NATIONAL CAPITAL REGION CONGESTION REPORT (NCRCR)

Status Report

Dr. Jan-Mou Li Transportation Engineer

Systems Performance, Operations, and Technology Subcommittee October 4, 2018



NCRCR

- A quarterly update of the National Capital Region's
 - traffic congestion,
 - travel time reliability,
 - top-10 bottlenecks, and
 - featured spotlight
- Available at
 - https://www.mwcog.org/c ongestion/

CONGESTION REPORT 1st Quarter 2018

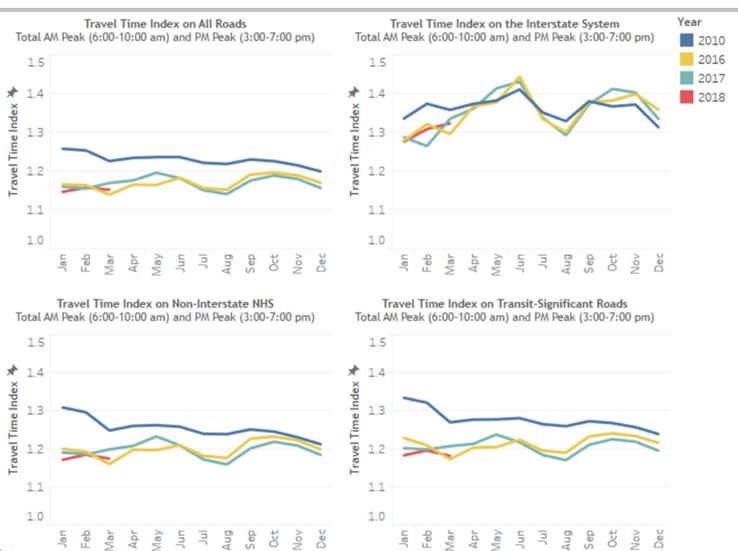
A quarterly update of the National Capital Region's traffic congestion, travel time reliability, top-10 bottlenecks and featured spotlight

September 21, 2018

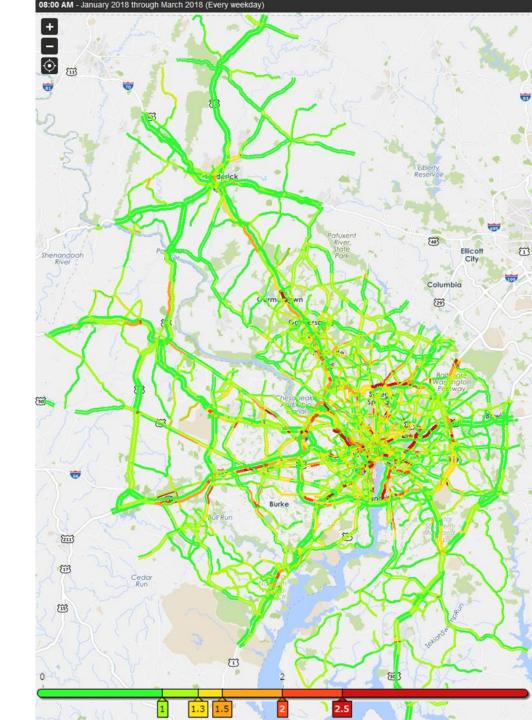




TRAVEL TIME INDEX (TTI)

