

# WASHINGTON-BALTIMORE REGIONAL AIRPORT GROUND ACCESS TRAVEL TIME STUDY

March 2025



National Capital Region  
**Transportation Planning Board**

## **WASHINGTON-BALTIMORE REGIONAL AIRPORT GROUND ACCESS TRAVEL TIME STUDY – 2025**

Prepared by the National Capital Region Transportation Planning Board in cooperation with the Federal Aviation Administration March 2025

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### **ACKNOWLEDGEMENTS**

Staff gratefully acknowledges the continued funding and operational support of our regional airport partners. At BWI Marshall Airport: Shawn Ames, Deputy Director, Office of Planning, and Mark Williams, Manager, Environmental Compliance. At MDOT Maryland Aviation Administration, Kevin Clarke, Director, Division of Planning & Engineering. At the Metropolitan Washington Airports Authority: Glen Warren, Airport-Landside Planner at Dulles International Airport, Danielle Morgan, Executive Staff Coordinator at Ronald Reagan Washington National Airport, and Lori K. Labell, Manager, Landside and Airside Contracts at Ronald Reagan Washington National Airport.

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## EXECUTIVE SUMMARY

Data analyzed for this report represents three spring periods between April 1 and before Memorial Day in 2019 (April 1 to May 26), 2020 (April 1 to May 24), and 2023 (April 1 to May 28). Each of these days were classified as a midweek day (Tuesdays, Wednesdays, Thursdays), weekend day (Friday, Saturday, Sunday, Monday) or holiday (both secular holidays such as Memorial Day and religious holidays such as Easter were categorized as holidays – if a day was classified as a holiday, it was excluded from midweek or weekend analysis). Since there was only one holiday (Easter) during the periods of analysis, this report does not focus on comparisons involving holiday trips due to sample size limitations.

Like the previous version of this report in 2015, no field data collection was performed, and all analyzed data are based on vehicle probe data, which allowed analysis to include all hours of every day in the three analysis years. Analysis of the datasets reveals the following:

- In aggregate, travel times to the airports, as measured by the Travel Time Index (TTI), decreased significantly in 2020 compared to the pre-pandemic baseline year (2019), but increased in 2023.
- In aggregate for weekday travel, the highest TTI and Planning Time Index (PTI) were observed for travel to Ronald Reagan Washington National Airport (DCA) during the midweek morning peak period (6 AM to 9 AM). The highest TTI to Baltimore/Washington International Thurgood Marshall Airport (BWI) was observed during the weekday afternoon peak period (3 PM to 7 PM). The highest TTI values for travel to Washington Dulles International Airport (IAD) were during midweek morning peak.
- Managed lanes including MD-200, I-95 Express Lanes, I-495 Express Lanes, and I-66 Toll Lanes have significantly reduced travel times for air passengers. From Rockville to BWI, MD-200 saved 28 minutes during the PM Peak. From Fredericksburg to DCA, I-95 Express Lanes and I-395 HOV lanes saved 23 minutes during the AM Peak. From Springfield to IAD, I-495 Express Lanes saved 12 minutes during the AM Peak.
- Air passengers can take transit to all three airports. It takes about 16 minutes to ride Metrorail from downtown D.C. to DCA, and 30 minutes from downtown Baltimore to BWI. The transit travel time ranges from 2 hours and 20 minutes to 3 hours and 30 minutes for transit trips to the three airports from Washington County, Charles County, and St. Mary's County in Maryland.
- Congested highways continue to impact travel to and between the three airports as traffic congestion has mostly returned to pre-pandemic levels in 2023. However, congestion during the morning midweek peak has improved while the afternoon peak has worsened.
- Recurring bottleneck congestion includes Outer Loop I-695 in Baltimore County; I-270 and I-270 Spur in Montgomery County; both loops of I-495 from Fairfax County and Montgomery County; Baltimore-Washington Parkway in Anne Arundel County and Prince George's County; U.S. 50 (John Hanson Highway) in Prince George's County; the conventional lanes of I-95 in Prince William County; the conventional lanes of I-395 in Fairfax County, City of Alexandria and Arlington County; I-66 in Fairfax and Prince William Counties; DC-295, I-695 and I-395 in the District of Columbia; and George Washington Parkway in Arlington County and Fairfax County.



# INTRODUCTION

The Metropolitan Washington Council of Government's (COG) Continuous Airport System Planning (CASP) Program is sponsored by the Federal Aviation Administration (FAA). The CASP Program provides a process and products which support the planning, development, and operation of airport and airport-serving facilities in a system framework for the Washington-Baltimore air system planning region. A key objective of the program is to monitor and update the basic system plan to be responsive to the changing regional environment – both the air system itself and the ground transportation system that provides access to air services. The National Capital Region Transportation Planning Board (TPB) is the federally designated Metropolitan Planning Organization (MPO) for the Washington, D.C., metropolitan area. COG staff members serve as technical staff to the TPB. The Aviation Technical Subcommittee of the TPB's Technical Committee provides oversight for the CASP Program. The subcommittee, which meets bi-monthly, consists of representatives from the Maryland Aviation Administration (MAA), the Metropolitan Washington Airports Authority (MWAA), state and local transportation agencies, and the FAA.

As part of the region's transportation planning program, COG has conducted several highway travel time studies between major regional activity centers. Beginning in fall 1988, COG specifically studied highway travel times from selected activity centers to the region's three commercial airports: Baltimore/Washington International Thurgood Marshall Airport (BWI), Ronald Reagan Washington National Airport (DCA), and Washington Dulles International Airport (IAD). The study was repeated in 1994, 2003, 2011 and 2015, before the current study, for which data were analyzed using vehicle probe data obtained from the Center for Advanced Transportation Technology Laboratory<sup>1</sup> (CATT Lab) at the University of Maryland – in other words, no field data collection was performed for the current study. In years prior to 2011, probe vehicles were used to measure speeds and congestion along a subset of routes described in this report.

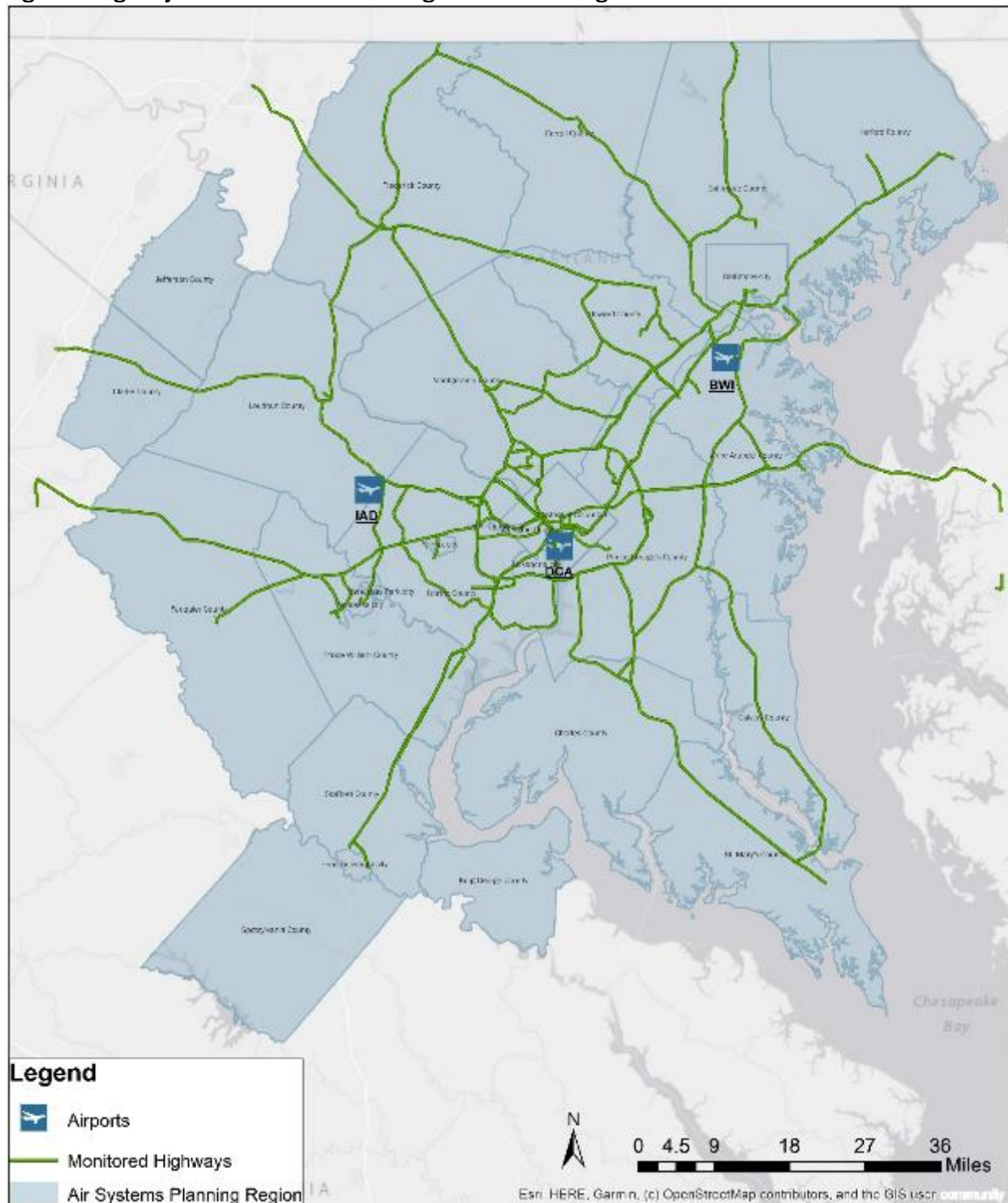
Data sets of travel time and road links were retrieved for 115 travel routes for this study. Figure 1 shows a map of the 2023 travel time routes inside the air system planning region. The routes are listed in Table 1, Table 2, and Table 3, along with those routes for which data were also collected in the three previous studies. The current study includes some slight modifications to travel routes from previous studies to respond to changes in the regional highway network. Those modifications are described in the route table. But in general, the data are backwards-comparable across study years. The routes were selected to maintain consistency with previous studies. Route ID is introduced for the first time in this study for easier reference.

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<sup>1</sup> See the CATT Lab Web site at: <http://www.cattlab.umd.edu/>



**Figure 1: Highways Monitored in the Washington-Baltimore Region**



**Table 1: Data Collection Routes for Ground Access Travel Time Studies (BWI)**

ID	Origin	Route
BWI001	Aberdeen	Aberdeen (via MD-22, I-95 (via Fort McHenry Tunnel) and I-195)
BWI002	Annapolis	Annapolis (via US-50 and I-97, MD-176 and MD-162)
BWI003	Baltimore City	Baltimore City (Downtown) (West Fayette Street and North Charles Street) (via MLK Boulevard, South Russell Street, MD-295 and I-195)
BWI004	Baltimore City	Baltimore City (Broening Highway/Seagirt Marine Terminal) (via I-695 (Baltimore Beltway via F.S. Key Bridge), I-97, MD-176 and MD-162)
BWI005	Bel Air	Bel Air (via MD-24, I-95 (via Fort McHenry Tunnel) and I-195)
BWI006	D.C. - 14th Street and Independence Avenue, S.W.	D.C. - 14th Street and Independence Avenue, S.W. (via Independence Avenue, I-695 [D.C.] (Southeast Freeway), DC-295, MD-201, Baltimore-Washington Parkway, MD-295 and I-195)
BWI007	D.C. - 14th Street and Independence Avenue, S.W.	D.C. - 14th Street and Independence Avenue, S.W. (via Independence Avenue, Pennsylvania Avenue, S.E., DC- 295, MD-201, Baltimore- Washington Parkway, MD- 295 and I-195)
BWI008	D.C. - 14th Street and K Street, N.W.	D.C. - 14th Street and K Street, N.W. (via K Street, N.W., US-50 (New York Avenue, N.W. and N.E.), Baltimore-Washington Parkway, MD- 295 and I-195)
BWI009	D.C. - 14th Street and K Street, N.W.	D.C. - 14th Street and K Street, N.W. (via K Street, N.W., US-50 (New York Avenue, N.W. and N.E.), Baltimore-Washington Parkway, I-95/I- 495 (Capital Beltway), I-95 and I-195)
BWI010	D.C. - 14th Street and K Street, N.W.	D.C. - 14th Street and K Street, N.W. (via K Street, N.W., US-50 (New York Avenue, N.W. and N.E.), U.S. 50 (John Hanson Highway), I-97, MD-176, and MD-162)
BWI011	DCA	DCA (via George Washington Memorial Parkway, I-395 Southwest Freeway), I-695 [D.C.] (Southeast Freeway), DC-295, MD-201, Baltimore-Washington Parkway, MD- 295, I-195
BWI012	College Park	College Park (via US-1, I-95 and I-195)
BWI013	Columbia	Columbia (via MD-100, I-95 and I-195)
BWI014	Easton	Easton (via US-50 (via Chesapeake Bay Bridge), I-97, MD-176 and MD-162)
BWI015	Frederick	Frederick (via I-70, US-29, MD-100, I-95 and I-195)
BWI016	Gaithersburg	Gaithersburg (via Watkins Mill Road, I-270, I-270 Spur, I-495 (Capital Beltway), I-95 and I-195)
BWI017	Gaithersburg	Gaithersburg (via Watkins Mill Road, I-270, I-370, MD-200 (ICC), I-95 and I-195)
BWI018	Gettysburg, Pennsylvania	Gettysburg, Pennsylvania (via US-30, US-15, MD-140, I-795, I-695, I-95 and I-195)
BWI019	Gettysburg, Pennsylvania	Gettysburg, Pennsylvania (via US-30, US-15, I-70, US-29, MD-100, I- 95 and I-195)
BWI020	Greenbelt	Greenbelt (via Baltimore-Washington Parkway, MD-295 and I-195)
BWI021	Hagerstown	Hagerstown (via U.S. 40 (Dual Highway), I-70, US-29, MD-100, I-95)
BWI022	IAD	IAD (via Dulles Airport Access Road, I-495 (Capital Beltway via American Legion Bridge), I-95, I-195)

BWI023	IAD	IAD (via Dulles Airport Access Road, I-495 (Capital Beltway via American Legion Bridge), I-270, I-370, MD-200, I-95, I-195)
BWI024	Largo	Largo (via I-95/I-495 (Capital Beltway), Baltimore-Washington Parkway, MD-295 and I-195)
BWI025	Lexington Park	Lexington Park (via MD-2, MD-4, US-301, MD-3, I-97, MD-176, MD-162)
BWI026	National Harbor	National Harbor (via I-95/I-495 (Capital Beltway), Baltimore- Washington Parkway, MD-295 and I-195)
BWI027	Rockville	Rockville (via I-270, I-370, MD-200 (ICC), I-95, I-195)
BWI028	Rockville	Rockville (via I-270, I-495 (Capital Beltway), I-95, and I-195)
BWI029	Rockville	Rockville (via I-270, I-495 (Capital Beltway), I-95, MD-32, Baltimore-Washington Parkway, and MD 295)
BWI030	Rockville	Rockville (via MD-28, MD-650, MD-108, MD-32, Baltimore- Washington Pkwy, and MD-295)
BWI031	Springfield	Springfield (via VA-613, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), Baltimore-Washington Parkway, MD 295 and I-195)
BWI032	Towson	Towson (via I-695 (Baltimore Beltway) and MD 295, I-195)
BWI033	Tysons Corner	Tysons Corner (via I-495 (Capital Beltway via American Legion Bridge), I-95 and I-195)
BWI034	Waldorf	Waldorf (via MD-5 Business, US-301, MD-3, I-97, MD-176, MD-462 and MD-170)
BWI035	Westminster	Westminster (MD-27, MD-140, I-795, I-695 (Baltimore Beltway), I-95, I-195)
BWI036	White Marsh	White Marsh (via Honeygo Blvd., MD-43, I-95 (via Fort McHenry Tunnel) and MD 295)
BWI037	York, Pennsylvania	York, Pennsylvania (via U.S. 30, I-83, I-695 (Baltimore Beltway), I-95, I-195)
BWI038	Lancaster, Pennsylvania	Lancaster, Pennsylvania (via PA-272, US-30, I-83, I-695, I-95, I-195)
BWI039	Bethesda	Bethesda (via MD-187, W Cedar Ln, MD-355, I-495, I-9, I-195)
BWI040	Friendship Heights	Friendship Heights (via MD-355, Western Ave, Md-185, I-495, I-95, I-195)

**Table 2: Data Collection Routes for Ground Access Travel Time Studies (DCA)**

ID	Origin	Route
DCA001	Annapolis	Annapolis (via MD-70, US-50, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway) and George Washington Memorial Parkway)
DCA002	Baltimore City	Baltimore City (Downtown) (West Fayette Street and North Charles Street) (via MLK Boulevard, South Russell Street, MD-295, Baltimore-Washington Parkway, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway), George Washington Memorial Parkway)
DCA003	BWI	BWI (via I-195, MD-295, Baltimore-Washington Parkway, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway) and George Washington Memorial Parkway)
DCA004	College Park	College Park (via Paint Branch Parkway, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway), George Washington Memorial Parkway)
DCA005	D.C. - 14th Street and K Street, N.W.	D.C. - 14th Street and K Street, N.W. (via K St N.W., 14th St N.W./S.W., I-395 and the George Washington Memorial Parkway)
DCA006	Fort Meade	Fort Meade (via MD-32, MD-295, Baltimore-Washington Parkway, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway) and George Washington Memorial Parkway)
DCA007	Fort Belvoir	Fort Belvoir (via U.S. 1, VA-235, George Washington Memorial Parkway, VA-400 (Washington Street), George Washington Memorial Parkway)
DCA008	Fredericksburg	Fredericksburg (via US-1 Business, US-1, US-17 Business, I-95, I-395, George Washington Memorial Parkway)
DCA009	Fredericksburg	Fredericksburg (via US-1 Business, US-1, US-17 Business, I-95, I-95 (managed lanes), I-395 (managed lanes), VA-27, George Washington Memorial Parkway)
DCA010	Frederick	Frederick (via I-270, I-270 Spur, I-495 (Capital Beltway), and George Washington Memorial Parkway)
DCA011	Gaithersburg	Gaithersburg (via Watkins Mill Road, I-270, I-270 Spur, I-495 (Capital Beltway), and George Washington Memorial Parkway)
DCA012	George Mason University	George Mason University (Fairfax Campus) (via VA-123, I-66, VA-110, US-1, VA-233)
DCA013	Greenbelt	Greenbelt (via Baltimore-Washington Parkway, MD-201, DC-295, I-695, I-395 and George Washington Memorial Parkway)
DCA014	Greenbelt	Greenbelt (via Baltimore-Washington Parkway, US-50 (New York Avenue), I-395 (Southwest Freeway), George Washington Memorial Parkway)
DCA015	IAD	IAD (via GWMP, Spout Run Parkway, US-29, I-66, VA-267 (Dulles Connector Road) and Dulles Access Road)
DCA016	IAD	IAD (via George Washington Memorial Parkway, I-495, VA-267 and Dulles Access Road)
DCA017	Largo	Largo (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), VA-400 (Washington Street) and George Washington Memorial Parkway)
DCA018	Lexington Park	Lexington Park (via MD-235, MD-5, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), VA-400 (Washington Street) and George Washington Memorial Parkway)
DCA019	Manassas	Manassas (via VA 28, I-66, I-495 (Capital Beltway), US-50, George Washington Memorial Parkway)
DCA020	Manassas	Manassas (via VA 28, I-66, VA-110, US-1 and VA-233)
DCA021	National Harbor	National Harbor (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), VA-400 (Washington Street), George Washington Memorial Parkway)

DCA022	Rockville	Rockville (via I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge), and George Washington Memorial Parkway)
DCA023	Springfield	Springfield (via VA-644, I-395 (managed), VA-27, George Washington Memorial Parkway)
DCA024	Springfield	Springfield (via VA-644, I-395 (Conventional), George Washington Memorial Parkway)
DCA025	Suitland Federal Center	Suitland Federal Center (via Suitland Parkway, South Capitol Street, I-395 (Southwest Freeway), George Washington Memorial Parkway)
DCA026	Tysons Corner	Tysons Corner (via VA 7, VA 123, VA-267 (Dulles Toll Road), Dulles Connector Road, I-66, VA-110, VA-233)
DCA027	Tysons Corner	Tysons Corner (via VA-7, VA-123, I-495 and George Washington Memorial Parkway)
DCA028	Waldorf	Waldorf (via MD-228, MD-210, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), VA-400 (Washington Street), George Washington Memorial Parkway)
DCA029	Waldorf	Waldorf (via US-301, MD-5, I-95/I-495 (Capital Beltway via Wilson Bridge), VA-400 (Washington Street), George Washington Memorial Parkway)
DCA030	Warrenton	Warrenton (via US-15, US-29, I-66, VA-110, US-1, VA-233)
DCA031	Warrenton	Warrenton (via US-29, I-66, I-495 (Capital Beltway), US-50, George Washington Memorial Parkway)
DCA032	Woodbridge	Woodbridge (via US-1, VA-123, I-95 (Conv), I-395 (Conv), George Washington Memorial Parkway)
DCA033	Woodbridge	Woodbridge (via US-1, VA-123, I-95 (managed), I-395 (managed), VA-110, US-1, VA-233)
DCA034	Bethesda	Bethesda (via MD-188, MD-190, I-495, GW Parkway, VA-233)
DCA035	Friendship Heights	Friendship Heights (via Wisconsin Ave, Nebraska Ave NW, Foxhall Rd NW, Canal Rd, US-29, Fort Myer Dr, US-50, GW Parkway, VA-233)



**Table 3: Data Collection Routes for Ground Access Travel Time Studies (IAD)**

ID	Origin	Route
IAD001	Baltimore City	Baltimore City (Downtown) (West Fayette Street and North Charles Street) (via MLK Boulevard, South Russell Street, MD-295, I-95, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)
IAD002	Bethesda	Bethesda (via MD-188, MD-190, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)
IAD003	BWI	BWI (via I-195, I-95, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)
IAD004	BWI	BWI (via I-195, I-95, MD-200 (ICC), I-370, I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge) and Dulles Airport Access Road)
IAD005	D.C. - 14th Street and K Street, N.W.	D.C. - 14th Street and K Street, N.W. (via K St N.W., 14th St N.W., Constitution Avenue, N.W., I-66, Dulles Connector, Dulles Airport Access Road)
IAD006	D.C. - 14th Street and K Street, N.W.	D.C. - 14th Street and K Street, N.W. (via K St N.W., 14th St N.W., Constitution Avenue, N.W., I-66, George Washington Memorial Parkway, I-495 (Capital Beltway), Dulles Airport Access Road)
IAD007	DCA	DCA (via VA-233, US-1, VA-110, I-66, Dulles Connector Road, Dulles Airport Access Road)
IAD008	DCA	DCA (via George Washington Memorial Parkway, I-495 (Capital Beltway), Dulles Airport Access Road)
IAD009	Fort Belvoir	Fort Belvoir (VA-286, Dulles Airport Access Road)
IAD010	Fort Meade	Fort Meade (MD-32, I-95, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)
IAD011	Frederick	Frederick (via I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge), and Dulles Airport Access Road)
IAD012	Frederick	Frederick (via US-15 and VA-267 (Dulles Greenway))
IAD013	Fredericksburg	Fredericksburg (via US-1 Business, US-1, US-17 Business, I-95 (conv), I-495 (conv), Dulles Airport Access Road)
IAD014	Friendship Heights	Friendship Heights (via Western Avenue, MD-190, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)
IAD015	Front Royal	Front Royal (via US-340/US-522, I-66, VA-28, Dulles Airport Access Road)
IAD016	Gaithersburg	Gaithersburg (via I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge) and Dulles Airport Access Road)
IAD017	George Mason University	George Mason University (Fairfax Campus) (via VA-620, VA-286 and Dulles Airport Access Road)
IAD018	Gettysburg, Pennsylvania	Gettysburg, Pennsylvania (via US-30, US-15, VA-267 (Dulles Greenway))
IAD019	Greenbelt	Greenbelt (via I-95/I-495 and I-495 (Capital Beltway via American Legion Bridge), and Dulles Airport Access Road)
IAD020	Hagerstown	Hagerstown (via US-40 (Dual Highway), I-70, US-15, VA-267 (Dulles Greenway))
IAD021	Largo	Largo (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (conventional) and Dulles Airport Access Road)
IAD022	Leesburg	Leesburg (via US-15/VA-7, VA-267 (Dulles Greenway))
IAD023	Lexington Park	Lexington Park (via MD-235, MD-5, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (conventional), Dulles Airport Access Road)
IAD024	Manassas	Manassas (via VA-28 and Dulles Airport Access Rd)
IAD025	Manassas Airport	Manassas Airport (via VA-28, VA-234 (Prince William Parkway), I-66, VA-28, Dulles Airport Access Road)
IAD026	Manassas Airport	Manassas Airport (via VA-28, Godwin Drive, VA-234 Business, I-66, VA-28, Dulles Airport Access Road)
IAD027	National Harbor	National Harbor (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (conventional) and Dulles Airport Access Road)

IAD028	National Harbor	National Harbor (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (express) and Dulles Airport Access Road)
IAD029	Rockville	Rockville (via I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge) and Dulles Airport Access Road)
IAD030	Springfield	Springfield (via VA-613, I-95/I-495 (Capital Beltway), I-495 (conventional), Dulles Airport Access Road)
IAD031	Springfield	Springfield (via VA-613, I-95/I-495 (Capital Beltway), I-495 (express), Dulles Airport Access Road)
IAD032	Suitland Federal Center	Suitland Federal Center (via Suitland Parkway, South Capitol Street, I-395 (Southwest Freeway), VA-110, I-66, Dulles Connector Road, Dulles Airport Access Road)
IAD033	Towson	Towson (via I-695 (Baltimore Beltway), I-95, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)
IAD034	Tysons Corner	Tysons Corner (via VA 123, VA 7, and Dulles Airport Access Road)
IAD035	Waldorf	Waldorf (via MD-228, MD-210, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (conventional), Dulles Airport Access Road)
IAD036	Waldorf	Waldorf (via US-301, MD-5, I-95/I-495 (Capital Beltway via Wilson Bridge), I-495 (conventional), Dulles Airport Access Road)
IAD037	Warrenton	Warrenton (via US-29, I-66, VA-28 and Dulles Airport Access Road)
IAD038	Winchester	Winchester (via VA-7, VA-267 (Dulles Greenway))
IAD039	Woodbridge	Woodbridge (via US-1, VA-123, I-95 (conventional), I-495 conventional) and Dulles Airport Access Road)
IAD040	Woodbridge	Woodbridge (via US-1, VA-123, I-95 (express), I-495 (express) and Dulles Airport Access Road)



# ORGANIZATION OF THE REPORT

## METHODOLOGY

### Highway Network

Essentially no field data collection work was done for this project. A total of 115 virtual travel time run routes were identified. Probe vehicle data<sup>2</sup> for all travel time runs were obtained from the Center for CATT Lab at the University of Maryland in College Park. Data for each 1-hour interval of each day in the spring of 2019, 2020, and 2023 analysis years were identified and downloaded from the CATT Lab's website. These years were selected to analyze and compare airport ground access travel time conditions to the region's three large commercial airports before the COVID-19 pandemic (spring 2019), during the peak of the pandemic shutdown (spring 2020), and after the pandemic (spring 2023).

Each calendar day was classified as a weekday (Tuesday, Wednesday, and Thursday), a weekend (Friday, Saturday, Sunday, and Monday) or a holiday (any day of the week that staff felt could be reasonably considered a holiday – days classified as holidays were not considered weekdays or weekends). See Table 10 for a list of dates and their classification (weekday, weekend or holiday) of all three analysis years. For each included day, speed and travel time data for all 24 hours were obtained. See Table 9 for details.

For each day, data were aggregated into one of six time periods:

- 1) 12 Midnight to 5 A.M. (AM before 5)
- 2) 5 A.M. to 6 A.M. (AM 5 to 6)
- 3) 6 A.M. to 9 A.M. (AM Peak)
- 4) 9 A.M. to 3 P.M. (Midday)
- 5) 3 P.M. to 7 P.M. (PM Peak)
- 6) 7 P.M. to 11:59 P.M. (PM after 7)

Most analysis, charts and maps in this report are for the periods from 6 A.M. to 7 P.M. (*periods 3, 4 and 5*) by class of day. The highway system is divided into Traffic Message Channel<sup>3</sup> (TMC) network links by direction. For each travel route to the airport, there can be dozens of TMC network links. TMC links are of arbitrary lengths, some are very short (less than 1/10 of a mile) while others are many miles in length.

The following computations were done for these intervals:

- Median of speeds for each route, calculated by dividing the length of routes by the total travel time spent on all road segments on the route.
- Median travel time for each TMC link.

