CONGESTION REPORT 4th Quarter 2018

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

January 21, 2019



ABOUT TPB

Transportation planning at the regional level is coordinated in the Washington area by the National Capital Region Transportation Planning Board (TPB). Members of the TPB include representatives of the transportation agencies of the states of Maryland and Virginia, and the District of Columbia, 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 of the Metropolitan Washington Council of Governments.

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CONGESTION REPORT

4th Quarter 2018

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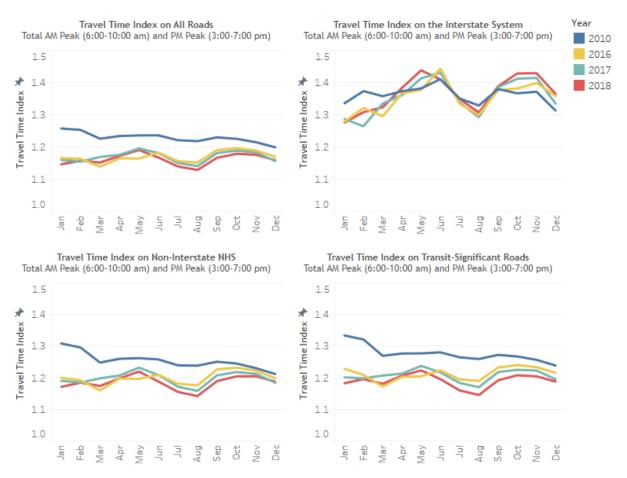
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CONGESTION - TRAVEL TIME INDEX (TTI)

1.41 1.37	1.5% or 0.02 ¹ 10.8% or 0.01 ²	TTI 4 th Quarter 2018: TTI Trailing 4 Quarters:	1.20 1.18	↓0.5% or -0.01 ↓1.1% or -0.01
1.20	11.2% or -0.01	All Roads TII 4th Quarter 2018:	1.17	10.4% or -0.01
	1.37	1.37 †0.8% or 0.01 ² 1.20 ↓1.2% or -0.01	1.37 †0.8% or 0.01 ² TTI Trailing 4 Quarters: All Roads 1.20 \$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\	All Roads 1.20 \$\frac{1.2\%}{1.2\%}\$ or -0.01 \$\text{TII 4th Quarter 2018:} \text{1.17}

¹ Compared to 4th Quarter 2017; 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)



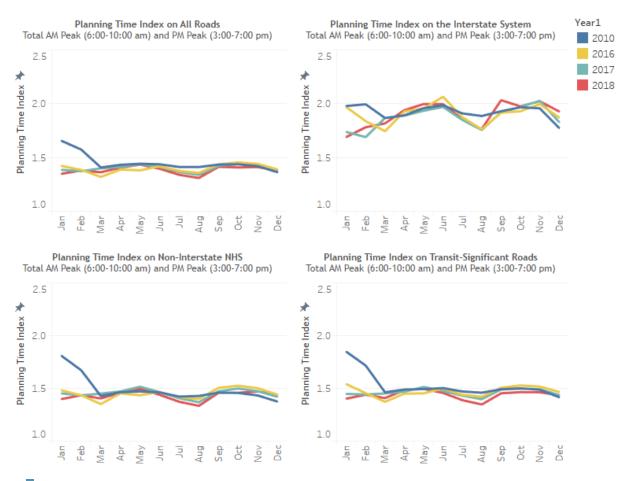
Travel Time Index (TTI), defined as the ratio of actual travel time to free-flow travel time, measures the intensity of congestion. The higher the index, the more congested traffic conditions it represents, e.g., TTI = 1.00 means free flow conditions, while TTI = 1.30 indicates the actual travel time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

RELIABILITY – PLANNING TIME INDEX (PTI)

Interstate System PTI 4 th Quarter 2018: PTI Trailing 4 Quarters:	1.98 1.90	↑1.7% or 0.03¹ ↑1.6% or 0.03²	Non-Interstate NHS ³ PTI 4 th Quarter 2018: PTI Trailing 4 Quarters:	1.46 1.43	↓0.6% or -0.009 ↓1.5% or -0.022
Transit-Significant ⁴ PTI 4 th Quarter 2018: PTI Trailing 4 Quarters:	1.45 1.44	↓1.4% or -0.02 ↓1.8% or -0.03	All Roads PTI 4 th Quarter 2018: PTI Trailing 4 Quarters:	1.40 1.38	↓0.7% or -0.01 ↓1.1% or -0.02

¹ Compared to 4th Quarter 2017;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)



