CONGESTION REPORT

3rd Quarter 2022

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

October 2022



CONGESTION REPORT

October 2022

ABOUT THE TPB

The National Capital Region Transportation Planning Board (TPB) is the federally designated metropolitan planning organization (MPO) for metropolitan Washington. It is responsible for developing and carrying out a continuing, cooperative, and comprehensive transportation planning process in the metropolitan area. Members of the TPB include representatives of the transportation agencies of the states of Maryland and Virginia and the District of Columbia, 24 local governments, the Washington Metropolitan Area Transit Authority, the Maryland and Virginia General Assemblies, and nonvoting members from the Metropolitan Washington Airports Authority and federal agencies. The TPB is staffed by the Department of Transportation Planning at the Metropolitan Washington Council of Governments (COG).

CREDITS

Editor: Jan-Mou Li

Contributing Editors: Andrew Meese

ACCOMMODATIONS POLICY

Alternative formats of this document are available upon request. Visit www.mwcog.org/accommodations or call (202) 962-3300 or (202) 962-3213 (TDD).

TITLE VI NONDISCRIMINATION POLICY

The Metropolitan Washington Council of Governments (COG) operates its programs without regard to race, color, and national origin and fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations prohibiting discrimination in all programs and activities. For more information, to file a Title VI related complaint, or to obtain information in another language, visit www.mwcog.org/nondiscrimination or call (202) 962-3300.

El Consejo de Gobiernos del Área Metropolitana de Washington (COG) opera sus programas sin tener en cuenta la raza, el color, y el origen nacional y cumple con el Título VI de la Ley de Derechos Civiles de 1964 y los estatutos y reglamentos relacionados que prohíben la discriminación en todos los programas y actividades. Para más información, presentar una queja relacionada con el Título VI, u obtener información en otro idioma, visite www.mwcog.org/nondiscrimination o llame al (202) 962-3300.

Copyright @ 2022 by the Metropolitan Washington Council of Governments

TABLE OF CONTENTS

CONGESTION – TRAVEL TIME INDEX (TTI)	1
RELIABILITY – PLANNING TIME INDEX (PTI)	2
TOP 10 BOTTLENECKS	3
CONGESTION MAPS	9
2022Q3 SPOTLIGHT	11

FIGURES AND TABLES

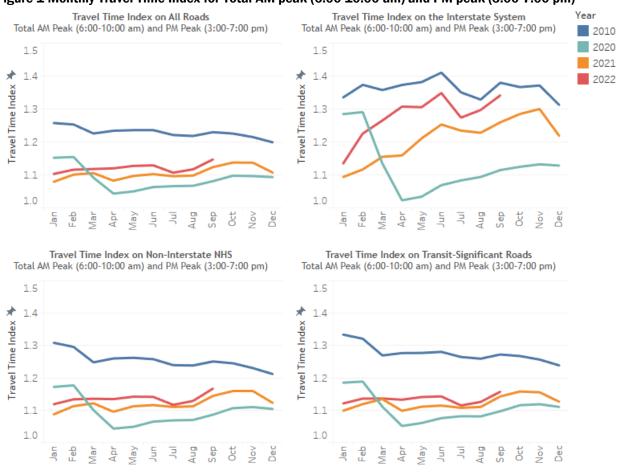
FIGURE 1 MONTHLY TRAVEL TIME INDEX FOR TOTAL AM PEAK (6:00-10:00 AM) AND PM PEAK (3:00-7:00 PM)	1
FIGURE 2 MONTHLY PLANNING TIME INDEX FOR TOTAL AM PEAK (6:00-10:00 AM) AND PM PEAK (3:00-7:00 PM)	ິ 2
FIGURE 3. TRAVEL TIME INDEX DURING WEEKDAY 8: 00-9:00 A.M. IN 3RD QUARTER OF 2022	9
EIGUDE 4 TRAVEL TIME INDEX DURING WEEKDAY 5:00 6:00 P.M. IN 3PD OUARTER OF 2022	10

CONGESTION - TRAVEL TIME INDEX (TTI)

Interstate System TTI 3rd Quarter 2022: TTI Trailing 4 Quarters:	1.30 1.28	†5.1% or 0.06 ¹ †8.6% or 0.10 ²	Non-Interstate NHS ³ TTI 3rd Quarter 2022: TTI Trailing 4 Quarters:	1.14 1.14	†1.4% or 0.02 †2.5% or 0.03
Transit-Significant ⁴			All Roads		
TTI 3rd Quarter 2022:	1.13	↑1.1% or 0.01	TTI 3rd Quarter 2022:	1.12	↑1.6% or 0.02
TTI Trailing 4 Quarters:	1.14	†2.0% or 0.02	TTI Trailing 4 Quarters:	1.12	†2.2% or 0.02

¹ Compared to 3rd Quarter 2021; ²Compared to one year earlier; ³ NHS: National Highway System; ⁴ See "Background" section.

