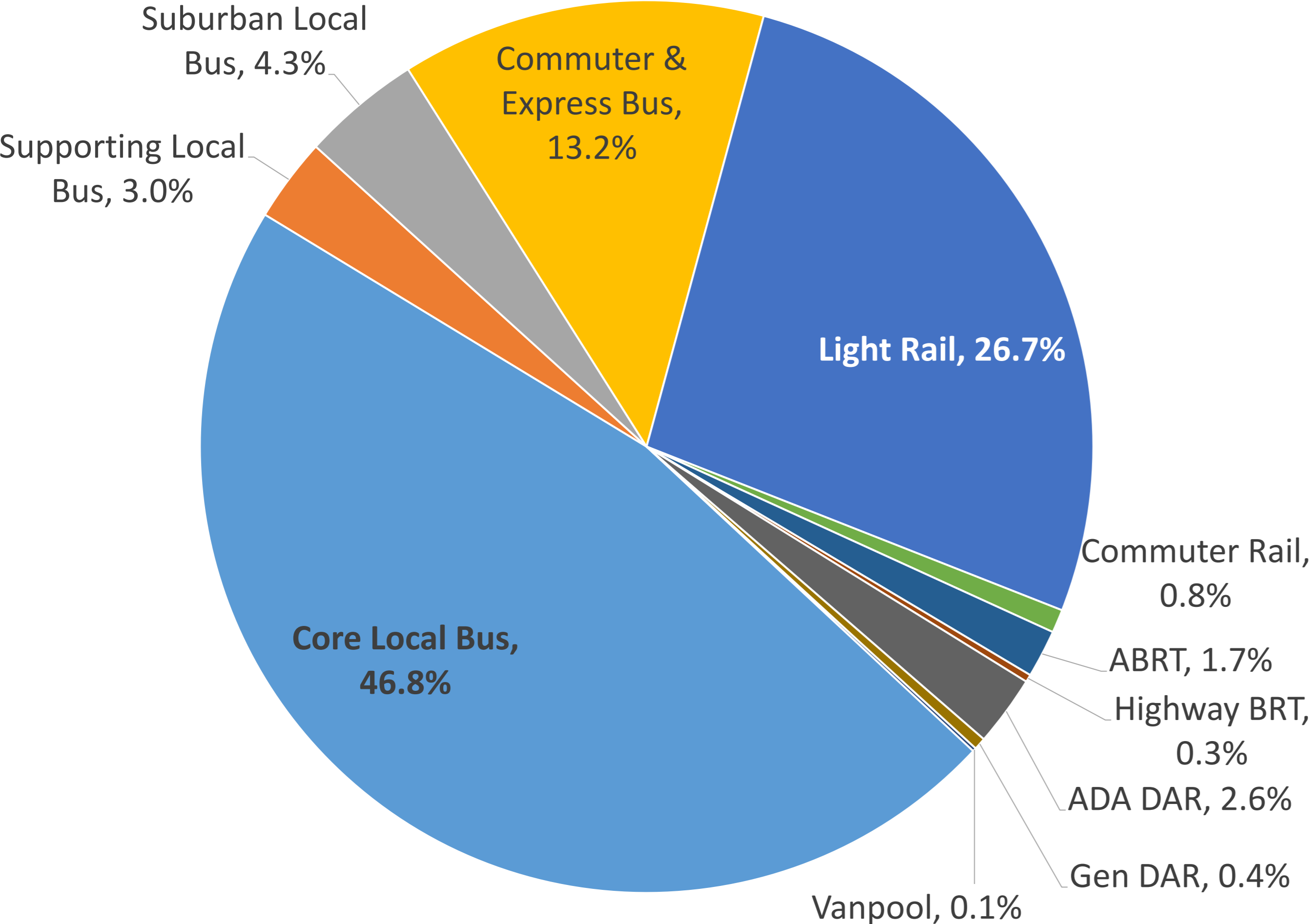
# Transit Service By Route Type





# Transit Performance by Route Type

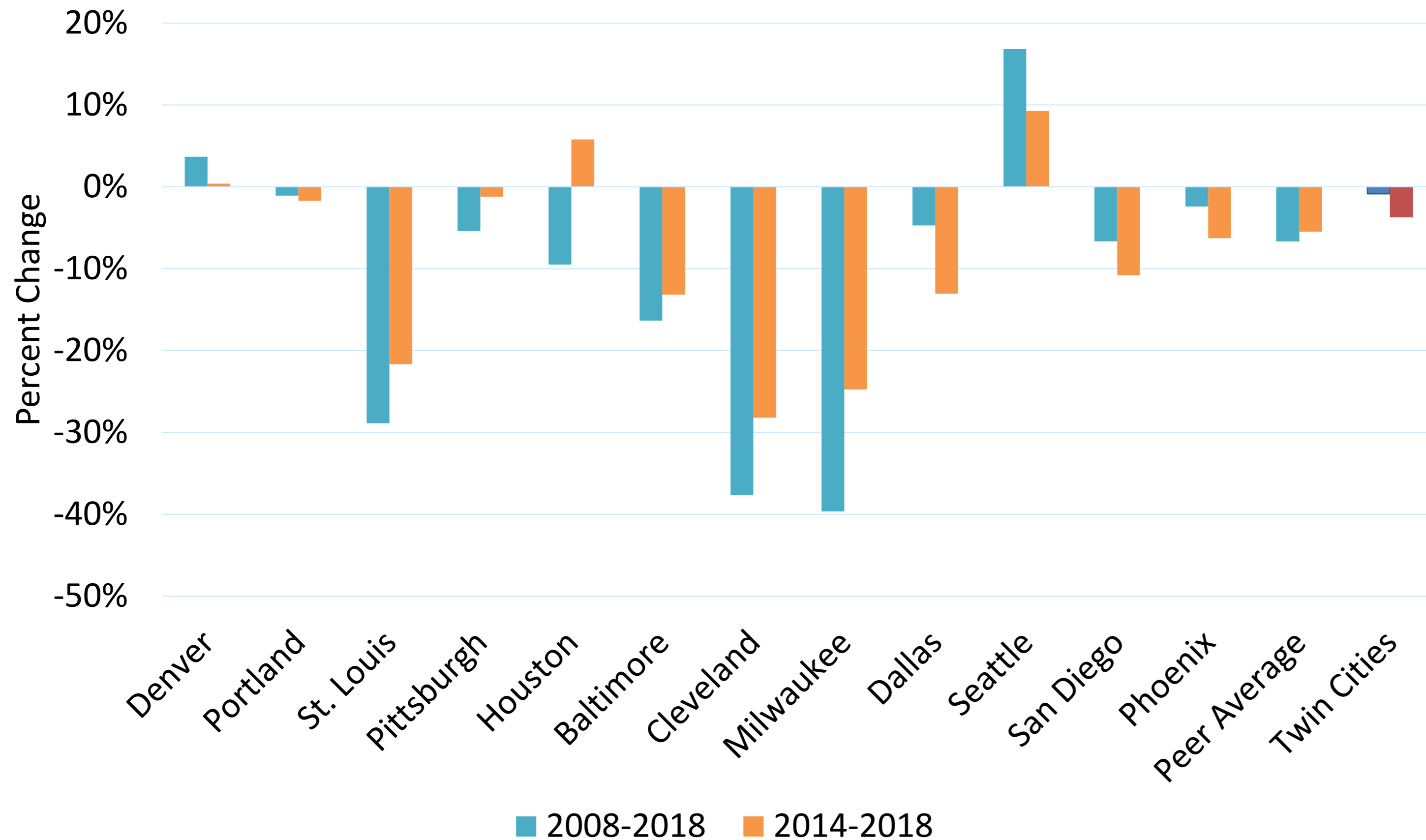
2018 Ridership by Route Type



Route Type	Pass. Per In Service Hour
Core Local Bus	35.5
Supporting Local Bus	18.6
Suburban Local Bus	16.3
Commuter & Express Bus	29.1
<b>Regular Route Bus Total</b>	<b>30.6</b>
Light Rail	212.2
Commuter Rail	246.7