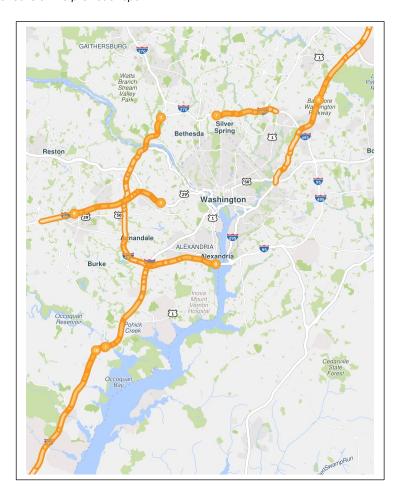
Planning Time Index (PTI), defined as the ratio of 95th percentile travel time to free flow travel time, measures travel time reliability. The higher the index, the less reliable traffic conditions it represents, e.g., PTI = 1.30 means a traveler must budget 30% longer than the uncongested travel time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

TOP 10 BOTTLENECKS

Rank (Last Quarter	Landing	Average	Average max length	Tatal divestian	lucus et forton
Rank) 1 (1) *	Location I-95 S @ VA-123/EXIT 160	duration 7 h 31 m	(miles) 4.76	Total duration 28 d 20 h 16 m	Impact factor 157,400.00
	· ·	/ II 31 III	4.70		ŕ
2 (3)	I-95 N @ VA-123/EXIT 160	4 h 37 m	3.49	17 d 17 h 30 m	90,895.00
3 (**)	I-495 CW @ I-270 SPUR	2 h 53 m	3.39	11 d 01 h 34 m	76,052.00
4 (8)	I-66 E @ SYCAMORE ST/EXIT 69	6 h 25 m	2	24 d 15 h 43 m	70,594.00
5 (5)	MD-295 N @ POWDER MILL RD	5 h 40 m	2.54	21 d 17 h 56 m	70,310.00
6 (**)	MD-295 S @ POWDER MILL RD	3 h 09 m	3.67	12 d 02 h 41 m	63,566.00
7 (10)	I-495 CCW @ MD-97/GEORGIA AVE/EXIT 31	2 h 52 m	2.98	11 d 01 h 04 m	61,792.00
8 (7)	I-495 CCW @ WOODROW WILSON MEMORIAL BRIDGE	2 h 26 m	3.74	9 d 09 h 11 m	60,674.00
9 (11)	I-66 W @ VA-123/EXIT 60	3 h 03 m	3.41	11 d 16 h 58 m	57,727.00
10 (6)	I-95 N @ VA-294/PRINCE WILLIAM PKWY/EXIT 158	3 h 12 m	2.84	12 d 06 h 44 m	54,297.00

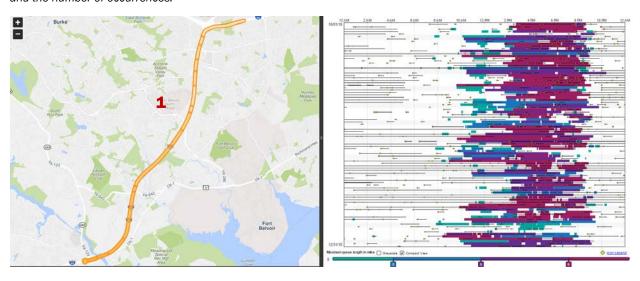
^{*} See "Bottlenecks" section in the "Background" chapter for ranking variability from quarter to quarter.

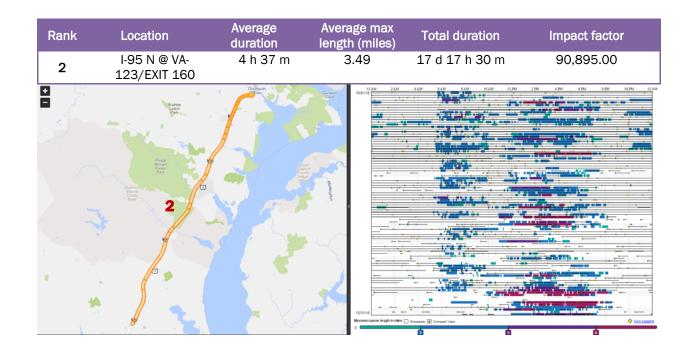
^{**}Not in the top 50 bottlenecks of the previous report.