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<sup>2</sup> Probe data is defined as data that is generated by monitoring the position of individual vehicles (i.e., probes) over space and time rather than measuring characteristics of vehicles or groups of vehicles at a specific place and time. Work Zone Performance Measurement Using Probe Data: Guidance for Using Probe Data for Work Zone Mobility Performance Measures - FHWA Work Zone. (n.d.). <https://ops.fhwa.dot.gov/wz/resources/publications/fhwahop13043/ch2.htm>

<sup>3</sup> See this article on Wikipedia for a through discussion of TMC networks: [https://en.wikipedia.org/wiki/Traffic\\_message\\_channel](https://en.wikipedia.org/wiki/Traffic_message_channel)

- Travel Time Index (TTI) values were computed for each TMC segment (TTI is defined as observed travel time divided by travel time of free-flow speed)<sup>4</sup>
- Planning Time Index (PTI) values were also computed (PTI is the 95<sup>th</sup> percentile travel time divided by travel time of free-flow speed and is always higher than TTI).<sup>5</sup>

## Transit

Staff examined the latest 2024 published timetables for transit service as well as Google Map estimations, which were used to estimate travel time to the airports. In some cases, the online trip planners provided by WMATA and MTA were used as a cross-check. Several of the possible trips by transit to the airports are only possible during the morning peak commute periods on weekdays. Since historical transit schedules were not available for the analysis years for regional transit bus services, it was not possible to generate historical travel time by transit. Therefore, no temporal comparisons of transit travel time are included in this study. In addition, transit services in the region were impacted by the pandemic as some commute buses were eliminated, and the Silver Line Express Bus to Dulles Airport service bus was replaced by the Metrorail Silver Line extension.

## Demographic Changes between 2019, 2020, and 2022

Current estimates of population and nonfarm employment for the years 2019, 2020 and 2022<sup>6</sup> were obtained and summarized at the regional level where possible, otherwise at the county level. According to the Census, the county-level population for 2023 was not released in time for this analysis. Therefore, the population for 2022, the latest year available was used for comparison analysis.

Figure 2 shows the map with the distribution of MPOs within the air system planning region. Resident population in the region represented by the National Capital Region TPB was estimated to have increased by about 64,000 (includes all of Fauquier County, Virginia) between 2019 and 2022. For the counties and cities that are represented on the Baltimore Regional Transportation Board (BRTB), population was estimated to have increased by about 36,000. For the balance of the area analyzed, there was an estimated population increase of about 167,000.

Nonfarm employment in the COG/TPB region decreased by about 73,000 in 2022 compared to 2019, which accounted for about two-thirds of the reduction in employment for the entire air system planning region. In 2022, the employment of the entire air system planning region increased from 2020 but still 112,000 less than that of 2019. None of the study regions have returned to pre-pandemic employment levels. Data are summarized at the regional level in Table 4.

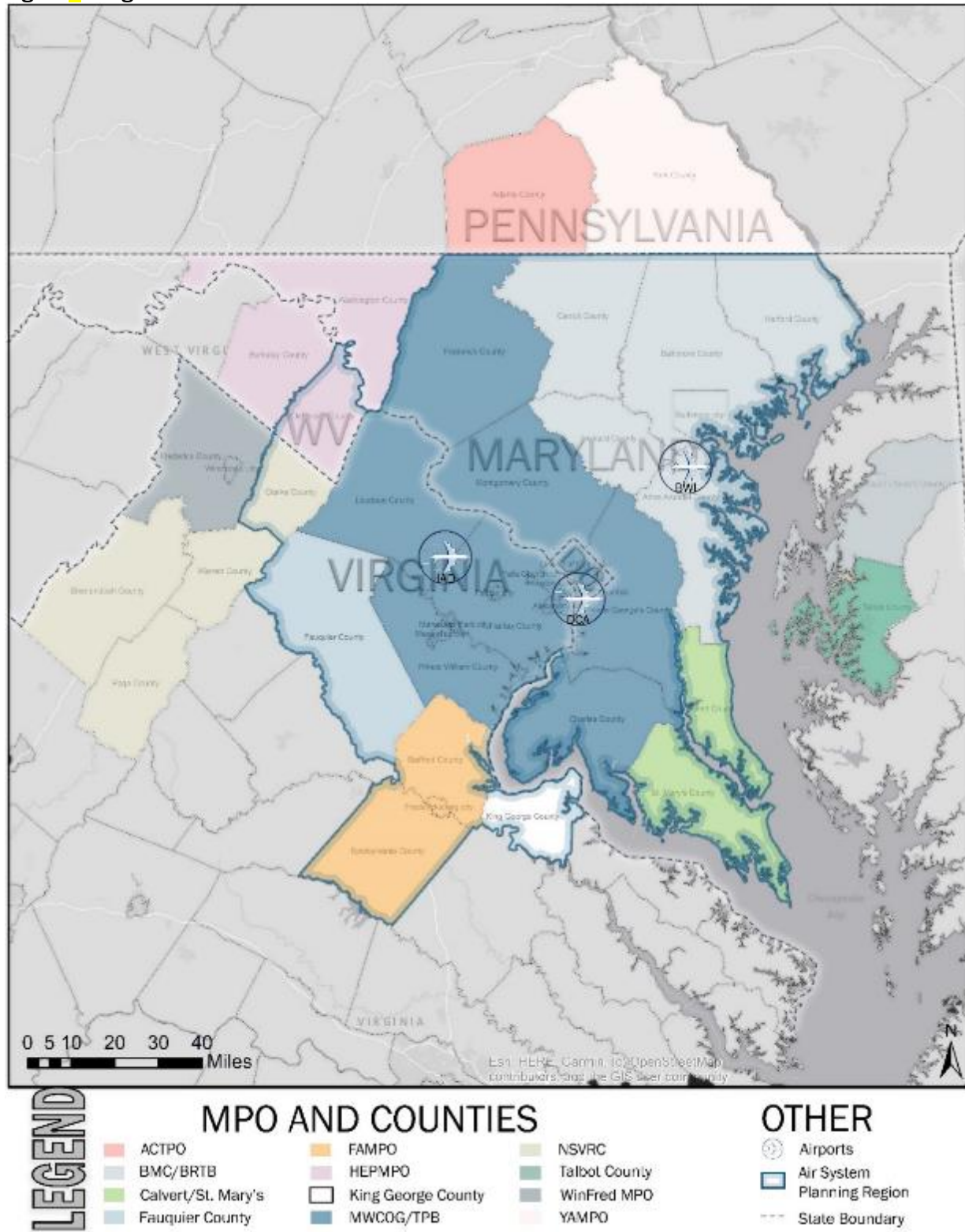
<sup>4</sup> A National Cooperative Highway Research Program report (Report 618, Cost-Effective Performance Measures for Travel Time Delay, Variation, and Reliability, Transportation Research Board, 2008) describes TTI in this manner:

"The Travel-Time Index (TTI) is a dimensionless quantity that compares travel conditions in the peak period to travel conditions during free-flow or posted speed limit conditions. For example, a TTI of 1.20 indicates that a trip that takes 20 minutes in the off-peak period will take 24 minutes in the peak period or 20 percent longer." [http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp\\_rpt\\_618.pdf](http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_618.pdf)

<sup>5</sup> NCHRP 618 describes PTI: "Planning Time Index represents the total travel time that should be planned when an adequate buffer time is included. Planning Time Index differs from the BI in that it includes typical delay as well as unexpected delay. Thus, the Planning Time Index compares near-worst case travel time to light or free-flow traffic travel time."

<sup>6</sup> Data source: Census County Level Population Data sets, <https://www2.census.gov/programs-surveys/popest/datasets/>

**Figure 2. Regional Overview of MPO Counties and Cities**



**Table 4: Changes in Population and Employment**

MPO Name	2019 Population	2020 Population	2022 Population	2019 Employment	2020 Employment	2022 Employment	Population Change 2022-2019	Employment Change 2022-2019
ACTPO County (PA)	103,000	104,000	106,000	35,000	32,000	33,000	3,000	-1,000
BMC/BRTB Cities and Counties (MD)	2,800,000	2,842,000	2,836,000	1,346,000	1,232,000	1,311,000	36,000	-36,000
MWCOG/NC RTPB cities and counties (DC, MD and VA, includes all of Fauquier County, VA)	5,685,000	5,760,000	5,749,000	3,777,000	3,445,000	3,704,000	64,000	-73,000
Calvert-St. Mary's Metropolitan Planning Organization (includes areas outside urbanized area) (MD)	206,000	207,000	209,000	69,000	66,000	68,000	3,000	-1,000
FAMPO Cities and Counties (VA)	318,000	326,000	339,000	107,000	100,000	108,000	21,000	1,000
HEPMPO Counties (MD, WV)	482,000	491,000	501,000	172,000	159,000	170,000	19,000	-2,000
Northern Shenandoah Valley Regional Commission (except WinFred MPO) (VA)	122,000	124,000	125,000	37,000	35,000	36,000	3,000	-1,000
Talbot County (not part of an MPO) (MD)	37,000	37,000	38,000	19,000	16,000	17,000	1,000	-2,000
WinFred MPO Cities and Counties (VA)	117,000	120,000	123,000	59,000	58,000	62,000	6,000	3,000
YAMPO County (PA)	449,000	457,000	461,000	179,000	165,000	179,000	12,000	-1,000
<b>Total</b>	<b>10,320,000</b>	<b>10,468,000</b>	<b>10,487,000</b>	<b>5,800,000</b>	<b>5,308,000</b>	<b>5,688,000</b>	<b>167,000</b>	<b>-112,000</b>

**Sources:** Population Estimates: Annual Estimates of the Resident Population – 2010-2019, 2020-2022 (U.S. Census Bureau, Population Division)

Employment Data: Local Area Unemployment Statistics (Bureau of Labor Statistics)

**Note:** Data are rounded to the nearest 1,000. The MPO numbers might not add up to the total due to rounding.

# FINDINGS

## Travel Time Index and Planning Time Index

In aggregate, TTI and PTI values for travel to the three regional airports sharply dropped from 2019 to 2020, and rebounded in 2023, especially for midweek days. TTI values during the AM peak period in 2023 increased from 2020 but still lower than 2019. However, for TTI values during the PM peak period in 2023, TTI values increased, indicating worsening traffic conditions compared to the pre-pandemic period.

There are numerous factors explaining these trends in travel time to the regional airports. When the pandemic began in March 2020, stay-at-home orders were issued by the region's governors which resulted in the closure of offices and businesses. Consequently, many workers transitioned rapidly to teleworking full-time which resulted in dramatic declines in both commute and non-work trips except for essential workers. With decreased traffic volumes on the regional road network, travel times sharply decreased in 2020. Although travel time to the region's airports greatly improved during the pandemic, the demand for passenger airline travel remained far below pre-pandemic levels due to public health concerns. After vaccines became widely available, personal travel and commerce gradually resumed, causing a resurgence of traffic volumes, and subsequent increase in travel times on the region's roadways.

By route level, the highest TTI values for travel to BWI were observed during the midweek afternoon peak commute periods (4 P.M. to 7 P.M.) at 2.4 in 2023. The PTI for this period was nearly 3.0. For weekends, the highest TTI and PTI values were also observed during the afternoon peak commute periods, with a TTI value of 1.8 and a PTI value of 2.7.

Several trip routes originating from DCA and the District of Columbia to BWI had observed PTI values of nearly 3.0 on weekday afternoons, while the corresponding PTI values in 2020 were only about half of 2023 levels. Even on weekends, there were several origins with observed PTI values greater than 2.5. The highest TTI increase was 17% during midday of midweek days originating from Tysons Corner.

The TTI value for routes to DCA during the morning peak period (6 A.M. to 9 A.M.) on midweek days was 2.1 in 2023, increased from 1.9 in 2019. Additionally, routes traveling to DCA had the highest PTI value of 3.2 in 2019 during the PM peak. This is the highest PTI value observed in this study. The highest TTI increase was 27% during the midday period of midweek days originating from Tysons Corner.

The highest TTI value for routes to IAD were also midweek days during the 6 A.M. to 9 A.M. period at 1.6, with a PTI value of 2.0. There were no trips to IAD with TTI values over 2. The highest TTI increase was 24% during the AM peak of midday weekdays from DCA.

## Observations from Spring 2020 (Peak Pandemic)

Among all the routes of the six time periods (holidays excluded), 99.1% of routes observed decreases in TTI from 2019 during the spring of 2020. The maximum decrease of TTI for routes traveling to BWI was 54.7% during the weekday PM peak for trips from Tysons Corner. The maximum decrease of TTI for DCA was 55.3% observed for trips originating from Tysons Corner during weekday PM peaks. As for trips to IAD, the top TTI decrease was 47.7% for trips originating from Manassas

during the weekday AM peaks. There were a few routes observing a slight increase (0.1% to 2%) in TTI. However, the traffic conditions were still very good with TTI values less than 1.1.

## Observations from Spring 2023 (Post Pandemic)

Compared with the spring of 2019, weekday travel to the airports from AM peak to PM peak hours were analyzed. Overall, 52.5% of routes to all three airports observed increases in TTI values. Specifically, 40% of AM peak trips, 56.5% of midday trips, and 59.1% of PM peak trips showed increases. The shift in percentage increase from AM peak to Midday suggests a change in travel patterns post-pandemic, likely due to increased work flexibility offered by employers since the pandemic.

By airport, BWI saw TTI increases for 30% of AM peak routes, 63% during Midday routes, and 65% during PM peak routes. DCA experienced TTI increases for 43% of AM peak routes, 49% during Midday routes, and 60% during PM peak routes. IAD observed TTI increases for 48% of AM peak routes, 58% during Midday routes, and 53% during PM peak routes.

## Changes in Median Travel Time

As almost all routes in 2020 showed decreases in travel time, this study focuses on comparing the travel time of midweek days between 2023 and the pre-pandemic baseline year of 2019. For the AM peak (6 AM to 9 AM), 98% of routes to BWI showed decreases in travel time. During the PM peak (3 PM to 7 PM), 80% of routes to IAD observed decreases in travel time, and 66% of the routes to DCA during Midday (9 AM to 3 PM) showed decreases in travel time.

From the route level, the largest increases of 8.1 minutes were observed for trips from Gaithersburg to DCA during the PM peak (9 AM to 3 PM). DCA to BWI during the PM peak (3 PM to 7 PM) showed increases of about 7 minutes. Travels from Gaithersburg to IAD observed the highest increase of 7.9 minutes during Midday (9 AM to 3 PM).

## Congestion

Numerous sections of the regional highway network suffer from congestion. TMC network links with the most severe congestion were identified by TTI values for each airport. A TTI value of 2 or higher (severe congestion, shown as red or crimson on the maps of congestion in Figure 28 through Figure 63) was used to identify these sections of highway.

### TO BWI ON WEEKDAYS

#### Morning Peak

- Ramp from eastbound VA-267 to Inner Loop I-495 in Fairfax County
- Inner Loop I-495 from Tysons to VA-267 in Fairfax County
- Northbound I-395 (Southwest Freeway) in the District of Columbia from 14th Street Bridge to I-695 Eastbound I-695 (Southeast Freeway) in D.C.
- Southbound I-270 in Montgomery County from Walkins Mill Rd to Quince Orchard Rd.
- Outer Loop I-495 in Maryland near H P Johnson Park
- Outer Loop I-695 in Baltimore County from MD-122 to Old Court Road

#### Afternoon Peak

- Westbound I-695 from MD-146 (Dulaney Valley Rd) to I-83



- Southbound I-695 from I-795 to MD-122 (Security Blvd)
- Northbound I-95 from exit ramp MD-198 (Sandy Spring Rd) to exit ramp MD-100
- Northbound MD-295 (Baltimore-Washington Parkway) from MD-202 (Landover Rd) to the I-495 access ramp
- Northbound MD-295 (Baltimore-Washington Parkway) from MD-198 to I-195
- Northbound MD-3 (Robert Crain Highway) between MD-450 (Annapolis Rd) and MD-175 (Millersville Rd)
- Ramp at I-97 & US 301
- Ramp from eastbound VA-267 to Inner Loop I-495 in Fairfax County
- Inner loop I-495 from Leesburg Pike in Fairfax County to I-270 Spur in Montgomery County
- Northbound I-395 (Southwest Freeway) in the District of Columbia from 14th Street Bridge to I-695
- Eastbound I-695 (Southeast Freeway) in D.C.
- Northbound DC-295 (Anacostia Freeway and Kenilworth Avenue, N.E.) in D.C.
- Northbound MD-185 from Western Avenue to I-495
- Inner Loop I-495 from MD-187 to MD-650
- Outer Loop I-495 from I-395 to VA-400, Branch Avenue to MD-201

## TO DCA ON WEEKDAYS

### Morning Peak

- Southbound I-270 from exit ramp MD-85 (Buckeystown Pike) to junction MD-117 (West Diamond Ave)
- Southbound MD-295 (Baltimore-Washington Parkway) from MD-100 to exit in Powder Mill Rd.
- Southbound DC-201 (Kenilworth Ave) from I-295 spur in Maryland to Pennsylvania Ave. SE in DC
- Westbound US-50 from MD-410 to DC 4<sup>th</sup> St NW
- Westbound I-695 from MD-295 to Ohio Dr SW
- Westbound Suitland Parkway from MD-5 to I-295
- Inner Loop I-495 from MD-414 to Woodrow Wilson Memorial Bridge
- Northbound MD-210 from Swan Creek Road to Palmer Road in Prince George's County
- Northbound MD-5 (Branch Ave) from US-301 spur in Prince George's County to Surratts Road
- Northbound I-395 from I-95 and I-395 spur to VA-7 (King Street)
- Northeast bound VA-28 (Centerville Road) from Sudley Road in Manassas, VA to New Braddock Road in Centerville, VA
- Eastbound I-66 from VA-234 and I-66 junction to I-66 and US-29 spur

### Afternoon Peak

- Southbound MD-295 from MD-175 to Powder Mill Road
- Westbound I-695 from 6<sup>th</sup> St SE to George Mason Memorial Bridge
- Southbound First Street
- Southbound 14th Street NW
- Southbound George Washington Memorial Pkwy from I-495 to Dolley Madison Blvd
- Northbound I-495 from Leesburg Pike in Tysons to Georgetown Pike in McLean
- Eastbound I-66 from US-29 (Langston Blvd) to spur in I-66 and US-29 (Langston Blvd)



## TO IAD ON WEEKDAYS

### Morning Peak

- Southbound I-695 from spur in I-695 and I-795 to US-40
- Southbound I-270 from MD-85 (Buckeystown Pike) in Frederick County to MD-117 (W Diamond Ave)
- Outer Loop I-495 from I-95 to spur in I-495 and MD-97
- Northbound George Washington Memorial Pkwy from Spout Run Pkwy spur to Dolley Madison Blvd
- Westbound Suitland Pkwy from MD-5 (Branch Ave) in Maryland to I-295 in Washington D.C.
- Northbound VA-28 (Centerville Road) from Sudley Road in Manassas, VA to New Braddock Road in Centerville, VA
- Eastbound I-66 from VA-234 and I-66 junction to I-66 and US-29 spur
- Inner Loop I-495 from Alice Ave in Prince George County Maryland to Woodrow Wilson Memorial Bridge
- Northbound MD-210 from Swan Creek Road to Palmer Road in Prince George County
- Northbound MD-5 (Branch Ave) from MD-5 and US-301 spur in Prince George County to Surratts Road

### Afternoon Peak

- Westbound I-695 from MD-146 to I-83
- Southbound I-695 from I-795 to MD-122 (Security Blvd)
- Westbound MD-32 (Patuxent Fwy) from MD-295 to I-95
- Outer Loop I-495 from MD-187 (Old Georgetown Road) in Maryland to VA-193 (Georgetown Pike) in Virginia
- Northbound George Washington Memorial Pkwy from Dolley Madison Blvd to spur in I-495
- Westbound I-395 from South Capitol Street in Washington D.C. to George Washington Memorial Pkwy in Virginia

## TO BWI ON WEEKENDS (AFTERNOONS)

- Northbound MD-295 from MD-202 (Landover Road) to Powder Mill Road
- Outer Loop I-495 from spur in I-495 and Medical Center Dr to MD-704
- Eastbound I-495 from MD-187 (Old Georgetown Road) to MD-97 (Georgia Ave)
- Northbound I-295 from I-695 in Washington D.C. to E Capitol St. Northeast
- Northbound I-395 from George Washington Memorial Pkwy in Virginia to 7<sup>th</sup> St. SW in Washington D.C.
- Inner Loop I-495 from spur in I-495 and Dolley Madison Blvd in Virginia to I-495 and Clara Barton Pkwy intersection
- Eastbound I-495 from Exit 176A (N Kings Hwy and Telegraph Rd) in Virginia to Woodrow Wilson Memorial Bridge in Maryland

## TO DCA ON WEEKENDS (AFTERNOONS)

- Southbound MD-295 from Jessup Road and MD-295 spur in MD-212A (Powder Mill Road) and MD-295

- Outer Loop I-495 from Democracy Blvd in Bethesda Maryland to American Legion Memorial Bridge in Virginia
- Inner Loop I-495 from exit 46B (North 123) to spur in I-495 and George Washington Memorial Pkwy
- Westbound I-695 from New Jersey Ave SE to junction between I-395 and 14<sup>th</sup> St SW
- Southbound I-295 from spur in I-295 and Deane Ave NE to Pennsylvania Avenue SE
- Southbound I-495 from junction between I-495 and US-50 to Medical Center Drive

## **TO IAD ON WEEKENDS (AFTERNOONS)**

- Outer Loop I-495 Outer Loop from MD-187 (Old Georgetown Road) in Maryland to spur in I-495 and VA-193
- Inner Loop I-495 from MD-202 to MD-221
- Outer Loop I-495 from MD-193 to Cherrywood Lane
- Westbound I-695 from New Jersey Ave SE to junction between I-395 and 14<sup>th</sup> St SW
- Northbound I-95 from SR-642 (Opitz Blvd) to Spur in I-95 and VA-123 (Gordon Blvd) in Woodbridge, Virginia

## **Savings in Travel Time by Using Managed Lanes**

Several managed lanes, including express toll lanes, were in operation in 2023. However, data were not available for some road segments including the I-66 Express Lanes outside the beltway. Using managed lanes can significantly reduce travel time between origin points and the airports, especially in the morning peak period and usually provide better travel time reliability. Table 5 listed all available travel time comparisons between using conventional lanes and managed lanes.

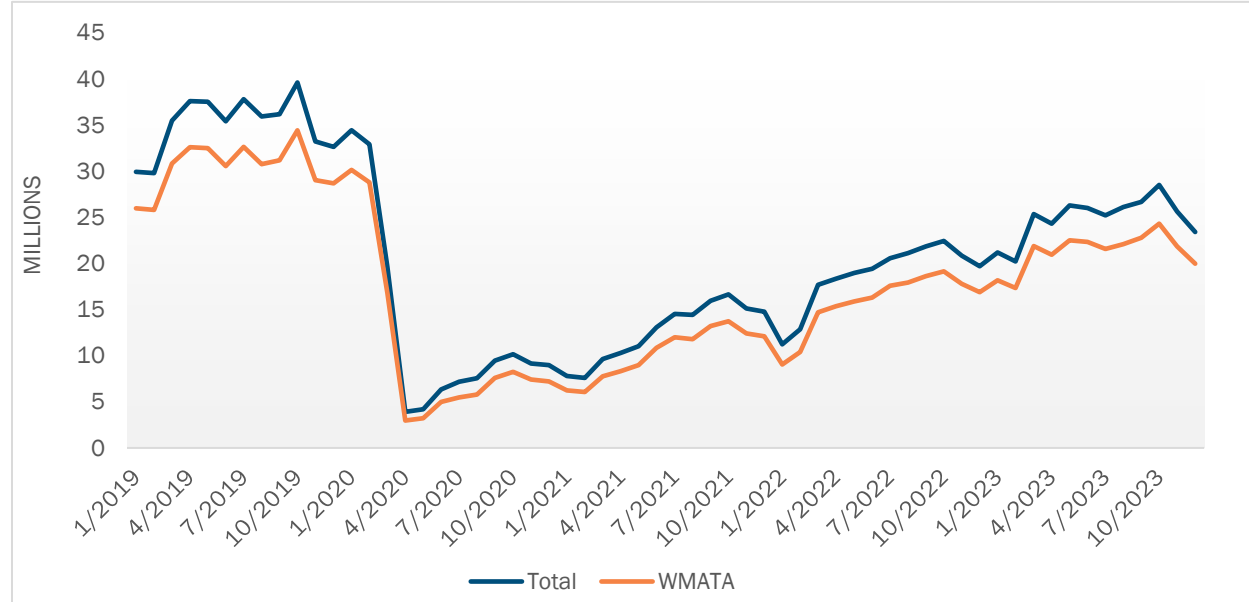
**Table 5: Time Comparison between Managed and Conventional Lanes (as reported in 2023)**

Origin to Destination Airport	Travel Time – Using Managed Lanes	Travel Time – Using Conventional Lanes	Travel Time Savings (Minutes)
<b>Gaithersburg to BWI</b>	<b>I-370 to MD-200</b>	<b>I-270 to I-495</b>	
AM Peak	48	57	9
Midday	47	54	7
PM Peak	53	73	20
<b>Rockville to BWI</b>	<b>I-270, I-370, MD-200</b>	<b>I-270 to I-495</b>	
AM Peak	42	54	12
Midday	45	54	9
PM Peak	53	81	28
<b>Fredericksburg to DCA (assumes HOV-3 in A.M. on managed lane route)</b>	<b>95 Express (HOV/Toll lanes) and I-395 HOV lanes</b>	<b>I-95 and I-395 conventional lanes</b>	
AM Peak	67	90	23
Midday	66	73	7
<b>Woodbridge to DCA (assumes HOV-3 in A.M. on managed lane route)</b>	<b>95 Express (HOV/Toll lanes) and I-395 HOV lanes</b>	<b>I-95 and I-395 conventional lanes</b>	
AM Peak	34	51	17
Midday	35	40	5
<b>Springfield to IAD</b>	<b>495 Express (HOV/Toll lanes)</b>	<b>I-495 conventional lanes</b>	
AM Peak	21	33	12
Midday	21	24	3
PM Peak	25	26	1
<b>Manassas to DCA (assumes HOV-2 on managed lane route for use of I-66 from I-495 to VA-110)</b>	<b>I-66 Inside Beltway</b>	<b>I-495 conventional lanes and U.S. 50</b>	
AM Peak	58	69	11
Midday	49	56	7
PM Peak	55	60	5
<b>DCA to IAD (Using I-66 toll way inside beltway and NOT using the I-66 Toll way outside the beltway)</b>	<b>I-66 Inside Beltway and Dulles Connector</b>	<b>George Washington Memorial Parkway to I-495</b>	
PM Peak	29	40	11

## Airport Access via Transit

In general, for the Washington metropolitan region, transit trips were greatly impacted during the height of the pandemic in 2020. As shown in Figure 3, transit ridership for transit operators in the greater Washington region sharply decreased when stay-at-home orders were implemented in March 2020. Transit ridership gradually recovered with seasonal fluctuations, although it has not rebounded to pre-pandemic levels. WMATA's ridership comprises the largest share of transit ridership in the region, and WMATA's ridership trends mirrors the regional transit ridership trend.

**Figure 3: Monthly Unlinked Passenger Transit Trips from 2019 to 2023**



Source: National Transit Database

Notes: Ridership data includes agencies that regularly report to the National Transit Database. Smaller transit agencies may not be included.

All three regional airports (BWI, DCA, IAD) are served by public transit. Rail lines serve DCA (Metrorail Blue and Yellow Lines, and the Crystal City station on the Virginia Railway Express (VRE) is nearby). BWI is served by the MARC Penn Line, some Amtrak services, and the MTA-Maryland Central Light Rail Line. IAD started to be served by the Metrorail Silver Line when Phase 2 of the project was completed in November 2022, and the line was extended to VA-772 in Loudoun County.

Transit buses also serve IAD and BWI. In some cases, travel by transit is only possible on working days with an early morning departure. This is the case for exurban originations such as Fredericksburg; California (St. Mary's County, Maryland) and Hagerstown.

However, many transit services and lines were either rerouted or canceled since the pandemic. This makes transit time comparisons to the airport across the study years difficult to conduct. In addition, the Metrorail Silver Line entered service in November 2022, which means that alternative routes destined for Dulles Airport have experienced a reduction in transit services. Therefore, transit time to the airports was only conducted based on the latest available (February 2024) transit schedules. Table 6 through Table 8 summarize transit service to the airports and corresponding travel time.