Arterial BRT	42.9
Highway BRT	21.1
ADA Dial-A-Ride	1.7
Gen Dial-A-Ride	2.6
Vanpool	3.7
<b>Regional Total</b>	<b>24.2</b>



# Transit System Peer Ridership



- Transit ridership in the region reflects national trends of ridership decline
- Regional ridership decline at slower rate than peer average

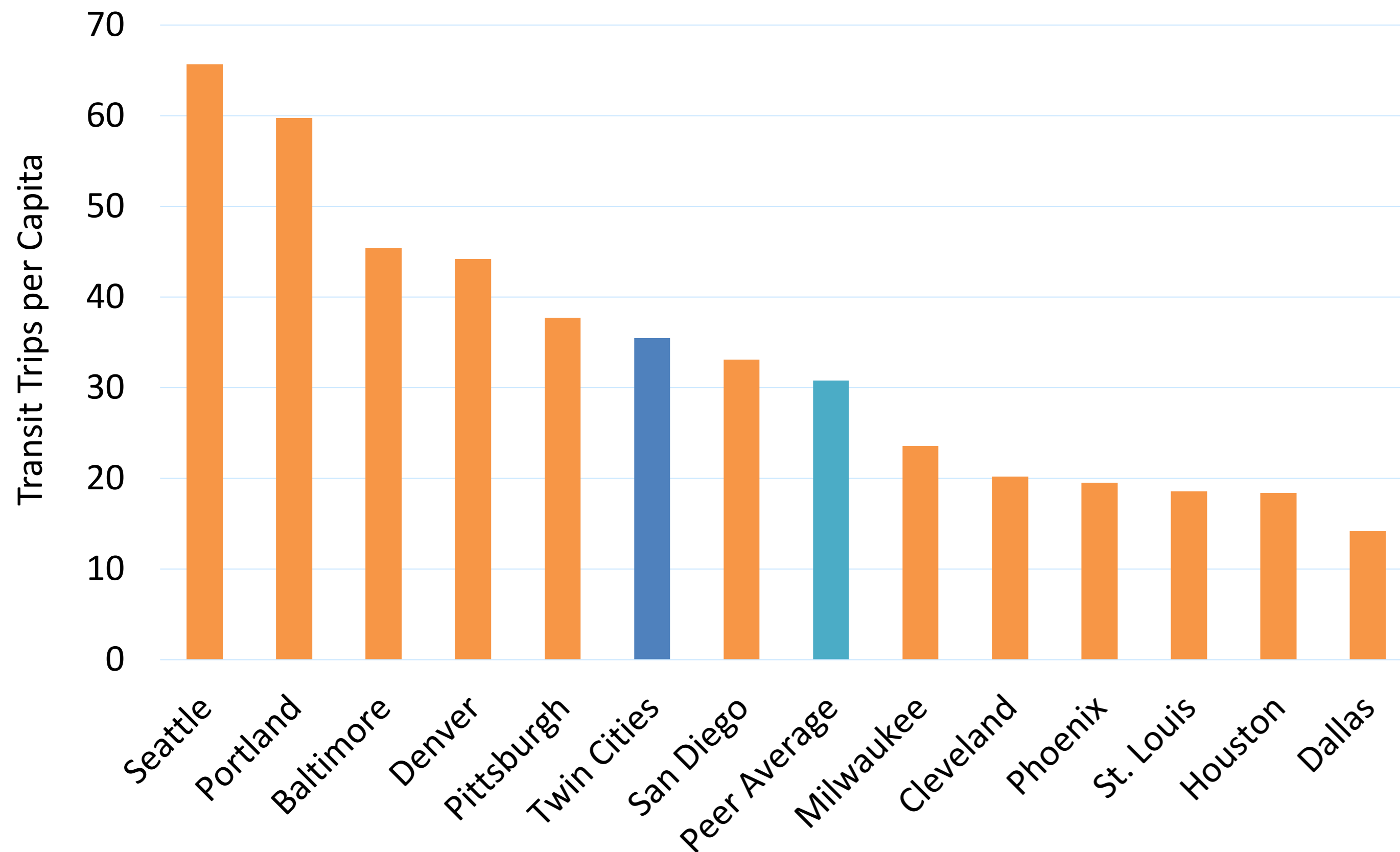
# Transit System Peer Subsidy per Passenger