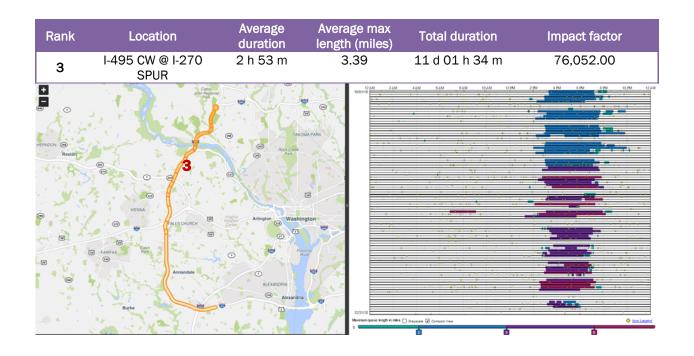


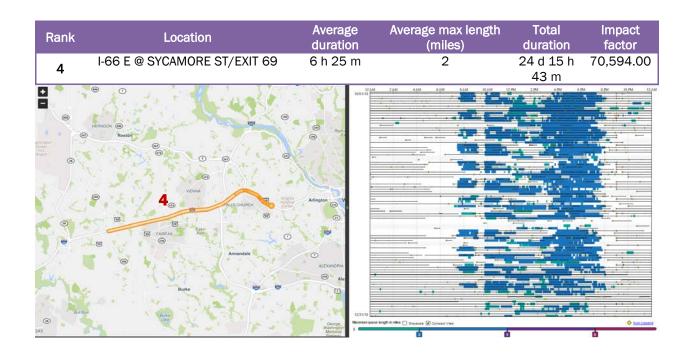
Rank	Location	Average duration	Average max length (miles)	Total duration	Impact factor*
1	I-95 S @ VA- 123/EXIT 160	7 h 31 m	4.76	28 d 20 h 16 m	157,400.00

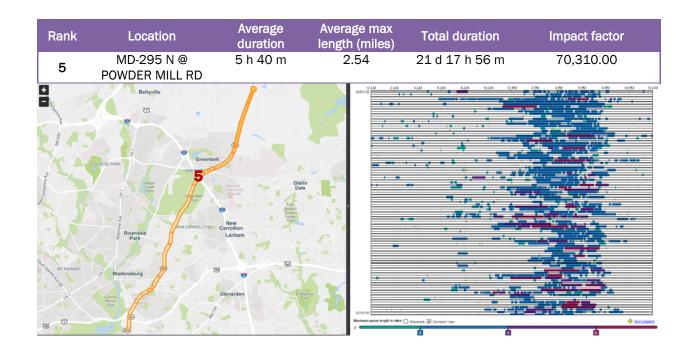
^{*} The Impact Factor of a bottleneck is simply the product of the Average Duration (minutes), Average Max Length (miles) and the number of occurrences.