**Table 6: Transit Travel Times to BWI Airport in 2024.**

From	Originating Jurisdiction	Via	Total Time (h: m)
<b>16th and K Streets, N.W.</b>	District of Columbia	From Farragut North (Red Line), Union Station, Maryland Transit Administration (MTA) MARC Penn Line (or Amtrak Northeast Direct), Maryland Aviation Administration (MAA) bus to terminal	1:48
<b>16th and K Streets, N.W.</b>	District of Columbia	From Farragut North (Red Line), Galley Place (Green Line), Greenbelt (Washington Metropolitan Area Transit Authority (WMATA) B30 bus)	1:42
<b>National Harbor</b>	Prince George's County, Maryland	From 'St. George Boulevard & Waterfront Boulevard (NH2 bus), King St-Old Town Station (Yellow Line), L'Enfant Plaza (Metrorail Orange),	2:04
<b>Gaithersburg</b>	Montgomery County, Maryland	From Quince Orchard Commuter Lot - Quince Orchard Road at I-270 (MTA Bus 201)	1:08
<b>Hagerstown</b>	Washington County, Maryland	From Hagerstown Commuter Lot at I-70 and Md. 65 (MTA 991 bus), Shady Grove (MTA 201 Bus)	2:23
<b>Annapolis</b>	Anne Arundel County, Maryland	From downtown Annapolis, Calvert & Bladen (MTA 14 Bus), Patapsco Light Rail Station (MTA Light Rail southbound)	2:03
<b>Friendship Heights</b>	Montgomery County, Maryland	From Friendship Heights (Red Line), Shady Grove (MTA 201 bus)	1:39
<b>College Park</b>	Prince George's County, Maryland	From College Park, Campus Drive & Regents Drive (WMATA C2 Bus), Greenbelt (WMATA B30 bus)	1:04
<b>Manassas</b>	City of Manassas, Virginia	From Amtrak Manassas Station (VRE Manassas Line), MARC Penn Line (or Amtrak Northeast Direct), Maryland Aviation Administration (MAA) bus to terminal	2:35
<b>Baltimore Penn Station</b>	Baltimore City, Maryland	Baltimore Penn Station (MARC Penn Line or Amtrak Northeast Direct to BWI station, shuttle bus to airport)	0:30
<b>California</b>	St. Mary's County, Maryland	From California Commuter Lot (MTA 725), Independence Avenue near L'Enfant Plaza (Metrorail Green Line), Greenbelt (WMATA B30 bus)	3:24
<b>Waldorf</b>	Charles County, Maryland	From Southern Maryland Blue Crabs Stadium (MTA 735), Federal Center Southwest (Metrorail Silver Line), Maryland Transit Administration (MTA) MARC Penn Line (or Amtrak Northeast Direct), Maryland Aviation Administration (MAA) bus to terminal	2:49

**Table 7: Transit Travel Times to DCA Airport in 2024.**

From	Originating Jurisdiction	Via	Total Time (h: m)
<b>16th and K Streets, N.W.</b>	District of Columbia	From Farragut West (WMATA Blue Line)	0:16
<b>National Harbor</b>	Prince George's County, Maryland	From St. George Boulevard & Waterfront Boulevard (WMATA NH2 bus), King St-Old Town Station (Metrorail Green/Yellow Line)	1:06
<b>Gaithersburg</b>	Montgomery County, Maryland	From North Frederick Ave and Whetstone (Ride-On bus 55), Shady Grove Station (Metrorail Red Line), Gallery Place (Metrorail Yellow Line)	1:08
<b>Hagerstown</b>	Washington County, Maryland	From Hagerstown Commuter Lot at I-70 and Md. 65 (MTA 991 bus), Shady Grove (Metrorail Red Line), Gallery Place (Metrorail Yellow Line)	2:31
<b>Fredericksburg</b>	Spotsylvania County, Virginia	From VA-3 (Plank Road) and Salem Church Road (Martz [National Coach Works]), Pentagon (Metrorail Yellow or Blue Line)	1:41
<b>Fredericksburg</b>	City of Fredericksburg, Virginia	From Fredericksburg Station (VRE), Crystal City (Metrorail Yellow or Blue Line)	1:34
<b>Annapolis</b>	Anne Arundel County, Maryland	From downtown Annapolis, Rowe Boulevard & Taylor Avenue (MTA 230 Bus), L'Enfant Plaza (Metrorail Yellow Line)	1:42
<b>Friendship Heights</b>	Montgomery County, Maryland	From Friendship Heights (Metrorail Red Line), Gallery Place (Metrorail Yellow Line)	0:40
<b>College Park</b>	Prince George's County, Maryland	From College Park, Campus Drive & Regents Drive (WMATA F6 Bus), Prince George's Plaza (Metrorail Yellow Line)	1:05
<b>Manassas</b>	City of Manassas, Virginia	From Amtrak Manassas Station (VRE Manassas Line), Crystal City (Metrorail Blue or Yellow Lines)	1:18
<b>Tysons</b>	Fairfax County, Virginia	From Tysons Corner Station (Metrorail Silver Line), Rosslyn Station (Metrorail Blue Line)	0:52
<b>Baltimore Penn Station</b>	Baltimore City, Maryland	From Baltimore Penn Station via MARC Penn Line (or Amtrak Northeast Direct), Union Station (Metrorail Red Line), Gallery Place (Metrorail Yellow Line)	1:17
<b>Woodbridge</b>	Prince William County, Virginia	From Horner Road Commuter Lot (PRTC Prince William-Metro Direct), Franconia-Springfield (Blue Line)	0:41
<b>Woodbridge</b>	Prince William County, Virginia	From Woodbridge VRE Station (VRE Fredericksburg Line), Crystal City (Metrorail Blue or Yellow Lines)	1:16
<b>California</b>	St. Mary's County, Maryland	From California Commuter Lot (MTA 725), Foggy Bottom (Metrorail Blue Line)	2:36
<b>Waldorf</b>	Charles County, Maryland	From Southern Maryland Blue Crabs Stadium (MTA 735), Federal Center Southwest (Metrorail Blue Line)	2:01

**Table 8: Transit Travel Times to IAD Airport in 2024.**

From	Originating Jurisdiction	Via	Total Time (h: m)
<b>16th and K Streets, N.W.</b>	District of Columbia	From Farragut West (Metrorail Silver Line) to Dulles International Airport terminal	1:16
<b>National Harbor</b>	Prince George's County, Maryland	From St. George Boulevard & Waterfront Boulevard (NH2 bus), King St-Old Town Station (Metrorail Green) Foggy Bottom (Metrorail Silver)	1:58
<b>National Harbor</b>	Prince George's County, Maryland	From St. George Boulevard & Waterfront Boulevard (NH1 bus), Southern Avenue (Green Line), L'Enfant Plaza (WMATA 5A bus)	2:03
<b>Annapolis</b>	Anne Arundel County, Maryland	From downtown Annapolis, Rowe Boulevard & Taylor Avenue (MTA 230 Bus), L'Enfant Plaza (WMATA 5A bus)	2:48
<b>Friendship Heights</b>	Montgomery County, Maryland	From Friendship Heights (Metrorail Red Line), Metro Center (Metrorail Silver Line), Reston East Wiehle Avenue (MWAA Silver Line Express Bus)	2:01
<b>College Park</b>	Prince George's County, Maryland	From College Park, Campus Drive & Regents Drive (WMATA F6 Bus), Prince George's Plaza (Metrorail Yellow Line), L'Enfant Plaza (Metrorail Silver Line), Reston East Wiehle Avenue (MWAA Silver Line Express Bus)	2:13
<b>Manassas</b>	City of Manassas, Virginia	From Manassas Mall (Potomac and Rappahannock Transportation Commission OmniRide bus), Tysons Corner Station (Metrorail Silver Line), Reston East Wiehle Avenue (MWAA Silver Line Express Bus)	2:15
<b>Tysons</b>	Fairfax County, Virginia	From Tysons Corner Station (Metrorail Silver Line), Reston East Wiehle Avenue (MWAA Silver Line Express)	0:32
<b>Baltimore Penn Station</b>	Baltimore City, Maryland	From Baltimore Penn Station via MARC Penn Line (or Amtrak Northeast Direct), Union Station (Metrorail Red Line), Metro Center (Silver Line), Reston East Wiehle Avenue (MWAA Silver Line Express Bus)	2:07
<b>Woodbridge</b>	Prince William County, Virginia	From Woodbridge VRE Station (PRTC Tysons Corner service), Tysons Corner (Metrorail Silver Line), Reston East Wiehle Avenue (MWAA Silver Line Express)	1:20
<b>California</b>	St. Mary's County, Maryland	From California Commuter Lot (MTA 725), Foggy Bottom (Metrorail Silver Line), Reston East Wiehle Avenue (MWAA Silver Line Express)	3:20
<b>Waldorf</b>	Charles County, Maryland	From Southern Maryland Blue Crabs Stadium (MTA 735), Federal Center Southwest (Metrorail Silver Line), Reston East Wiehle Avenue (MWAA Silver Line Express)	2:47



## CONCLUSION

The Ground Access Travel Time Study conducted a comprehensive analysis of travel times to the three regional airports in the Washington-Baltimore air system planning region (BWI, DCA, and IAD) based on vehicle probe data collected for three spring periods. The study years covered pre-pandemic, peak and post-pandemic years. The travel time, TTI, and PTI analysis for routes originating from selected recreational activity centers to the three regional airports has captured trends and changes in travel behavior in response to different circumstances. Corresponding to major findings from the study, the following conclusions and insights can be drawn.

In the spring of 2020, stay-at-home orders were issued across the region, which directly reduced travel time and relieved congestion. While the pandemic was unprecedented, it clearly demonstrates how regional policies to reduce travel demand can have a major impact on travel behavior and congestion levels. When these orders were gradually lifted, congestion returned to pre-pandemic levels.

The AM TTI values post-pandemic were generally lower than that of pre-pandemic, while the PM TTI values were higher than that of pre-pandemic. One notable trend is the shift in travel from the PM peak to earlier in the workday, suggesting greater flexibility offered by employers in terms of work start and end times. It can be concluded that post-pandemic work schedules have been impacting travel and commute patterns, and workers are still adapting to these changes.

Managed lanes have saved travel time ranging from 5 to 28 minutes for trips to the airports, which has been effective in improving traffic conditions. Therefore, implementing more managed lanes or contraflow lanes instead of adding lane capacity to routes with similar conditions could improve congestion. However, for those routes with modest savings in travel time, improving public transit and non-auto options may offer a longer-term solution. One long term impact of the pandemic has been the reduction in public transit routes and frequency, which make transit a less competitive option compared with driving a private vehicle. Therefore, while adding managed lanes may help improve congestion, it may inadvertently dampen public transit usage so the need to address congestion vis-à-vis providing greater options to the airports should be carefully considered.

This study also revealed different airports experienced the highest travel times at different periods. This could reflect prevailing travel and commute patterns in the vicinity of the airports, but it could also be due to roadway incidents and construction. Therefore, it may be worthwhile for airport operations to inform air passengers with dynamic travel times to their airports from representative locations by different travel modes. Not only would it be beneficial to air travelers, it could also encourage some travelers to switch to public transit which may alleviate traffic congestion and improve travel times to the three regional airports.

## Travel Time Index and Planning Time Index Values –By Time of Day

Figure 4. BWI Weekday Travel Time Index and Planning Time Index Aggregate Values

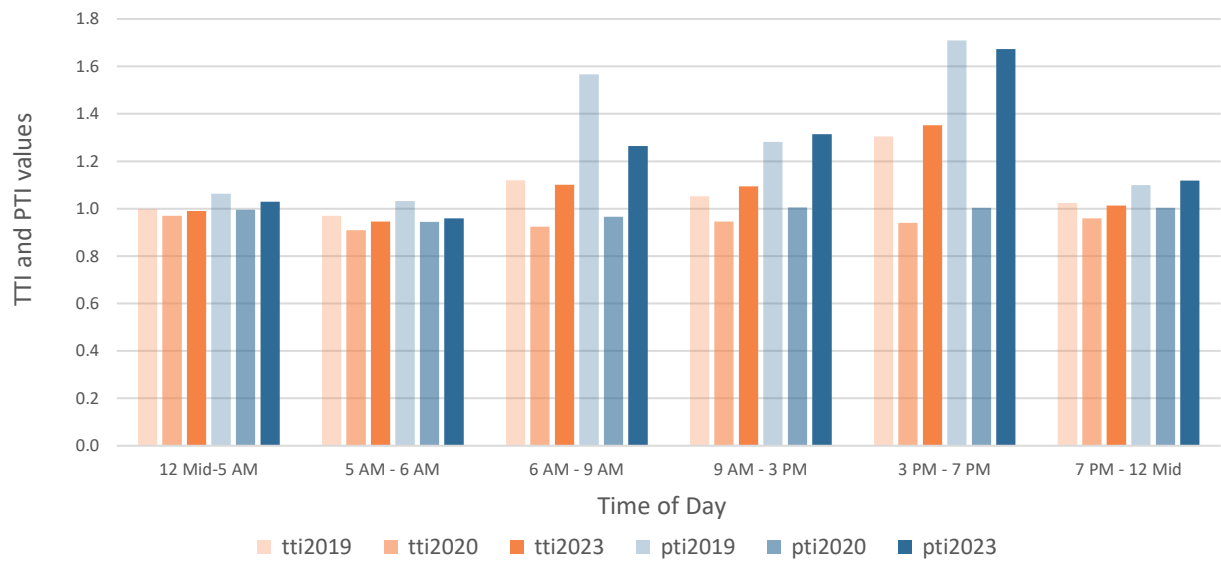


Figure 5. BWI Weekend Travel Time Index and Planning Time Index Aggregate Values

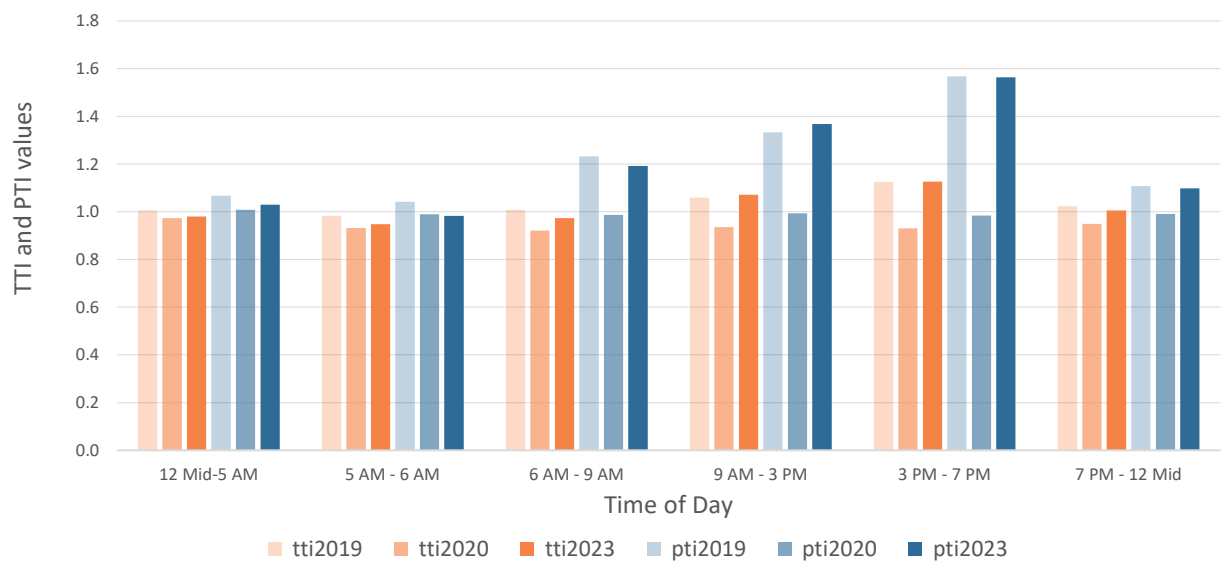


Figure 6. DCA Weekday Travel Time Index and Planning Time Index Aggregate Values

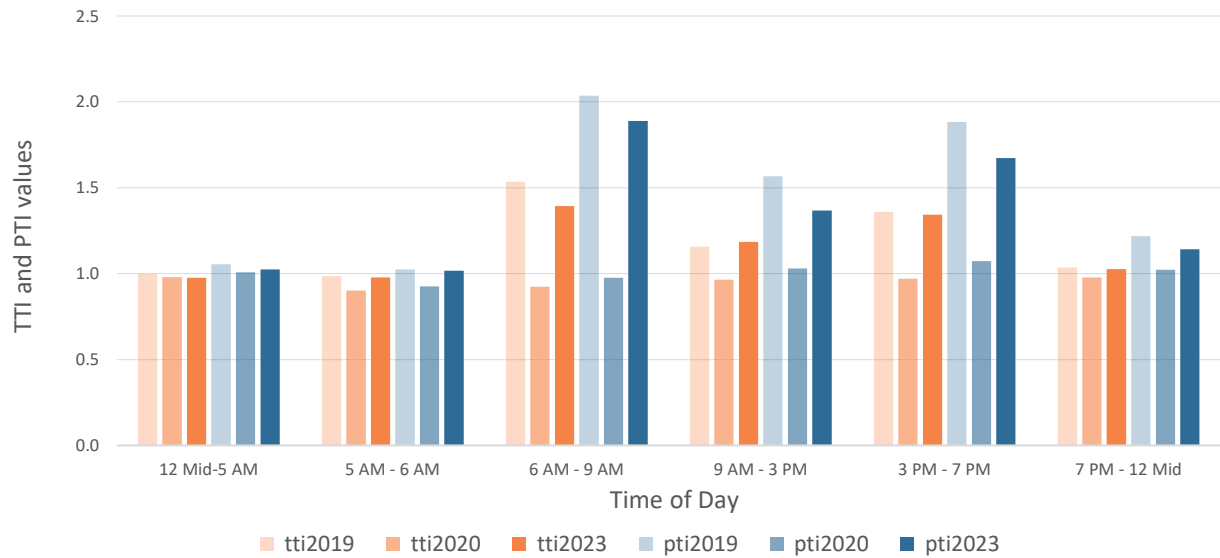


Figure 7. DCA Weekend Travel Time Index and Planning Time Index Aggregate Values

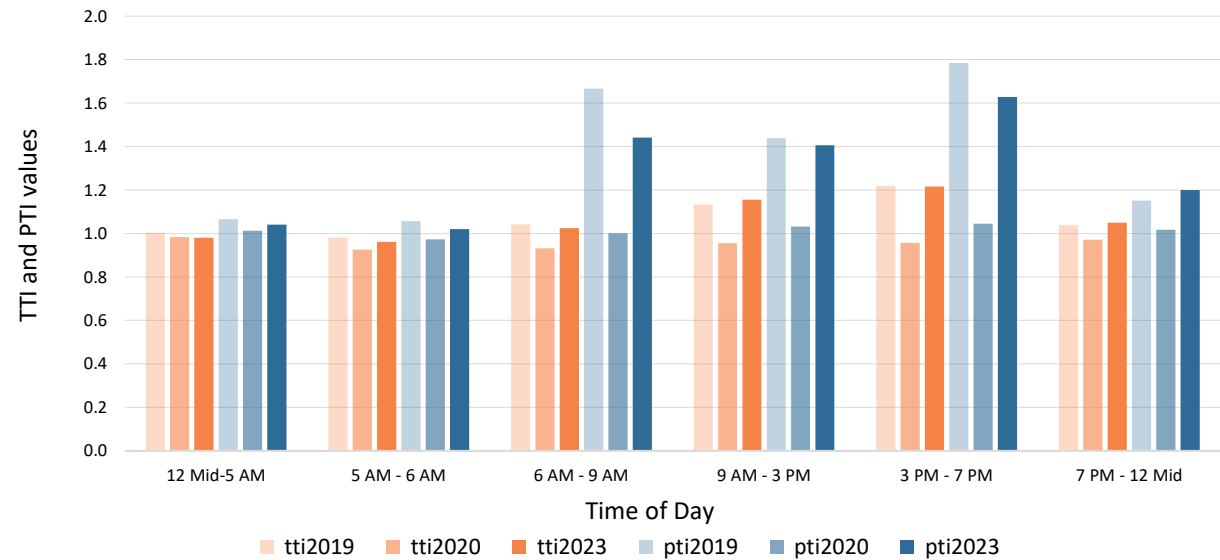


Figure 8. IAD Weekday Travel Time Index and Planning Time Index Aggregate Values

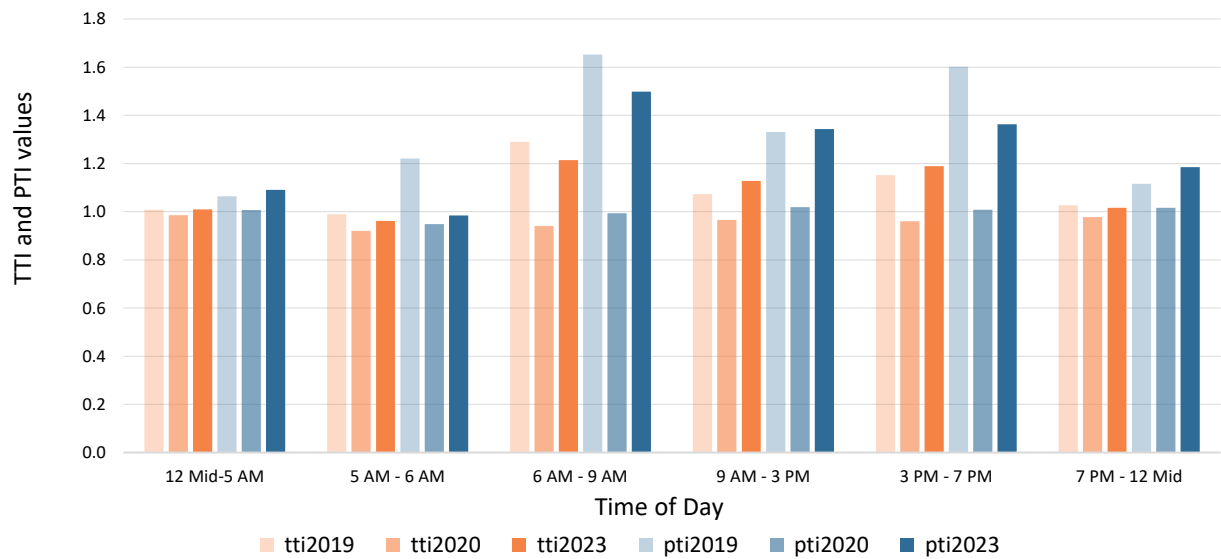
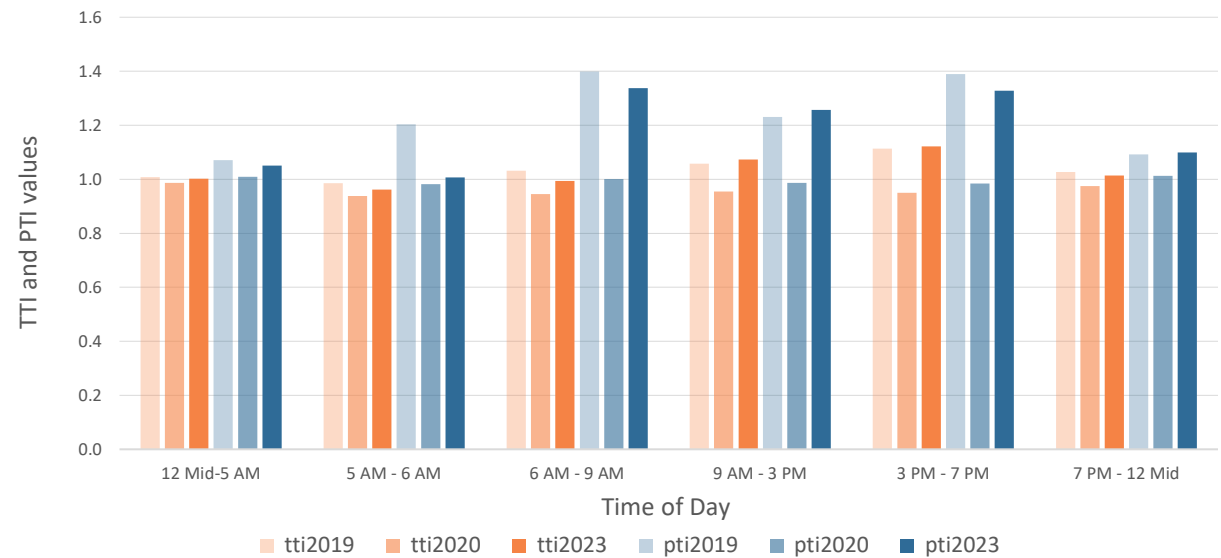
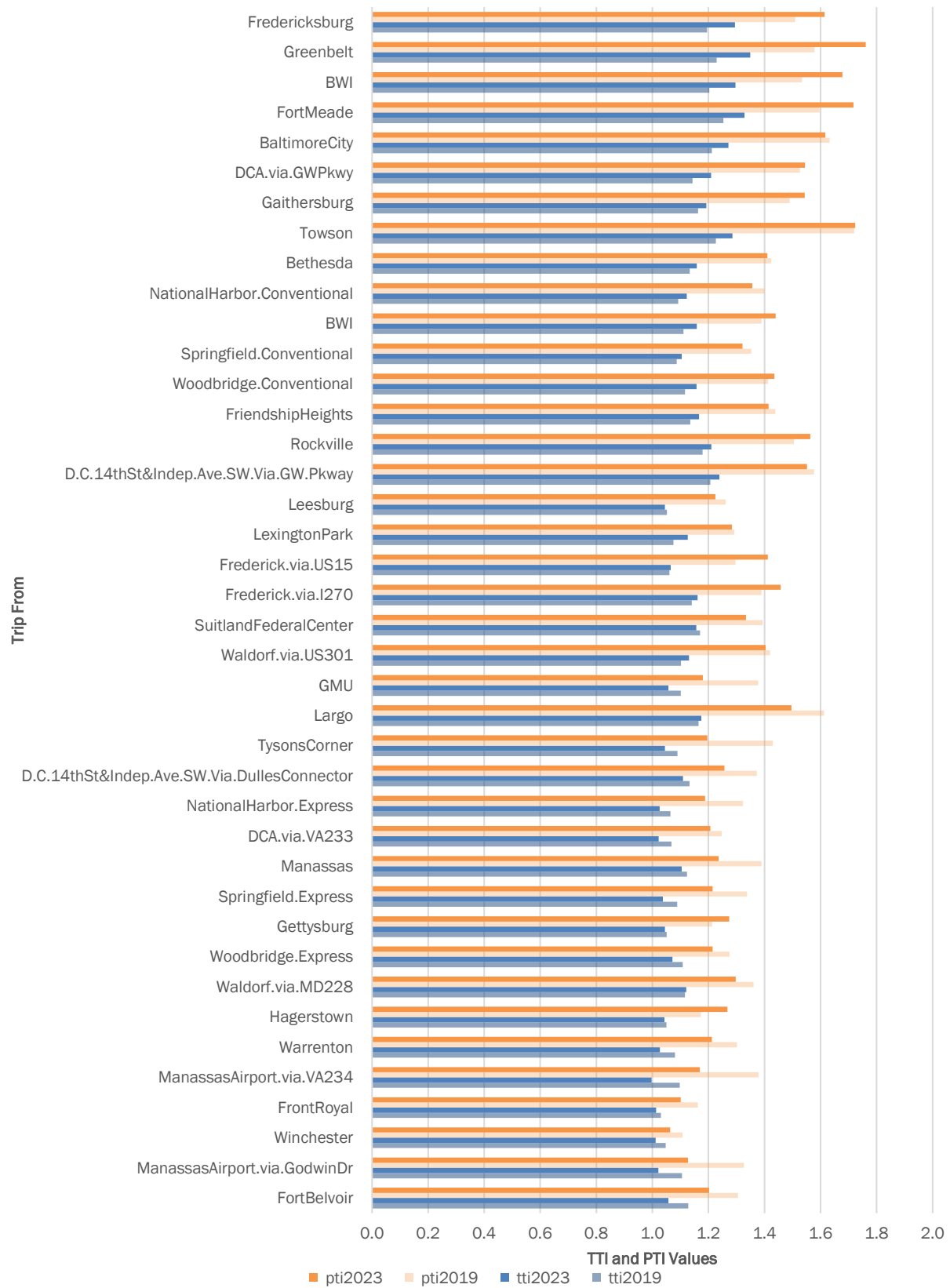


Figure 9. IAD Weekend Travel Time Index and Planning Time Index Aggregate Values



## Travel Time Index and Planning Time Index Values –By Route





**Table 9: Median Speeds and Median Travel Times, Spring of 2019, 2020, and 2023**

ID	Origin	Dest Airport	Via	Day Part	Weekday								Weekend							
					Speed			Travel Time			Change		Speed			Travel Time			Change	
					2019	2020	2023	2019	2020	2023	Speed 2023-2019	Travel Time 2023-2019	2019	2020	2023	2019	2020	2023	Speed 2023-2019	Travel Time 2023-2019
BWI001	Aberdeen	BWI	Aberdeen (via MD-22, I-95 (via Fort McHenry Tunnel) and I-195)	AM before 5	59	61	62	45	43	43	3.1	-1.4	58	61	62	45	43	43	4.1	-2.1
				AM 5 to 6	61	65	64	43	40	42	3.6	-1.7	60	64	64	44	41	42	4.8	-2.5
				AM Peak	43	64	55	60	41	48	11.9	-11.9	58	64	63	46	41	43	5.2	-2.9
				Midday	58	63	56	45	42	48	-2.1	2.6	57	63	60	46	42	45	3.0	-1.4
				PM Peak	55	63	59	48	42	45	4.1	-2.5	55	64	58	48	41	46	3.1	-1.6
				PM after 7	58	62	61	45	43	44	3.1	-1.4	58	62	61	45	42	44	3.5	-1.8
BWI002	Annapolis	BWI	Annapolis (via US-50 and I-97, MD-176 and MD-162)	AM before 5	53	54	54	29	29	28	1.5	-1.3	53	54	55	29	29	27	2.8	-1.9
				AM 5 to 6	54	57	59	28	27	25	5.1	-3.1	53	56	58	29	28	26	4.8	-3.0
				AM Peak	49	56	53	31	27	28	3.7	-2.7	53	56	57	29	27	27	4.4	-2.4
				Midday	50	54	54	31	29	28	3.8	-2.8	51	55	55	30	28	28	3.9	-2.7
				PM Peak	42	54	42	37	29	36	0.0	-0.9	48	55	48	32	28	31	0.1	-0.9
				PM after 7	52	54	54	30	28	28	2.8	-1.7	51	55	55	30	28	27	3.6	-2.5
BWI003	Baltimore City	BWI	Baltimore City (Downtown) (West Fayette Street and North Charles Street) (via MLK Boulevard, South Russell Street, MD-295 and I-195)	AM before 5	37	37	41	17	17	16	3.5	-1.3	37	38	41	17	17	15	4.1	-1.6
				AM 5 to 6	39	39	42	16	16	15	2.6	-0.8	38	39	42	16	16	15	4.1	-1.5
				AM Peak	36	39	38	17	16	17	2.1	-0.8	38	39	41	17	16	16	2.9	-1.1
				Midday	34	38	36	18	17	17	2.3	-1.0	35	38	38	18	17	17	2.3	-0.9
				PM Peak	29	38	34	22	17	19	4.8	-2.9	35	38	36	18	17	17	1.0	-0.3
				PM after 7	37	38	39	17	17	16	1.4	-0.5	37	38	39	17	17	16	1.7	-0.6