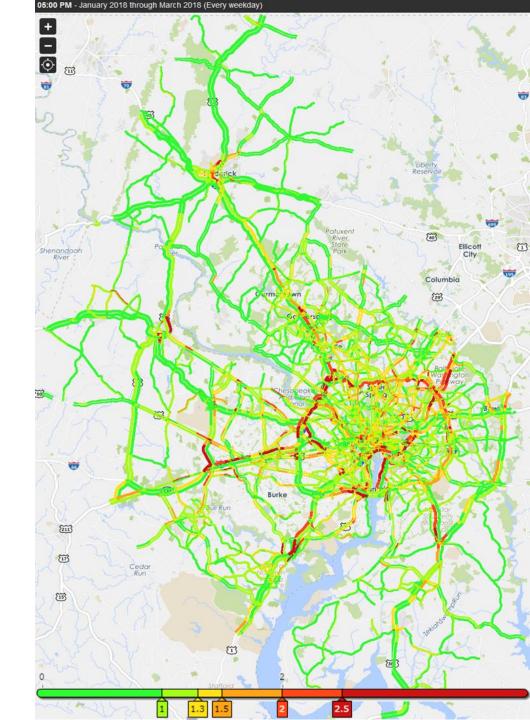


TTI during weekday 8: 00-9:00 A.M. in 1st Quarter of 2018



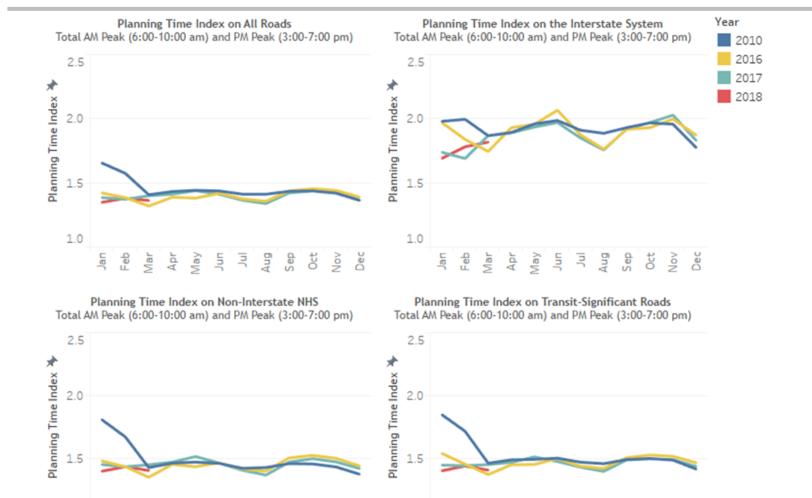


TTI during weekday 5:00-6:00 P.M. in 1st Quarter of 2018





PLANNING TIME INDEX (PTI)



