

# Regional Solicitation: Congestion Measure

Funding & Programming Committee  
April 19, 2018



# Regional Solicitation Criteria

- Roadway Expansion (80 points) & Roadway Reconstruction (65 points): Peak hour congestion on an adjacent parallel route
- Traffic Management Technologies (150 points): Peak hour congestion within the project area
- Expressed as the percent decrease in travel speed during the peak hour as compared to free-flow conditions

# Quantifying Congestion

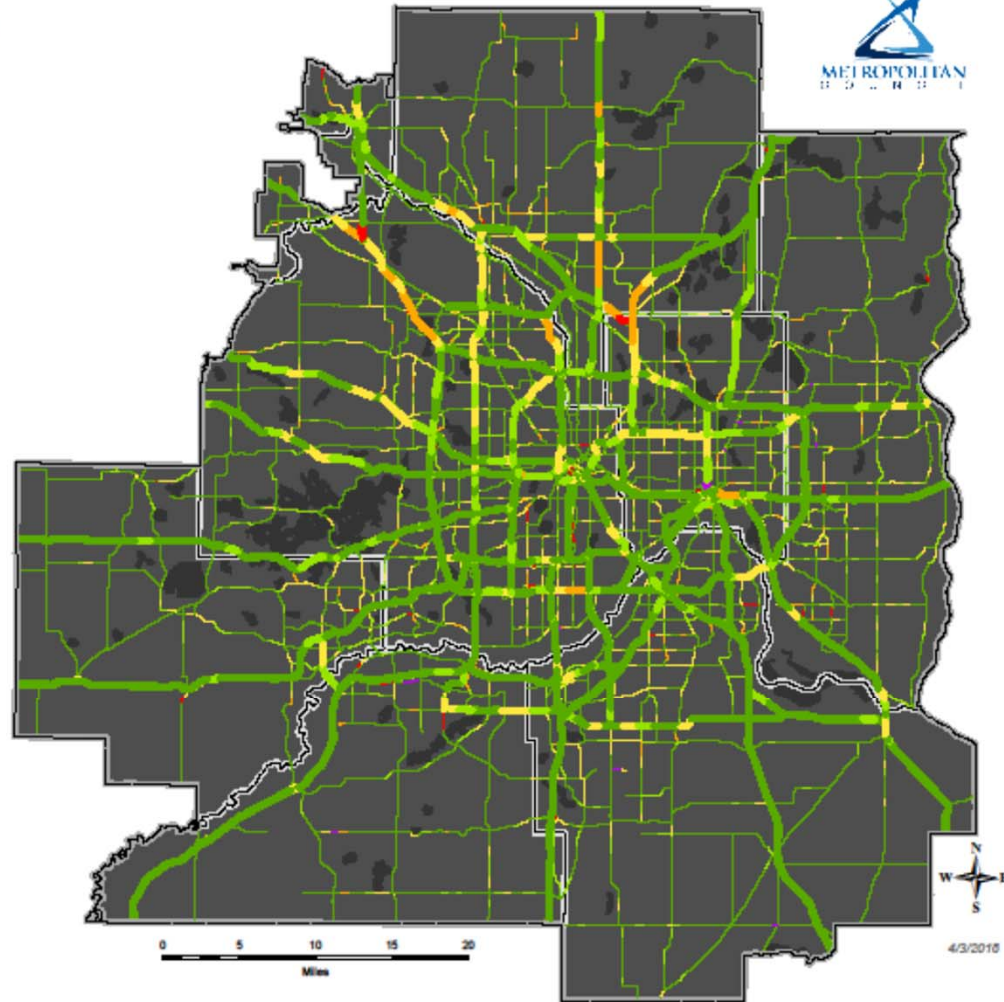
- Staff has quantified congestion for all principal and A-minor arterials for the Council's planning area
- Data derived from the StreetLight InSight application; represents conditions from July 2016 to June 2017
- The applicant will be provided a single number representing the percent decrease in travel speed in the peak hour as compared to the reference (free-flow) speed
- The application will identify the single hour with the highest level of congestion during the peak AM or peak PM time periods
  - 6:00 a.m. to 10:00 a.m.
  - 3:00 p.m. to 7:00 p.m.

