



Pre and Post Pandemic Traffic Conditions

February 7, 2023



Post Pandemic Conditions

- Traffic volumes in Maryland are down an average of about 5% from pre-COVID 2019 levels, according to the State Department of Transportation.
- In 2021, Baltimore-area commuters traveled an average 27.3 minutes each way, shorter than their average 31.5 minutes each way in 2019, according to a recent study based on U.S. census data.
- Baltimore experienced the biggest drop in average commute — 4.2 fewer minutes one way — of any U.S. city outside the West Coast. California cities, including Oakland, San Francisco and San Jose, had the biggest decreases. Data obtained from the [RITIS Probe Data Analytics Suite](#).

INRIX Traffic Scorecard for Baltimore



Overview

63 Congestion
Rank
Worldwide

15 Congestion
Rank in
United
States

55 Hours
Lost in
Congestion

\$932 Cost of
Congestion
Per Driver

Vehicle Hours of Delay

Travel delay is the amount of extra time spent traveling due to congestion. Travel delay is a representation of the total vehicle hours of delay. The delay calculations are performed at the individual TMC segment level, for each hour of day. Travel delay is best calculated at the hourly level, then aggregated into various summaries, such as weekday peak period, weekday off-peak period, weekend, daily, etc. Note that travel delay values cannot be lower than 0.

There are two kinds of travel delay: **vehicle-hours of delay** and person-hours of delay. Vehicle-hours of delay is the total amount of time all vehicles on the chosen segments were delayed. Person-hours of delay is the total amount of time all passengers on the chosen segments were delayed. Because passenger cars can have more than one person in them, a 1.25 vehicle occupancy constant is applied to the passenger vehicle volume to get a more accurate estimation of

Vehicle-hours of delay = (VMT (Eq. A-3) ÷ speed) - (VMT (Eq. A-3) ÷ free-flow speed*)

Delay and Cost Summary I-695 - January through October - Weekdays

2019

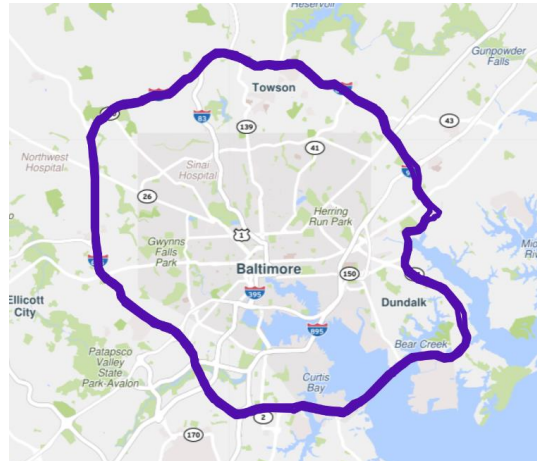
Delay and Cost Summary	
43,751 Congestion Events matched your search criteria. Those events sum to:	
🕒 Vehicle Hours of Delay:	4,326,278 hrs
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💰 Passenger:	\$87.18M
Commercial:	\$43.47M
Total Delay Cost:	\$130.65M

2020

Delay and Cost Summary	
13,409 Congestion Events matched your search criteria. Those events sum to:	
🕒 Vehicle Hours of Delay:	1,085,009 hrs
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💰 Passenger:	\$21.86M
Commercial:	\$10.90M
Total Delay Cost:	\$32.77M

2022

Delay and Cost Summary	
34,438 Congestion Events matched your search criteria. Those events sum to:	
🕒 Vehicle Hours of Delay:	2,410,318 hrs
<hr/>	
💰 Passenger:	\$48.57M
Commercial:	\$24.22M
Total Delay Cost:	\$72.79M



Current vehicle hours of delay are 56% of pre pandemic conditions in 2019

Delay and Cost Summary Limited Access Roads - January through October - Weekdays

2019

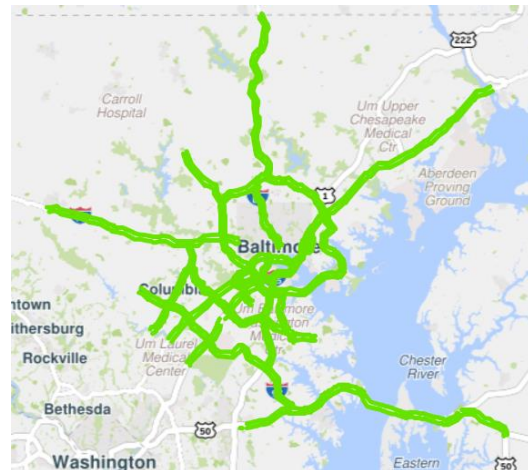
Delay and Cost Summary	
217,284 Congestion Events matched your search criteria. Those events sum to:	
🕒 Vehicle Hours of Delay:	14,383,555 hrs
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💰 Passenger:	\$289.84M
Commercial:	\$144.54M
Total Delay Cost:	\$434.38M

2020

Delay and Cost Summary	
81,376 Congestion Events matched your search criteria. Those events sum to:	
🕒 Vehicle Hours of Delay:	3,907,180 hrs
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💰 Passenger:	\$78.73M
Commercial:	\$39.26M
Total Delay Cost:	\$118.00M

2022

Delay and Cost Summary	
127,256 Congestion Events matched your search criteria. Those events sum to:	
🕒 Vehicle Hours of Delay:	8,908,222 hrs
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💰 Passenger:	\$179.51M
Commercial:	\$89.52M
Total Delay Cost:	\$269.03M



Current vehicle hours of delay are 62% of pre pandemic conditions in 2019.

Causes of Congestion 2022 – Baltimore Region – Limited Access Highways

BMC Region Limited Access

662 miles of road

January 01, 2022 to October 31, 2022

M, T, W, T, F

12:00 AM to 11:59 PM

Average Cost of Delay

Cost of Passenger Delay: \$22.39/hr

Cost of Commercial Delay: \$100.49/hr

Percent of Volume

Percent of Passenger Vehicles: 90%

Percent of Commercial Vehicles: 10%

Delay and Cost Summary

127,256 Congestion Events

matched your search criteria. Those events sum to:

🕒 Vehicle Hours of Delay: **8,908,222 hrs**

💰 Passenger: **\$179.51M**

Commercial: **\$89.52M**

Total Delay Cost: **\$269.03M**

Work Zone: **10.63%**

Incidents: **8.21%**

Unclassified: **4.18%**

Recurrent: **2.77%**

Weather: **0.85%**

Holiday: **0.25%**

Signals: **0.05%**

Multiple Causes: **73.07%**

Incidents & Work Zone: **41.66%**

Incidents, Weather & Work Zone: **10.92%**

Holiday, Incidents & Work Zone: **3.92%**

Incidents, Recurrent & Work Zone: **3.91%**

Other Multiple Causes: **12.66%**

Vehicle Hours of Delay Comparison by Jurisdiction

	2019	2022	Percentage
Anne Arundel	9,723,669	5,036,915	52%
Baltimore City	20,015,814	5,694,638	28%
Baltimore County	15,447,607	6,554,504	42%
Carroll	1,028,253	351,002	34%
Harford	2,384,893	1,400,523	58%
Howard	5,155,320	2,372,491	46%
Queen Annes	378,965	235,383	62%

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Ed Style | Transportation Analyst

410-732-0500 x1031 | estylc@baltometro.org | www.baltometro.org