Figure 1 Monthly Travel Time Index for Total AM peak (6:00-10:00 am) and PM peak (3:00-7:00 pm)



Source: TPB

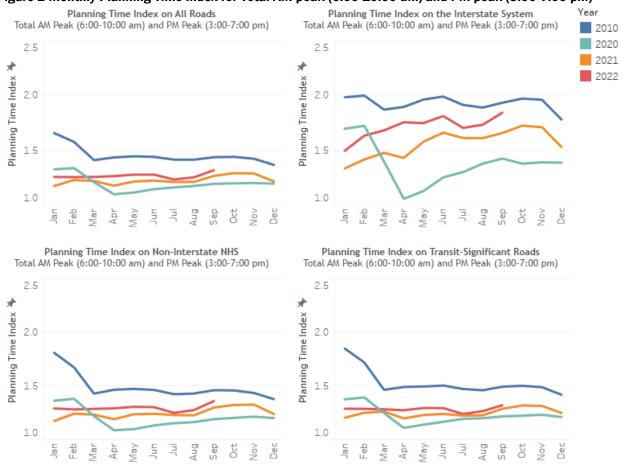
Travel Time Index (TTI), defined as the ratio of actual travel time to free-flow travel time, measures the intensity of congestion. The higher the index, the more congested traffic conditions it represents, e.g., TTI = 1.00 means free flow conditions, while TTI = 1.30 indicates the actual travel time is 30% longer than the free-flow travel time.

RELIABILITY – PLANNING TIME INDEX (PTI)

Interstate System PTI 3rd Quarter 2022: PTI Trailing 4 Quarters:	1.76 1.69	†8.2% or 0.13 ¹ †13.6% or 0.20 ²	Non-Interstate NHS ³ PTI 3rd Quarter 2022: PTI Trailing 4 Quarters:	1.29 1.29	†3.5% or 0.04 †5.7% or 0.07
Transit-Significant⁴ PTI 3rd Quarter 2022: PTI Trailing 4 Quarters:	1.27 1.28	†2.3% or 0.03 †4.3% or 0.05	All Roads PTI 3rd Quarter 2022: PTI Trailing 4 Quarters:	1.27 1.26	†3.2% or 0.04 †4.6% or 0.06

¹ Compared to 3rd Quarter 2021;²Compared to one year earlier; ³ NHS: National Highway System; ⁴ See "Background" section.

Figure 2 Monthly Planning Time Index for Total AM peak (6:00-10:00 am) and PM peak (3:00-7:00 pm)



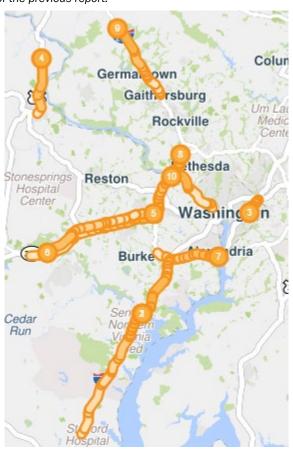
Source: TPB

Planning Time Index (PTI), defined as the ratio of 95th percentile travel time to free flow travel time, measures travel time reliability. The higher the index, the less reliable traffic conditions it represents, e.g., PTI = 1.30 means a traveler must budget 30% longer than the uncongested travel time to arrive on time 95% of the instances (i.e., 19 out of 20 trips).

TOP 10 BOTTLENECKS

Rank (Last Quarter		Average	Average max length		
Rank)	Location	duration	(miles)	Total duration	Impact factor
1 (1)	I-95 S @ VA-123/EXIT 160	10 h 22 m	3.45	39 d 18 h 4 m	151,712
2 (2)	I-95 N @ VA-123/EXIT 160	4 h 42 m	4.29	18 d 1 h 17 m	99,548
3 (4)	DC-295 S @ CAPITOL ST	8 h 43 m	1.6	33 d 11 h 25 m	67,965
4 (8)	US-15 N @ STUMPTOWN RD/LUCKETTS RD	1 h 33 m	6.9	5 d 23 h 45 m	58,868
5 (10)	I-66 E @ I-495/EXIT 64	4 h 11 m	2.79	16 d 1 h 59 m	58,665
6 (14)	I-66 W @ VA-234/EXIT 47	1 h 37 m	6.7	6 d 5 h 27 m	55,528
7 (**)	I-495 CCW @ WOODROW WILSON MEMORIAL BRIDGE	2 h 33 m	3.87	9 d 18 h 39 m	54,277
8 (6)	I-495 CW @ I-270 SPUR	1 h 23 m	6.84	5 d 7 h 37 m	52,825
9 (**)	I-270 N @ MD-109/EXIT 22	1 h 55 m	4.84	7 d 9 h 40 m	47,992
10 (9)	GW PKY N @ I-495	4 h 45 m	0.94	18 d 5 h 9 m	46,036