BWI004	Baltimore City	BWI	Baltimore City (Broening Highway/Seagirt Marine Terminal) (via I-695 (Baltimore Beltway via F.S. Key Bridge), I-97, MD-176 and MD-162)	AM before 5	43	45	46	25	24	24	3.2	-1.6	42	45	46	25	24	24	3.5	-1.8
				AM 5 to 6	43	47	48	25	23	23	5.3	-2.6	43	47	48	25	23	23	5.7	-2.9
				AM Peak	39	46	44	28	24	25	4.8	-2.9	42	47	47	26	23	23	5.1	-2.6
				Midday	41	44	43	27	25	25	2.2	-1.2	42	46	46	26	24	23	4.3	-2.3
				PM Peak	42	46	45	26	24	24	3.0	-1.6	42	47	47	25	23	23	4.3	-2.2
				PM after 7	42	45	46	26	24	24	4.3	-2.3	42	46	46	26	24	23	4.2	-2.2
BWI005	Bel Air	BWI	Bel Air (via MD-24, I-95 (via Fort McHenry Tunnel) and I-195)	AM before 5	57	59	61	42	41	39	4.1	-2.9	57	59	61	42	40	39	4.8	-3.3
				AM 5 to 6	58	64	64	41	38	38	5.1	-3.2	58	62	64	41	39	38	5.8	-3.8
				AM Peak	41	62	53	58	38	45	12.4	-13.5	56	63	62	43	38	39	6.0	-4.2
				Midday	54	60	59	44	40	41	4.4	-3.4	54	60	59	44	40	40	5.4	-4.0
				PM Peak	52	60	57	46	40	42	5.0	-4.2	53	61	58	45	39	41	5.3	-4.1
				PM after 7	55	60	60	43	40	40	4.3	-3.1	56	60	60	43	40	40	4.7	-3.4
BWI006	D.C. - 14th Street and Independence Avenue, S.W.	BWI	D.C. - 14th Street and Independence Avenue, S.W. (via Independence Avenue, I-695 [D.C.] (Southeast Freeway), DC-295, MD-201, Baltimore-Washington Parkway, MD-295 and I-195)	AM before 5	51	55	57	40	37	35	5.9	-4.1	51	54	57	40	37	36	5.8	-4.1
				AM 5 to 6	52	57	57	38	35	35	4.8	-3.1	52	56	57	39	36	35	4.6	-3.1
				AM Peak	46	56	48	44	36	42	1.6	-1.5	50	56	52	40	36	39	1.3	-1.0
				Midday	42	51	43	48	40	47	0.9	-1.0	42	55	39	48	37	51	-3.2	3.9
				PM Peak	26	52	24	78	39	84	-1.9	6.7	33	55	32	61	37	63	-1.1	2.0
				PM after 7	43	55	50	47	36	40	7.5	-7.1	46	55	48	44	36	42	2.7	-2.4
BWI007	D.C. - 14th Street and Independence Avenue, S.W.	BWI	D.C. - 14th Street and Independence Avenue, S.W. (via Independence Avenue, Pennsylvania Avenue, S.E., DC-295, MD-201, Baltimore-Washington Parkway, MD-295 and I-195)	AM before 5	45	49	51	44	41	39	6.3	-5.5	45	48	51	44	42	39	5.9	-5.2
				AM 5 to 6	46	50	52	43	40	39	5.4	-4.6	46	48	51	44	41	39	4.9	-4.3
				AM Peak	41	48	43	49	42	46	2.4	-2.5	45	49	47	45	41	42	2.7	-2.7
				Midday	37	45	39	54	45	51	2.0	-3.0	38	48	36	52	42	55	-1.7	2.2
				PM Peak	25	47	24	80	42	84	-1.6	4.5	32	49	31	62	41	65	-1.6	3.2
				PM after 7	39	49	46	51	41	44	6.5	-7.3	42	49	44	48	41	45	2.3	-2.6

BWI008	D.C. - 14th Street and K Street, N.W.	BWI	D.C. - 14th Street and K Street, N.W. (via K Street, N.W., US-50 (New York Avenue, N.W. and N.E.), Baltimore-Washington Parkway, MD-295 and I-195)	AM before 5	41	43	46	47	45	42	5.0	-5.0	41	43	46	47	45	42	4.6	-4.7
				AM 5 to 6	42	45	47	46	44	42	4.6	-4.6	41	44	47	47	44	42	5.5	-5.5
				AM Peak	37	44	39	52	45	50	1.5	-2.2	40	44	43	48	44	45	2.5	-2.8
				Midday	34	42	36	57	47	53	2.5	-4.2	35	44	35	56	44	56	0.4	-0.4
				PM Peak	24	43	24	81	46	82	-0.5	1.3	29	44	29	66	44	66	0.0	-0.1
				PM after 7	35	44	42	55	44	47	6.2	-7.9	38	44	40	51	44	49	2.0	-2.6
BWI009	D.C. - 14th Street and K Street, N.W.	BWI	D.C. - 14th Street and K Street, N.W. (via K Street, N.W., US-50 (New York Avenue, N.W. and N.E.), Baltimore-Washington Parkway, I-95/I-495 (Capital Beltway), I-95 and I-195)	AM before 5	46	47	49	54	53	50	3.0	-3.3	46	47	49	54	53	50	3.3	-3.6
				AM 5 to 6	47	48	51	53	51	49	4.1	-4.1	46	48	51	54	52	49	4.6	-4.9
				AM Peak	43	48	45	58	52	54	2.8	-3.9	46	48	49	54	51	51	3.4	-3.7
				Midday	39	46	41	63	54	60	2.4	-3.6	41	48	42	61	51	59	1.0	-1.5
				PM Peak	29	47	29	84	53	86	-0.6	2.3	35	49	36	70	51	68	1.2	-2.4
				PM after 7	45	48	47	55	52	53	1.8	-2.0	44	48	46	56	52	54	1.6	-1.9
BWI010	D.C. - 14th Street and K Street, N.W.	BWI	D.C. - 14th Street and K Street, N.W. (via K Street, N.W., US-50 (New York Avenue, N.W. and N.E.), U.S. 50 (John Hanson Highway), I-97, MD-176, and MD-162)	AM before 5	46	47	48	62	61	59	2.5	-3.1	46	46	48	62	61	59	2.7	-3.4
				AM 5 to 6	46	48	50	62	59	56	4.3	-5.3	46	47	50	62	60	57	4.5	-5.4
				AM Peak	44	48	47	65	59	61	2.8	-3.7	46	49	49	62	59	58	3.5	-4.3
				Midday	43	46	45	66	61	64	1.7	-2.3	44	48	46	65	59	62	1.9	-2.6
				PM Peak	34	47	35	84	61	82	0.7	-1.5	40	49	43	70	59	67	2.2	-3.2
				PM after 7	45	47	47	63	60	61	1.6	-2.0	45	48	47	63	60	60	2.1	-2.8
BWI011	DCA	BWI	DCA (via George Washington Memorial Parkway, I-395 Southwest Freeway), I-695 [D.C.] (Southeast Freeway), DC-295, MD-201, Baltimore-Washington Parkway, MD-295, I-195	AM before 5	53	58	60	39	36	35	6.6	-4.1	53	57	60	39	37	35	6.4	-4.1
				AM 5 to 6	56	61	60	38	35	35	4.5	-2.6	55	59	60	38	36	35	5.0	-3.0
				AM Peak	46	59	45	45	36	46	-1.6	1.2	53	60	53	40	35	40	0.0	-0.3
				Midday	43	54	43	49	39	49	-0.2	0.3	43	58	39	49	36	53	-3.8	4.9
				PM Peak	26	55	24	82	38	89	-1.9	6.9	33	58	32	62	36	66	-1.3	4.0
				PM after 7	44	58	52	48	36	41	8.0	-7.1	47	58	49	44	36	43	2.1	-1.8

BW1012	College Park	BWI	College Park (via US-1, I-95 and I-195)	AM before 5	56	57	58	30	30	29	1.9	-1.0	55	57	58	31	30	29	2.8	-1.5
				AM 5 to 6	56	58	59	30	29	28	2.7	-1.4	56	58	59	30	29	28	3.1	-1.6
				AM Peak	52	60	55	33	28	30	3.5	-2.1	56	60	59	30	28	29	2.6	-1.4
				Midday	55	60	50	31	28	33	-4.3	2.4	53	60	52	32	28	33	-1.0	0.7
				PM Peak	41	60	41	41	28	41	0.0	-0.1	48	61	48	35	28	34	0.9	-1.1
				PM after 7	54	58	56	31	29	30	1.3	-0.8	54	58	56	31	29	30	1.9	-1.1
BW1013	Columbia	BWI	Columbia (via MD-100, I-95 and I-195)	AM before 5	54	55	55	21	21	21	1.2	-0.5	54	55	56	21	21	21	1.6	-0.6
				AM 5 to 6	56	57	58	20	20	20	2.3	-0.8	55	56	58	21	20	20	2.5	-0.9
				AM Peak	51	59	57	22	20	20	6.0	-2.3	55	58	58	21	20	20	3.3	-1.2
				Midday	53	57	55	21	20	21	1.9	-0.7	54	58	56	21	20	21	2.2	-0.8
				PM Peak	48	57	51	24	20	23	2.8	-1.3	51	57	54	22	20	21	3.0	-1.2
				PM after 7	53	55	55	22	21	21	2.8	-1.1	52	56	55	22	21	21	3.0	-1.2
BW1014	Easton	BWI	Easton (via US-50 (via Chesapeake Bay Bridge), I-97, MD-176 and MD-162)	AM before 5	62	64	56	62	60	60	-6.0	-2.0	63	64	57	61	60	59	-5.8	-2.2
				AM 5 to 6	66	70	61	58	55	55	-4.3	-3.5	64	68	60	60	57	55	-3.9	-4.1
				AM Peak	61	68	56	63	56	60	-4.6	-3.3	63	68	60	61	57	56	-3.7	-4.3
				Midday	60	65	55	64	59	61	-5.0	-3.0	60	66	55	63	59	61	-5.0	-2.9
				PM Peak	55	66	49	70	59	69	-6.1	-0.9	57	66	52	67	58	64	-5.5	-2.3
				PM after 7	60	64	56	64	60	60	-4.2	-3.8	61	65	57	63	59	59	-4.1	-3.9
BW1015	Frederick	BWI	Frederick (via I-70, US-29, MD-100, I-95 and I-195)	AM before 5	60	62	63	57	55	54	3.0	-2.2	60	62	63	57	55	54	3.6	-2.8
				AM 5 to 6	62	67	68	54	51	50	5.3	-3.9	61	65	66	55	52	51	5.2	-4.0
				AM Peak	50	66	60	67	51	56	10.1	-10.9	60	66	66	56	51	52	5.9	-4.7
				Midday	60	65	64	57	52	53	4.6	-3.6	60	65	65	57	52	53	5.0	-3.9
				PM Peak	54	66	56	63	52	60	2.6	-2.9	59	66	64	57	51	53	4.9	-4.0
				PM after 7	59	63	64	58	54	53	5.2	-4.3	59	63	64	58	53	53	5.6	-4.6

BW1016	Gaithersburg	BWI	Gaithersburg (via Watkins Mill Road, I-270, I-270 Spur, I-495 (Capital Beltway), I-95 and I-195)	AM before 5	61	63	63	47	46	47	1.4	-0.6	61	63	64	48	46	46	2.5	-1.4
				AM 5 to 6	64	68	66	45	43	45	1.6	-0.6	63	66	66	46	44	45	2.3	-1.1
				AM Peak	44	66	51	66	44	57	6.7	-8.1	61	67	63	47	44	47	1.9	-1.0
				Midday	57	65	55	51	45	54	-2.0	2.6	56	67	55	52	44	54	-0.7	1.3
				PM Peak	40	67	40	72	44	73	-0.3	1.4	49	67	50	59	43	58	1.0	-0.9
				PM after 7	60	64	62	49	45	48	2.2	-1.1	60	65	62	49	45	47	2.9	-1.8
BW1017	Gaithersburg	BWI	Gaithersburg (via Watkins Mill Road, I-270, I-370, MD-200 (ICC), I-95 and I-195)	AM before 5	62	63	62	44	43	44	0.4	0.3	61	63	62	44	43	44	1.2	-0.3
				AM 5 to 6	62	66	65	44	41	42	3.3	-1.7	62	65	65	44	42	43	2.8	-1.5
				AM Peak	52	67	57	52	41	48	5.2	-3.9	61	67	64	45	41	43	3.3	-1.9
				Midday	60	66	59	45	41	47	-1.3	1.6	59	66	61	46	41	45	1.5	-0.6
				PM Peak	51	67	52	52	41	53	0.5	0.8	57	67	60	48	41	46	3.1	-2.1
				PM after 7	60	64	63	45	43	44	2.7	-1.4	60	64	63	45	43	44	2.9	-1.6
BW1018	Gettysburg, Pennsylvania	BWI	Gettysburg, Pennsylvania (via US-30, US-15, MD-140, I-795, I-695, I-95 and I-195)	AM before 5	55	57	55	64	62	63	0.6	-0.7	54	57	55	64	62	63	0.9	-1.1
				AM 5 to 6	56	61	58	62	57	61	1.7	-1.9	56	60	58	63	59	60	2.3	-2.6
				AM Peak	44	59	48	79	59	73	4.1	-6.2	53	59	55	66	59	63	2.2	-2.9
				Midday	49	57	52	71	62	67	2.9	-3.8	51	58	53	69	61	66	2.2	-2.8
				PM Peak	47	58	50	75	61	70	3.0	-4.4	51	58	53	69	60	66	2.1	-2.7
				PM after 7	53	57	54	66	62	64	1.1	-1.3	53	57	55	66	61	64	1.4	-1.7
BW1019	Gettysburg, Pennsylvania	BWI	Gettysburg, Pennsylvania (via US-30, US-15, I-70, US-29, MD-100, I-95 and I-195)	AM before 5	61	63	63	77	74	74	2.5	-2.5	61	63	64	77	74	74	2.9	-3.0
				AM 5 to 6	65	69	68	71	67	69	3.0	-2.3	63	67	67	74	69	70	3.2	-3.5
				AM Peak	56	68	64	83	68	74	7.3	-8.7	62	67	67	76	69	70	5.4	-5.5
				Midday	62	66	65	75	71	72	3.4	-3.3	62	67	66	76	70	72	4.0	-4.0
				PM Peak	60	67	63	78	70	75	3.1	-3.3	61	68	66	76	69	72	4.6	-4.8
				PM after 7	61	64	65	77	73	73	4.3	-4.5	60	65	66	77	72	72	5.2	-5.5

BWIO20	Greenbelt	BWI	Greenbelt (via Baltimore-Washington Parkway, MD-295 and I-195)	AM before 5	53	58	59	23	21	20	6.9	-2.6	53	57	59	23	21	20	6.1	-2.3
				AM 5 to 6	54	61	59	22	20	20	5.1	-1.8	55	59	59	22	20	20	4.4	-1.7
				AM Peak	46	60	48	26	20	25	2.0	-1.0	52	60	54	23	20	22	1.5	-0.9
				Midday	51	59	48	24	21	25	-3.4	1.7	46	59	44	26	21	27	-2.8	1.5
				PM Peak	32	58	32	37	21	38	-0.5	0.5	38	58	38	32	21	32	-0.1	0.0
				PM after 7	44	58	55	27	21	22	10.7	-5.4	48	59	52	25	21	23	4.2	-2.0
BWIO21	Hagerstown	BWI	Hagerstown (via U.S. 40 (Dual Highway), I-70, US-29, MD-100, I-95)	AM before 5	59	62	62	78	76	75	2.5	-2.9	59	62	62	79	76	75	3.2	-4.0
				AM 5 to 6	64	68	66	73	69	70	2.2	-2.2	63	66	65	74	71	72	2.1	-2.5
				AM Peak	55	67	61	85	70	77	5.6	-7.9	61	66	65	77	70	72	4.6	-5.4
				Midday	60	65	62	78	72	75	2.9	-3.5	60	65	63	78	71	74	3.3	-4.1
				PM Peak	60	66	62	78	71	75	2.8	-3.4	60	66	63	78	71	74	3.7	-4.5
				PM after 7	59	63	63	79	74	74	4.0	-5.0	59	64	63	79	73	74	4.7	-5.8
BWIO22	IAD	BWI	IAD (via Dulles Airport Access Road, I-495 (Capital Beltway via American Legion Bridge), I-95, I-195)	AM before 5	60	62	61	57	56	56	1.0	-1.0	59	62	62	58	56	55	3.0	-2.8
				AM 5 to 6	61	65	65	56	53	53	4.1	-3.4	60	64	64	57	54	53	4.4	-3.7
				AM Peak	53	65	56	64	53	61	3.9	-3.0	61	65	64	57	53	54	3.2	-3.0
				Midday	55	65	52	62	53	66	-3.1	4.1	55	65	52	63	53	65	-2.2	2.2
				PM Peak	31	65	31	110	53	109	0.3	-1.8	40	66	44	86	52	79	3.5	-6.8
				PM after 7	58	63	56	59	55	61	-2.0	2.0	58	63	61	59	55	56	2.6	-2.4
BWIO23	IAD	BWI	IAD (via Dulles Airport Access Road, I-495 (Capital Beltway via American Legion Bridge), I-270, I-370, MD-200, I-95, I-195)	AM before 5	60	62	61	68	66	67	1.2	-1.3	60	62	62	69	66	66	2.8	-3.2
				AM 5 to 6	61	65	66	68	63	62	5.1	-5.1	60	64	64	68	64	64	4.4	-4.5
				AM Peak	55	66	60	74	62	68	5.3	-5.2	61	66	65	68	62	63	4.6	-4.8
				Midday	58	65	56	71	63	73	-1.7	2.1	58	65	58	71	63	71	0.0	-0.1
				PM Peak	37	66	39	111	62	104	2.0	-7.1	47	66	52	88	62	79	5.4	-9.1
				PM after 7	59	63	61	70	65	67	2.3	-2.6	59	63	63	69	65	65	4.4	-4.8

BWIO24	Largo	BWI	Largo (via I-95/I-495 (Capital Beltway), Baltimore-Washington Parkway, MD-295 and I-195)	AM before 5	54	59	61	30	27	26	6.4	-3.1	55	59	60	29	27	27	5.9	-2.9
				AM 5 to 6	56	62	61	28	26	26	4.3	-2.1	56	60	61	29	27	26	4.4	-2.3
				AM Peak	45	62	47	35	26	34	1.7	-1.4	54	61	56	29	26	28	2.0	-1.4
				Midday	49	60	48	33	27	33	-0.5	0.4	47	60	44	34	27	36	-2.4	1.8
				PM Peak	32	60	31	49	27	51	-1.0	1.7	38	60	37	42	27	43	-1.5	1.6
				PM after 7	47	59	57	34	27	28	10.0	-6.0	50	59	54	32	27	30	4.3	-2.6
BWIO25	Lexington Park	BWI	Lexington Park (via MD-2, MD-4, US-301, MD-3, I-97, MD-176, MD-162)	AM before 5	55	57	55	89	87	88	-0.4	-1.9	55	56	54	90	87	88	-0.3	-2.2
				AM 5 to 6	57	62	59	87	79	82	1.9	-5.3	57	59	58	87	83	82	1.5	-4.9
				AM Peak	51	60	52	97	82	93	0.8	-4.2	54	59	56	91	83	85	1.7	-5.5
				Midday	51	57	51	97	87	94	0.0	-2.9	51	57	51	97	87	94	0.1	-2.9
				PM Peak	46	57	46	107	86	103	0.3	-3.4	50	57	49	99	86	97	-0.5	-1.7
				PM after 7	53	57	54	94	87	90	0.9	-4.1	53	57	53	93	87	90	0.5	-3.4
BWIO26	National Harbor	BWI	National Harbor (via I-95/I-495 (Capital Beltway), Baltimore-Washington Parkway, MD-295 and I-195)	AM before 5	58	63	65	43	40	39	6.2	-4.2	58	63	65	43	40	39	6.3	-4.2
				AM 5 to 6	60	66	65	42	38	39	4.8	-3.1	60	65	65	42	39	39	5.1	-3.3
				AM Peak	47	66	50	53	38	50	3.0	-2.5	58	66	61	43	38	41	3.0	-2.1
				Midday	52	64	52	48	39	48	-0.3	0.4	51	65	48	49	39	52	-2.8	3.0
				PM Peak	35	64	32	72	39	77	-2.4	5.1	40	65	40	62	39	61	0.0	-0.7
				PM after 7	51	64	62	50	40	41	11.0	-8.8	54	64	60	47	39	42	5.4	-4.3
BWIO27	Rockville	BWI	Rockville (via I-270, I-370, MD-200 (ICC), I-95, I-195)	AM before 5	58	59	60	43	42	42	2.1	-1.4	57	59	60	43	42	41	2.9	-1.9
				AM 5 to 6	58	62	63	43	40	40	4.3	-2.7	58	61	62	43	41	40	4.4	-2.8
				AM Peak	54	63	59	46	40	42	5.2	-3.7	58	62	62	43	40	40	4.3	-2.8
				Midday	56	62	56	45	40	45	-0.3	0.3	55	62	57	45	40	44	1.9	-1.3
				PM Peak	45	62	47	55	40	53	2.1	-2.2	51	63	56	49	40	44	5.5	-4.4
				PM after 7	56	60	60	44	42	42	4.0	-2.7	57	60	60	44	41	41	3.8	-2.5



BW1028	Rockville	BWI	Rockville (via I-270, I-495 (Capital Beltway), I-95, and I-195)	AM before 5	54	55	57	40	39	38	2.6	-1.9	53	55	57	40	39	38	3.5	-2.5
				AM 5 to 6	54	57	59	39	38	36	4.9	-3.3	54	56	58	39	38	36	3.9	-2.8
				AM Peak	48	56	54	44	38	40	5.6	-4.7	53	57	57	41	37	37	4.8	-3.4
				Midday	51	56	51	42	38	42	-0.6	0.2	51	57	52	42	38	41	1.5	-1.2
				PM Peak	42	57	41	51	37	51	-0.7	0.4	48	57	51	44	37	42	3.3	-2.7
				PM after 7	53	55	56	41	39	38	3.0	-2.2	53	56	56	41	38	38	3.3	-2.4
BW1029	Rockville	BWI	Rockville (via I-270, I-495 (Capital Beltway), I-95, MD-32, Baltimore-Washington Parkway, and MD 295)	AM before 5	55	57	59	50	49	48	3.4	-2.8	55	57	59	51	49	47	4.2	-3.4
				AM 5 to 6	58	62	61	48	45	46	3.2	-2.4	57	60	61	49	47	46	4.5	-3.4
				AM Peak	45	60	52	61	46	54	6.4	-7.4	56	61	59	50	46	47	3.4	-2.8
				Midday	51	59	52	55	47	54	0.9	-0.8	50	60	50	56	46	56	0.7	-0.3
				PM Peak	35	60	35	79	47	81	-0.5	1.5	44	60	47	63	46	60	2.5	-3.1
				PM after 7	53	59	57	53	48	49	3.6	-3.1	53	59	57	52	47	49	3.7	-3.3
BW1030	Rockville	BWI	Rockville (via MD-28, MD-650, MD-108, MD-32, Baltimore-Washington Pkwy, and MD-295)	AM before 5	44	46	47	53	52	50	2.9	-3.3	44	46	48	53	52	49	3.5	-4.0
				AM 5 to 6	46	48	50	51	49	47	3.9	-3.9	46	47	49	51	50	48	3.3	-3.5
				AM Peak	39	47	41	60	50	57	1.9	-2.8	44	47	47	54	50	50	2.9	-3.5
				Midday	42	46	43	57	52	55	1.1	-1.4	42	46	43	56	51	55	1.0	-1.3
				PM Peak	34	46	35	70	52	68	1.0	-2.1	41	45	42	58	52	56	1.1	-1.4
				PM after 7	43	46	44	55	52	53	1.9	-2.3	43	46	45	55	51	52	2.1	-2.6
BW1031	Springfield	BWI	Springfield (via VA-613, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), Baltimore-Washington Parkway, MD 295 and I-195)	AM before 5	54	57	59	60	57	55	5.7	-5.8	54	57	60	60	57	54	6.1	-6.2
				AM 5 to 6	55	60	61	59	54	54	5.3	-5.1	55	59	61	59	55	53	5.4	-5.3
				AM Peak	44	60	47	73	54	68	3.2	-4.3	53	60	57	60	54	56	4.0	-3.8
				Midday	49	58	49	66	56	66	-0.1	0.2	48	59	47	67	55	69	-1.4	2.2
				PM Peak	31	58	30	104	56	108	-1.0	3.4	37	59	39	86	55	84	1.4	-2.1
				PM after 7	46	58	57	70	56	57	10.4	-12.9	51	58	55	64	56	59	4.7	-5.6

BWIO32	Towson	BWI	Towson (via I-695 (Baltimore Beltway) and MD 295, I-195)	AM before 5	55	58	58	30	28	28	3.7	-1.9	54	57	58	30	28	28	4.5	-2.3
				AM 5 to 6	57	61	61	29	27	27	4.5	-2.1	56	61	61	29	27	27	5.0	-2.4
				AM Peak	37	60	44	44	27	36	7.9	-8.1	53	60	59	31	27	27	6.3	-3.3
				Midday	49	57	53	33	28	31	4.4	-2.7	49	58	54	33	28	30	4.6	-2.7
				PM Peak	37	57	40	44	29	41	2.4	-2.9	46	58	50	36	28	32	4.8	-3.5
				PM after 7	53	58	57	31	28	29	3.5	-1.9	53	58	57	31	28	29	4.0	-2.2
BWIO33	Tysons Corner	BWI	Tysons Corner (via I-495 (Capital Beltway via American Legion Bridge), I-95 and I-195)	AM before 5	58	60	59	47	46	47	0.9	-0.8	58	60	61	48	46	45	3.5	-2.7
				AM 5 to 6	61	64	63	46	43	44	2.9	-2.0	60	63	63	46	44	44	3.2	-2.4
				AM Peak	50	63	52	54	44	53	1.9	-0.6	59	64	62	47	44	45	2.8	-2.2
				Midday	54	63	47	51	44	58	-6.6	6.7	52	63	48	54	44	58	-3.6	3.9
				PM Peak	28	62	27	100	44	102	-0.6	2.1	37	64	38	75	44	72	1.3	-2.4
				PM after 7	56	61	51	49	45	55	-5.8	5.6	57	62	58	49	45	48	1.4	-1.2
BWIO34	Waldorf	BWI	Waldorf (via MD-5 Business, US-301, MD-3, I-97, MD-176, MD-462 and MD-170)	AM before 5	48	50	53	63	61	57	4.9	-5.7	48	50	53	64	61	58	5.1	-6.1
				AM 5 to 6	50	56	56	61	54	55	5.7	-6.1	50	53	56	60	57	55	5.2	-5.6
				AM Peak	40	54	46	76	56	66	5.9	-9.7	46	53	52	66	57	58	6.1	-7.7
				Midday	43	50	46	71	61	66	3.7	-5.6	42	50	46	72	61	66	3.6	-5.6
				PM Peak	38	50	41	80	61	75	2.7	-5.4	40	50	43	76	61	71	3.2	-5.5
				PM after 7	45	50	50	67	61	61	4.3	-5.8	45	50	50	68	61	61	4.6	-6.1
BWIO35	Westminster	BWI	Westminster (MD-27, MD-140, I-795, I-695 (Baltimore Beltway), I-95, I-195)	AM before 5	53	55	56	43	42	41	3.0	-2.4	52	55	56	43	42	41	3.7	-2.9
				AM 5 to 6	54	59	59	42	38	39	4.8	-3.5	54	58	59	42	39	39	5.0	-3.7
				AM Peak	39	58	46	58	39	49	7.3	-8.6	50	58	57	45	40	40	6.9	-5.4
				Midday	46	56	53	50	41	43	7.3	-6.9	48	56	53	48	41	43	5.5	-4.9
				PM Peak	43	57	49	54	40	46	6.3	-7.0	48	57	53	47	40	43	5.1	-4.5
				PM after 7	51	55	56	44	41	41	4.5	-3.5	51	56	56	44	41	41	4.6	-3.6