(Adjusted for inflation, 2018\$)



- Subsidy per passenger has grown both in the region and amongst peers
- Increased with substantial service expansion for Green Line
- Also affected by bus ridership decreases and Met Mo increases

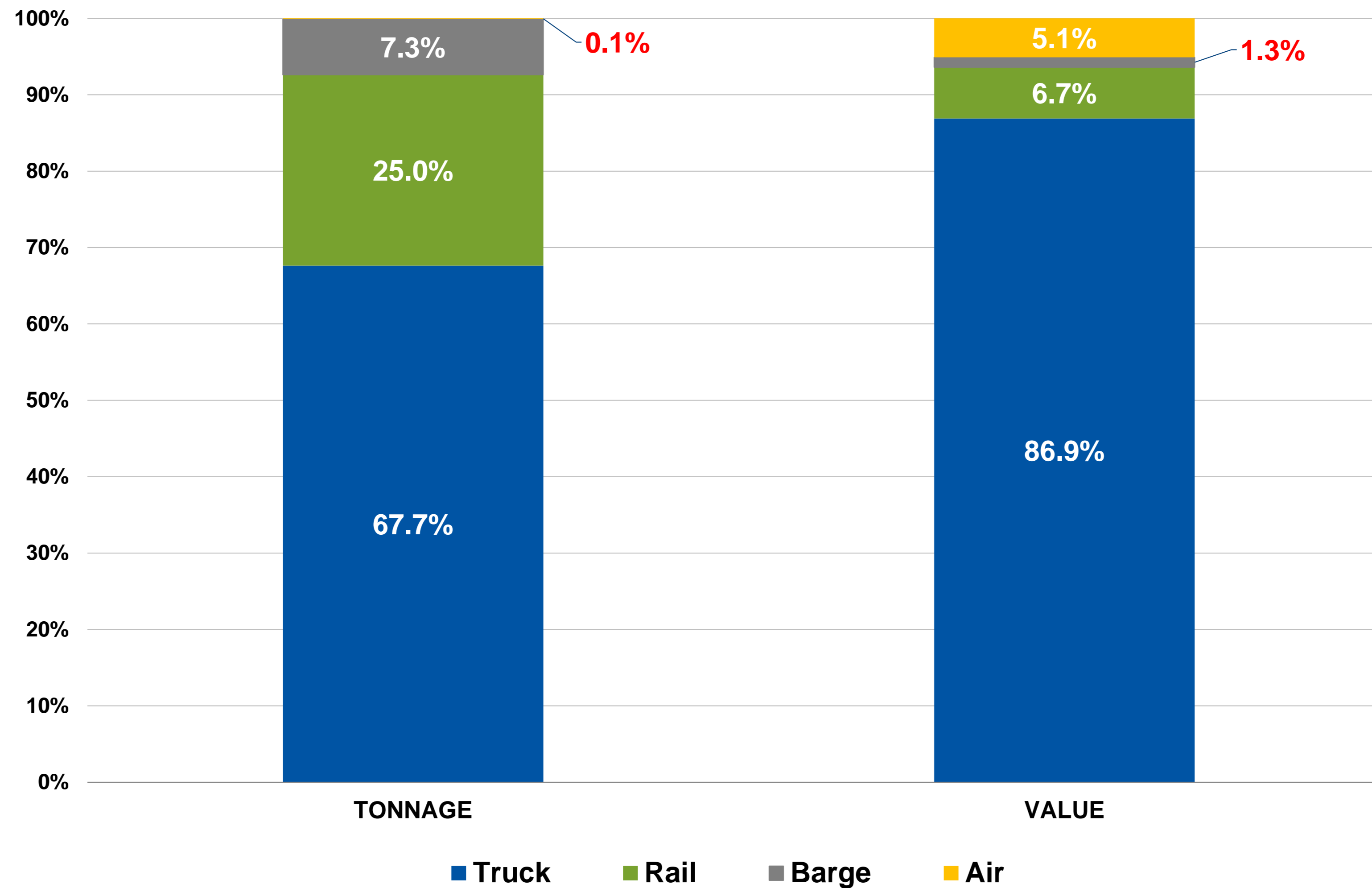
# Transit System Peer Trips per Capita



- Twin Cities trips per capita slightly above, near average
- Still significantly lower than regions with more substantial investments