1.0

Feb

Mar Apr Jun

May

Aug Sep

Jan

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Sep ö



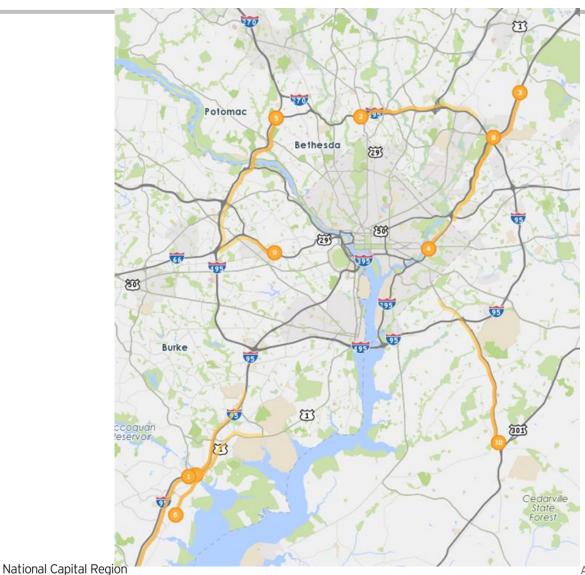
Apr

Jun $\frac{1}{2}$

1.0

Š Dec

WHERE were the top 10 bottlenecks



Transportation Planning Board

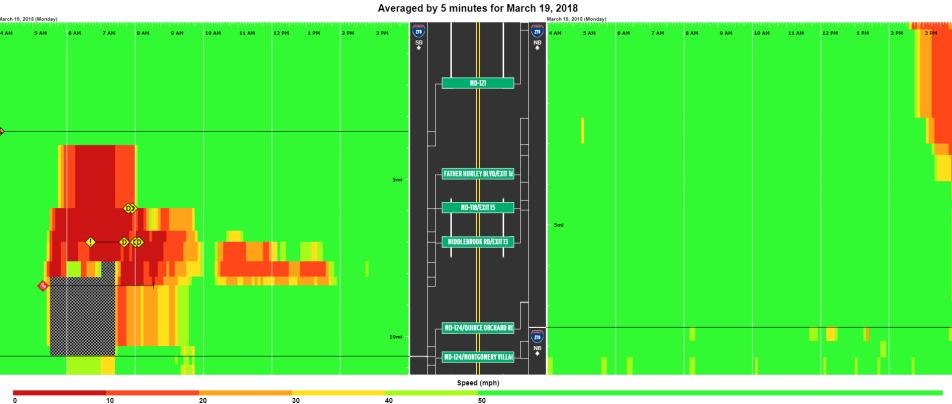
MEASURES of the top 10 bottlenecks

Rank (Last Quarter Rank)	Location	Average duration	Average max length (miles)	Total duration	Impact factor
1 (1) *	I-95 S @ VA-123/EXIT 160	6 h 35 m	3.65	24 d 17 h 34 m	122,631.68
2 (3)	I-495 CCW @ MD-97/GEORGIA AVE/EXIT 31	3 h 34 m	2.8	13 d 08 h 56 m	67,835.64
3 (4)	BALTIMORE-WASHINGTON PARKWAY @ POWDER MILL RD	5 h 13 m	2.79	19 d 13 h 27 m	66,242.78
4 (5)	DC-295 S @ EAST CAPITOL ST	8 h 50 m	1.19	33 d 03 h 48 m	64,737.05
5 (2)	I-495 CW @ I-270 SPUR	2 h 27 m	4.01	9 d 04 h 45 m	64,051.81
6 (9)	US-1 S @ OPITZ BLVD	5 h 41 m	2.3	21 d 08 h 43 m	60,765.46
7 (7)	I-95 N @ VA-123/EXIT 160	3 h 10 m	3.08	11 d 21 h 40 m	56,037.28
8 (8)	BALTIMORE-WASHINGTON PARKWAY @ I-495/I-95	3 h 22 m	3	12 d 15 h 45 m	51,728.65
9 (6)	I-66 E @ SYCAMORE ST/EXIT 69	4 h 50 m	1.75	18 d 03 h 39 m	49,269.14
10 (18)	MD-5 S @ MD-381/BRANDYWINE RD	9 h 38 m	0.62	36 d 04 h 00 m	46,883.59



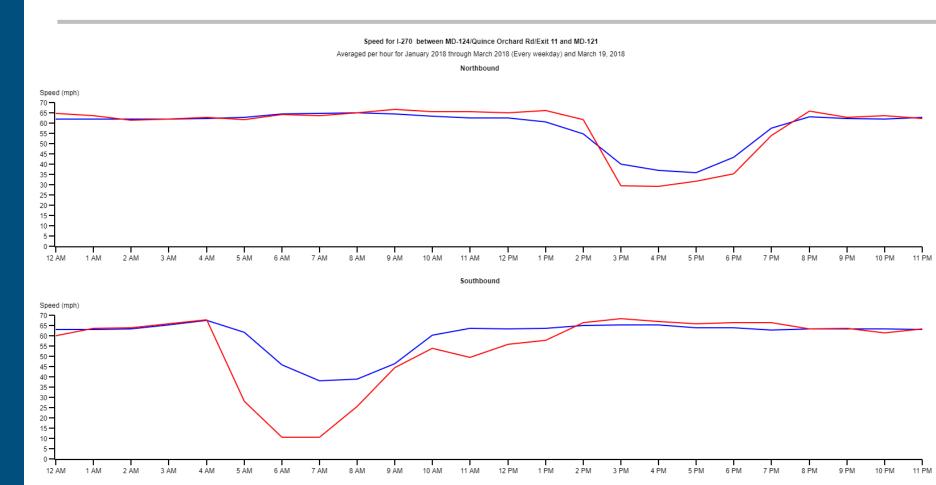
Impact of a crash - speed

between MD-124/Quince Orchard Rd/Exit 11 and MD-121 and I-270 Local between MD-124/Montgomery Village Ave and I-270 (NORTH)





Impact of a crash on Interstate



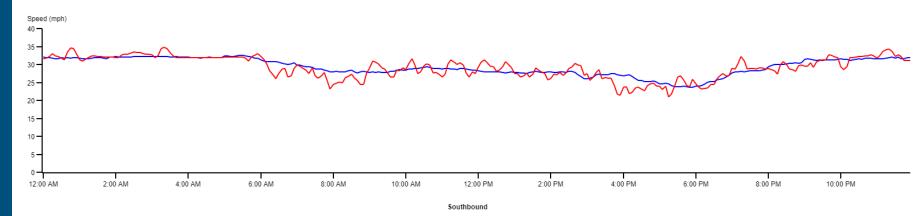


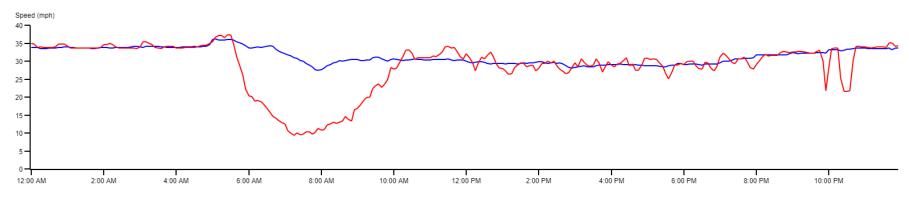
Impact of a crash on surface street

Speed for MD-355 between Comus Rd and I-370

Averaged per five minutes for January 2018 through March 2018 (Every weekday) and March 19, 2018