BWIO36	White Marsh	BWI	White Marsh (via Honeygo Blvd., MD-43, I-95 (via Fort McHenry Tunnel) and MD 295)	AM before 5	54	56	58	29	28	27	4.2	-2.1	54	56	58	29	28	27	4.8	-2.4
				AM 5 to 6	55	60	61	28	26	26	5.6	-2.6	54	59	61	29	26	26	6.8	-3.2
				AM Peak	35	59	53	44	27	30	17.1	-14.1	53	59	60	29	26	26	6.6	-3.3
				Midday	52	56	56	30	28	28	4.7	-2.5	52	58	57	30	27	27	5.4	-2.8
				PM Peak	48	57	54	33	28	29	6.0	-3.7	50	58	56	31	27	28	5.8	-3.2
				PM after 7	53	56	57	30	28	27	4.0	-2.1	53	56	57	30	28	27	4.6	-2.4
BWIO37	York, Pennsylvania	BWI	York, Pennsylvania (via U.S. 30, I-83, I-695 (Baltimore Beltway), I-95, I-195)	AM before 5	61	64	64	45	44	44	2.4	-1.7	60	64	64	46	44	43	4.0	-2.9
				AM 5 to 6	64	69	68	44	40	41	3.9	-2.4	64	68	67	44	41	41	3.8	-2.5
				AM Peak	45	69	54	62	41	51	9.0	-10.1	59	69	67	47	41	42	7.5	-5.5
				Midday	59	67	64	47	42	44	5.2	-3.8	59	68	65	47	41	43	5.4	-3.9
				PM Peak	50	68	53	56	41	52	3.6	-4.0	58	68	62	48	41	45	3.9	-3.5
				PM after 7	60	65	65	46	43	43	4.7	-3.3	60	66	65	46	42	43	5.3	-3.8
BWIO38	Lancaster, Pennsylvania	BWI	Lancaster, Pennsylvania (via PA-272, US-30, I-83, I-695, I-95, I-195)	AM before 5	61	64	64	45	44	44	2.4	-1.7	60	64	64	46	44	43	4.0	-2.9
				AM 5 to 6	64	69	68	44	40	41	3.9	-2.4	64	68	67	44	41	41	3.8	-2.5
				AM Peak	45	69	54	62	41	51	9.0	-10.1	59	69	67	47	41	42	7.5	-5.5
				Midday	59	67	64	47	42	44	5.2	-3.8	59	68	65	47	41	43	5.4	-3.9
				PM Peak	50	68	53	56	41	52	3.6	-4.0	58	68	62	48	41	45	3.9	-3.5
				PM after 7	60	65	65	46	43	43	4.7	-3.3	60	66	65	46	42	43	5.3	-3.8
BWIO39	Bethesda	BWI	Bethesda (via MD-187, W Cedar Ln, MD-355, I-495, I-9, I-195)	AM before 5	56	57	58	40	39	38	1.9	-1.3	55	57	58	40	39	38	3.3	-2.3
				AM 5 to 6	57	59	60	39	37	37	3.7	-2.3	57	59	60	39	37	37	3.2	-2.1
				AM Peak	51	60	55	43	37	40	3.5	-2.5	57	60	59	39	37	38	2.3	-1.5
				Midday	53	59	49	42	38	45	-3.3	2.8	51	59	49	44	37	45	-1.4	1.2
				PM Peak	34	58	34	66	38	66	0.0	-0.1	43	60	45	52	37	50	1.7	-1.9
				PM after 7	54	58	56	41	38	40	1.8	-1.3	55	58	57	41	38	39	2.4	-1.7

BWIO40	Friendship Heights	BWI	Friendship Heights (via MD-355, Western Ave, Md-185, I-495, I-95, I-195)	AM before 5	53	54	55	41	40	39	1.9	-1.5	53	54	55	41	40	39	2.4	-1.8
				AM 5 to 6	54	57	57	39	38	37	3.0	-2.0	54	56	57	40	38	38	2.6	-1.9
				AM Peak	50	57	51	43	37	42	1.8	-1.3	53	57	55	40	38	39	1.8	-1.4
				Midday	50	56	46	42	38	47	-4.6	4.2	48	57	46	44	38	47	-2.7	2.7
				PM Peak	33	56	33	65	38	66	-0.6	1.1	41	57	42	51	38	51	0.1	0.0
				PM after 7	51	55	52	42	39	41	0.8	-0.8	52	55	53	42	39	41	0.9	-0.8
DCA001	Annapolis	DCA	Annapolis (via MD-70, US-50, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway) and George Washington Memorial Parkway)	AM before 5	54	56	58	41	40	38	3.6	-3.2	54	56	58	41	40	38	3.5	-3.3
				AM 5 to 6	55	61	56	41	37	39	1.7	-2.2	55	60	58	41	38	38	3.1	-3.0
				AM Peak	31	59	33	72	38	67	1.8	-4.8	48	59	54	47	38	41	5.8	-6.5
				Midday	47	58	46	48	39	48	-1.1	0.2	46	58	47	48	39	47	0.8	-1.3
				PM Peak	40	57	41	56	40	54	0.8	-1.6	43	58	43	52	39	52	-0.3	0.1
				PM after 7	53	57	56	43	40	39	3.5	-3.3	53	57	55	43	39	40	2.2	-2.2
DCA002	Baltimore City	DCA	Baltimore City (Downtown) (West Fayette Street and North Charles Street) (via MLK Boulevard, South Russell Street, MD-295, Baltimore-Washington Parkway, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway), George Washington Memorial Parkway)	AM before 5	45	47	51	62	59	55	5.7	-6.8	45	47	50	62	59	55	5.6	-6.7
				AM 5 to 6	46	50	48	61	55	58	2.1	-2.5	46	48	50	60	57	55	3.7	-4.3
				AM Peak	29	48	28	94	57	99	-1.4	4.7	40	49	45	69	57	61	4.7	-7.3
				Midday	35	47	36	79	59	76	1.8	-3.5	36	47	37	76	59	75	0.4	-0.7
				PM Peak	29	46	29	94	60	95	-0.4	1.5	34	47	32	82	58	87	-2.0	5.3
				PM after 7	43	48	46	65	58	60	3.5	-4.8	43	48	44	65	58	62	1.8	-2.7
DCA003	BWI	DCA	BWI (via I-195, MD-295, Baltimore-Washington	AM before 5	54	57	59	43	40	39	5.3	-3.8	54	57	59	43	40	39	5.0	-3.6
				AM 5 to 6	53	61	54	43	38	42	0.7	-0.6	55	59	57	42	39	40	2.2	-1.8

			Parkway, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway) and George Washington Memorial Parkway)	AM Peak	31	59	29	73	39	79	-2.1	5.2	46	60	53	50	38	43	6.7	-6.3
				Midday	40	58	42	57	39	55	1.5	-1.8	42	59	41	54	39	55	-0.8	1.3
				PM Peak	35	58	31	65	40	73	-3.7	7.7	38	58	34	60	39	67	-3.9	6.9
				PM after 7	50	58	54	46	39	42	4.6	-3.8	50	58	52	46	39	44	1.8	-1.6
DCA004	College Park	DCA	College Park (via Paint Branch Parkway, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway), George Washington Memorial Parkway)	AM before 5	42	43	44	26	25	24	2.2	-1.3	42	43	44	26	25	24	2.4	-1.5
				AM 5 to 6	40	43	39	27	25	27	-1.1	0.6	42	43	42	26	25	25	0.8	-0.9
				AM Peak	23	43	22	46	25	48	-1.1	2.2	34	43	38	32	25	28	4.1	-3.6
				Midday	32	42	30	33	26	35	-2.3	2.3	32	43	31	33	25	34	-0.8	0.7
				PM Peak	26	41	25	41	26	42	-0.4	1.0	29	43	27	38	25	40	-1.5	2.0
				PM after 7	40	43	41	27	25	26	1.0	-0.8	40	43	39	27	25	27	-0.4	0.2
DCA005	D.C. - 14th Street and K Street, N.W.	DCA	D.C. - 14th Street and K Street, N.W. (via K St N.W., 14th St N.W./S.W., I-395 and the George Washington Memorial Parkway)	AM before 5	28	28	29	11	12	11	1.6	-0.6	28	28	29	11	12	11	0.8	-0.4
				AM 5 to 6	27	28	31	12	11	10	3.7	-1.3	28	28	31	12	11	10	3.1	-1.2
				AM Peak	26	29	27	12	11	12	0.9	-0.4	28	29	29	12	11	11	1.2	-0.5
				Midday	23	30	24	14	11	13	1.2	-0.8	24	31	25	13	10	13	1.3	-0.7
				PM Peak	15	31	18	21	10	18	2.3	-2.8	20	31	22	16	10	15	1.7	-1.0
				PM after 7	28	29	27	12	11	12	-0.6	0.2	27	29	26	12	11	12	-1.1	0.4
DCA006	Fort Meade	DCA	Fort Meade (via MD-32, MD-295, Baltimore-Washington Parkway, MD-201, DC-295, I-695 [D.C.] (Southeast Freeway), I-395 (Southwest Freeway) and George Washington Memorial Parkway)	AM before 5	51	54	56	39	37	35	5.3	-3.7	51	54	56	39	37	35	5.0	-3.5
				AM 5 to 6	51	57	52	39	34	38	1.0	-0.8	52	56	55	38	35	36	2.8	-2.0
				AM Peak	29	56	28	69	36	71	-0.9	1.9	43	57	49	46	35	40	5.9	-5.8
				Midday	36	55	38	54	36	51	2.4	-2.6	38	55	38	52	36	52	-0.3	0.2
				PM Peak	31	54	28	64	37	68	-2.6	4.5	35	55	31	57	36	64	-3.7	6.8
				PM after 7	47	55	52	42	36	38	5.0	-4.0	47	55	48	42	36	41	1.8	-1.6

DCA007	Fort Belvoir	DCA	Fort Belvoir (via U.S. 1, VA-235, George Washington Memorial Parkway, VA-400 (Washington Street), George Washington Memorial Parkway)	AM before 5	38	38	41	28	28	27	2.3	-1.5	38	38	40	28	28	27	2.0	-1.4
				AM 5 to 6	41	42	44	26	26	24	3.0	-1.8	39	40	42	28	27	25	3.2	-2.4
				AM Peak	34	41	35	31	26	30	1.0	-1.1	38	40	40	28	27	27	1.3	-0.9
				Midday	36	38	37	30	28	29	0.8	-0.6	36	37	37	30	29	29	0.2	-0.2
				PM Peak	34	36	36	32	30	30	2.4	-2.1	35	36	36	30	30	30	0.8	-0.6
				PM after 7	38	38	39	29	28	28	1.2	-0.9	38	38	38	29	28	28	0.8	-0.6
DCA008	Fredericksburg	DCA	Fredericksburg (via US-1 Business, US-1, US-17 Business, I-95, I-395, George Washington Memorial Parkway)	AM before 5	54	56	58	59	57	55	3.6	-3.7	54	56	59	59	57	55	4.6	-4.7
				AM 5 to 6	51	60	55	62	53	59	3.3	-3.8	54	60	59	60	54	54	5.5	-5.7
				AM Peak	32	59	35	98	55	90	2.9	-7.9	47	59	55	67	54	58	7.7	-9.7
				Midday	45	57	44	72	56	73	-0.8	1.3	45	58	43	72	55	73	-1.2	1.6
				PM Peak	43	58	44	75	56	73	0.6	-1.3	43	58	42	75	55	76	-0.8	1.4
				PM after 7	53	57	56	61	57	57	3.4	-3.7	52	57	56	62	56	58	3.7	-4.2
DCA009	Fredericksburg	DCA	Fredericksburg (via US-1 Business, US-1, US-17 Business, I-95, I-95 (managed lanes), I-395 (managed lanes), VA-27, George Washington Memorial Parkway)	AM before 5	57	58	59	60	59	58	1.8	-1.9	57	58	59	60	59	58	2.4	-2.5
				AM 5 to 6	59	62	61	58	55	56	1.7	-1.7	58	60	60	59	57	57	2.6	-2.7
				AM Peak	49	61	51	70	55	67	1.8	-2.7	55	60	59	62	56	58	3.2	-3.4
				Midday	49	51	52	70	67	66	2.7	-3.7	50	57	51	68	59	66	1.1	-1.4
				PM Peak	46	49	48	74	69	72	1.6	-2.6	48	57	49	71	59	70	0.7	-1.0
				PM after 7	52	52	55	65	66	62	2.7	-3.2	54	58	57	63	59	60	2.5	-2.9
DCA010	Frederick	DCA	Frederick (via I-270, I-270 Spur, I-495 (Capital Beltway), and George Washington Memorial Parkway)	AM before 5	55	57	57	54	53	53	1.9	-1.6	55	57	57	54	53	53	2.1	-1.8
				AM 5 to 6	54	62	58	56	48	52	3.8	-3.4	56	60	59	54	50	51	2.8	-2.4
				AM Peak	33	60	37	91	50	82	3.9	-9.0	53	60	57	56	50	53	3.8	-3.6
				Midday	50	59	47	60	51	64	-3.1	3.9	51	59	51	59	51	59	-0.4	0.9
				PM Peak	43	59	43	70	51	70	0.2	-0.2	47	60	46	64	50	65	-0.7	1.1
				PM after 7	54	57	56	56	52	54	2.4	-2.2	54	58	56	56	52	54	2.1	-1.8

DCA011	Gaithersburg	DCA	Gaithersburg (via Watkins Mill Road, I-270, I-270 Spur, I-495 (Capital Beltway), and George Washington Memorial Parkway)	AM before 5	56	58	55	33	32	34	-0.8	0.9	56	58	55	34	32	34	-0.4	0.7
				AM 5 to 6	59	64	58	32	29	32	-0.8	0.8	58	61	57	32	31	33	-0.8	0.8
				AM Peak	34	60	40	55	31	47	6.5	-8.4	55	61	56	34	31	34	0.8	-0.1
				Midday	52	60	43	36	31	44	-8.8	8.1	52	60	49	36	31	38	-2.4	2.3
				PM Peak	39	61	38	47	31	50	-1.8	2.8	47	61	42	40	31	45	-4.6	4.9
				PM after 7	55	58	54	34	32	35	-0.9	0.9	54	59	54	34	32	35	-0.8	1.0
DCA012	George Mason University	DCA	George Mason University (Fairfax Campus) (via VA-123, I-66, VA-110, US-1, VA-233)	AM before 5	45	45	48	29	30	28	2.9	-1.8	45	45	48	30	30	27	3.6	-2.3
				AM 5 to 6	48	48	52	28	28	26	3.8	-2.0	47	48	51	28	28	26	3.6	-2.1
				AM Peak	38	47	45	35	28	30	7.4	-5.9	45	48	49	29	28	27	4.0	-2.5
				Midday	38	46	45	35	29	30	7.0	-5.3	39	46	45	34	29	29	6.1	-4.6
				PM Peak	30	46	35	44	29	38	4.5	-5.8	35	46	41	38	29	32	6.0	-5.6
				PM after 7	44	45	47	30	29	28	3.4	-2.2	44	46	48	30	29	28	3.8	-2.5
DCA013	Greenbelt	DCA	Greenbelt (via Baltimore-Washington Parkway, MD-201, DC-295, I-695, I-395 and George Washington Memorial Parkway)	AM before 5	49	51	53	22	21	20	3.6	-1.5	48	51	52	22	21	20	3.6	-1.6
				AM 5 to 6	46	54	47	23	20	23	0.2	-0.2	48	53	50	22	20	21	2.2	-1.1
				AM Peak	25	52	23	43	21	46	-1.6	3.1	38	53	45	28	20	23	6.3	-4.4
				Midday	31	51	34	34	21	31	3.6	-3.6	35	52	35	31	21	30	0.3	-0.2
				PM Peak	30	50	28	36	21	37	-1.3	1.5	32	52	29	33	21	36	-2.6	2.5
				PM after 7	46	51	48	23	21	22	1.7	-0.9	46	51	46	23	21	23	0.2	-0.2
DCA014	Greenbelt	DCA	Greenbelt (via Baltimore-Washington Parkway, US-50 (New York Avenue), I-395 (Southwest Freeway), George Washington Memorial Parkway)	AM before 5	42	43	44	24	24	23	1.9	-1.2	42	43	44	25	24	23	2.0	-1.3
				AM 5 to 6	43	48	43	24	21	24	0.3	-0.3	43	46	44	24	22	23	0.7	-0.5
				AM Peak	26	46	25	40	22	41	-0.8	0.9	38	46	40	27	22	25	2.4	-1.9
				Midday	27	44	33	37	23	31	5.3	-6.3	31	45	34	33	23	30	2.6	-2.8
				PM Peak	27	41	27	38	25	38	0.4	-0.8	30	44	30	35	23	34	0.3	-0.6
				PM after 7	40	44	41	25	23	25	0.5	-0.5	39	44	39	26	23	26	-0.3	0.0



DCA015	IAD	DCA	IAD (via GWMP, Spout Run Parkway, US-29, I-66, VA-267 (Dulles Connector Road) and Dulles Access Road)	AM before 5	56	56	56	30	29	29	0.6	-0.3	55	56	57	30	29	29	1.3	-0.7
				AM 5 to 6	56	59	61	29	28	27	4.9	-2.1	56	58	59	29	28	28	2.6	-1.5
				AM Peak	50	58	53	33	28	31	2.9	-1.5	56	58	59	29	28	28	2.7	-1.3
				Midday	54	57	57	31	29	29	3.3	-1.8	54	57	57	30	29	29	2.8	-1.5
				PM Peak	51	58	54	32	29	30	3.2	-1.9	51	57	55	32	29	30	3.6	-2.1
				PM after 7	54	56	57	30	29	29	3.0	-1.6	54	56	57	30	29	29	2.7	-1.4
DCA016	IAD	DCA	IAD (via George Washington Memorial Parkway, I-495, VA-267 and Dulles Access Road)	AM before 5	55	56	54	33	32	33	-1.1	0.8	55	56	55	33	32	33	-0.5	0.3
				AM 5 to 6	56	60	59	32	30	30	2.6	-1.4	57	58	57	32	31	31	0.7	-0.4
				AM Peak	52	60	44	35	30	41	-7.7	6.0	56	59	57	32	31	32	0.6	-0.4
				Midday	54	58	49	34	31	36	-4.2	2.7	54	58	52	33	31	35	-2.4	1.5
				PM Peak	42	59	43	43	30	42	0.9	-0.9	48	59	48	37	31	38	-0.3	0.4
				PM after 7	54	57	53	33	32	34	-0.7	0.5	54	57	54	33	32	34	-0.3	0.2
DCA017	Largo	DCA	Largo (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), VA-400 (Washington Street) and George Washington Memorial Parkway)	AM before 5	44	46	49	32	31	29	4.7	-3.1	44	46	49	32	31	29	5.1	-3.3
				AM 5 to 6	48	50	51	30	28	28	3.3	-1.9	46	48	51	31	30	28	4.2	-2.5
				AM Peak	29	49	32	49	29	45	2.6	-4.1	44	49	49	32	30	29	4.5	-3.0
				Midday	42	46	44	34	31	32	2.3	-1.7	42	47	45	34	31	32	2.4	-1.7
				PM Peak	38	46	39	37	31	37	0.9	-0.8	39	46	40	37	31	36	1.3	-1.1
				PM after 7	44	46	48	33	31	30	3.9	-2.6	44	46	47	33	31	30	3.7	-2.6
DCA018	Lexington Park	DCA	Lexington Park (via MD-235, MD-5, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), VA-400 (Washington Street) and George Washington Memorial Parkway)	AM before 5	53	54	54	73	71	72	1.2	-1.8	52	54	53	74	72	73	1.2	-1.7
				AM 5 to 6	53	59	55	73	65	71	1.9	-2.3	54	57	56	72	68	69	2.0	-2.6
				AM Peak	39	57	40	99	67	96	1.4	-3.6	51	56	52	76	69	74	1.5	-2.2
				Midday	48	54	49	81	72	79	0.6	-1.0	48	53	48	80	72	80	0.3	-0.3
				PM Peak	47	53	48	83	73	81	1.2	-2.0	47	53	48	82	72	81	0.5	-1.0
				PM after 7	50	54	52	77	72	75	1.7	-2.5	50	54	51	77	72	76	1.2	-1.9

DCA019	Manassas	DCA	Manassas (via VA 28, I-66, I-495 (Capital Beltway), US-50, George Washington Memorial Parkway)	AM before 5	42	43	46	51	50	47	3.3	-3.7	42	43	46	51	50	47	3.6	-4.0
				AM 5 to 6	40	47	44	53	46	49	3.2	-3.9	41	46	46	52	47	47	4.4	-5.1
				AM Peak	24	46	31	89	47	69	7.4	-20.7	39	45	42	55	47	51	2.6	-3.6
				Midday	37	43	38	58	49	56	1.6	-2.4	37	44	40	58	49	54	2.9	-4.1
				PM Peak	33	43	36	64	50	60	2.5	-4.4	36	43	39	60	49	55	2.9	-4.5
				PM after 7	41	43	43	53	50	50	2.0	-2.4	41	43	43	53	50	50	2.1	-2.5
DCA020	Manassas	DCA	Manassas (via VA 28, I-66, VA-110, US-1 and VA-233)	AM before 5	45	46	49	45	45	42	3.9	-3.3	45	46	49	46	44	42	4.3	-3.6
				AM 5 to 6	44	50	47	47	41	44	3.5	-3.1	45	49	50	45	41	41	4.1	-3.4
				AM Peak	25	48	35	81	43	58	10.1	-23.1	41	48	47	49	42	44	5.1	-5.0
				Midday	38	47	42	53	44	49	3.7	-4.1	39	47	45	52	43	46	5.7	-6.3
				PM Peak	33	46	37	61	44	55	4.1	-6.6	36	47	42	56	43	49	5.6	-7.1
				PM after 7	44	46	47	47	44	43	3.8	-3.4	43	47	47	47	44	44	4.1	-3.7
DCA021	National Harbor	DCA	National Harbor (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), VA-400 (Washington Street), George Washington Memorial Parkway)	AM before 5	36	36	39	12	12	11	3.6	-1.1	35	36	38	12	12	11	3.1	-1.0
				AM 5 to 6	41	42	41	11	10	11	0.7	-0.2	38	38	41	12	11	11	2.8	-0.8
				AM Peak	23	41	24	19	11	18	1.0	-1.0	36	39	38	12	11	12	2.1	-0.7
				Midday	34	37	34	13	12	13	-0.3	0.1	34	36	33	13	12	13	-1.0	0.4
				PM Peak	31	35	31	14	13	14	-0.3	0.1	33	35	32	13	13	14	-1.1	0.5
				PM after 7	35	35	36	12	12	12	0.7	-0.2	35	36	35	12	12	12	0.1	0.0
DCA022	Rockville	DCA	Rockville (via I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge), and George Washington Memorial Parkway)	AM before 5	50	52	51	35	34	34	1.2	-0.6	50	52	51	35	34	34	1.2	-0.6
				AM 5 to 6	53	57	53	33	31	33	0.9	-0.3	52	55	53	34	32	33	1.5	-1.0
				AM Peak	34	54	40	52	32	44	6.5	-8.0	49	54	51	36	32	34	1.7	-1.1
				Midday	45	53	39	39	33	45	-6.1	6.4	46	53	44	38	33	39	-1.3	1.4
				PM Peak	35	53	34	50	33	52	-0.6	1.2	41	53	38	42	33	46	-3.1	3.4
				PM after 7	49	52	49	36	34	36	0.3	0.0	49	52	49	36	33	36	0.2	0.0

DCA023	Springfield	DCA	Springfield (via VA-644, I-395 (managed), VA-27, George Washington Memorial Parkway)	AM before 5	51	52	53	20	20	20	1.6	-0.7	51	52	54	20	20	19	2.3	-0.9
				AM 5 to 6	53	57	57	20	18	18	4.0	-1.4	52	54	56	20	19	19	3.2	-1.2
				AM Peak	45	57	50	23	18	21	5.4	-2.5	49	55	54	21	19	19	4.6	-1.9
				Midday	42	49	49	25	21	21	7.0	-3.5	47	52	51	22	20	20	3.9	-1.8
				PM Peak	38	45	42	27	23	25	4.2	-2.8	44	49	48	24	20	21	4.7	-2.3
				PM after 7	45	46	50	23	23	21	4.6	-2.2	50	51	52	21	20	20	2.1	-0.9
DCA024	Springfield	DCA	Springfield (via VA-644, I-395 (Conventional), George Washington Memorial Parkway)	AM before 5	50	52	52	19	19	18	2.6	-1.0	49	52	53	20	19	18	3.7	-1.4
				AM 5 to 6	50	55	54	19	17	18	3.7	-1.4	50	55	55	19	18	18	4.4	-1.6
				AM Peak	25	55	29	37	17	33	3.6	-3.9	43	55	51	22	18	19	8.0	-3.6
				Midday	37	53	39	26	18	24	2.8	-2.2	42	53	47	23	18	20	5.0	-2.4
				PM Peak	31	53	37	31	18	26	5.5	-4.6	39	53	43	25	18	23	3.9	-2.3
				PM after 7	47	52	50	20	19	19	2.9	-1.2	48	52	50	20	19	19	2.9	-1.2
DCA025	Suitland Federal Center	DCA	Suitland Federal Center (via Suitland Parkway, South Capitol Street, I-395 (Southwest Freeway), George Washington Memorial Parkway)	AM before 5	41	40	42	17	17	17	1.2	-0.4	40	40	40	17	17	17	0.1	0.0
				AM 5 to 6	39	44	41	18	16	17	1.3	-0.5	41	43	41	17	16	17	0.5	-0.3
				AM Peak	23	43	24	30	16	29	1.1	-1.2	36	43	39	19	16	18	2.7	-1.3
				Midday	34	41	34	20	17	20	0.0	0.1	35	41	35	20	17	20	0.2	0.0
				PM Peak	25	40	25	28	18	28	0.4	-0.2	30	41	29	23	17	24	-0.2	0.4
				PM after 7	38	41	38	18	17	18	0.2	0.0	38	41	37	18	17	19	-0.7	0.4
DCA026	Tysons Corner	DCA	Tysons Corner (via VA 7, VA 123, VA-267 (Dulles Toll Road), Dulles Connector Road, I-66, VA-110, VA-233)	AM before 5	45	45	48	22	22	20	3.3	-1.5	45	45	48	22	22	20	3.6	-1.6
				AM 5 to 6	46	48	50	21	20	19	4.5	-1.9	46	47	50	21	21	19	3.6	-1.6
				AM Peak	39	48	44	25	20	22	4.8	-2.7	45	48	49	22	20	20	4.3	-1.9
				Midday	40	47	45	24	21	22	4.9	-2.7	41	47	46	24	21	21	5.7	-2.8
				PM Peak	25	47	31	39	21	31	6.2	-7.5	34	47	40	29	21	24	5.9	-4.2
				PM after 7	43	45	47	22	22	21	3.2	-1.6	43	46	47	22	21	21	3.3	-1.6

DCA027	Tysons Corner	DCA	Tysons Corner (via VA-7, VA-123, I-495 and George Washington Memorial Parkway)	AM before 5	49	51	46	23	22	24	-3.2	1.5	49	51	47	23	22	23	-1.5	0.7
				AM 5 to 6	51	56	50	22	20	22	-0.7	0.2	51	53	50	22	21	22	-0.6	0.3
				AM Peak	35	54	38	31	21	30	2.1	-1.9	49	54	49	23	21	23	-0.9	0.4
				Midday	43	52	34	26	21	32	-8.2	6.3	44	52	39	25	21	28	-5.0	3.2
				PM Peak	22	51	22	50	22	51	-0.4	1.0	32	52	30	35	21	37	-1.9	2.5
				PM after 7	47	51	40	24	22	27	-7.1	3.7	47	51	44	24	22	25	-2.8	1.6
DCA028	Waldorf	DCA	Waldorf (via MD-228, MD-210, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), VA-400 (Washington Street), George Washington Memorial Parkway)	AM before 5	42	43	47	39	38	35	5.1	-4.3	42	43	47	40	39	35	5.1	-4.3
				AM 5 to 6	44	49	49	38	34	34	4.8	-3.8	45	46	49	37	36	33	4.4	-3.4
				AM Peak	28	47	31	58	35	53	2.7	-5.0	41	45	45	41	36	37	4.7	-4.3
				Midday	38	42	41	44	40	41	3.0	-3.3	37	42	41	44	40	41	3.2	-3.5
				PM Peak	37	41	39	45	41	42	2.6	-3.0	37	41	39	45	41	42	2.4	-2.8
				PM after 7	39	42	43	42	39	38	3.9	-3.9	40	42	43	42	39	38	3.3	-3.3
DCA029	Waldorf	DCA	Waldorf (via US-301, MD-5, I-95/I-495 (Capital Beltway via Wilson Bridge), VA-400 (Washington Street), George Washington Memorial Parkway)	AM before 5	46	48	51	38	36	34	4.9	-3.7	45	48	50	39	37	35	5.4	-4.2
				AM 5 to 6	48	54	52	36	32	34	4.1	-2.9	48	51	53	36	34	33	4.5	-3.2
				AM Peak	29	53	31	60	33	56	2.2	-4.5	44	51	48	40	34	36	4.2	-3.4
				Midday	41	48	44	42	37	40	2.5	-2.4	42	48	43	42	37	41	1.0	-0.9
				PM Peak	41	46	43	43	38	41	2.4	-2.5	41	47	42	43	37	42	0.8	-0.9
				PM after 7	44	47	47	40	37	37	3.8	-3.1	43	47	47	40	37	37	3.7	-3.1
DCA030	Warrenton	DCA	Warrenton (via US-15, US-29, I-66, VA-110, US-1, VA-233)	AM before 5	53	54	55	55	54	53	2.8	-2.9	52	54	56	56	54	52	4.0	-4.0
				AM 5 to 6	53	58	59	55	50	50	5.8	-5.3	54	57	59	54	51	49	5.3	-4.8
				AM Peak	33	56	47	87	52	61	13.8	-25.9	50	56	57	59	52	51	7.5	-7.7
				Midday	46	55	53	63	53	55	6.8	-8.1	46	55	53	63	53	55	6.9	-8.0
				PM Peak	41	55	47	71	53	62	5.6	-8.5	43	56	50	67	52	58	7.1	-9.4
				PM after 7	51	54	56	57	54	52	4.5	-4.5	51	55	56	58	53	52	5.3	-5.4