# Freight Transportation

## Freight Mode Shares by Weight & Value

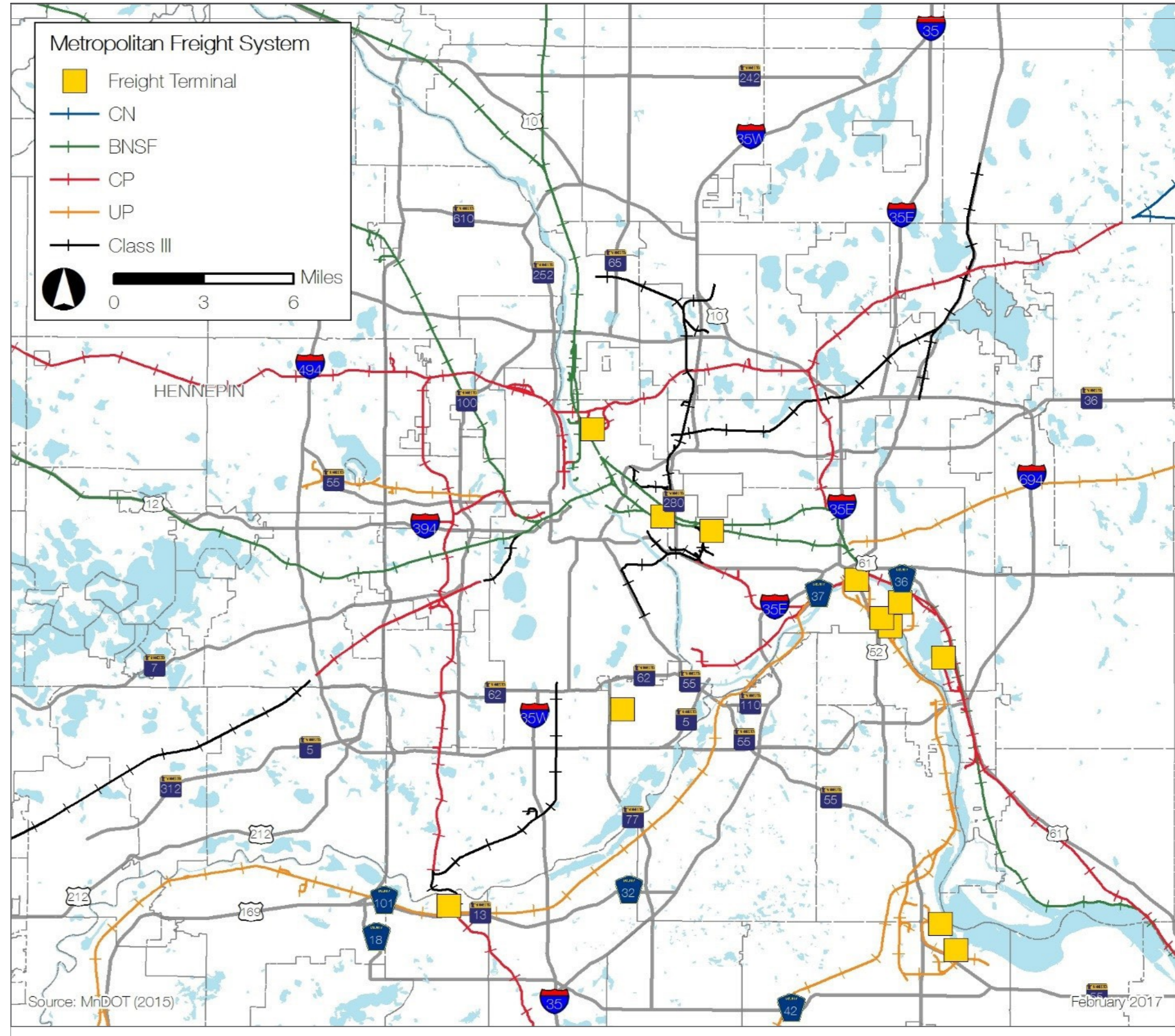




# Freight Transportation

## Metropolitan Freight System

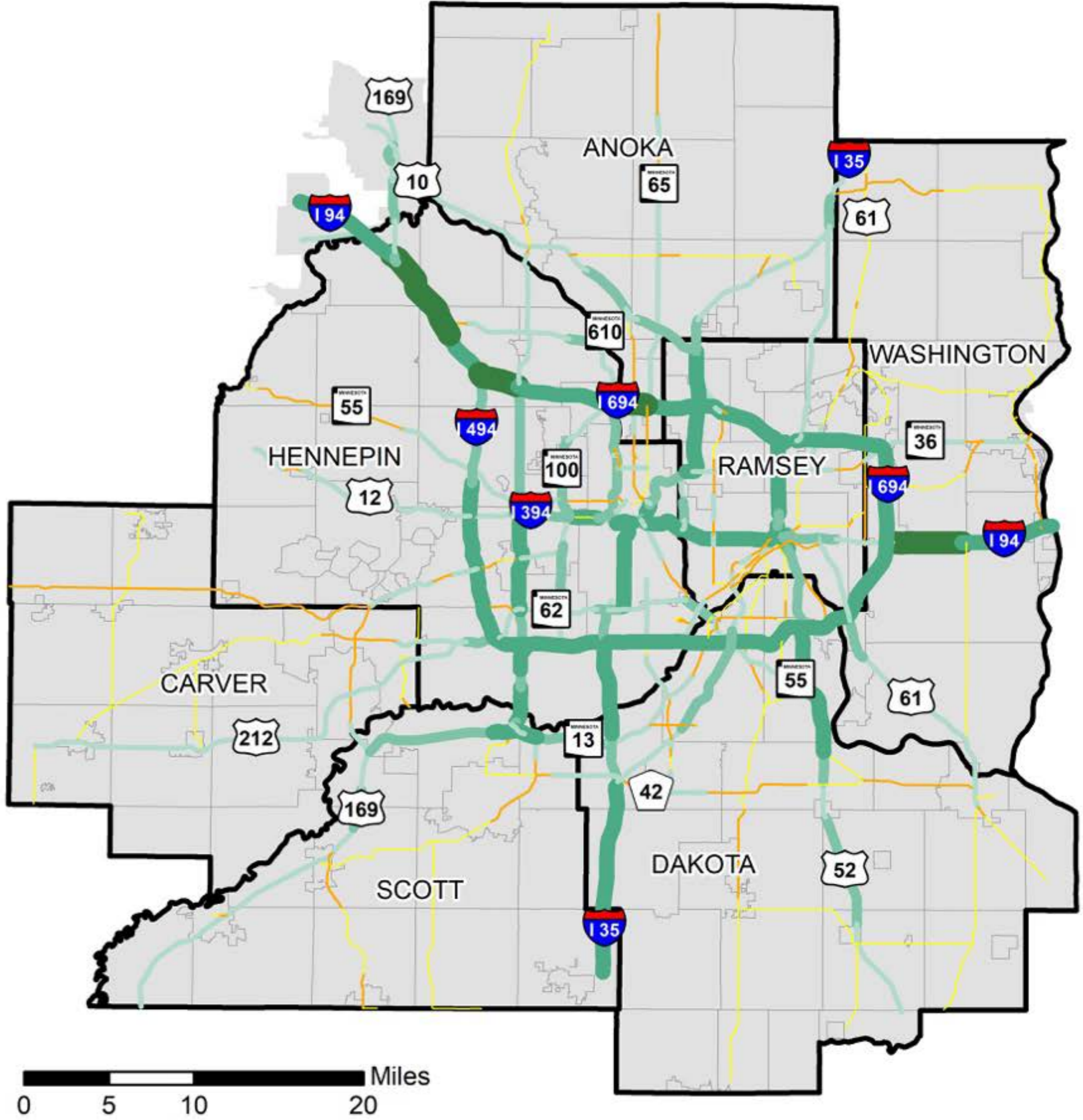
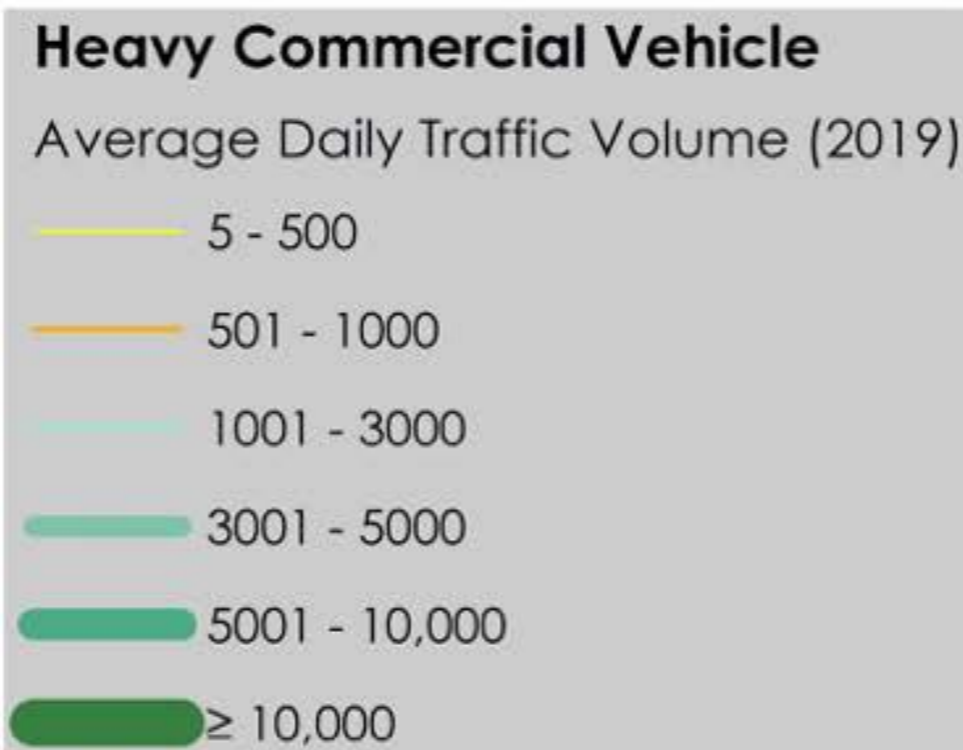
- Regional Highway System
  - Major truck distribution centers
- Rail system
  - 4 Class I national railroads
  - 3 Class III regional railroads
  - Intermodal rail facilities
  - General cargo rail yards
- Mississippi River Waterway System
  - River barge terminals
- MSP Airport