**Map #1:  
Twin Cities Arterial Corridor  
6:00 - 7:00 AM Congestion  
Working Draft Map**



**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



4/3/2016

*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

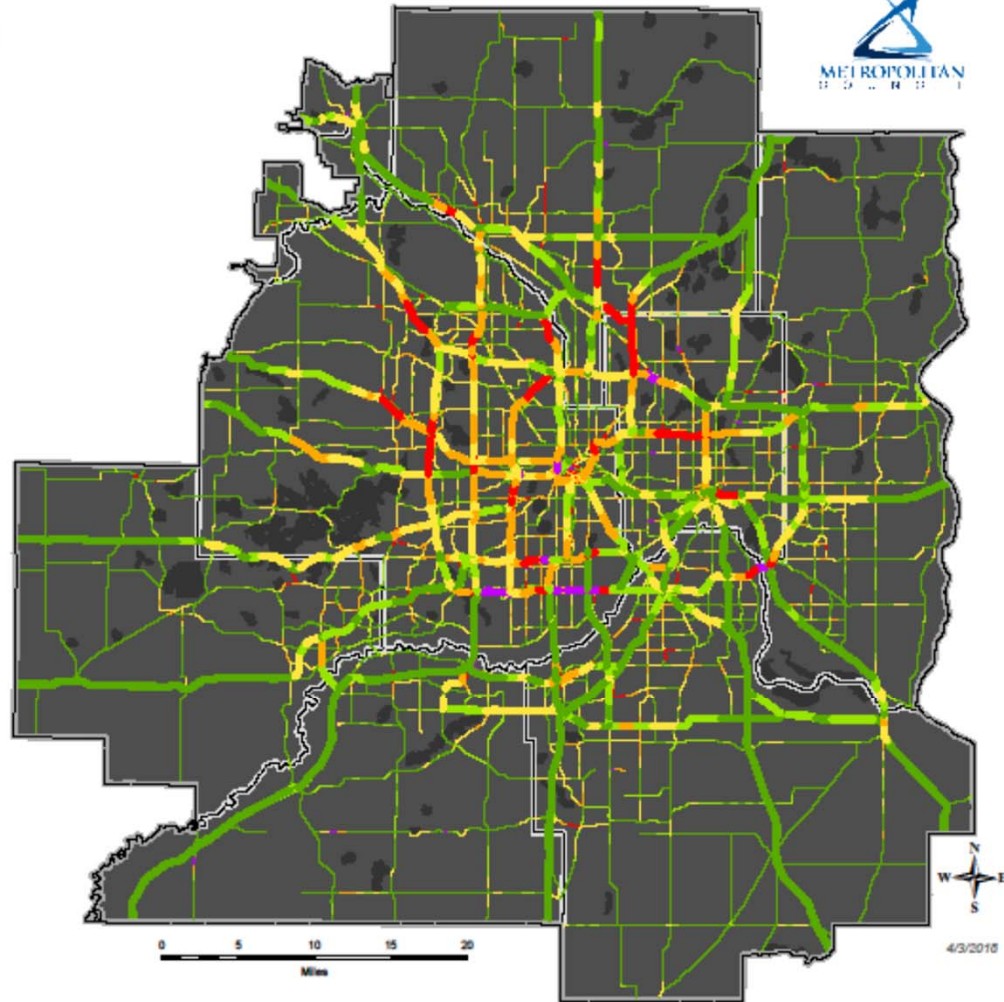


**Map #2:  
Twin Cities Arterial Corridor  
7:00 - 8:00 AM Congestion  
Working Draft Map**



**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.



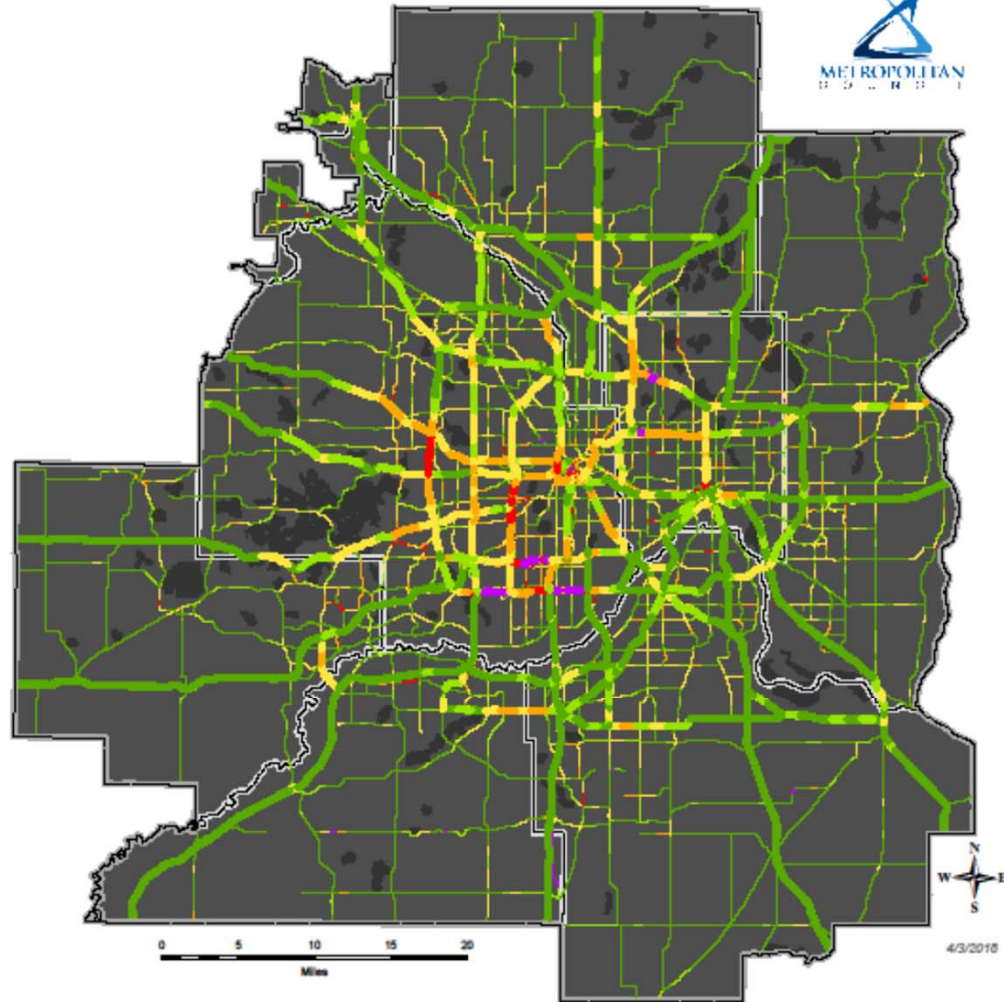


**Map #3:  
Twin Cities Arterial Corridor  
8:00 - 9:00 AM Congestion  
Working Draft Map**



**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

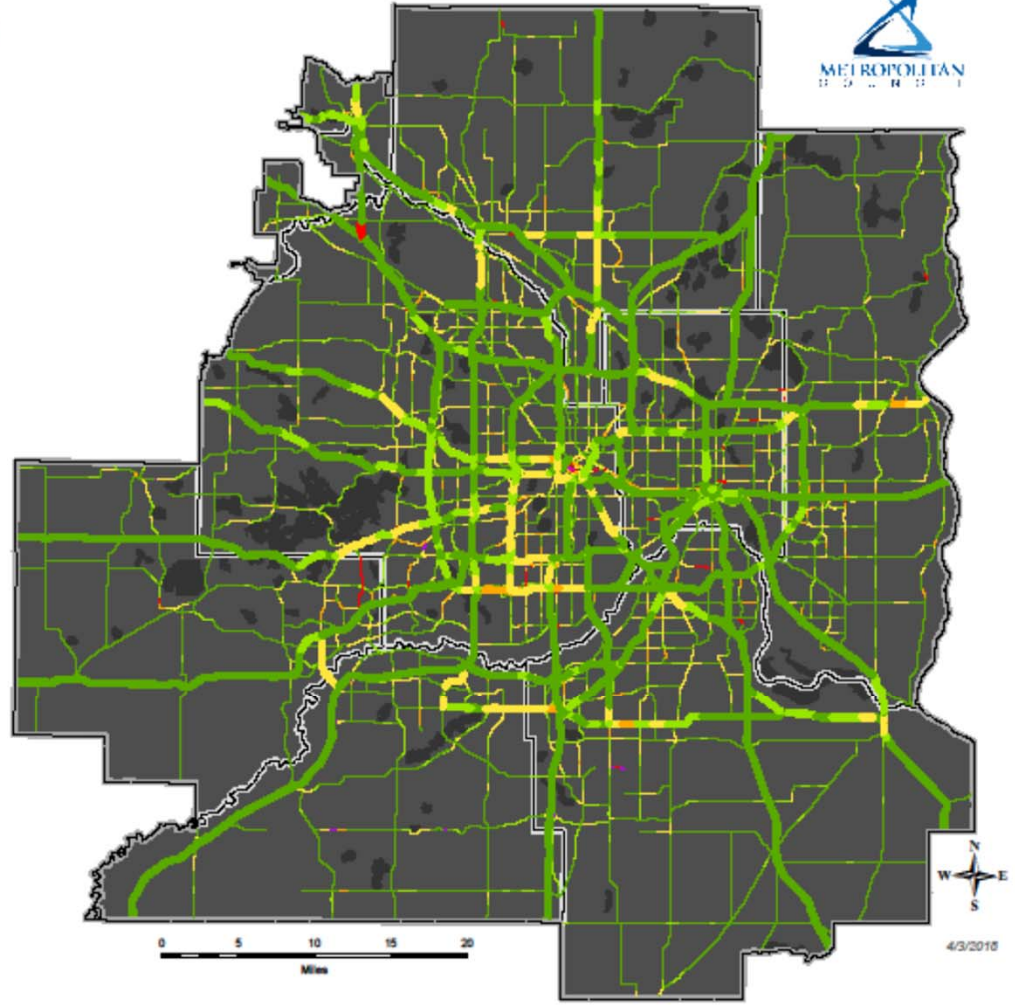