DCA031	Warrenton	DCA	Warrenton (via US-29, I-66, I-495 (Capital Beltway), US-50, George Washington Memorial Parkway)	AM before 5	49	51	52	61	59	57	2.9	-3.4	49	50	52	61	59	57	3.4	-4.0
				AM 5 to 6	49	54	54	61	55	55	5.4	-6.2	50	54	55	60	56	54	5.0	-5.6
				AM Peak	31	54	41	96	56	72	10.4	-23.8	47	53	52	64	56	58	4.7	-5.9
				Midday	44	51	48	68	59	62	4.0	-5.7	44	51	48	68	58	62	4.3	-6.1
				PM Peak	41	51	44	73	58	67	3.7	-6.1	43	52	46	70	58	65	3.7	-5.7
				PM after 7	48	50	51	63	59	59	3.0	-3.7	47	51	51	63	59	59	3.6	-4.5
DCA032	Woodbridge	DCA	Woodbridge (via US-1, VA-123, I-95 (Conv), I-395 (Conv), George Washington Memorial Parkway)	AM before 5	50	51	54	30	30	28	4.5	-2.6	49	51	55	31	30	28	5.3	-3.0
				AM 5 to 6	48	55	53	32	28	28	5.1	-3.1	50	54	54	30	28	27	4.5	-3.1
				AM Peak	26	55	29	58	28	51	3.3	-7.0	41	54	51	37	28	30	9.4	-7.0
				Midday	38	52	38	40	29	40	-0.2	0.1	41	53	41	37	28	37	0.1	-0.3
				PM Peak	36	52	40	42	29	38	3.9	-4.2	40	53	44	38	28	34	4.2	-3.3
				PM after 7	48	52	51	32	29	29	3.7	-2.3	48	53	51	32	29	30	3.6	-2.3
DCA033	Woodbridge	DCA	Woodbridge (via US-1, VA-123, I-95 (managed), I-395 (managed), VA-110, US-1, VA-233)	AM before 5	52	53	55	33	32	31	2.2	-1.4	53	53	55	32	32	31	2.6	-1.6
				AM 5 to 6	54	58	58	32	30	29	3.9	-2.2	54	55	57	32	31	30	3.0	-1.8
				AM Peak	43	59	50	40	29	34	7.7	-6.2	50	55	54	34	30	31	4.6	-3.1
				Midday	44	47	49	39	36	35	4.4	-3.6	46	52	51	37	32	34	4.2	-3.1
				PM Peak	41	46	43	42	37	40	2.1	-1.9	45	53	49	38	32	35	3.2	-2.6
				PM after 7	48	48	51	36	35	34	3.1	-2.3	51	53	53	33	32	32	2.3	-1.5
DCA034	Bethesda	DCA	Bethesda (via MD-188, MD-190, I-495, GW Parkway, VA-233)	AM before 5	45	46	44	28	27	29	-1.6	1.0	45	46	44	28	27	29	-1.6	1.0
				AM 5 to 6	47	49	46	27	26	27	-0.9	0.5	46	47	45	27	27	28	-1.0	0.4
				AM Peak	36	48	39	34	26	32	2.7	-1.5	45	48	44	28	26	29	-1.0	0.6
				Midday	41	47	35	31	27	36	-6.4	5.6	42	46	39	30	27	32	-2.8	2.2
				PM Peak	30	46	28	41	27	44	-2.1	2.9	37	46	34	33	27	36	-2.8	3.1
				PM after 7	44	46	42	29	27	30	-2.0	1.4	44	46	41	29	27	30	-2.4	1.6

DCA035	Friendship Heights	DCA	Friendship Heights (via Wisconsin Ave, Nebraska Avv NW, Foxhall Rd NW, Canal Rd, US-29, Fort Myer Dr, US-50, GW Parkway,VA-233)	AM before 5	28	28	28	23	22	22	0.8	-0.7	28	28	29	23	22	22	1.0	-0.8
				AM 5 to 6	29	29	31	22	22	20	2.0	-1.4	29	29	30	22	22	21	1.9	-1.4
				AM Peak	25	29	26	25	21	24	1.0	-0.9	28	30	29	23	21	22	0.7	-0.6
				Midday	23	27	23	27	23	27	0.2	-0.3	24	28	24	26	23	26	0.1	-0.2
				PM Peak	19	27	20	34	23	32	0.9	-1.7	22	28	22	28	23	28	0.0	-0.1
				PM after 7	26	28	26	24	23	24	0.0	0.0	27	28	26	24	22	24	-0.5	0.4
IAD001	Baltimore City	IAD	Baltimore City (Downtown) (West Fayette Street and North Charles Street) (via MLK Boulevard, South Russell Street, MD-295, I-95, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)	AM before 5	56	57	58	68	66	65	2.4	-2.8	56	57	60	68	66	64	3.6	-4.1
				AM 5 to 6	56	61	60	67	62	63	3.8	-3.7	57	60	61	66	63	62	3.7	-4.1
				AM Peak	40	60	40	93	63	95	-0.2	1.5	53	60	58	72	63	66	5.0	-6.3
				Midday	50	59	47	75	64	80	-3.1	5.2	51	60	52	75	63	73	1.0	-1.3
				PM Peak	42	59	42	90	64	90	-0.2	0.5	46	60	45	83	63	83	-0.5	0.0
				PM after 7	55	58	58	68	65	65	2.7	-3.1	55	58	58	68	65	65	2.7	-3.2
IAD002	Bethesda	IAD	Bethesda (via MD-188, MD-190, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)	AM before 5	51	51	51	30	30	30	-0.2	0.1	51	51	52	30	30	30	0.9	-0.6
				AM 5 to 6	51	54	54	30	28	28	3.0	-1.5	52	53	54	30	29	28	2.1	-1.2
				AM Peak	49	53	50	31	29	31	1.3	-0.8	51	53	53	30	29	29	2.1	-1.3
				Midday	48	52	41	32	30	37	-6.9	5.3	49	52	48	31	29	32	-0.5	0.3
				PM Peak	39	52	41	39	30	37	1.8	-1.7	45	52	45	34	29	34	0.2	0.1
				PM after 7	49	51	51	31	30	30	1.7	-1.1	50	51	51	31	30	30	1.3	-0.8
IAD003	BWI	IAD	BWI (via I-195, I-95, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)	AM before 5	61	62	62	59	57	57	1.8	-1.7	60	62	63	59	57	56	3.1	-2.9
				AM 5 to 6	61	66	64	58	54	55	3.1	-2.8	61	65	65	58	55	55	3.9	-3.6
				AM Peak	43	65	42	84	55	85	-0.8	1.4	56	65	61	63	55	58	5.0	-5.3
				Midday	56	64	51	64	55	70	-5.0	6.3	55	65	56	65	55	64	1.0	-1.1
				PM Peak	47	65	45	75	55	79	-2.3	4.2	50	66	49	72	54	73	-1.2	1.8

IAD004	BWI	IAD	BWI (via I-195, I-95, MD-200 (ICC), I-370, I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge) and Dulles Airport Access Road)	PM after 7	60	63	63	60	56	57	3.4	-3.2	60	63	63	60	56	57	3.3	-3.2
				AM before 5	60	62	62	70	69	68	1.8	-2.1	60	62	63	71	69	68	2.6	-3.0
				AM 5 to 6	61	66	66	69	65	65	4.6	-4.8	61	64	65	70	66	65	4.0	-4.4
				AM Peak	50	65	54	84	66	79	3.8	-5.6	59	65	65	72	66	66	5.6	-6.3
				Midday	59	64	55	72	67	78	-4.6	6.0	59	65	60	72	66	70	1.7	-2.0
				PM Peak	51	65	52	82	65	82	0.5	-0.6	55	65	56	78	65	76	0.6	-1.0
				PM after 7	60	63	64	71	68	67	3.9	-4.4	60	63	64	71	68	67	3.7	-4.1
IAD005	D.C. - 14th Street and K Street, N.W.	IAD	D.C. - 14th Street and K Street, N.W. (via K St N.W., 14th St N.W., Constitution Avenue, N.W., I-66, Dulles Connector, Dulles Airport Access Road)	AM before 5	48	48	50	35	35	33	2.3	-1.6	48	48	50	35	35	33	2.4	-1.7
				AM 5 to 6	48	49	53	34	34	31	5.4	-3.5	48	49	53	34	34	31	4.6	-3.0
				AM Peak	45	49	47	37	34	35	1.3	-1.1	48	50	51	34	33	32	3.0	-2.1
				Midday	44	49	47	38	33	36	2.6	-2.1	45	50	48	37	33	34	2.9	-2.2
				PM Peak	39	50	43	42	33	39	3.7	-3.5	43	50	46	39	33	36	3.1	-2.6
				PM after 7	47	49	49	35	34	34	1.8	-1.3	47	49	49	35	34	34	1.8	-1.3
IAD006	D.C. - 14th Street and K Street, N.W.	IAD	D.C. - 14th Street and K Street, N.W. (via K St N.W., 14th St N.W., Constitution Avenue, N.W., I-66, George Washington Memorial Parkway, I-495 (Capital Beltway), Dulles Airport Access Road)	AM before 5	47	47	48	36	36	36	0.9	-0.6	47	47	48	37	36	36	1.1	-0.9
				AM 5 to 6	47	49	51	36	35	34	3.9	-2.8	48	48	50	36	35	34	2.4	-1.8
				AM Peak	45	49	39	38	35	44	-6.5	6.3	47	49	49	36	35	35	1.5	-1.3
				Midday	43	49	41	40	35	42	-2.1	2.2	44	50	43	39	35	39	-0.7	0.7
				PM Peak	33	50	34	52	35	50	1.5	-2.2	39	50	40	44	35	43	1.1	-1.1
				PM after 7	46	48	46	37	36	38	-0.6	0.5	46	48	45	37	36	38	-0.5	0.3
IAD007	DCA	IAD	DCA (via VA-233, US-1, VA-110, I-66, Dulles Connector Road, Dulles Airport Access Road)	AM before 5	55	56	55	31	30	30	0.7	-0.5	55	56	56	31	30	30	1.3	-0.7
				AM 5 to 6	55	58	60	30	29	28	4.9	-2.4	55	57	59	30	29	28	3.8	-2.0
				AM Peak	51	58	52	33	29	32	1.0	-0.6	56	57	59	30	29	28	3.3	-1.7
				Midday	54	57	56	31	29	30	2.5	-1.4	54	58	58	31	29	29	3.6	-1.9

				PM Peak	52	58	57	32	29	29	<b>4.9</b>	<b>-2.7</b>	52	58	57	32	29	29	<b>4.9</b>	<b>-2.7</b>
				PM after 7	53	56	56	32	30	30	<b>3.1</b>	<b>-1.8</b>	54	56	57	31	30	29	<b>3.4</b>	<b>-1.9</b>
IAD008	DCA	IAD	DCA (via George Washington Memorial Parkway, I-495 (Capital Beltway), Dulles Airport Access Road)	AM before 5	56	57	55	30	29	31	<b>-1.2</b>	<b>0.7</b>	56	57	55	30	30	30	<b>-0.5</b>	<b>0.2</b>
				AM 5 to 6	57	61	59	29	28	28	<b>2.6</b>	<b>-1.2</b>	57	59	58	29	28	29	<b>0.4</b>	<b>-0.2</b>
				AM Peak	52	61	44	32	28	38	<b>-8.5</b>	<b>6.3</b>	56	60	57	30	28	29	<b>0.4</b>	<b>-0.2</b>
				Midday	54	59	50	31	28	34	<b>-4.6</b>	<b>2.8</b>	55	59	52	31	29	32	<b>-2.9</b>	<b>1.7</b>
				PM Peak	42	60	42	40	28	40	<b>0.6</b>	<b>-0.4</b>	49	59	48	34	28	35	<b>-0.9</b>	<b>0.7</b>
				PM after 7	55	57	54	31	29	31	<b>-1.0</b>	<b>0.6</b>	55	57	54	31	29	31	<b>-0.5</b>	<b>0.3</b>
IAD009	Fort Belvoir	IAD	Fort Belvoir (VA-286, Dulles Airport Access Road)	AM before 5	48	49	51	43	42	40	<b>2.9</b>	<b>-2.4</b>	48	49	51	43	42	40	<b>2.8</b>	<b>-2.4</b>
				AM 5 to 6	48	52	53	43	39	39	<b>5.1</b>	<b>-4.2</b>	48	51	53	43	40	39	<b>4.5</b>	<b>-3.7</b>
				AM Peak	41	51	46	50	40	45	<b>4.6</b>	<b>-4.9</b>	46	51	51	45	40	40	<b>5.7</b>	<b>-4.9</b>
				Midday	44	49	47	47	42	43	<b>3.5</b>	<b>-3.5</b>	44	49	48	46	41	42	<b>4.1</b>	<b>-3.9</b>
				PM Peak	40	48	43	51	43	47	<b>3.6</b>	<b>-4.2</b>	43	49	48	48	42	42	<b>5.5</b>	<b>-5.5</b>
				PM after 7	46	49	50	44	41	41	<b>4.2</b>	<b>-3.6</b>	47	49	51	44	41	40	<b>4.1</b>	<b>-3.5</b>
IAD010	Fort Meade	IAD	Fort Meade (MD-32, I-95, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)	AM before 5	57	59	59	62	60	60	<b>1.6</b>	<b>-1.8</b>	57	59	60	62	60	59	<b>2.9</b>	<b>-3.0</b>
				AM 5 to 6	58	63	61	61	56	58	<b>3.4</b>	<b>-3.2</b>	58	62	62	61	58	58	<b>3.4</b>	<b>-3.5</b>
				AM Peak	40	62	39	88	58	89	<b>-0.8</b>	<b>0.8</b>	54	62	58	65	57	61	<b>3.6</b>	<b>-4.6</b>
				Midday	52	61	48	69	58	73	<b>-3.5</b>	<b>4.6</b>	50	61	52	70	58	68	<b>1.8</b>	<b>-2.4</b>
				PM Peak	42	61	41	85	58	86	<b>-0.7</b>	<b>1.6</b>	46	62	45	78	58	79	<b>-0.9</b>	<b>1.4</b>
				PM after 7	56	60	59	63	59	60	<b>2.9</b>	<b>-3.4</b>	56	60	58	64	59	61	<b>2.7</b>	<b>-3.0</b>
IAD011	Frederick	IAD	Frederick (via I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge), and Dulles Airport Access Road)	AM before 5	57	59	61	57	55	54	<b>3.1</b>	<b>-3.0</b>	58	59	62	57	55	53	<b>3.8</b>	<b>-3.5</b>
				AM 5 to 6	56	64	62	58	51	52	<b>6.6</b>	<b>-6.0</b>	59	63	64	56	52	51	<b>5.3</b>	<b>-4.7</b>
				AM Peak	38	62	42	85	53	77	<b>3.9</b>	<b>-8.4</b>	55	63	61	60	52	53	<b>6.8</b>	<b>-6.9</b>
				Midday	54	61	51	60	54	64	<b>-3.4</b>	<b>4.0</b>	55	62	56	60	53	58	<b>1.6</b>	<b>-1.6</b>



				PM Peak	49	62	52	67	53	63	3.4	-4.3	51	62	52	64	53	62	1.5	-2.1
				PM after 7	57	60	62	58	55	53	5.1	-4.7	57	60	61	58	54	53	4.8	-4.5
IAD012	Frederick	IAD	Frederick (via US-15 and VA-267 (Dulles Greenway))	AM before 5	54	55	55	52	51	51	1.4	-1.4	53	55	55	53	52	51	2.0	-2.0
				AM 5 to 6	55	58	58	51	48	49	2.2	-2.0	55	57	58	51	49	48	3.0	-2.9
				AM Peak	42	57	47	67	49	59	5.0	-8.4	53	57	56	53	49	50	3.0	-2.9
				Midday	52	55	55	54	51	51	3.1	-3.0	52	56	55	54	50	51	2.3	-2.3
				PM Peak	50	56	51	56	51	55	0.5	-0.4	50	56	52	55	50	54	1.8	-1.4
				PM after 7	53	55	55	53	51	51	2.5	-2.4	53	55	55	53	51	51	2.8	-2.7
IAD013	Fredericksburg	IAD	Fredericksburg (via US-1 Business, US-1, US-17 Business, I-95 (conv), I-495 (conv), Dulles Airport Access Road)	AM before 5	56	58	59	73	70	69	3.2	-4.0	56	59	60	73	69	68	4.2	-5.1
				AM 5 to 6	54	62	58	76	66	70	4.2	-5.4	56	61	61	73	67	66	5.0	-6.2
				AM Peak	39	61	38	103	67	106	-1.3	2.4	51	61	58	80	67	70	7.4	-10.4
				Midday	50	59	46	81	69	88	-4.1	7.0	49	60	46	83	68	88	-2.6	4.5
				PM Peak	51	60	47	80	68	86	-3.7	6.1	47	60	46	86	68	89	-1.5	2.4
				PM after 7	55	59	58	74	69	70	2.7	-3.4	55	59	56	75	69	72	1.7	-2.5
IAD014	Friendship Heights	IAD	Friendship Heights (via Western Avenue, MD-190, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)	AM before 5	51	52	53	31	30	30	1.9	-1.2	51	52	53	31	30	29	2.6	-1.6
				AM 5 to 6	52	55	56	30	29	28	4.1	-2.3	53	55	56	30	29	28	3.2	-1.7
				AM Peak	48	54	50	33	29	31	2.1	-1.3	51	54	55	31	29	29	3.8	-2.2
				Midday	47	53	42	33	30	38	-5.9	4.7	48	53	49	33	30	32	0.2	-0.2
				PM Peak	39	53	41	40	30	38	2.5	-2.4	45	53	46	35	29	34	1.2	-0.8
				PM after 7	49	52	53	32	30	30	3.2	-2.0	50	52	53	32	30	30	2.8	-1.7
IAD015	Front Royal	IAD	Front Royal (via US-340/US-522, I-66, VA-28, Dulles Airport Access Road)	AM before 5	58	60	61	62	61	60	2.4	-2.5	58	60	62	63	61	59	3.9	-4.0
				AM 5 to 6	60	65	64	60	56	57	3.7	-3.4	60	65	64	61	56	57	4.4	-4.2
				AM Peak	46	64	57	79	57	63	11.2	-15.2	57	64	63	64	57	58	5.6	-5.8
				Midday	57	62	61	64	59	59	4.1	-4.1	58	63	62	63	58	59	4.2	-4.2

				PM Peak	57	62	61	64	58	60	4.6	-4.8	57	63	62	64	58	59	4.9	-5.0
				PM after 7	58	61	62	63	60	59	4.3	-4.2	58	62	63	63	59	58	4.8	-4.8
IAD016	Gaithersburg	IAD	Gaithersburg (via I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge) and Dulles Airport Access Road)	AM before 5	60	62	61	36	35	36	0.9	-0.1	60	62	62	36	35	35	1.8	-0.7
				AM 5 to 6	62	67	65	34	32	33	2.7	-1.1	61	65	64	35	33	33	3.1	-1.4
				AM Peak	42	64	48	50	34	45	6.3	-5.5	59	65	63	36	33	34	4.5	-2.3
				Midday	58	63	48	37	34	45	-9.9	7.9	57	65	57	37	33	38	-0.1	0.5
				PM Peak	48	65	50	44	33	43	1.7	-1.0	52	65	52	41	33	41	-0.1	0.5
				PM after 7	59	62	62	36	34	35	3.2	-1.5	59	62	62	36	34	35	3.0	-1.4
IAD017	George Mason University	IAD	George Mason University (Fairfax Campus) (via VA-620, VA-286 and Dulles Airport Access Road)	AM before 5	51	51	53	20	19	19	2.8	-1.0	50	51	53	20	19	19	2.9	-1.1
				AM 5 to 6	51	56	56	20	18	18	5.5	-2.0	52	55	55	19	18	18	3.5	-1.3
				AM Peak	45	53	49	22	19	20	4.2	-1.9	49	53	54	20	19	18	4.7	-1.8
				Midday	47	51	50	21	20	20	3.6	-1.6	48	51	51	21	19	19	3.4	-1.4
				PM Peak	44	49	49	23	20	20	5.2	-2.4	46	50	51	22	20	20	4.6	-2.0
				PM after 7	49	51	53	20	19	19	3.8	-1.5	49	51	53	20	19	19	3.7	-1.5
IAD018	Gettysburg, Pennsylvania	IAD	Gettysburg, Pennsylvania (via US-30, US-15, VA-267 (Dulles Greenway))	AM before 5	56	57	57	74	72	73	1.4	-1.3	55	57	58	75	73	72	2.1	-2.3
				AM 5 to 6	59	62	61	71	67	68	2.5	-2.5	58	60	61	72	69	68	3.3	-3.6
				AM Peak	46	61	52	89	68	80	5.3	-9.4	56	60	60	74	68	70	3.7	-4.3
				Midday	55	58	58	76	71	72	3.3	-3.8	55	59	58	75	70	72	2.9	-3.4
				PM Peak	52	59	54	79	70	77	1.8	-2.1	53	59	56	77	70	74	2.6	-3.2
				PM after 7	55	57	58	76	72	72	3.2	-3.7	55	58	58	76	72	71	3.6	-4.3
IAD019	Greenbelt	IAD	Greenbelt (via I-95/I-495 and I-495 (Capital Beltway via American Legion Bridge), and Dulles Airport Access Road)	AM before 5	58	60	60	41	40	40	1.8	-1.3	58	60	61	41	40	39	3.2	-2.2
				AM 5 to 6	57	64	62	41	37	38	5.4	-2.7	59	63	63	40	38	38	3.9	-2.7
				AM Peak	39	62	37	61	38	64	-1.5	3.1	55	63	59	43	38	41	3.2	-2.6
				Midday	52	62	46	46	39	52	-5.9	6.0	52	63	51	46	38	47	-0.8	1.0

				PM Peak	43	62	43	56	38	56	-0.4	-0.1	47	63	45	51	38	53	-1.8	2.2
				PM after 7	57	61	61	42	39	39	3.8	-2.7	57	61	60	42	39	40	3.4	-2.4
IAD020	Hagerstown	IAD	Hagerstown (via US-40 (Dual Highway), I-70, US-15, VA-267 (Dulles Greenway))	AM before 5	54	56	56	75	73	73	1.4	-2.0	54	56	56	76	73	72	2.5	-3.3
				AM 5 to 6	57	60	59	71	67	69	1.9	-2.4	57	59	59	72	69	69	2.7	-3.4
				AM Peak	45	59	49	91	69	83	4.4	-8.3	55	59	58	75	69	70	3.2	-4.3
				Midday	52	57	55	78	72	74	2.9	-4.1	53	58	55	77	71	74	2.4	-3.3
				PM Peak	52	57	54	78	71	76	1.5	-2.2	52	58	54	78	71	75	2.5	-3.4
				PM after 7	53	56	56	77	73	73	2.8	-3.9	53	57	56	77	72	72	3.3	-4.6
IAD021	Largo	IAD	Largo (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (conventional) and Dulles Airport Access Road)	AM before 5	56	59	60	57	54	53	3.6	-3.3	56	59	61	57	54	53	4.5	-4.2
				AM 5 to 6	58	63	63	54	51	51	4.5	-3.8	58	62	63	55	52	51	4.7	-4.1
				AM Peak	41	61	39	78	52	80	-1.5	2.5	55	61	60	57	52	52	5.0	-5.0
				Midday	54	60	50	59	53	63	-4.0	4.3	55	61	55	58	53	58	0.3	-0.3
				PM Peak	45	60	44	71	53	73	-1.3	2.1	49	61	51	65	52	62	2.1	-2.5
				PM after 7	56	59	58	57	54	55	2.6	-2.6	56	60	60	57	53	53	4.4	-4.2
IAD022	Leesburg	IAD	Leesburg (via US-15/VA-7, VA-267 (Dulles Greenway))	AM before 5	53	54	53	20	20	20	0.0	0.0	53	54	54	20	20	20	0.4	-0.2
				AM 5 to 6	56	57	57	19	19	19	1.7	-0.5	55	53	56	19	20	19	0.9	-0.3
				AM Peak	53	57	56	20	19	19	3.0	-1.1	54	56	56	20	19	19	2.0	-0.7
				Midday	52	54	54	21	20	20	2.4	-0.9	52	55	55	20	20	20	2.1	-0.8
				PM Peak	50	53	51	21	20	21	0.8	-0.4	51	54	54	21	20	20	3.1	-1.1
				PM after 7	52	54	54	20	20	20	1.6	-0.6	52	54	54	20	20	20	1.8	-0.7
IAD023	Lexington Park	IAD	Lexington Park (via MD-235, MD-5, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (conventional),	AM before 5	57	59	58	100	96	98	1.1	-1.7	57	59	58	###	97	98	1.5	-2.7
				AM 5 to 6	57	64	60	100	90	95	2.9	-4.8	58	62	61	98	92	94	2.7	-4.4
				AM Peak	43	62	42	132	92	134	-0.9	2.1	56	61	58	###	93	99	2.3	-4.1
				Midday	53	59	51	108	96	112	-2.1	4.1	53	60	53	###	96	###	-0.4	0.9

			Dulles Airport Access Road)	PM Peak	48	60	49	119	96	118	0.7	-1.3	51	60	51	###	95	###	0.6	-1.2
				PM after 7	55	59	57	104	96	101	1.7	-3.1	55	60	57	###	96	###	1.6	-2.9
IAD024	Manassas	IAD	Manassas (via VA-28 and Dulles Airport Access Rd)	AM before 5	42	42	45	27	26	24	3.8	-2.2	42	42	45	27	26	25	3.6	-2.1
				AM 5 to 6	38	46	41	29	24	27	2.7	-1.8	41	46	44	27	24	25	3.2	-1.9
				AM Peak	23	44	29	47	25	38	6.4	-9.9	38	44	41	30	25	27	3.3	-2.4
				Midday	38	43	38	29	26	29	0.0	0.0	38	43	41	29	26	27	2.7	-1.9
				PM Peak	36	42	40	31	27	28	4.0	-3.1	37	42	40	30	26	27	3.8	-2.8
				PM after 7	40	43	43	27	26	26	2.8	-1.8	41	43	43	27	26	26	2.2	-1.4
IAD025	Manassas Airport	IAD	Manassas Airport (via VA-28, VA-234 (Prince William Parkway), I-66, VA-28, Dulles Airport Access Road)	AM before 5	51	52	55	32	31	29	3.9	-2.3	51	52	56	32	31	29	5.1	-3.0
				AM 5 to 6	47	55	55	34	29	29	8.1	-5.0	48	54	57	33	30	28	8.5	-5.1
				AM Peak	30	52	43	53	31	37	12.9	-16.2	44	53	54	37	30	29	10.6	-7.4
				Midday	47	52	52	34	31	31	4.8	-3.2	49	54	54	33	30	30	5.1	-3.1
				PM Peak	44	53	50	36	30	32	5.6	-4.2	46	54	54	35	30	30	7.2	-4.7
				PM after 7	50	52	56	32	31	29	5.6	-3.3	50	52	55	32	31	29	5.3	-3.1
IAD026	Manassas Airport	IAD	Manassas Airport (via VA-28, Godwin Drive, VA-234 Business, I-66, VA-28, Dulles Airport Access Road)	AM before 5	45	45	49	33	32	30	4.8	-3.3	44	45	50	33	32	29	5.5	-3.7
				AM 5 to 6	42	48	48	35	31	30	6.6	-4.9	43	48	50	34	31	29	6.8	-4.8
				AM Peak	31	47	41	47	31	36	10.1	-11.8	40	47	49	37	31	30	9.0	-7.0
				Midday	41	45	46	36	32	32	5.4	-4.3	42	46	47	35	32	31	5.5	-4.1
				PM Peak	39	46	46	38	32	32	7.1	-5.9	40	46	47	36	32	31	6.7	-5.3
				PM after 7	43	46	48	34	32	30	5.1	-3.6	43	45	48	34	32	30	4.6	-3.3
IAD027	National Harbor	IAD	National Harbor (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (conventional) and Dulles	AM before 5	59	61	62	36	35	35	2.8	-1.7	59	61	62	36	35	34	3.2	-1.9
				AM 5 to 6	62	65	65	35	33	33	3.8	-2.0	61	64	65	35	33	33	3.8	-2.0
				AM Peak	46	64	44	46	33	49	-2.1	2.4	58	64	63	37	33	34	4.3	-2.8
				Midday	58	63	54	37	34	40	-4.5	3.0	59	64	59	36	34	36	0.2	-0.1