Northbound





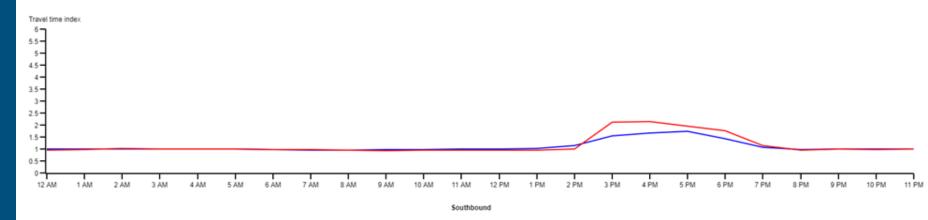


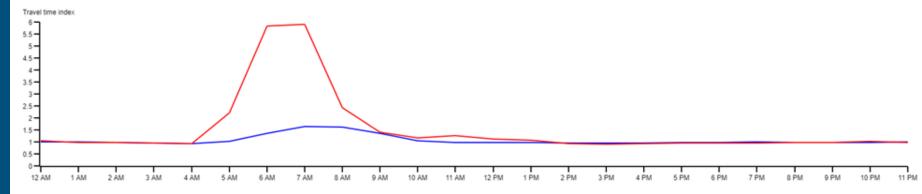
Impact of a crash - TTI

Travel time index for I-270 between MD-124/Quince Orchard Rd/Exit 11 and MD-121

Averaged per hour for January 2018 through March 2018 (Every weekday) and March 19, 2018

Northbound





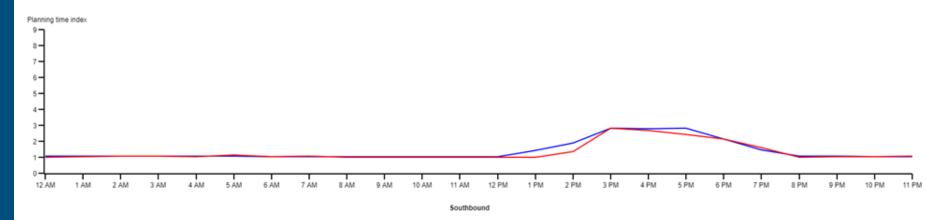


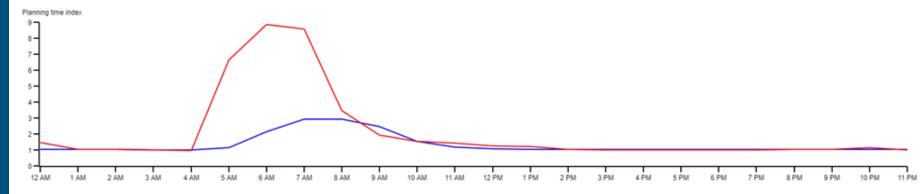
Impact of a crash - PTI

Planning time index for I-270 between MD-124/Quince Orchard Rd/Exit 11 and MD-121

Averaged per hour for January 2018 through March 2018 (Every weekday) and March 19, 2018

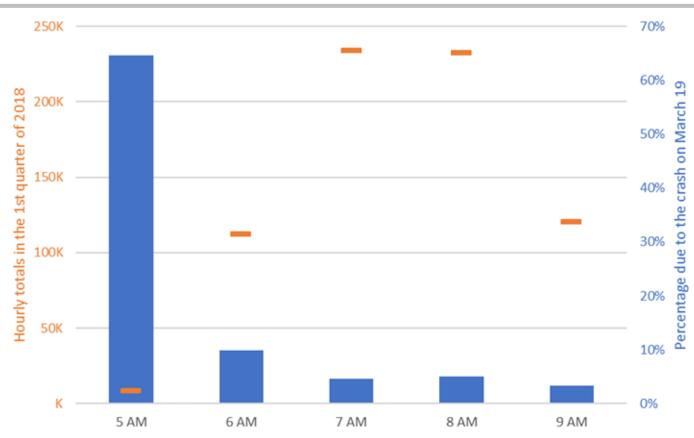
Northbound







Hourly Monetary User Delay Cost of the Crash



Disclaimer: Numbers were resulted from the User Delay Cost Analysis that was available at RITIS.org



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