**Map #4:  
Twin Cities Arterial Corridor  
9:00 - 10:00 AM Congestion  
Working Draft Map**



**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



4/3/2018

*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

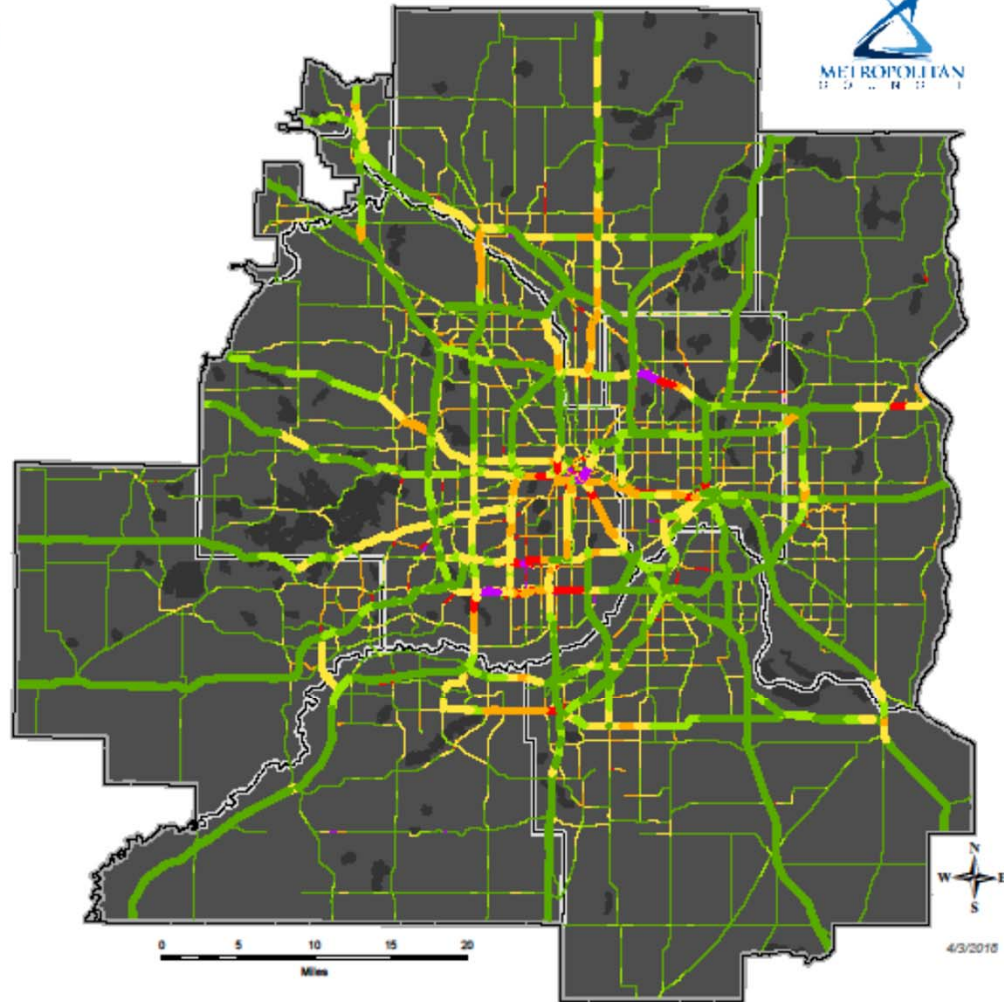


**Map #5:  
Twin Cities Arterial Corridor  
3:00 - 4:00 PM Congestion  
Working Draft Map**



**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.



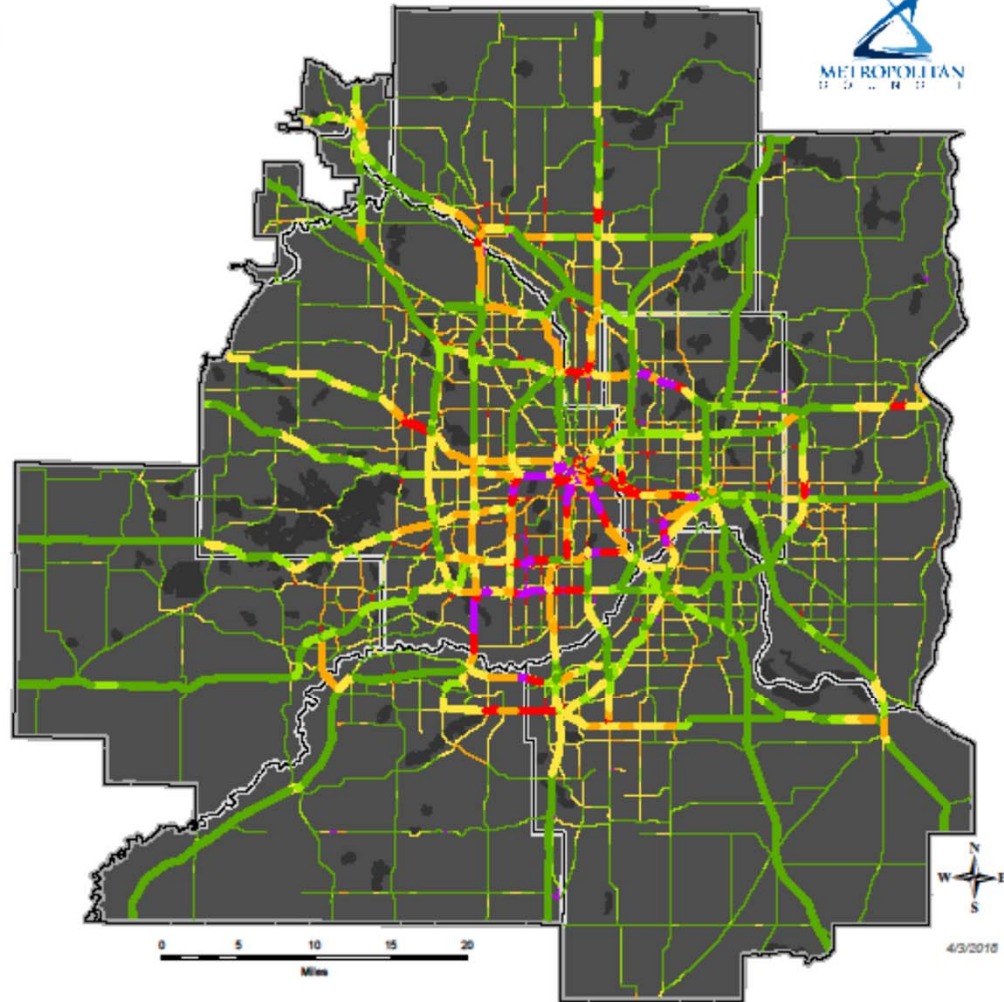


**Map #6:  
Twin Cities Arterial Corridor  
4:00 - 5:00 PM Congestion  
Working Draft Map**



**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

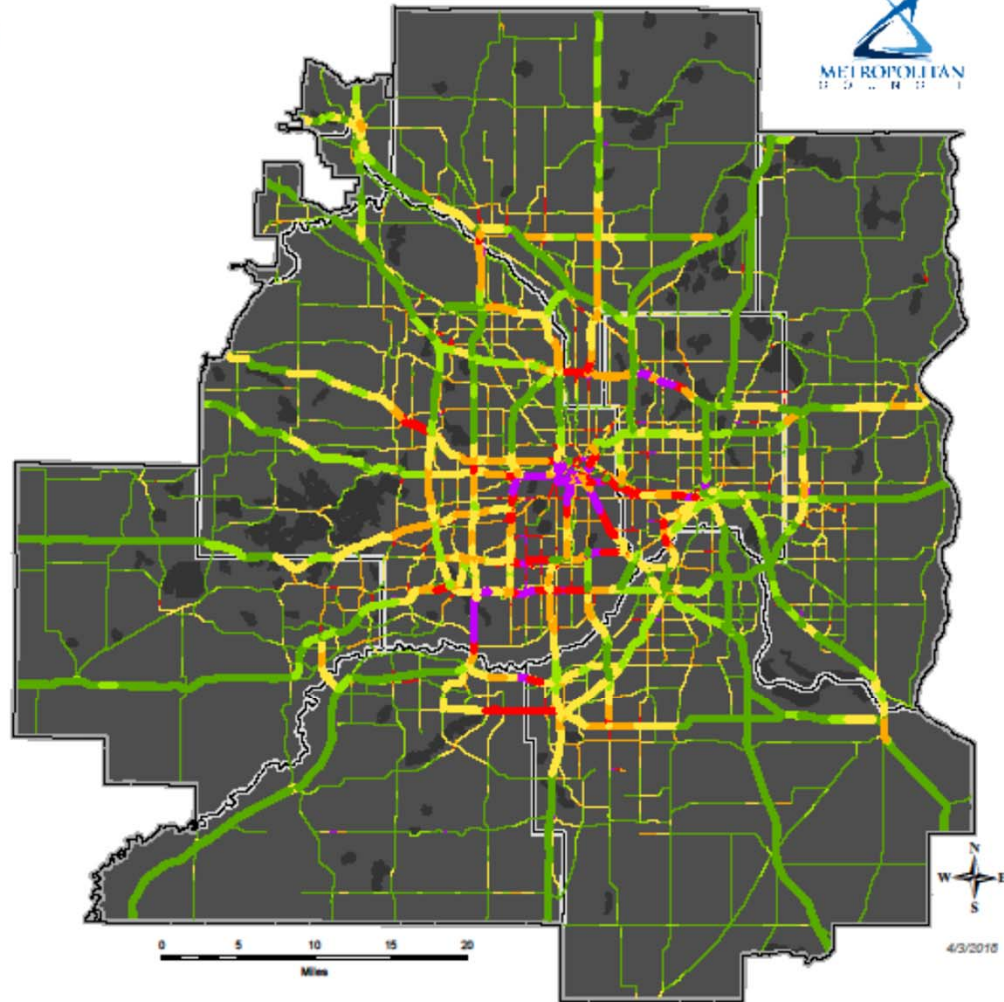