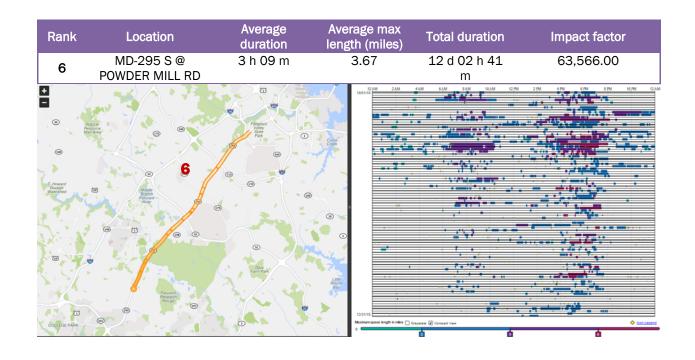


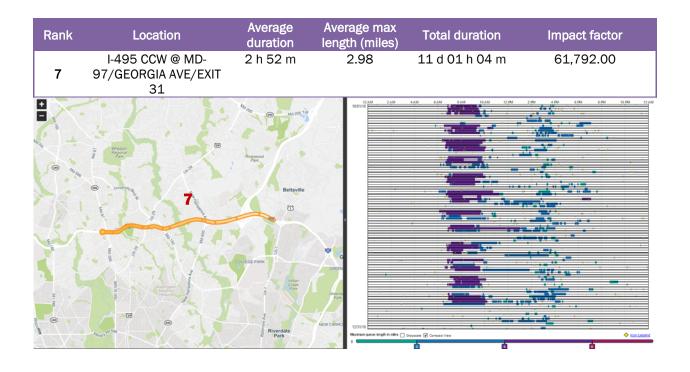


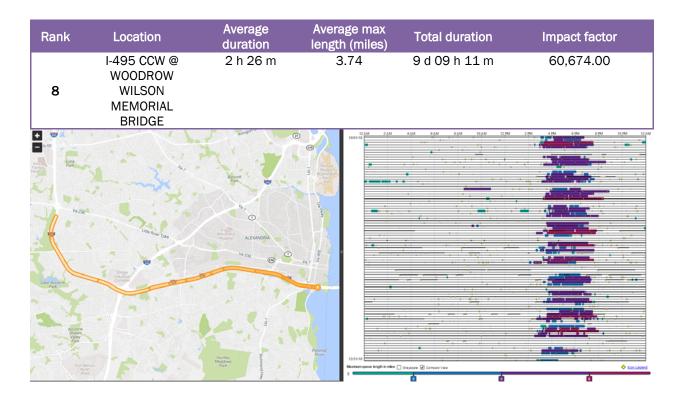


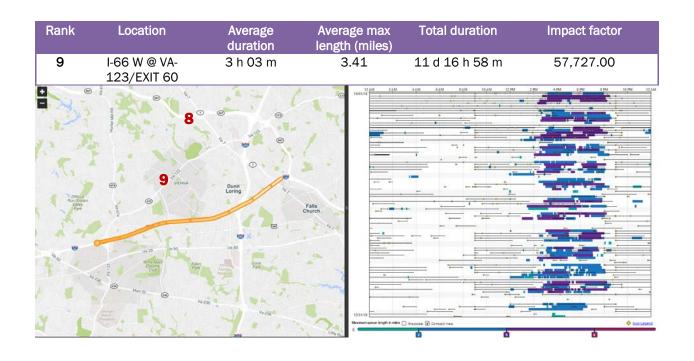


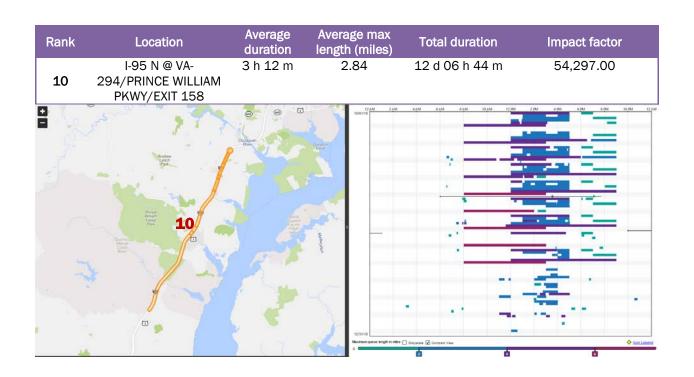




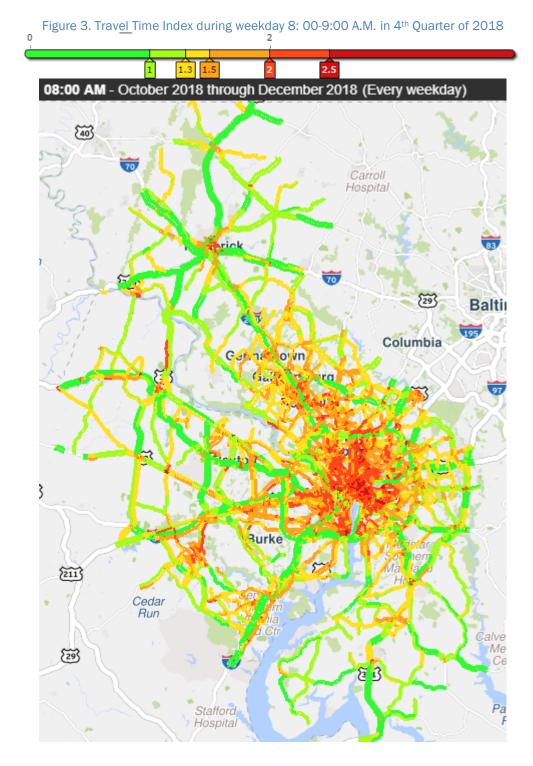


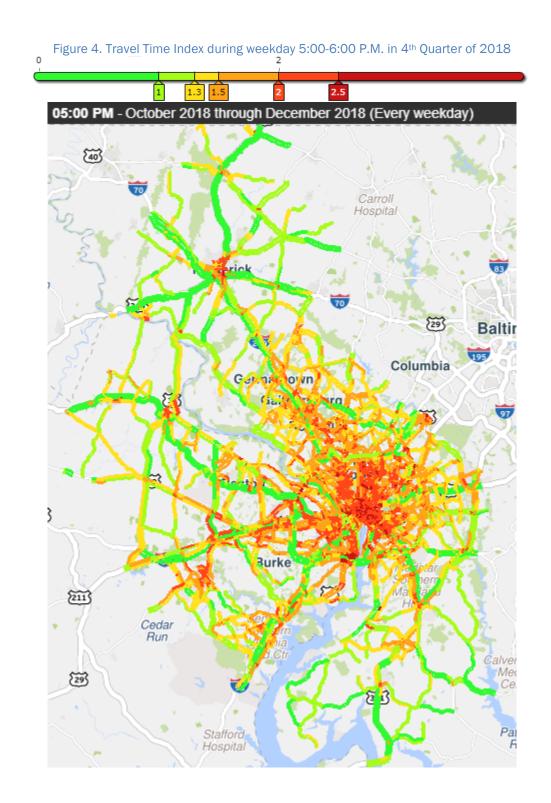






CONGESTION MAPS





2018Q4 SPOTLIGHT

The SPOTLIGHT section of the Regional Congestion Report is on hiatus for the 4th quarter of 2018.



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