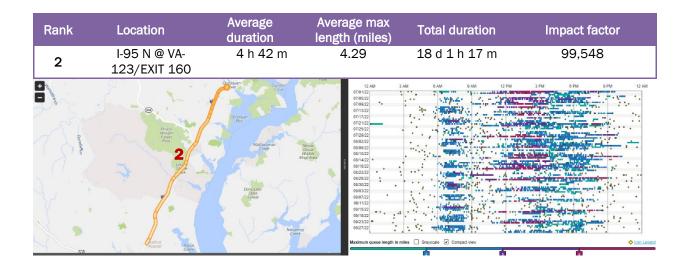
^{**}Not in the top 50 bottlenecks of the previous report.

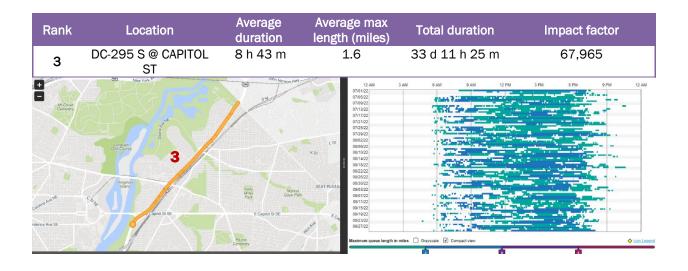


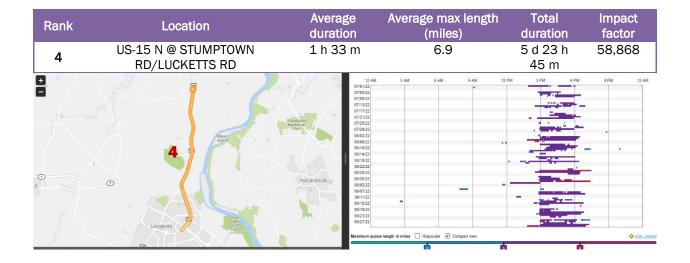
Rank	Location	Average duration	Average max length (miles)	Total duration	Impact factor*
1	I-95 S @ VA- 123/EXIT 160	10 h 22 m	3.45	39 d 18 h 4 m	151,712

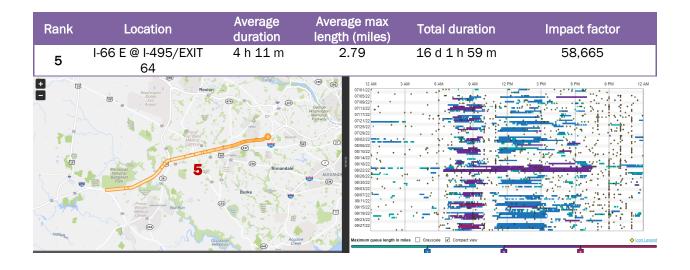
^{*} The Impact Factor of a bottleneck is simply the product of the Average Duration (minutes), Average Max Length (miles) and the number of occurrences.