**Map #7:  
Twin Cities Arterial Corridor  
5:00 - 6:00 PM Congestion  
Working Draft Map**



**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



4/3/2018

*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.

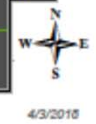
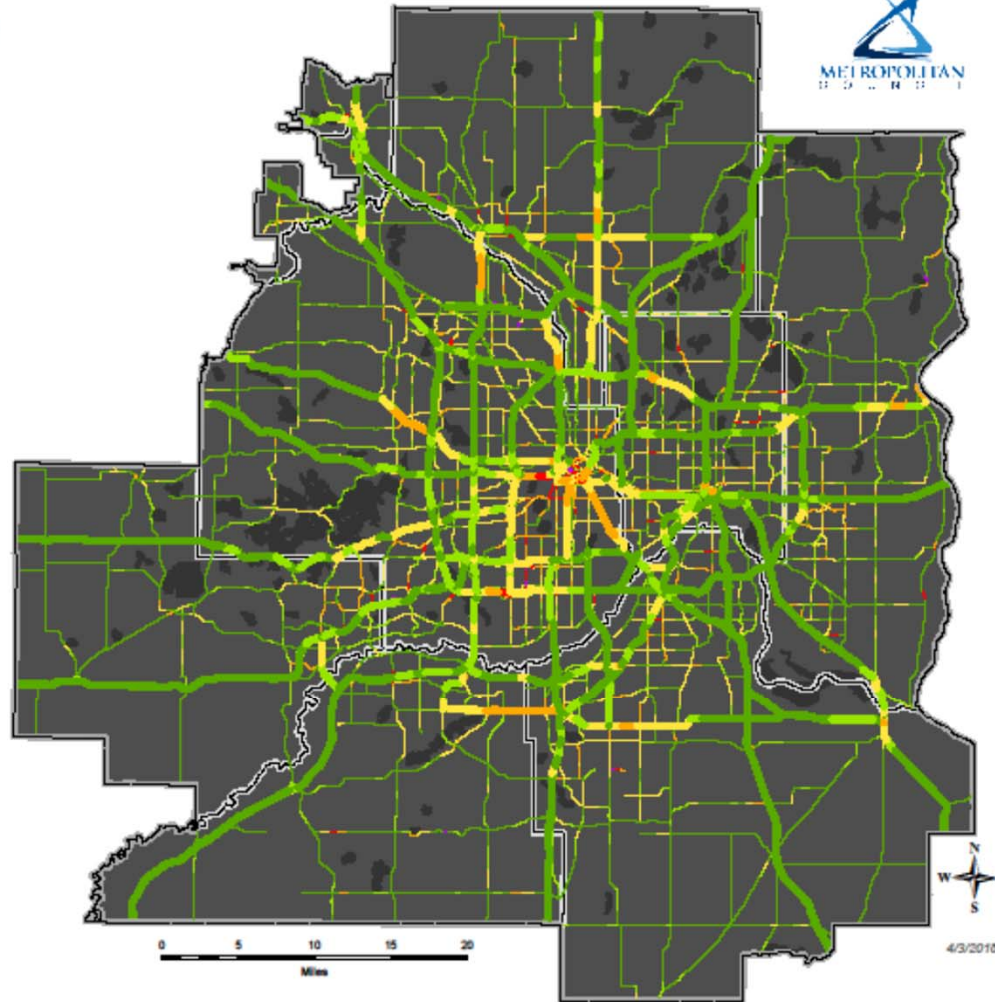


**Map #8:  
Twin Cities Arterial Corridor  
6:00 - 7:00 PM Congestion  
Working Draft Map**



**Hour Speed  
Percent of Reference Speed\***

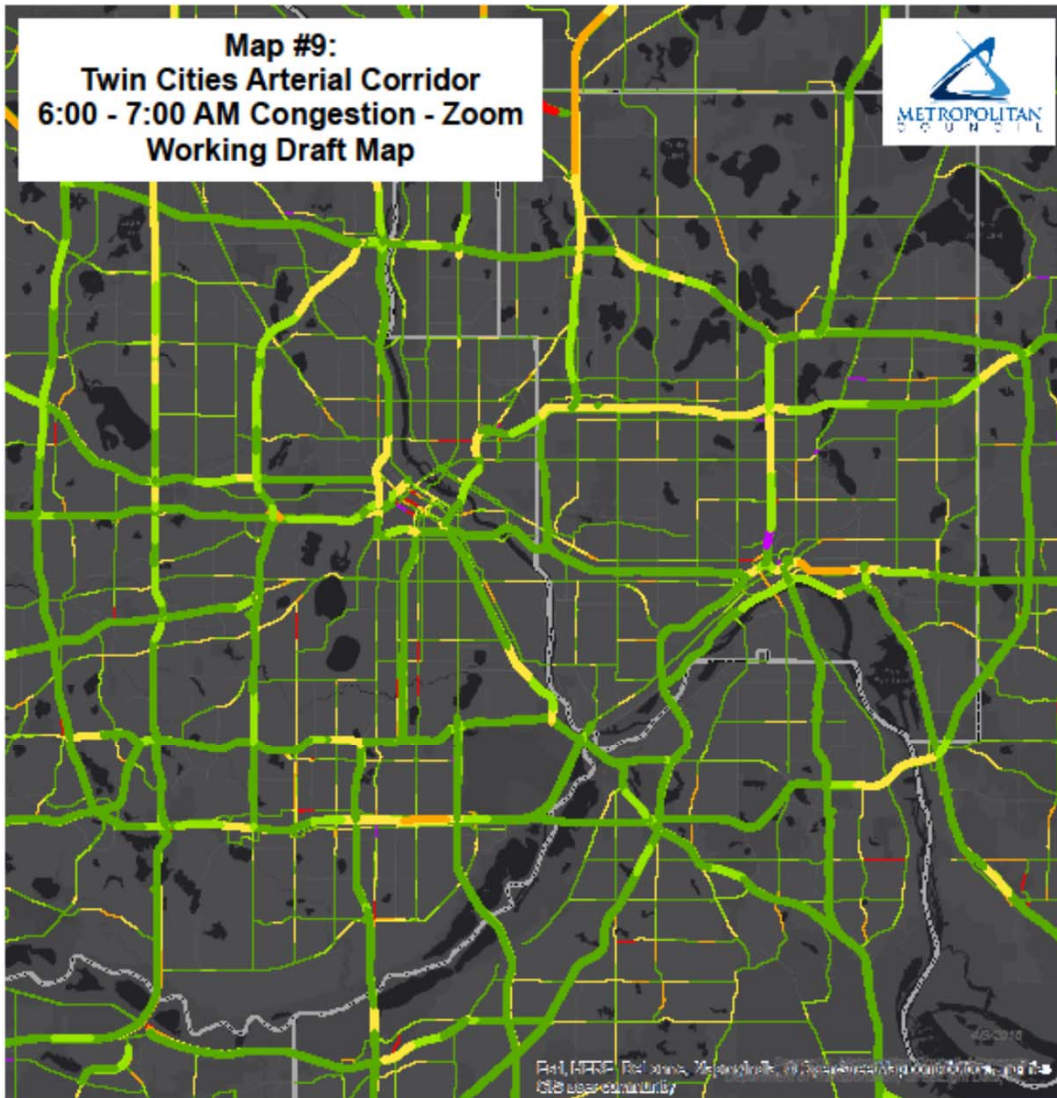
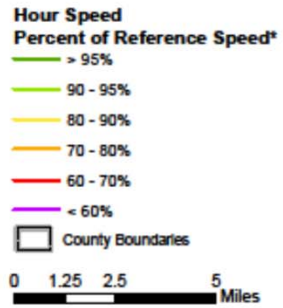
- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%
- County Boundaries