			Airport Access Road)	PM Peak	52	64	49	41	34	43	-2.5	2.2	55	64	56	39	33	38	0.7	-0.3
				PM after 7	59	62	61	36	35	35	2.6	-1.6	59	62	62	36	34	35	3.1	-1.9
IAD028	National Harbor	IAD	National Harbor (via I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (express) and Dulles Airport Access Road)	AM before 5	60	63	62	36	35	35	1.1	-0.7	61	63	63	36	35	35	1.9	-1.1
				AM 5 to 6	63	66	67	34	33	32	3.7	-1.9	63	65	66	35	33	33	3.3	-1.8
				AM Peak	52	65	55	41	33	39	2.8	-2.0	61	65	65	36	33	33	4.6	-2.5
				Midday	60	64	64	36	34	34	3.6	-2.1	61	65	64	36	34	34	3.7	-2.0
				PM Peak	55	64	61	39	34	35	5.8	-3.7	58	65	63	37	33	35	4.6	-2.8
				PM after 7	60	63	63	36	35	34	3.8	-2.2	60	63	63	36	34	34	3.4	-1.9
IAD029	Rockville	IAD	Rockville (via I-270, I-270 Spur, I-495 (Capital Beltway via American Legion Bridge) and Dulles Airport Access Road)	AM before 5	54	56	56	37	36	36	2.7	-1.7	54	56	57	37	36	35	3.3	-2.0
				AM 5 to 6	56	60	60	36	33	33	4.4	-2.5	56	59	60	36	34	33	4.6	-2.6
				AM Peak	42	58	48	48	35	42	5.6	-5.4	53	58	59	38	35	34	5.9	-3.7
				Midday	51	56	44	40	36	46	-6.8	6.0	51	58	52	39	35	39	0.8	-0.4
				PM Peak	42	57	45	47	35	45	2.4	-2.1	46	58	47	44	35	43	1.2	-0.9
				PM after 7	53	56	57	38	36	35	4.0	-2.5	53	56	57	38	36	36	3.6	-2.2
IAD030	Springfield	IAD	Springfield (via VA-613, I-95/I-495 (Capital Beltway), I-495 (conventional), Dulles Airport Access Road)	AM before 5	55	57	57	33	32	32	1.8	-1.0	55	57	58	33	31	31	2.7	-1.5
				AM 5 to 6	56	60	61	32	30	29	4.7	-2.4	56	59	61	32	30	30	4.0	-2.2
				AM Peak	42	59	41	43	30	44	-0.8	1.1	54	59	58	33	30	31	4.1	-2.3
				Midday	53	58	49	34	31	37	-4.7	3.2	54	59	54	33	31	33	0.2	-0.2
				PM Peak	50	58	46	36	31	39	-3.7	2.8	51	59	53	35	31	34	1.1	-0.8
				PM after 7	54	57	56	33	31	32	2.1	-1.3	54	57	57	33	31	32	2.9	-1.7
IAD031	Springfield	IAD	Springfield (via VA-613, I-95/I-495 (Capital Beltway), I-495 (express), Dulles Airport Access Road)	AM before 5	56	58	57	34	32	33	0.9	-0.6	57	59	58	33	32	32	1.6	-1.0
				AM 5 to 6	58	61	62	33	31	30	4.8	-2.5	58	61	62	33	31	31	3.3	-1.8
				AM Peak	47	61	50	40	31	37	3.3	-2.9	57	61	61	34	31	31	4.3	-2.4
				Midday	55	59	58	34	32	32	3.2	-1.9	56	60	59	34	32	32	3.5	-2.0

				PM Peak	51	59	55	37	32	34	4.2	-2.9	53	60	58	36	32	33	4.8	-3.1
				PM after 7	55	58	59	34	32	32	3.3	-1.9	56	58	59	34	32	32	3.2	-1.9
IAD032	Suitland Federal Center	IAD	Suitland Federal Center (via Suitland Parkway, South Capitol Street, I-395 (Southwest Freeway), VA-110, I-66, Dulles Connector Road, Dulles Airport Access Road)	AM before 5	51	52	53	42	42	41	1.1	-0.8	51	52	53	42	42	41	1.4	-1.0
				AM 5 to 6	51	55	55	42	39	39	3.6	-2.7	52	54	55	41	40	39	3.1	-2.3
				AM Peak	38	55	39	56	39	55	0.9	-1.3	50	54	53	43	40	40	3.6	-2.9
				Midday	47	53	49	45	41	44	1.4	-1.2	48	53	50	45	41	43	1.9	-1.6
				PM Peak	40	52	43	54	41	50	3.3	-4.1	45	53	46	48	40	46	1.9	-2.0
				PM after 7	49	52	51	44	41	42	2.3	-1.9	50	52	52	43	41	42	2.0	-1.6
IAD033	Towson	IAD	Towson (via I-695 (Baltimore Beltway), I-95, I-495 (Capital Beltway via American Legion Bridge), Dulles Airport Access Road)	AM before 5	59	62	62	78	75	74	2.9	-3.7	59	62	63	79	75	74	3.9	-5.0
				AM 5 to 6	60	66	64	76	71	72	3.7	-4.4	61	65	65	76	72	72	4.0	-4.8
				AM Peak	39	64	41	117	73	113	1.4	-3.4	54	64	62	85	72	75	7.1	-10.2
				Midday	53	63	51	87	74	91	-2.3	3.8	52	64	54	88	73	85	1.9	-3.0
				PM Peak	43	63	42	109	74	108	-0.4	-0.7	48	64	48	97	72	96	-0.1	-1.0
				PM after 7	58	63	62	79	74	75	3.5	-4.5	58	63	62	80	74	75	3.6	-4.7
IAD034	Tysons Corner	IAD	Tysons Corner (via VA 123, VA 7, and Dulles Airport Access Road)	AM before 5	51	52	54	20	19	18	3.3	-1.2	51	52	54	19	19	18	3.5	-1.2
				AM 5 to 6	50	54	57	20	18	17	7.1	-2.3	52	54	57	19	18	17	4.5	-1.6
				AM Peak	49	53	55	20	19	18	5.6	-2.0	51	53	56	20	19	18	5.1	-1.8
				Midday	49	51	52	20	19	19	3.7	-1.4	49	52	53	20	19	19	4.0	-1.5
				PM Peak	43	51	51	23	19	19	8.5	-3.8	47	52	53	21	19	19	5.5	-2.2
				PM after 7	50	51	54	20	20	18	4.0	-1.5	50	51	53	20	19	19	3.3	-1.2
IAD035	Waldorf	IAD	Waldorf (via MD-228, MD-210, I-95/I-495 (Capital Beltway via Woodrow Wilson Bridge), I-495 (conventional),	AM before 5	53	55	57	64	62	60	4.1	-4.6	53	55	58	65	62	60	4.5	-5.1
				AM 5 to 6	54	60	60	63	57	57	6.2	-6.0	56	58	61	62	59	57	4.9	-5.0
				AM Peak	39	58	39	86	59	88	-0.8	2.0	51	57	57	67	60	60	5.7	-6.8
				Midday	50	55	50	69	63	68	0.5	-0.8	50	55	52	69	62	66	2.7	-3.7

			Dulles Airport Access Road)	PM Peak	47	54	47	74	63	73	0.7	-1.1	48	55	51	71	62	68	2.5	-3.7
				PM after 7	51	55	55	67	63	63	3.8	-4.7	51	55	55	67	63	62	4.0	-4.9
IAD036	Waldorf	IAD	Waldorf (via US-301, MD-5, I-95/I-495 (Capital Beltway via Wilson Bridge), I-495 (conventional), Dulles Airport Access Road)	AM before 5	56	59	60	69	66	65	3.9	-4.5	56	59	60	70	66	64	4.8	-5.5
				AM 5 to 6	57	64	62	68	60	62	5.8	-6.2	58	62	63	66	62	61	5.0	-5.3
				AM Peak	38	62	38	101	62	102	-0.6	1.4	54	62	59	72	62	65	5.6	-6.8
				Midday	53	59	53	73	65	73	-0.3	0.3	53	60	54	72	64	72	0.5	-0.6
				PM Peak	49	60	50	77	65	77	0.7	-0.6	51	60	53	75	64	73	1.5	-2.0
				PM after 7	54	59	58	71	65	66	4.0	-4.8	54	59	58	71	65	66	4.3	-5.3
IAD037	Warrenton	IAD	Warrenton (via US-29, I-66, VA-28 and Dulles Airport Access Road)	AM before 5	54	55	56	38	37	36	2.4	-1.9	53	55	56	38	37	36	3.2	-2.5
				AM 5 to 6	52	59	59	39	34	34	6.3	-4.4	55	59	60	37	34	34	5.0	-3.3
				AM Peak	35	57	47	57	36	43	11.5	-14.0	50	57	58	41	36	35	7.6	-5.7
				Midday	50	55	54	41	37	37	4.5	-3.7	50	56	54	41	36	37	4.4	-3.6
				PM Peak	49	56	55	41	37	37	5.5	-4.5	49	56	54	41	36	37	5.1	-4.2
				PM after 7	52	55	57	39	37	36	4.5	-3.4	52	56	57	39	37	36	4.9	-3.7
IAD038	Winchester	IAD	Winchester (via VA-7, VA-267 (Dulles Greenway))	AM before 5	55	56	56	57	56	56	1.1	-1.1	55	56	56	57	56	56	1.2	-1.2
				AM 5 to 6	58	61	62	54	51	51	3.6	-3.0	58	60	61	54	52	52	2.9	-2.6
				AM Peak	48	60	54	64	52	57	6.3	-6.7	55	59	59	57	53	53	4.0	-3.8
				Midday	53	57	57	59	55	55	3.9	-4.0	54	57	58	58	55	54	4.2	-4.2
				PM Peak	53	57	57	59	55	55	4.2	-4.3	53	57	58	59	55	54	4.9	-5.0
				PM after 7	54	56	58	58	56	54	3.5	-3.5	54	56	58	58	55	54	3.6	-3.7
IAD039	Woodbridge	IAD	Woodbridge (via US-1, VA-123, I-95 (conventional), I-495 (conventional) and Dulles	AM before 5	53	55	57	45	43	42	3.4	-2.8	54	55	57	45	43	42	3.9	-3.1
				AM 5 to 6	53	58	58	45	41	41	5.3	-4.0	54	57	59	44	41	40	5.0	-3.9
				AM Peak	37	58	37	65	41	65	0.0	0.2	49	58	56	49	41	43	6.6	-6.0
				Midday	50	56	44	48	43	54	-6.0	6.3	49	57	48	48	42	50	-1.3	1.2

			Airport Access Road)	PM Peak	48	56	46	49	43	52	-2.3	2.3	48	57	49	49	42	48	0.6	-0.8
				PM after 7	52	56	55	45	43	43	2.7	-2.2	52	56	55	46	43	43	3.1	-2.6
IAD040	Woodbridge	IAD	Woodbridge (via US-1, VA-123, I-95 (express), I-495 (express) and Dulles Airport Access Road)	AM before 5	58	59	58	43	43	43	0.1	-0.2	58	59	59	43	43	42	0.8	-0.6
				AM 5 to 6	59	62	63	42	40	40	4.0	-2.7	58	61	61	43	41	40	3.0	-2.2
				AM Peak	47	62	54	53	40	46	7.4	-7.1	56	61	60	44	41	41	3.9	-2.9
				Midday	54	57	57	46	44	44	2.6	-2.1	55	59	58	46	42	43	3.5	-2.8
				PM Peak	53	55	54	47	46	46	1.5	-1.3	53	59	57	47	42	44	4.0	-3.3
				PM after 7	56	57	57	44	44	44	0.8	-0.7	57	59	59	44	43	42	2.1	-1.6



## Maps of Travel Time Index - 2019

## Maps of Travel Time Index - 2023

## Travel Time Index Values to BWI

Figure 46. 2023 Spring Weekday, 6 AM-9 AM Travel Time Index Values to BWI

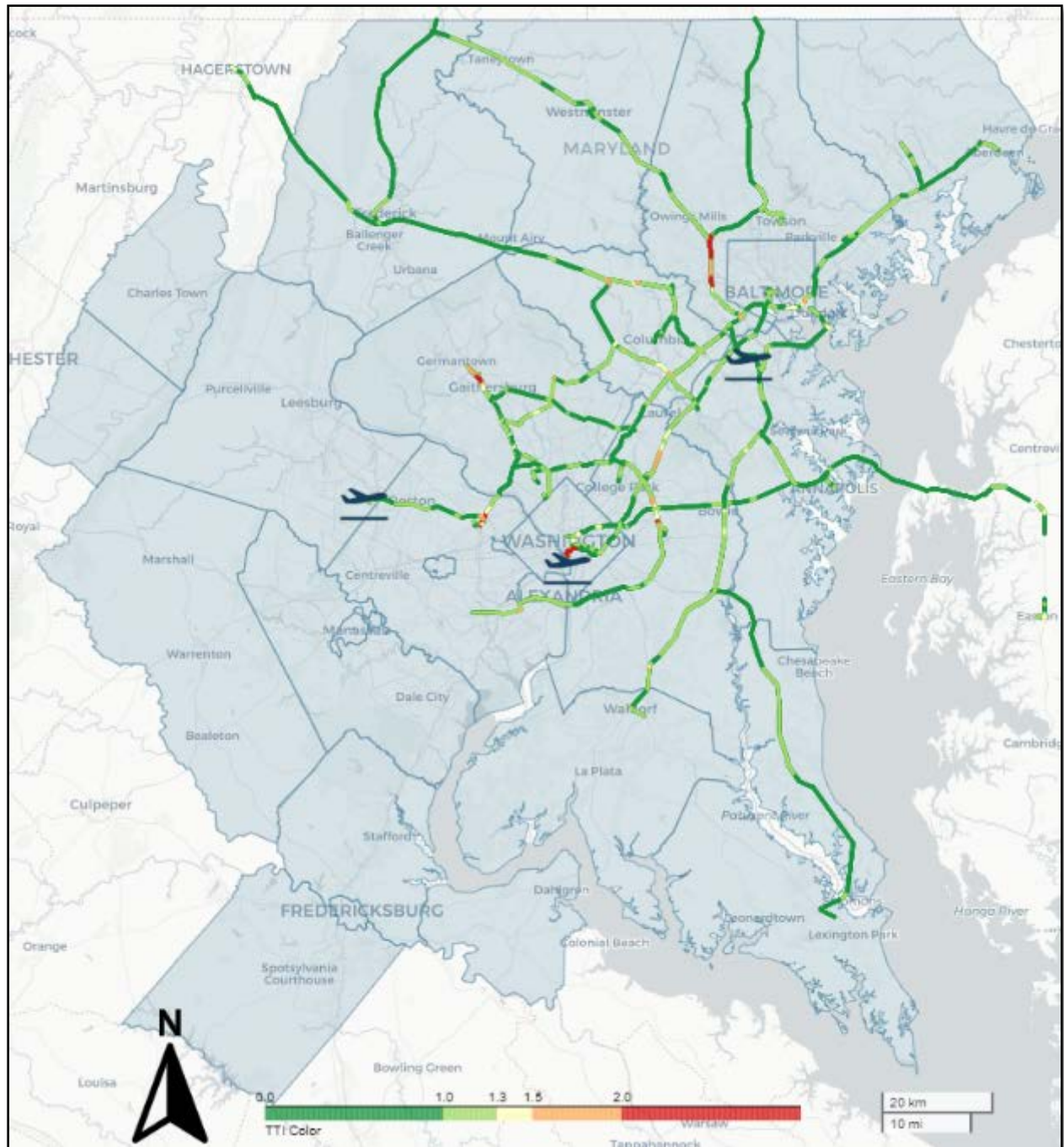


Figure 47. 2023 Spring Weekday, 9 AM-3 PM Travel Time Index Values to BWI

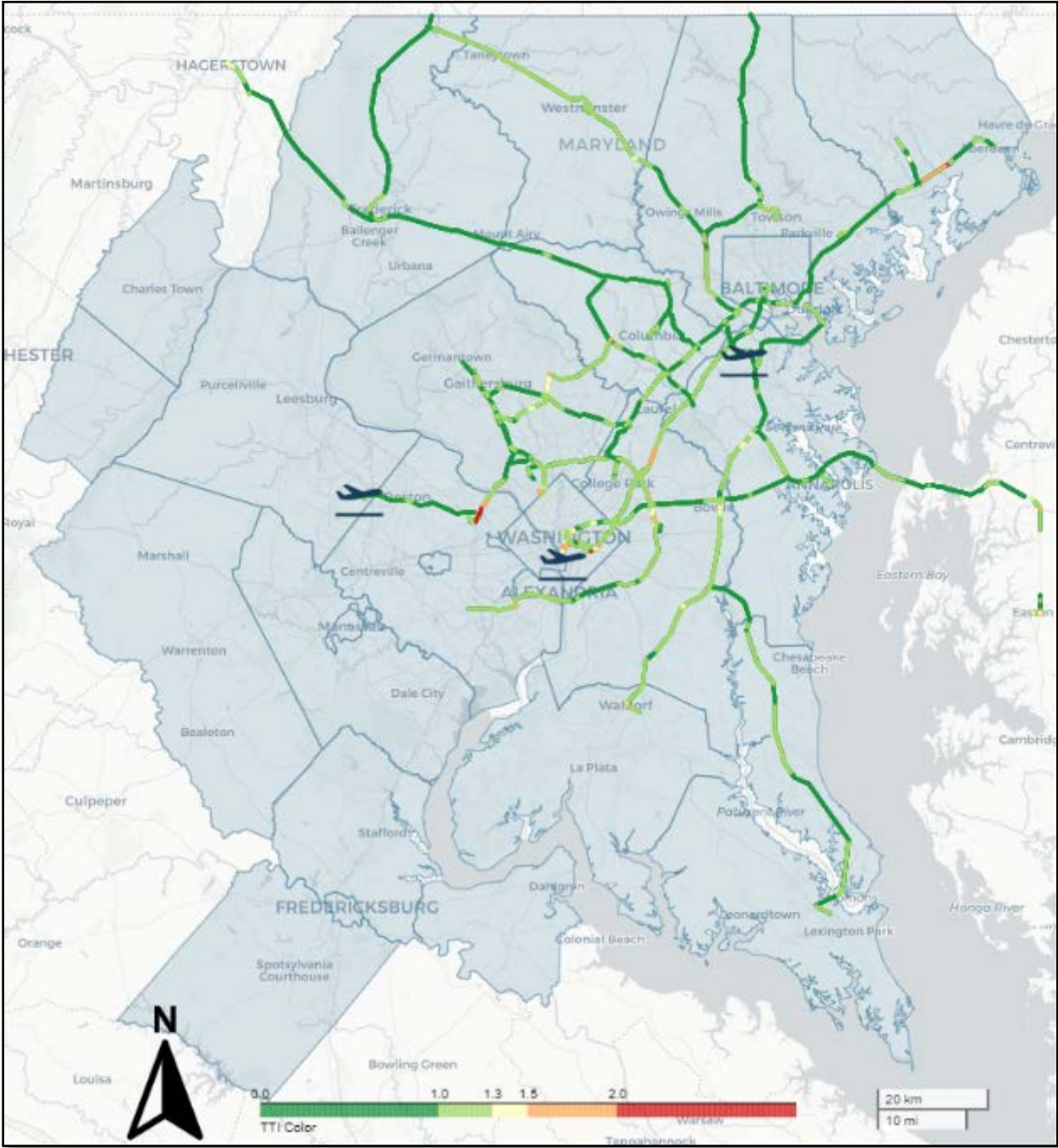
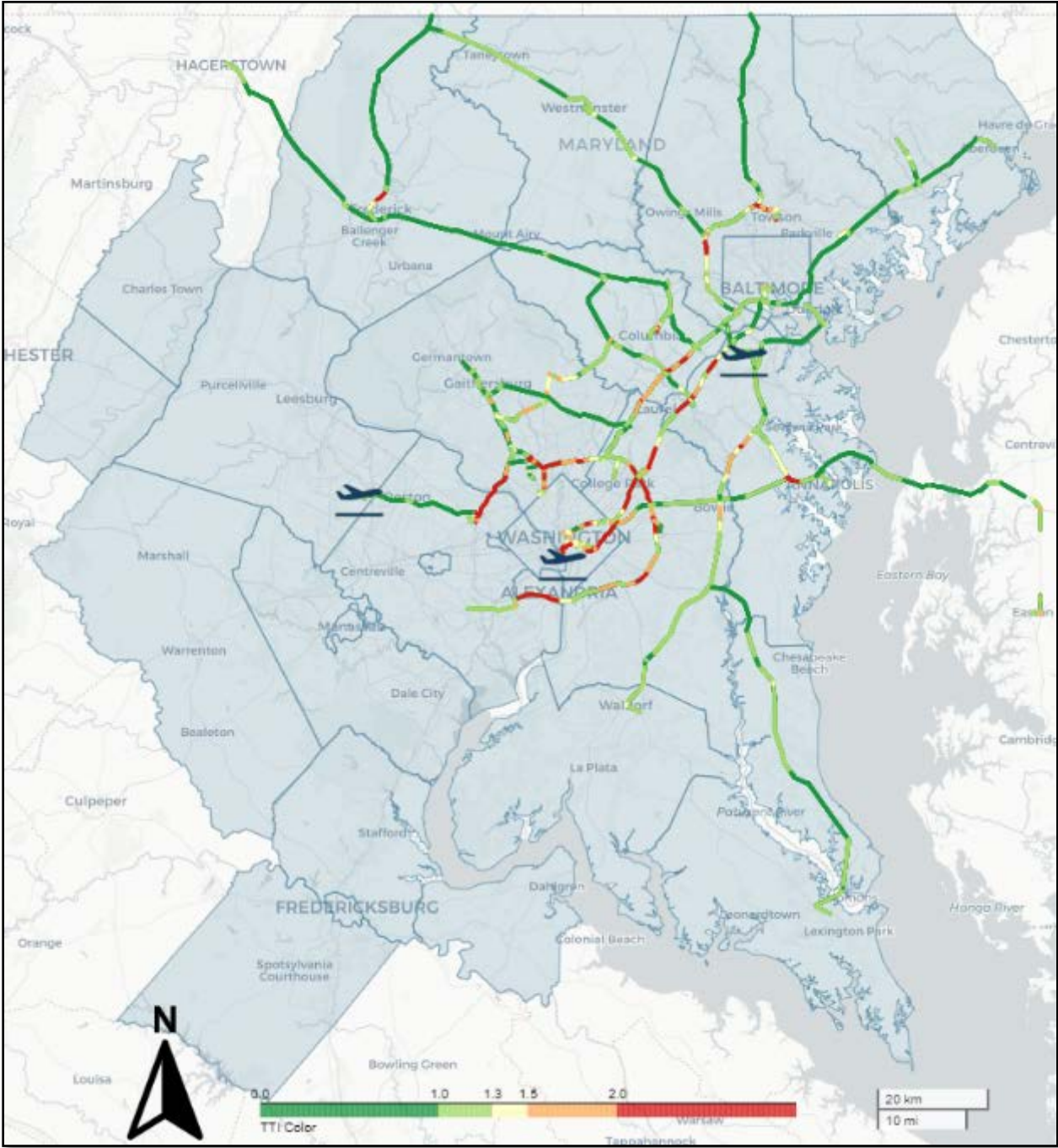
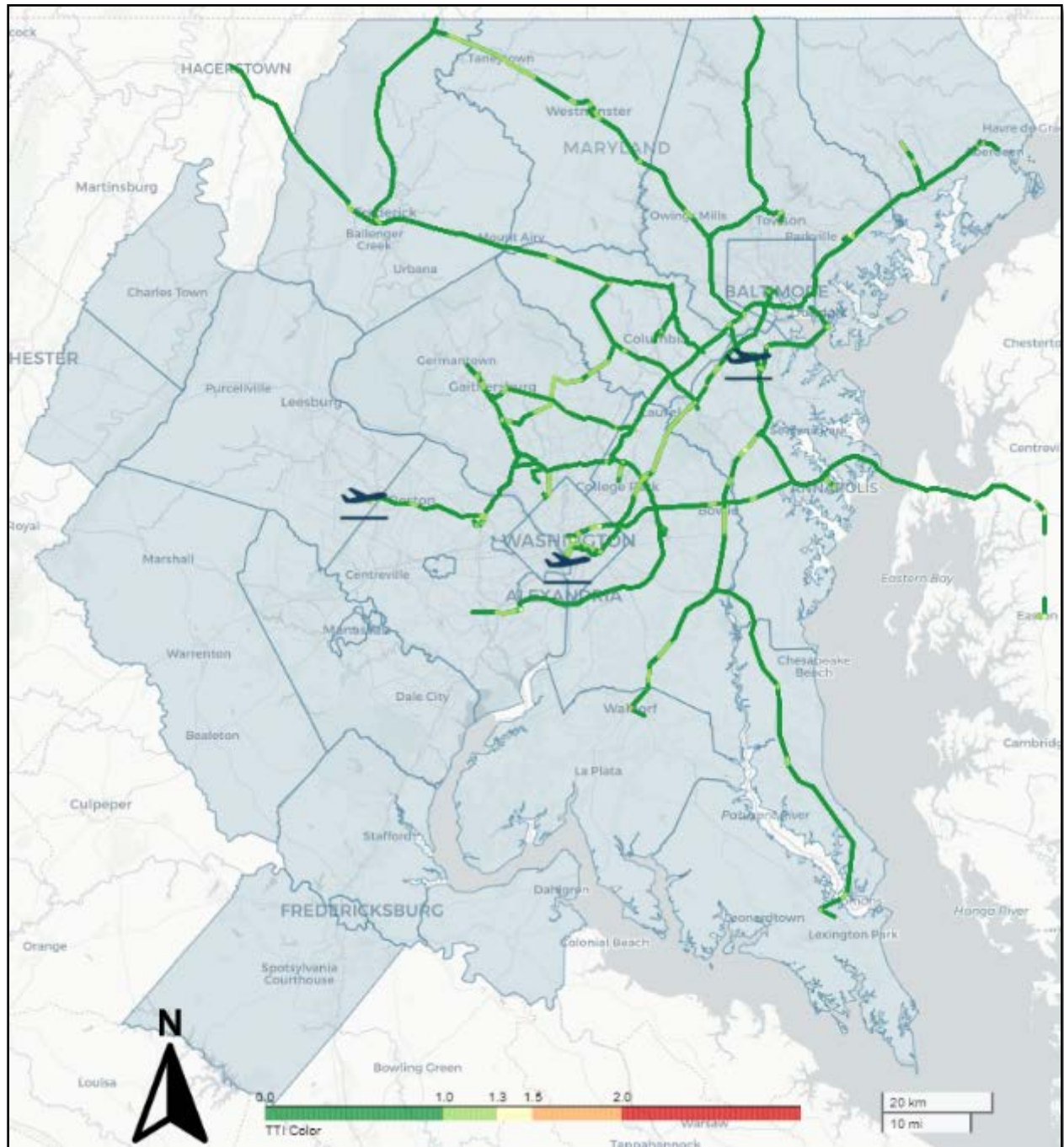




Figure 48. 2023 Spring Weekday, 3 PM-7 PM Travel Time Index Values to BWI



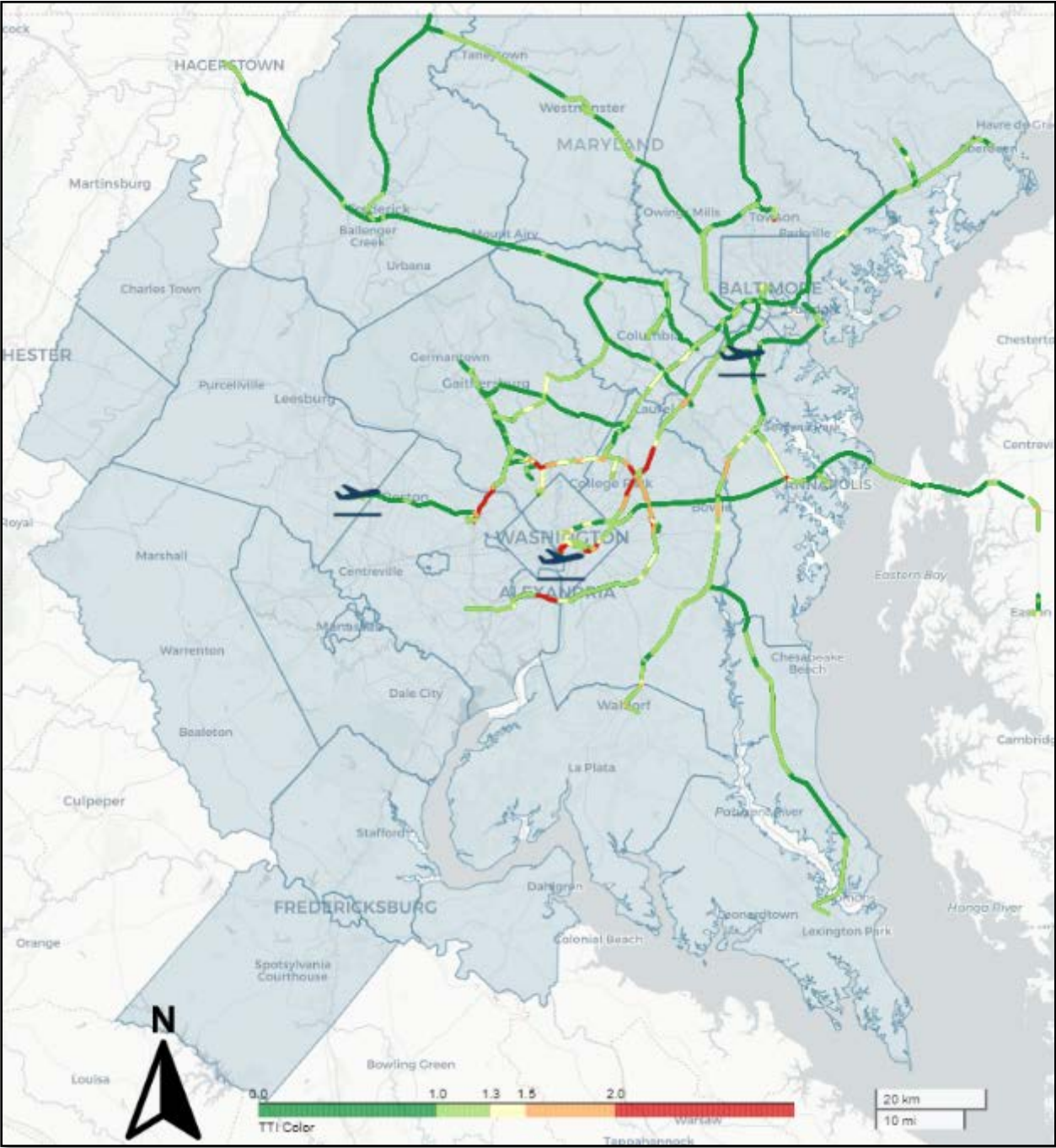
**Figure 49. 2023 Spring Weekend, 6 AM-9 AM Travel Time Index Values to BWI**