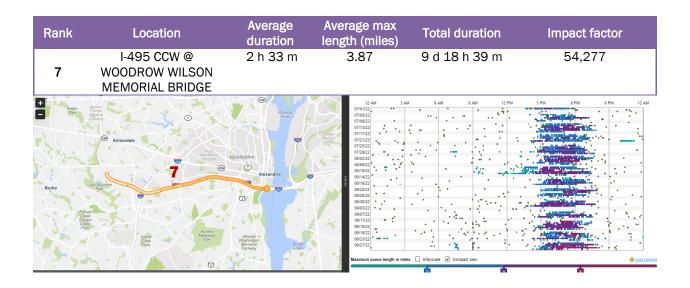


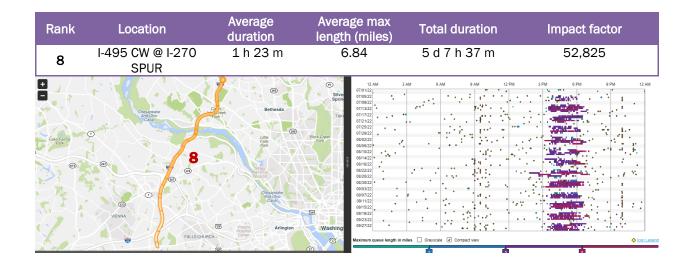


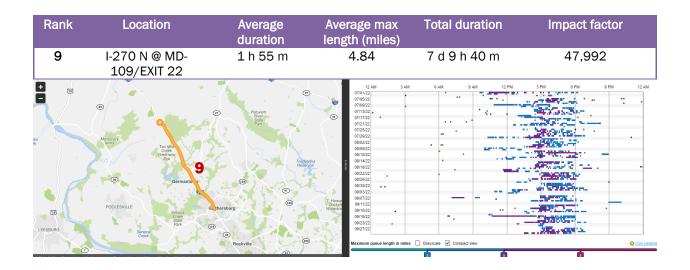


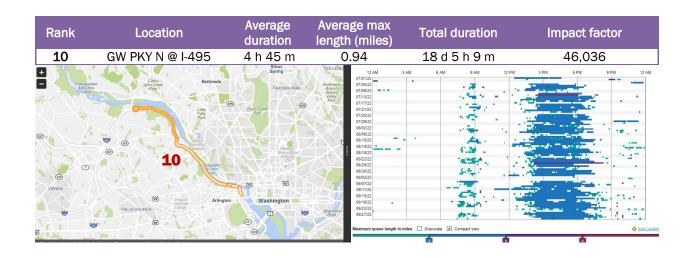






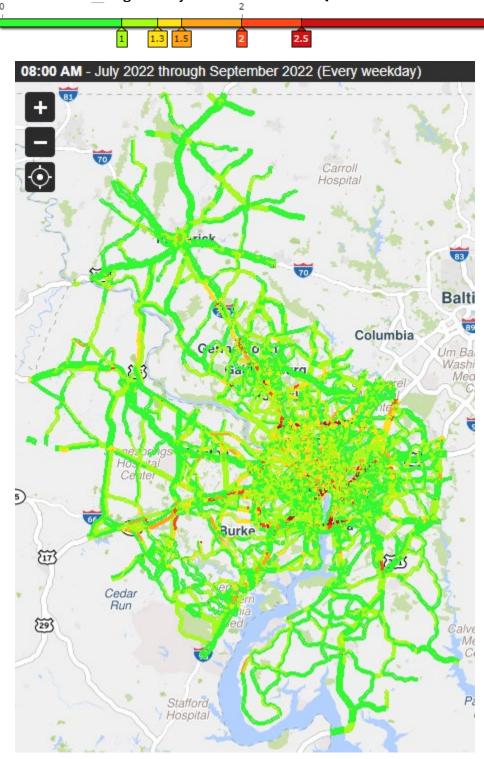






CONGESTION MAPS

Figure 3. Travel Time Index during weekday 8: 00-9:00 A.M. in 3rd Quarter of 2022



Source: University of Maryland CATT Lab

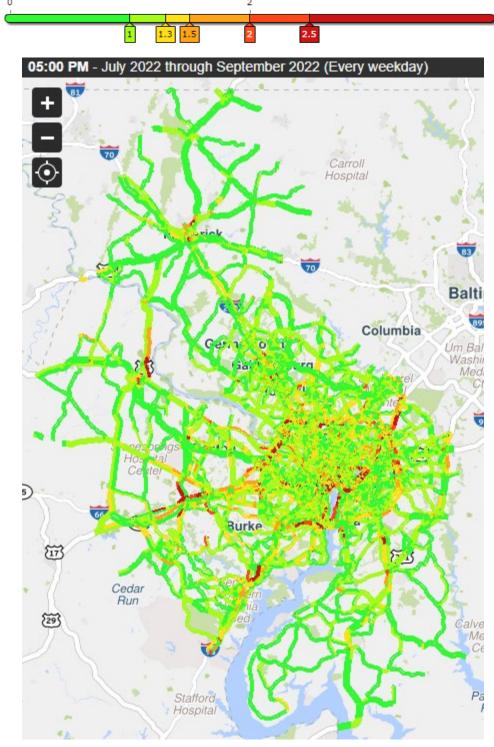


Figure 4. Travel Time Index during weekday 5:00-6:00 P.M. in 3rd Quarter of 2022

Source: University of Maryland CATT Lab

2022Q3 SPOTLIGHT

This Spotlight will be added at a later date.