*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc.








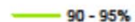

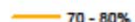


Notes:  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.  
Data reflects observations collected from July 2016 to June 2017.  
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

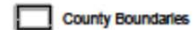
Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018





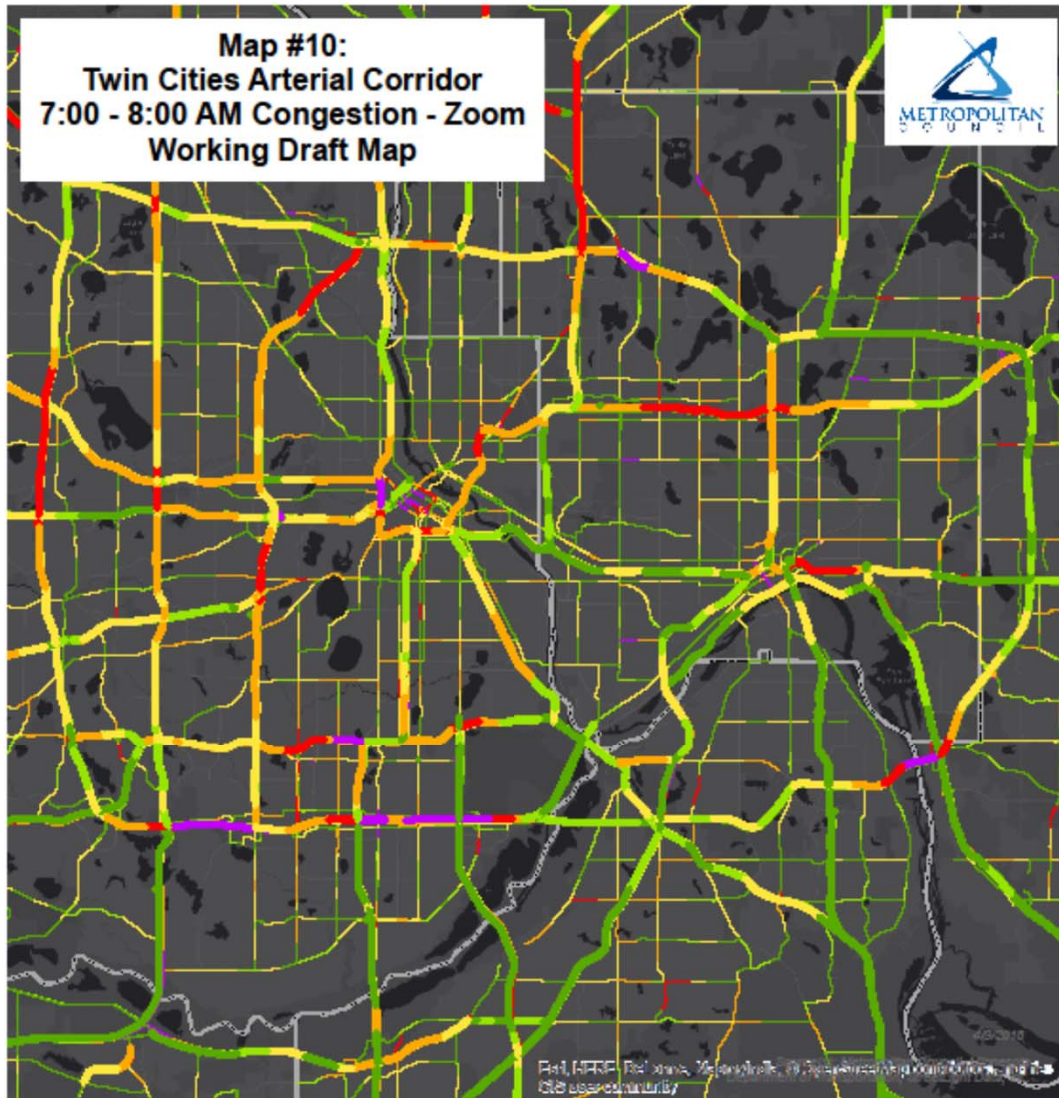
**Hour Speed  
Percent of Reference Speed\***

-  > 95%
-  90 - 95%
-  80 - 90%
-  70 - 80%
-  60 - 70%
-  < 60%

 County Boundaries

0 1.25 2.5 5 Miles

**Map #10:  
Twin Cities Arterial Corridor  
7:00 - 8:00 AM Congestion - Zoom  
Working Draft Map**



*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.

Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

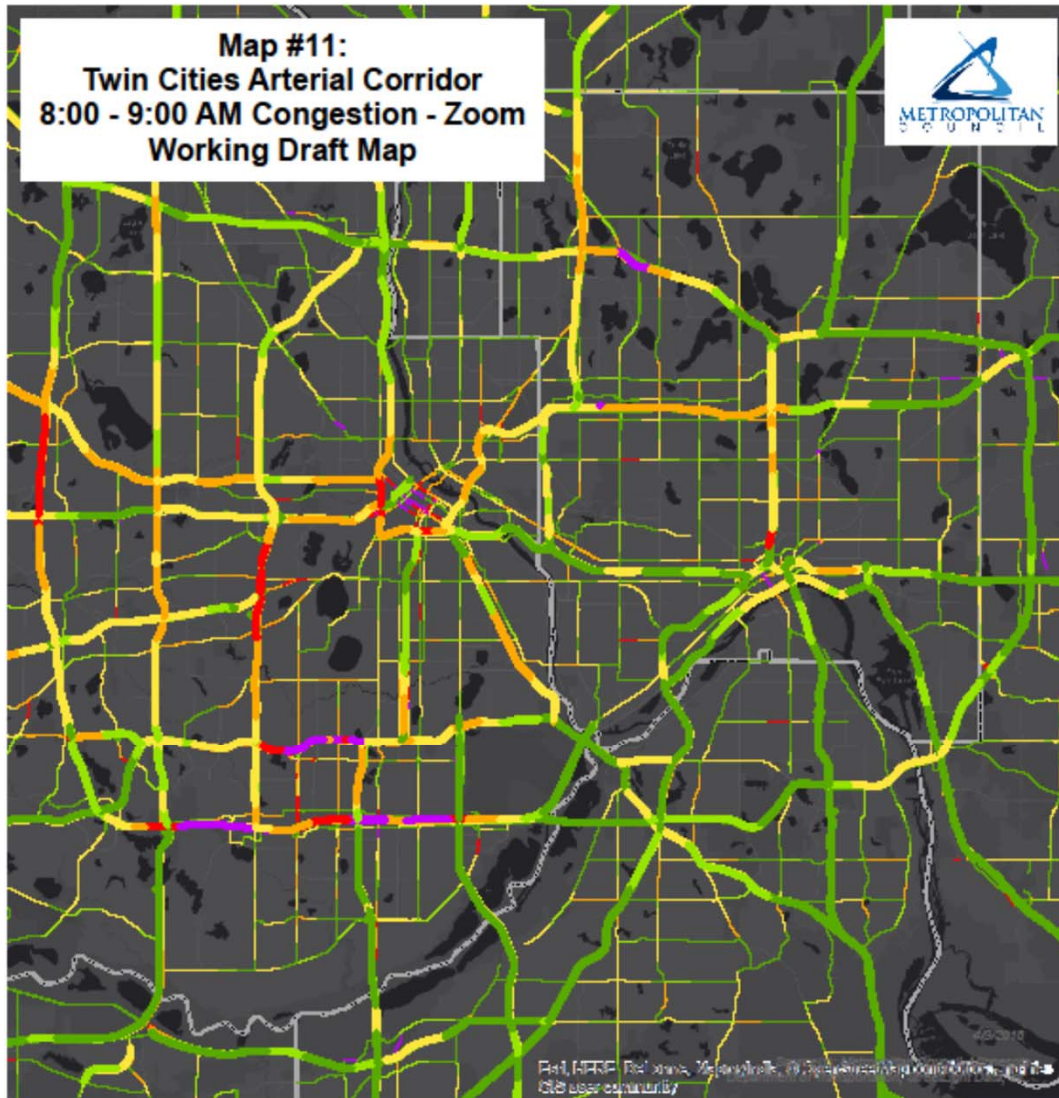


**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

County Boundaries

0 1.25 2.5 5 Miles



Notes:  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.


Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

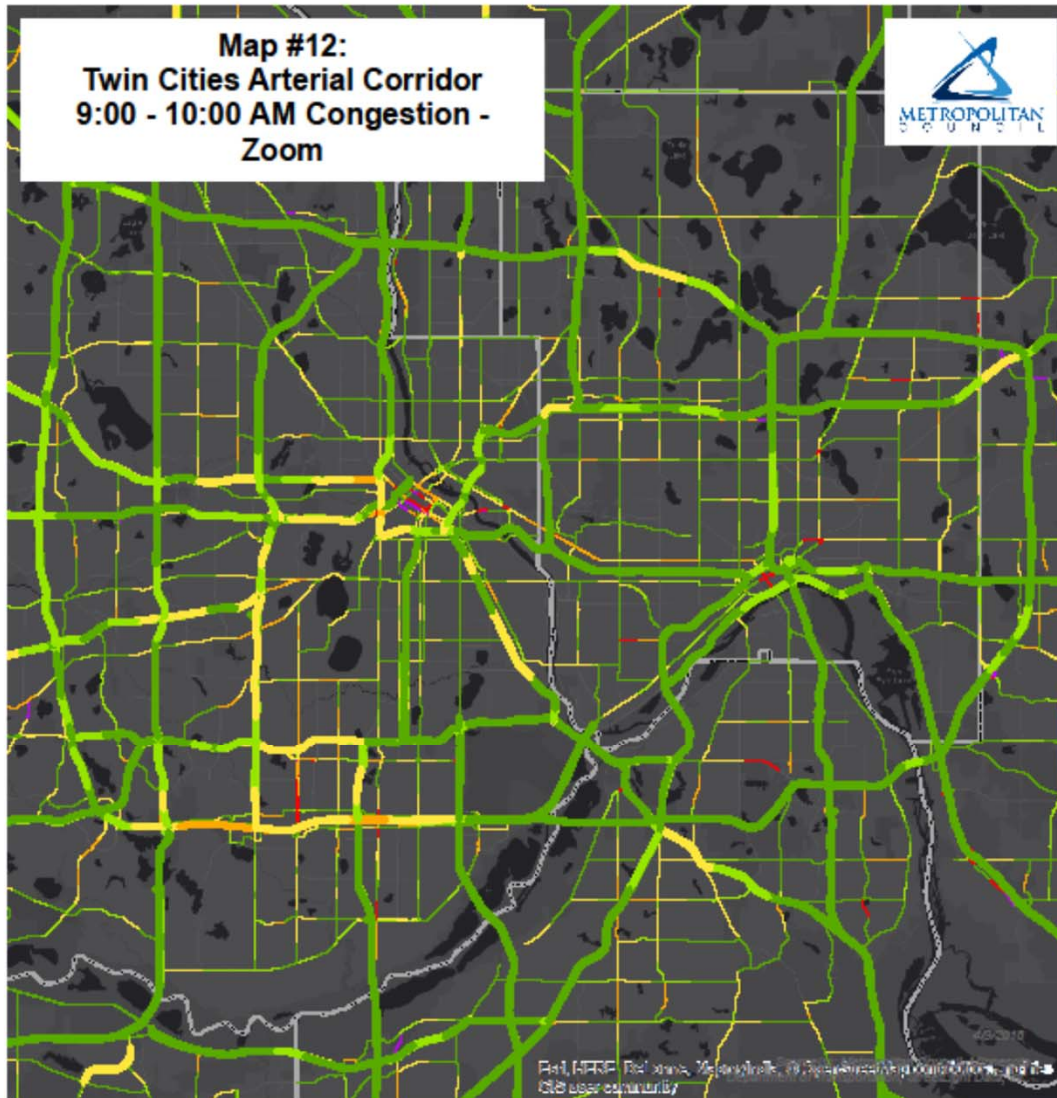
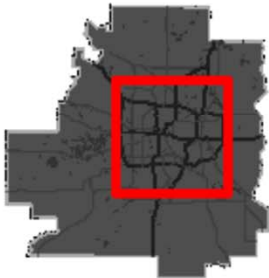


**Hour Speed  
Percent of Reference Speed\***

- > 95%
- 90 - 95%
- 80 - 90%
- 70 - 80%
- 60 - 70%
- < 60%

 County Boundaries

0 1.25 2.5 5 Miles



*Notes:*  
\*Reference speed is the average speed recorded overnight (between 12am and 6am) for each segment.

Data reflects observations collected from July 2016 to June 2017.

Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

Map, APP, Reference, Metropolitan Council, Department of Transportation, and St. Louis  
CSB as a courtesy

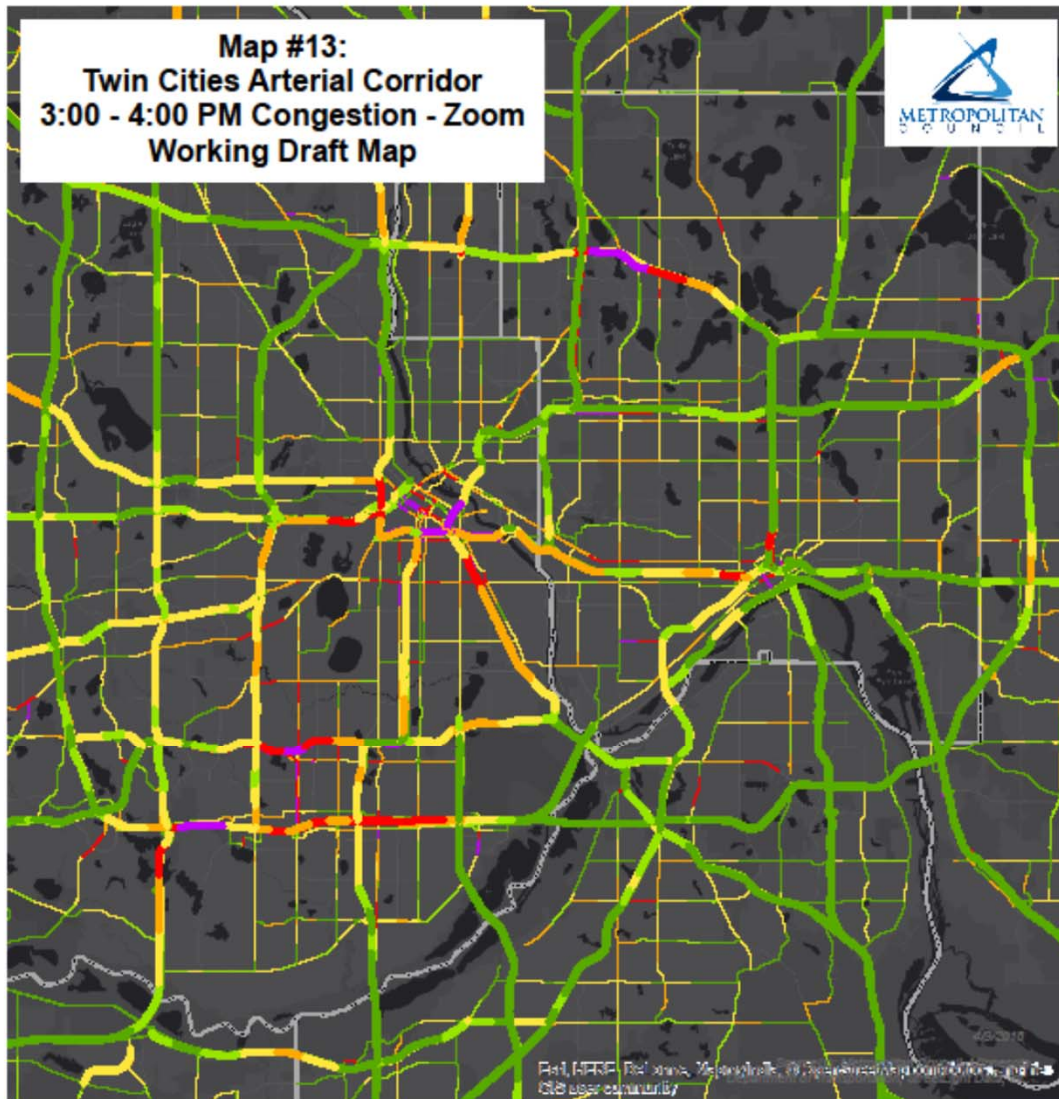


**Hour Speed  
Percent of Reference Speed\***

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- < 60%

County Boundaries

0 1.25 2.5 5 Miles



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Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