# Freight Transportation

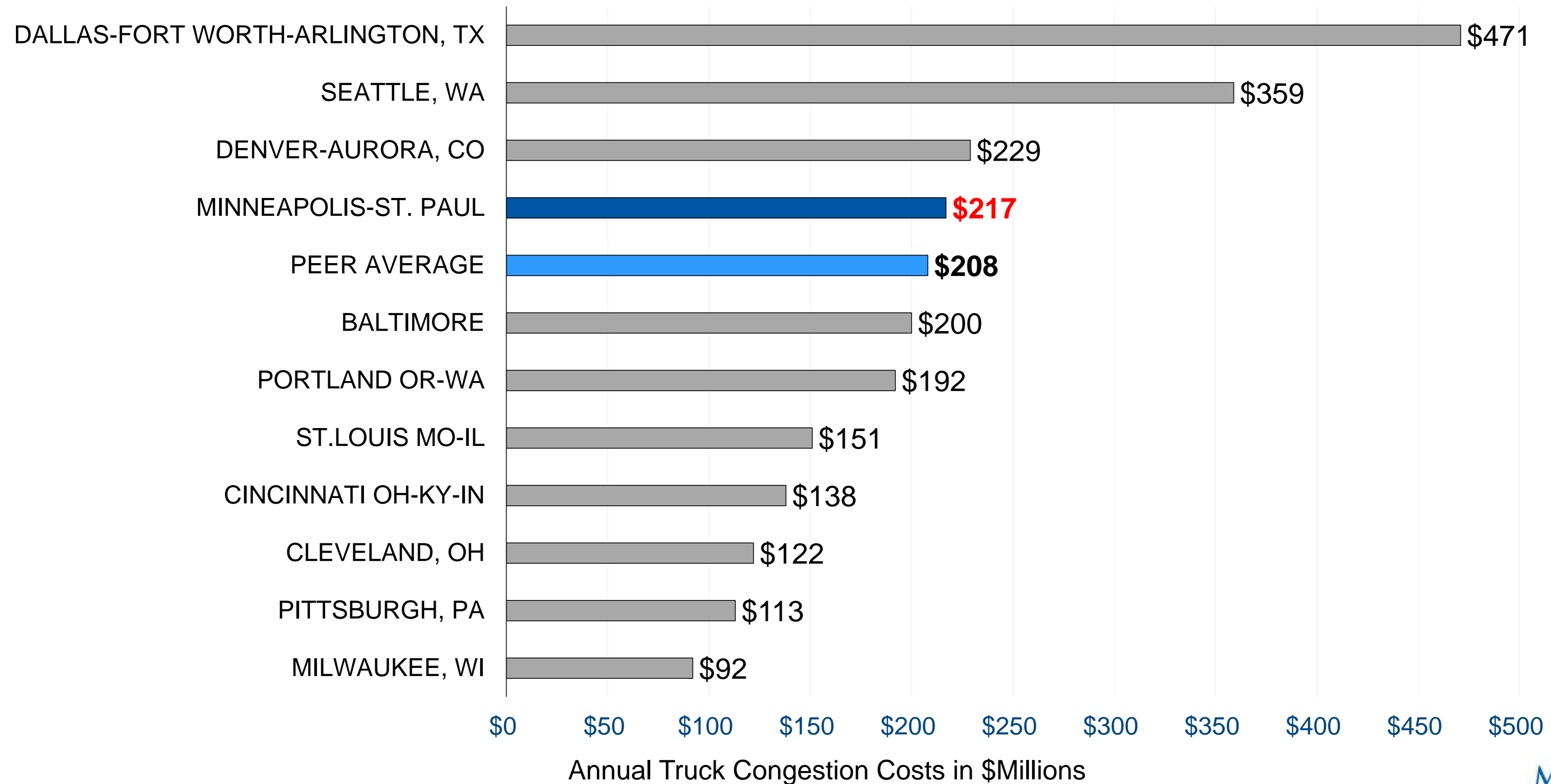
## Daily Truck Volumes





# Freight Transportation

## Cost of Freight Congestion



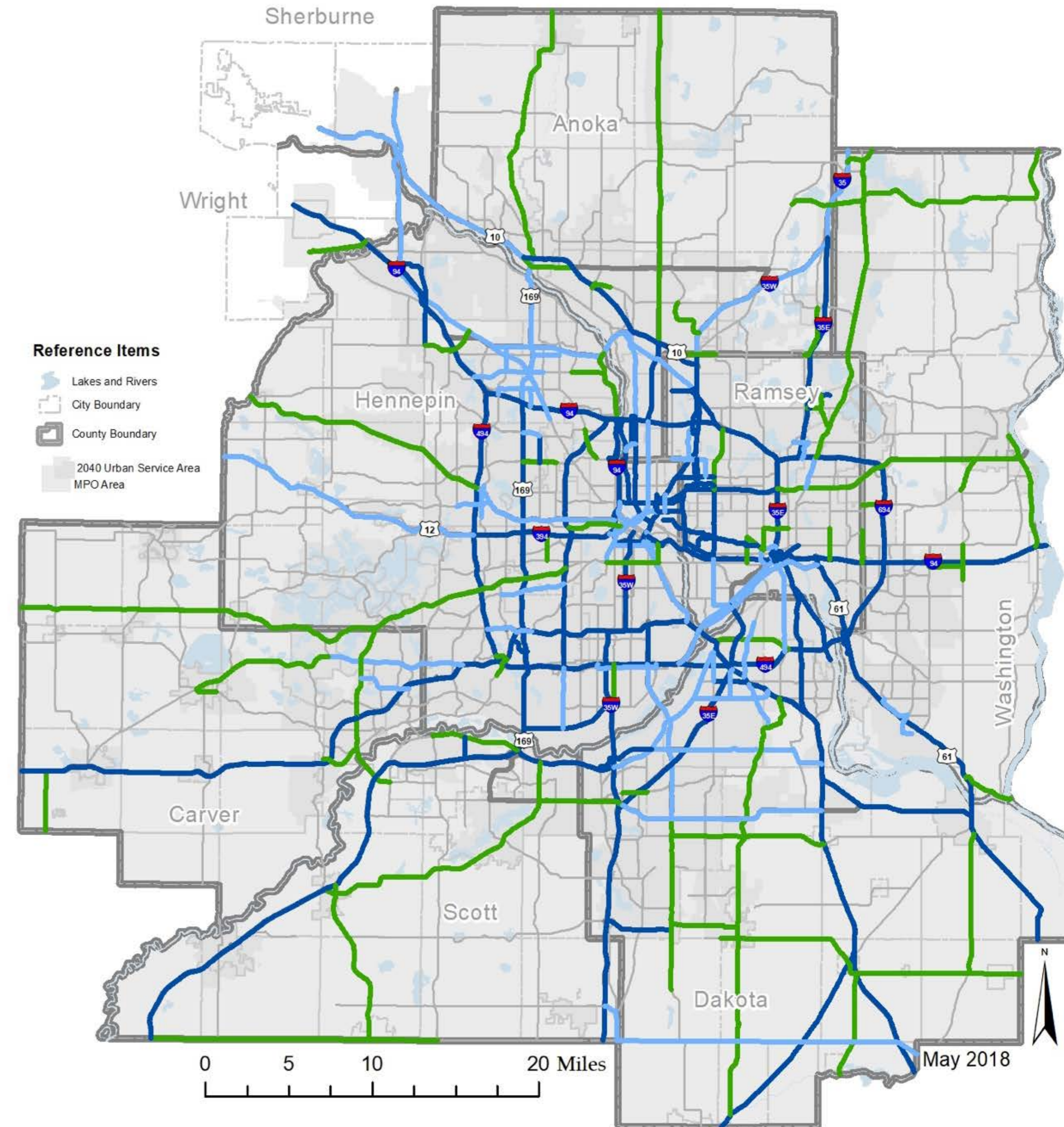


# Freight Transportation

## Regional Truck Freight Corridors

### Regional Corridors

- Consist of prioritized highway segments grouped into three tiers
- Based on weighted criteria applied in Regional Truck Highway Corridors Study:
  - Average daily truck volumes
  - Truck % of total traffic
  - Proximity to freight clusters
  - Proximity to regional freight terminals
- Used in Regional Solicitation & MN Highway Freight Program
- Future TSPEs may include projects developed on these corridors





# Bicycling & Walking

## Regional Mode Share

Trip Mode	Minneapolis & St. Paul Only	Outside Core Cities	Region
Bicycle	2.1%	0.6%	0.9%
Walk	13.9%	6.1%	7.7%
Transit	7.8%	1.8%	3.1%
Drive	74.4%	89.7%	86.5%



# Bicycling & Walking

## Mode Participation Rate

Definition:

*Percent of the population making at least one trip by a specific mode on a given day.*