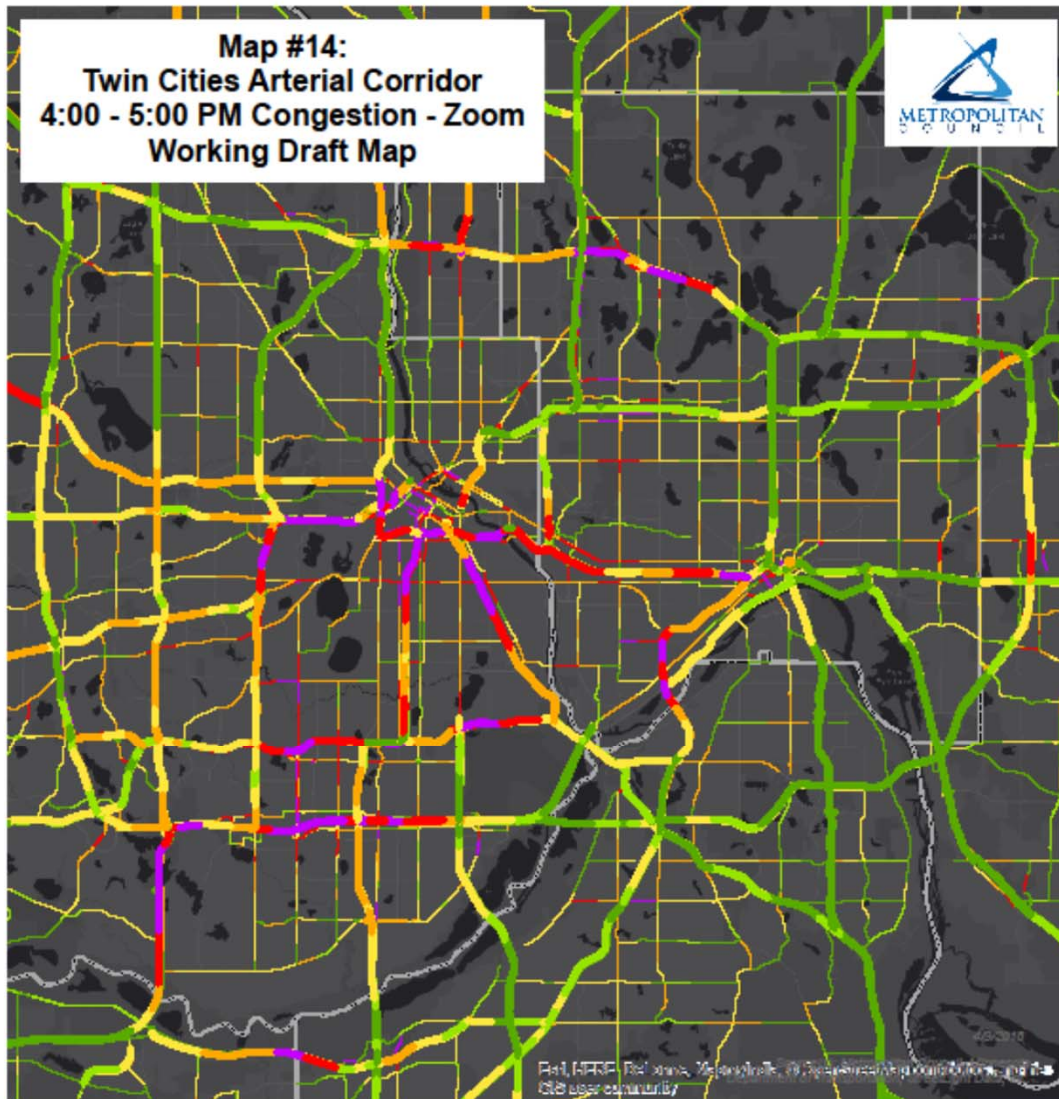


**Hour Speed  
Percent of Reference Speed\***

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County Boundaries

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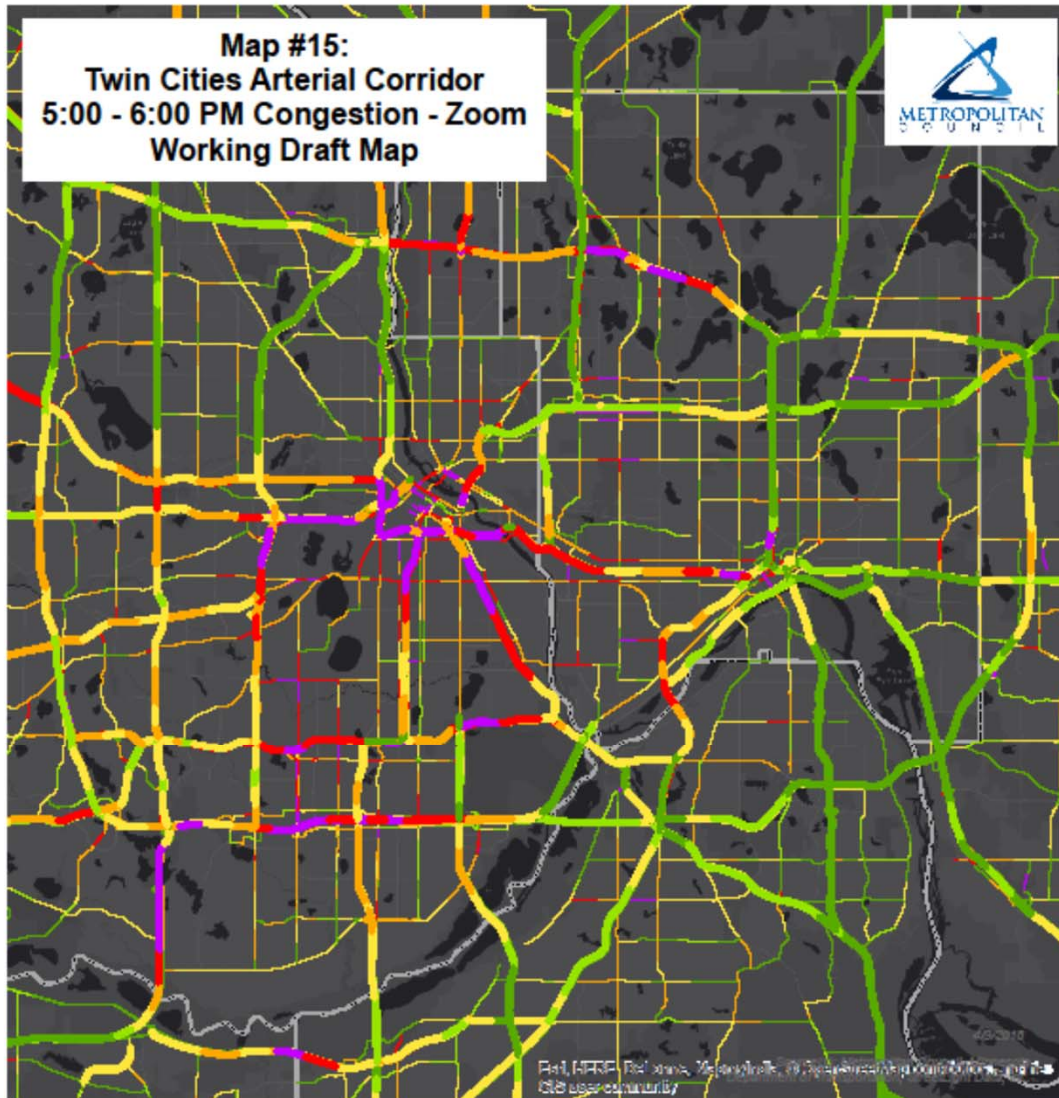
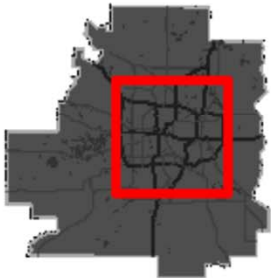
Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

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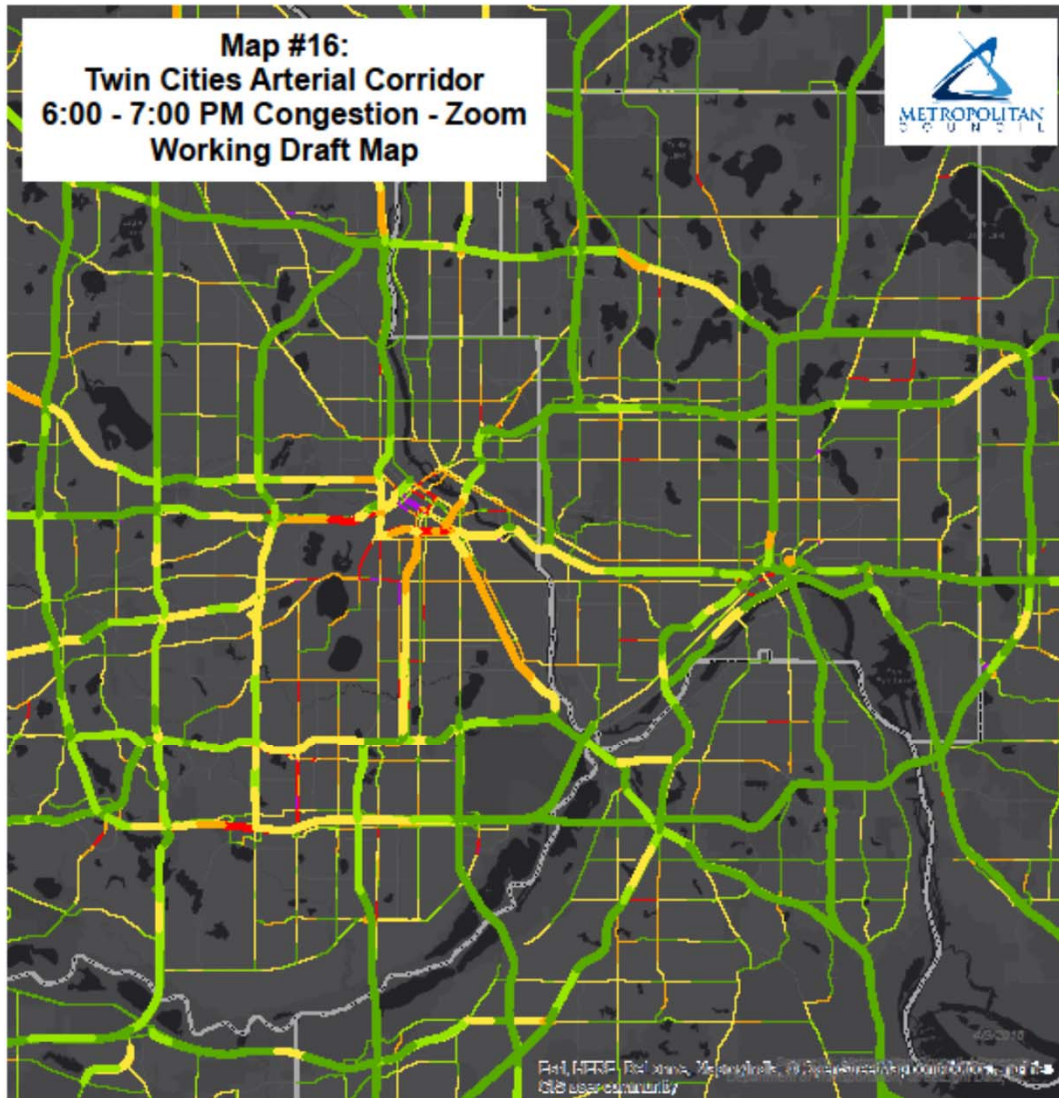


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Source(s): Metropolitan Council, Minnesota Department of Transportation, StreetLight Data, Inc. 4/3/2018

# Regional Solicitation Online Application

- Users will be able to access an online application featuring a map with the peak-hour congestion score along all parallel routes
- This score will represent the “percentage decrease in travel speed in peak hour compared to free-flow”
- Applicants will no longer need to input the free-flow or peak hour travel speeds – these will be shown on the web application



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**METROPOLITAN**  
C O U N C I L