Trip Mode	2016	2020
Bicycling	2.9%	2.9%
Walking	12.2%	23.4%

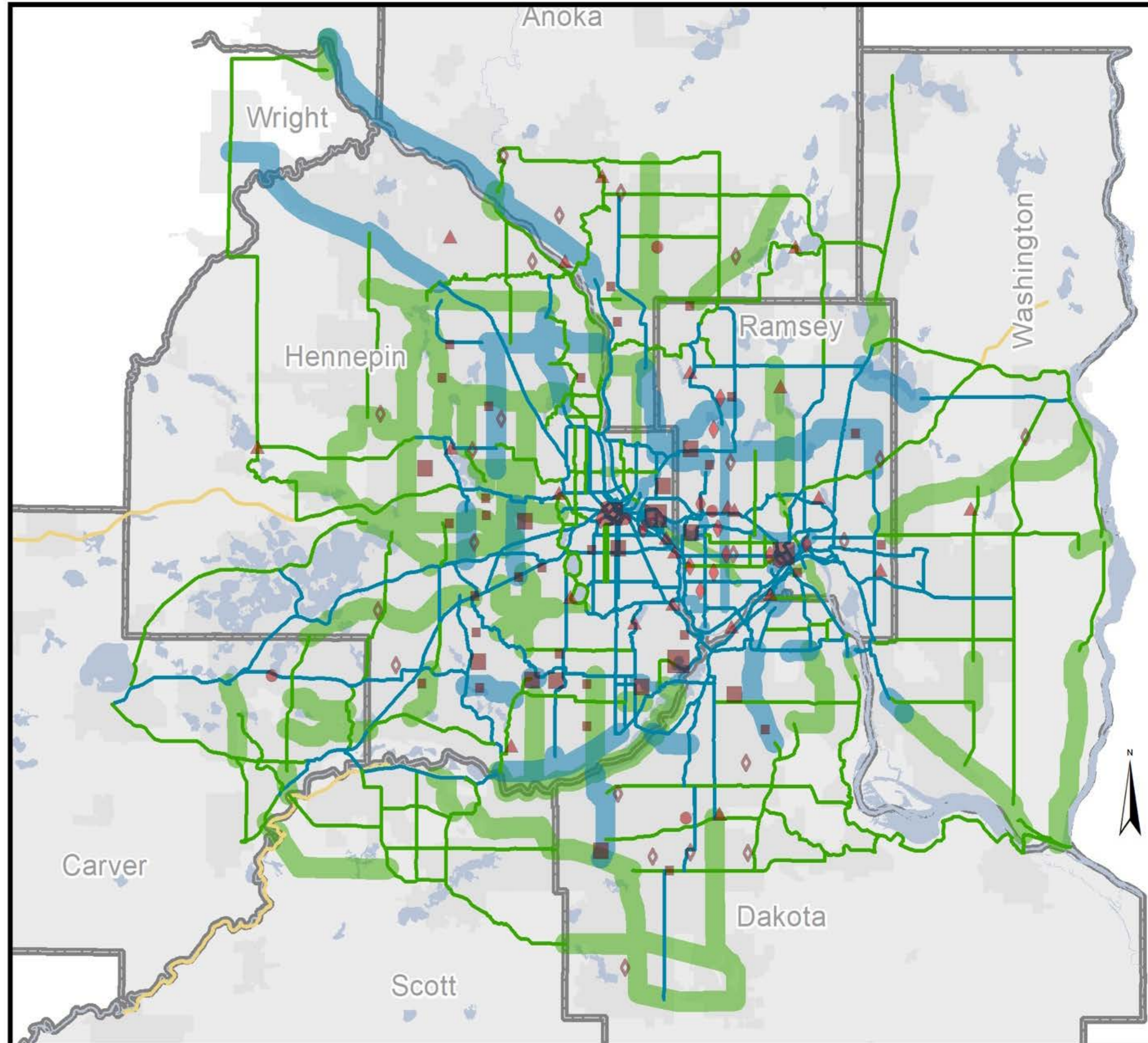




# Bicycling & Walking

## Regional Bicycle Transportation Network (RBTN)

- Consists of a series of designated alignments & planned corridors
- Grouped into two priority tiers based on factors applied in original study:
  - Population density
  - Bicycle travel demand
  - Connectivity to regional destinations
  - Connectivity to regional transit system
  - Social equity
- Used in Regional Solicitation to distribute federal transportation dollars
- Future TSPEs may include projects developed on the network





# Bicycling & Walking

## Regional Bicycle Transportation Network

Implementation Status Measure: percent of total network miles with existing bicycle facilities.

RBTN Category	On Street	Off-Street	Undefined	Total	% of Planned	% of Total
Existing Bikeways (Alignments)	199	649	0	848		56.2%
<b>Planned Bikeways</b>						
RBTN Alignments	28	140	61	229	34.7%	
RBTN Corridors	0	0	431	431	65.3%	
Total Planned	28	140	492	660	100.0%	43.8%
<b>Total RBTN Centerline</b>	227	789	492	1508		100.0%





# Aviation

Total annual aircraft operations						
Airport	2014	2015	2016	2017	2018	Percent Change (2014-2018)
Minneapolis – St. Paul (MSP)	412,586	404,612	413,279	416,213	407,476	-1.5%
Airlake (LVN)	35,662	42,341	36,818	31,346	33,178	-7%
Anoka County – Blaine (ANE)	79,589	89,708	80,845	76,721	68,157	-14%
Crystal (MIC)	44,229	39,569	36,967	42,308	41,117	-7%
Flying Cloud (FCM)	94,244	87,493	84,038	79,511	73,634	-22%
Lake Elmo (21D)	34,374	32,845	27,275	33,220	25,727	-25%
St. Paul Downtown (STP)	88,995	56,676	54,548	69,277	64,539	-27%
South St. Paul (SGS)	61,999	62,000	62,640	63,600	64,800	+5%
<b>Total</b>	<b>851,248</b>	<b>815,244</b>	<b>796,410</b>	<b>827,556</b>	<b>782,912</b>	<b>-12%</b>

# Questions