[illegible]

Figure 51. 2023 Spring Weekend, 3 PM-7 PM Travel Time Index Values to BWI





## Travel Time Index Values to DCA

Figure 52. 2023 Spring Weekday, 6 AM-9 AM Travel Time Index Values to DCA

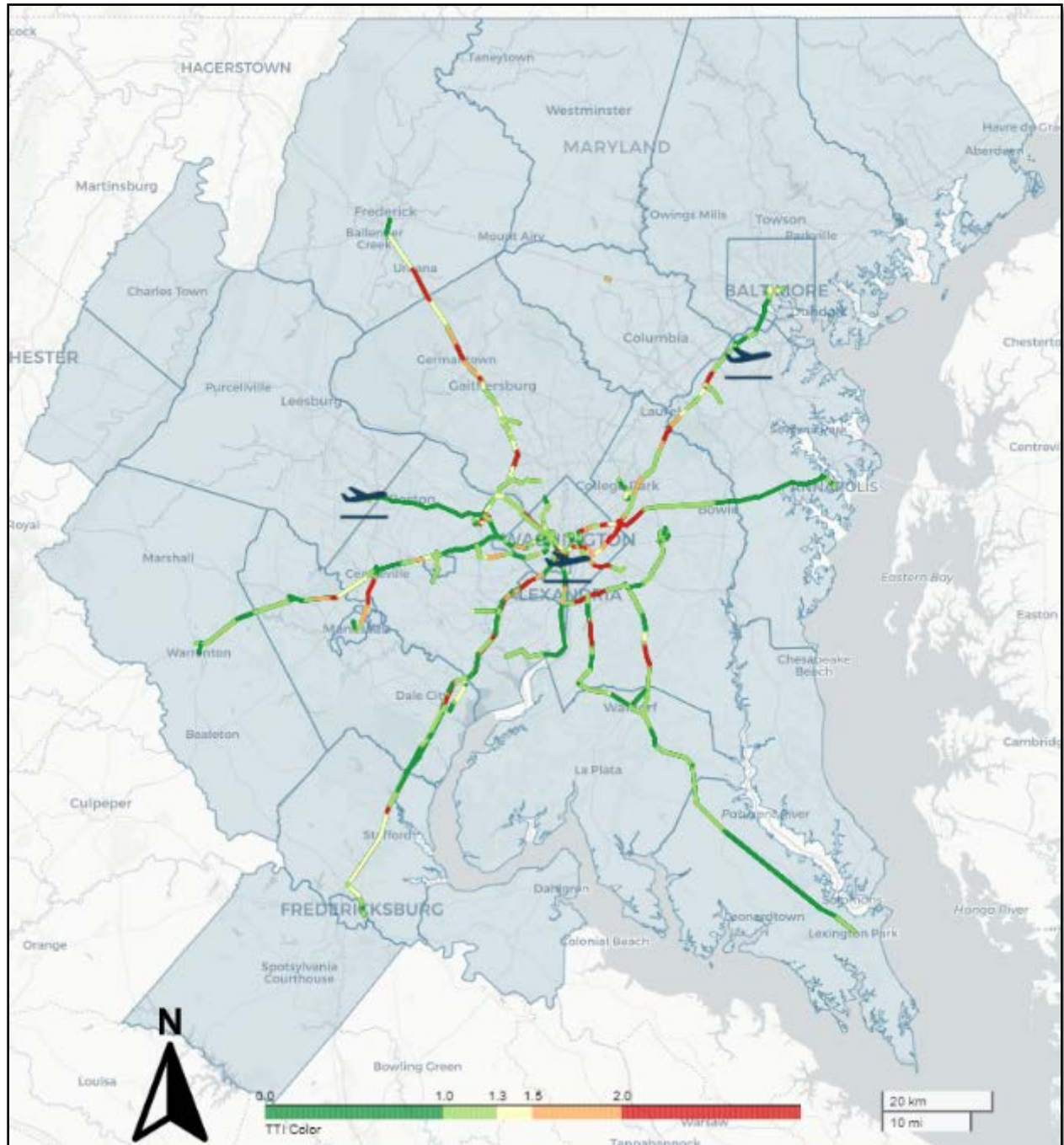


Figure 53. 2023 Spring Weekday, 9 AM-3 PM Travel Time Index Values to DCA

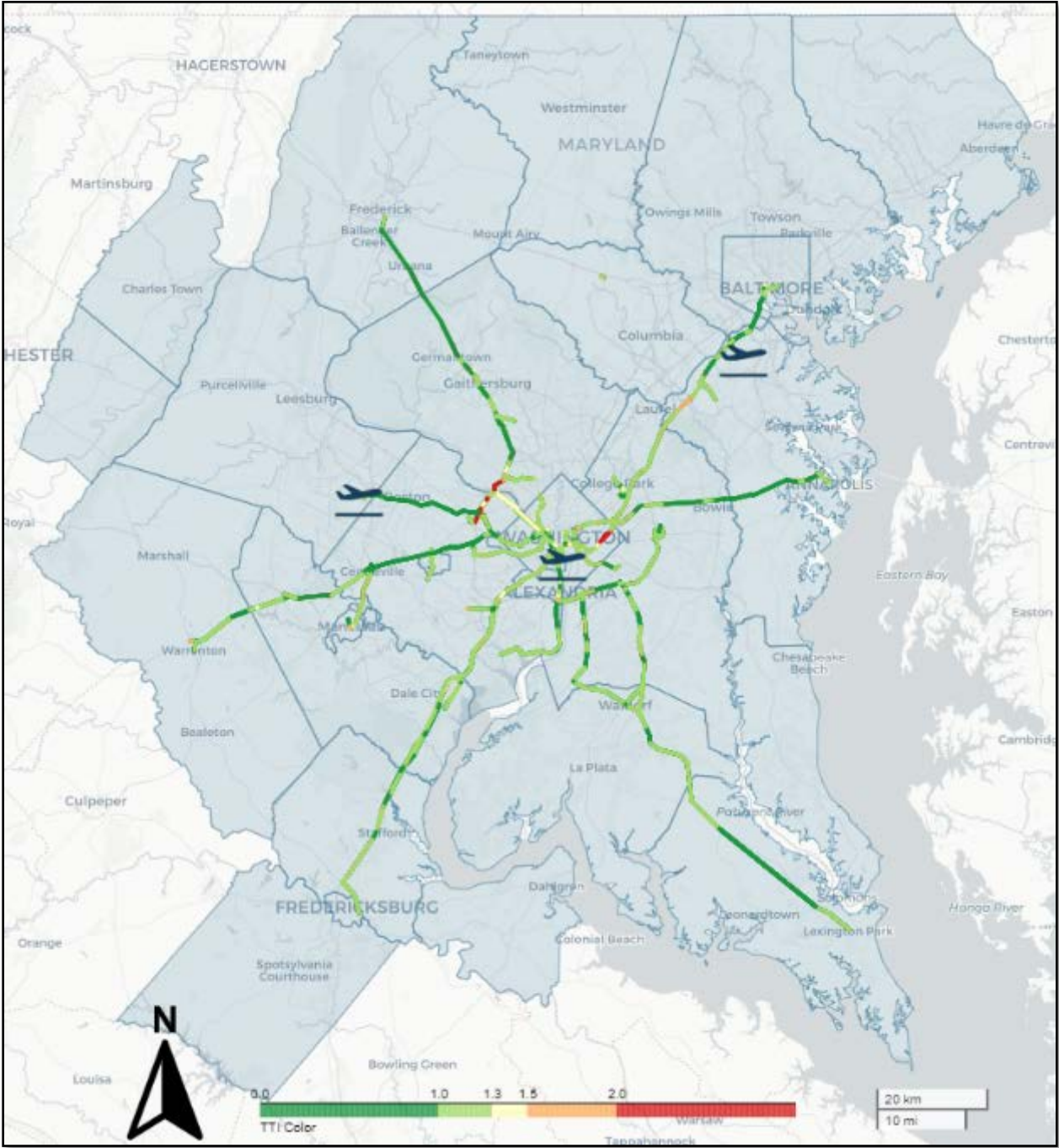


Figure 54. 2023 Spring Weekday, 3 PM-7 PM Travel Time Index Values to DCA

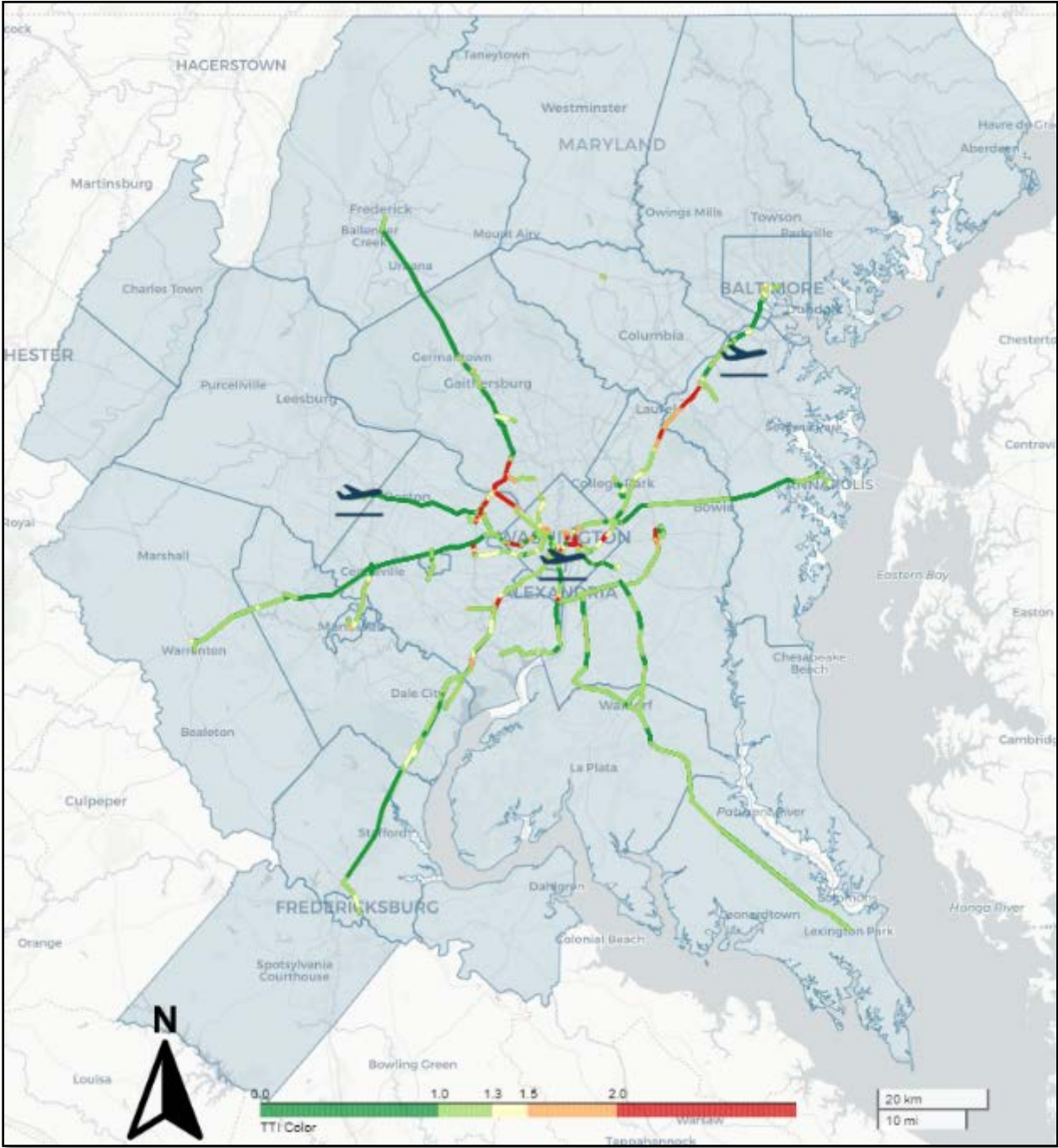




Figure 55. 2023 Spring Weekend, 6 AM-9 AM Travel Time Index Values to DCA

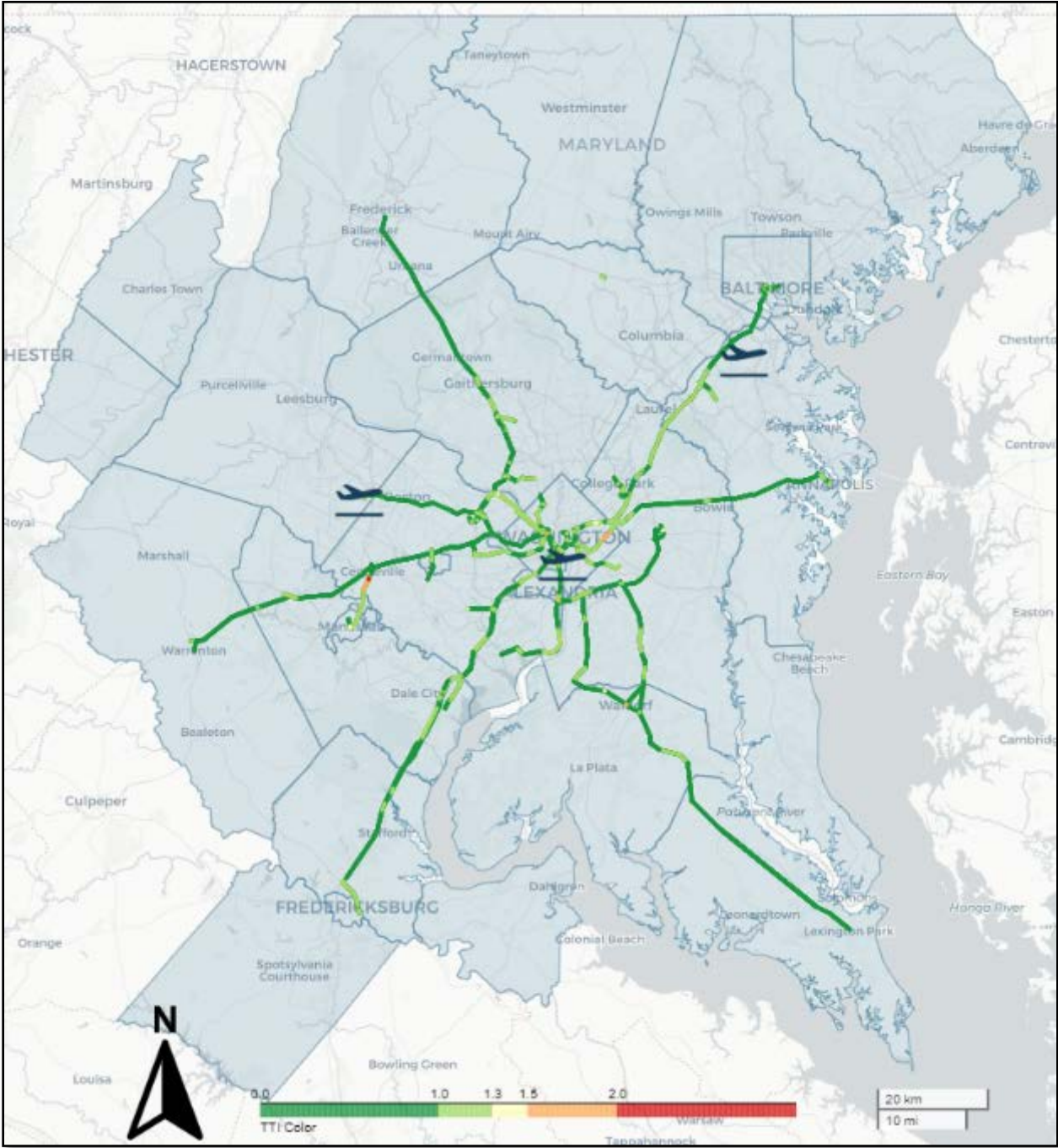
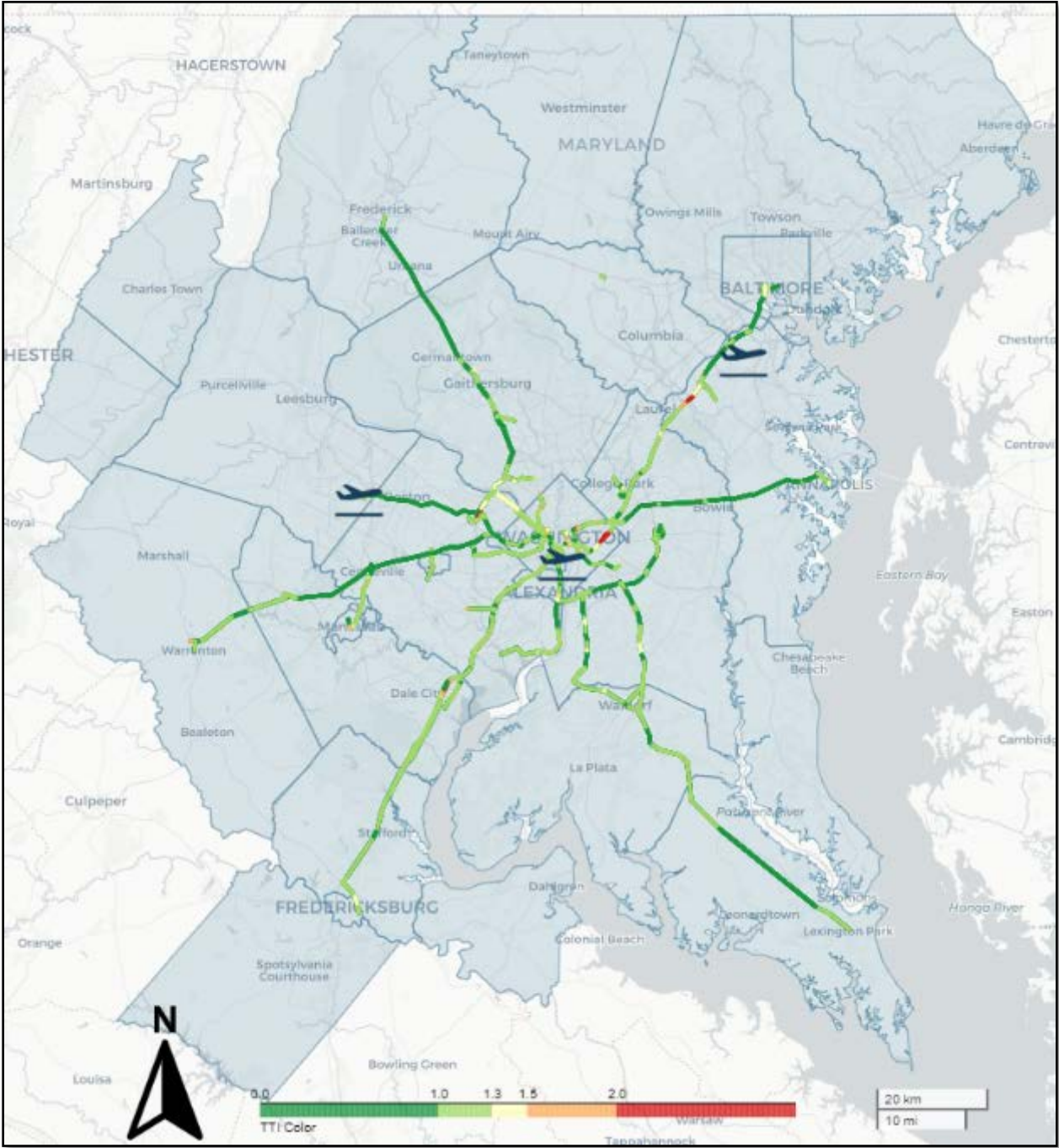
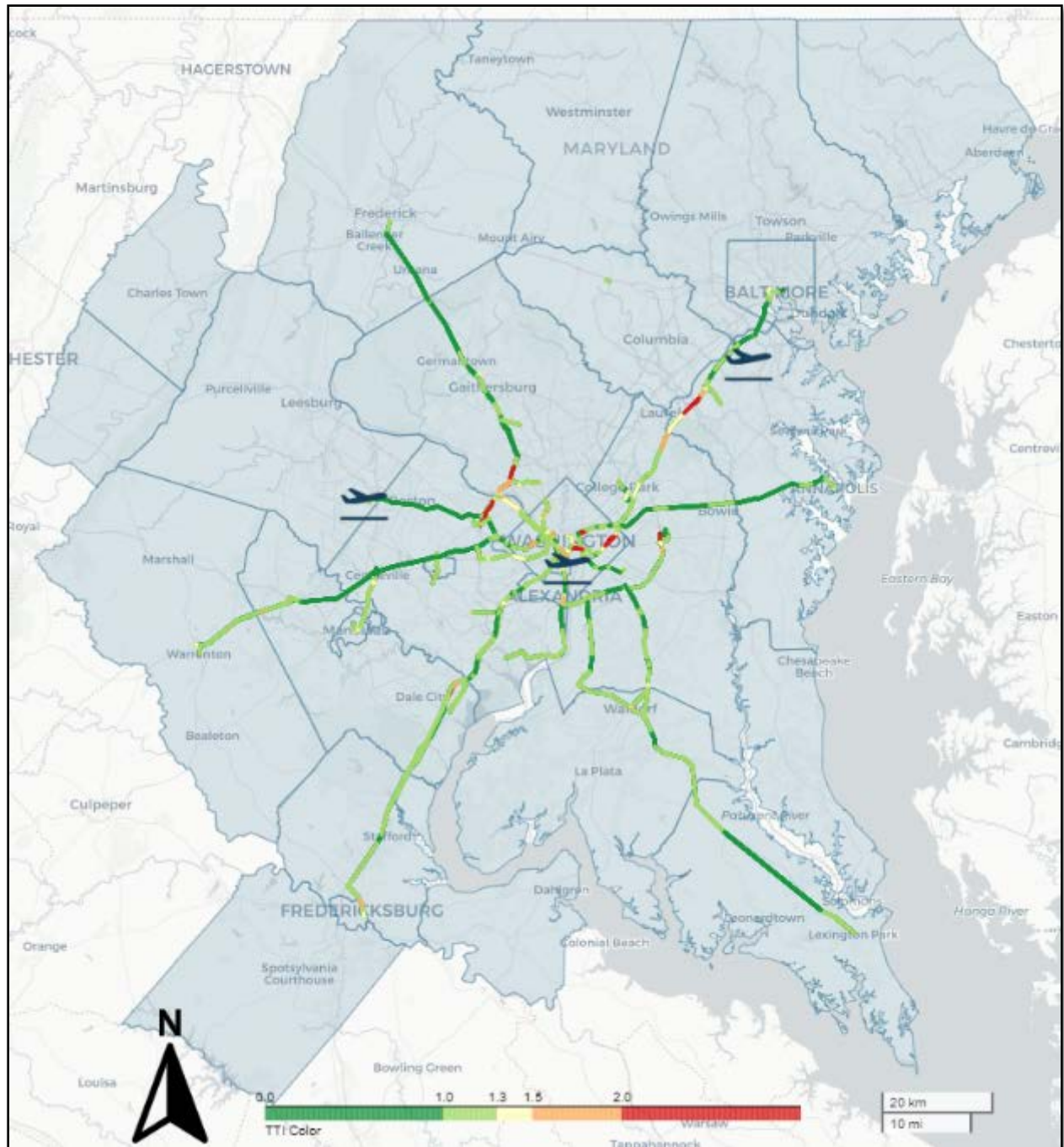


Figure 56. 2023 Spring Weekend, 9 AM-3 PM Travel Time Index Values to DCA



**Figure 57. 2023 Spring Weekend, 3 PM-7 PM Travel Time Index Values to DCA**





## Travel Time Index Values to IAD

Figure 58. 2023 Spring Weekday, 6 AM-9 AM Travel Time Index Values to IAD

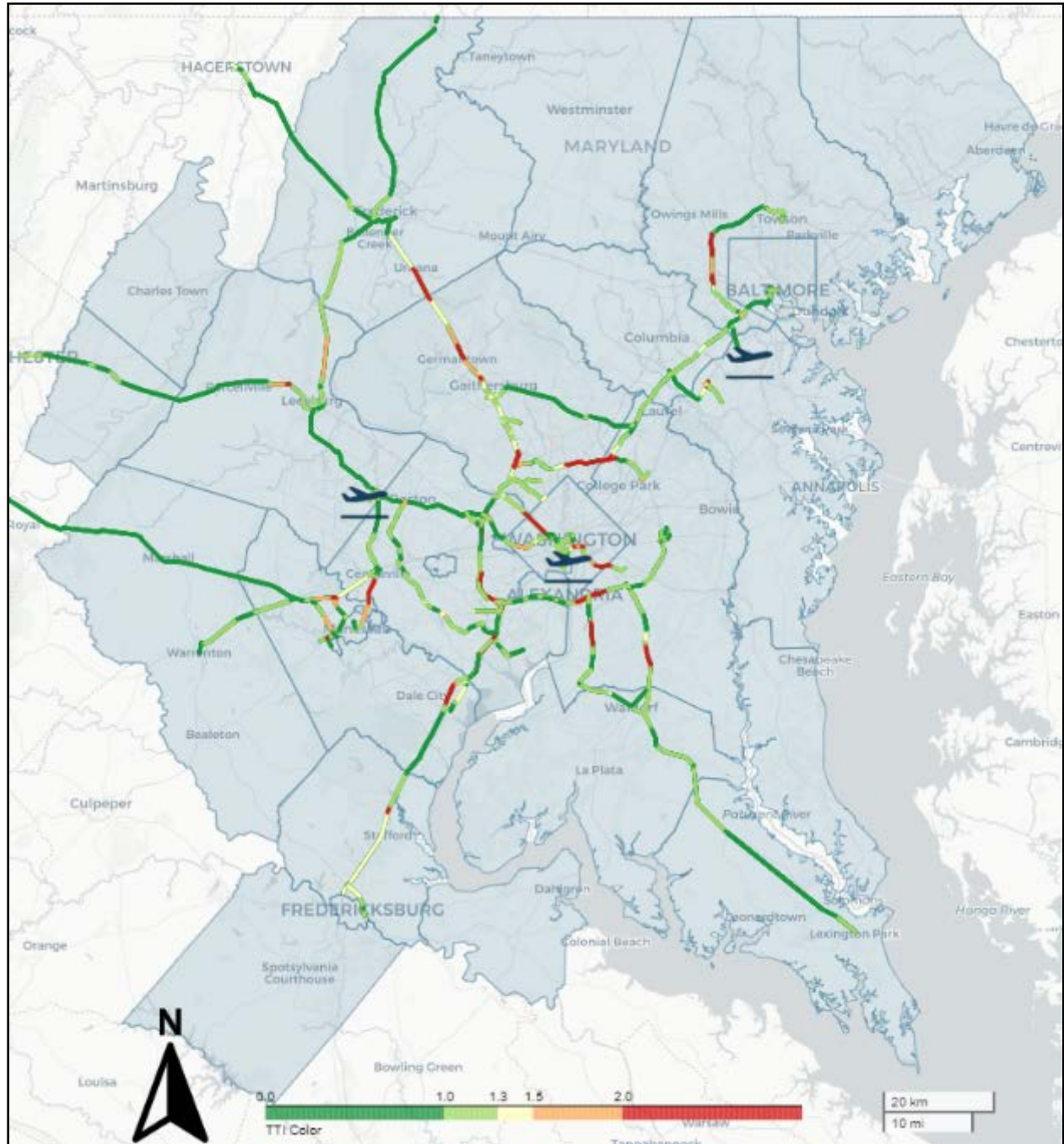
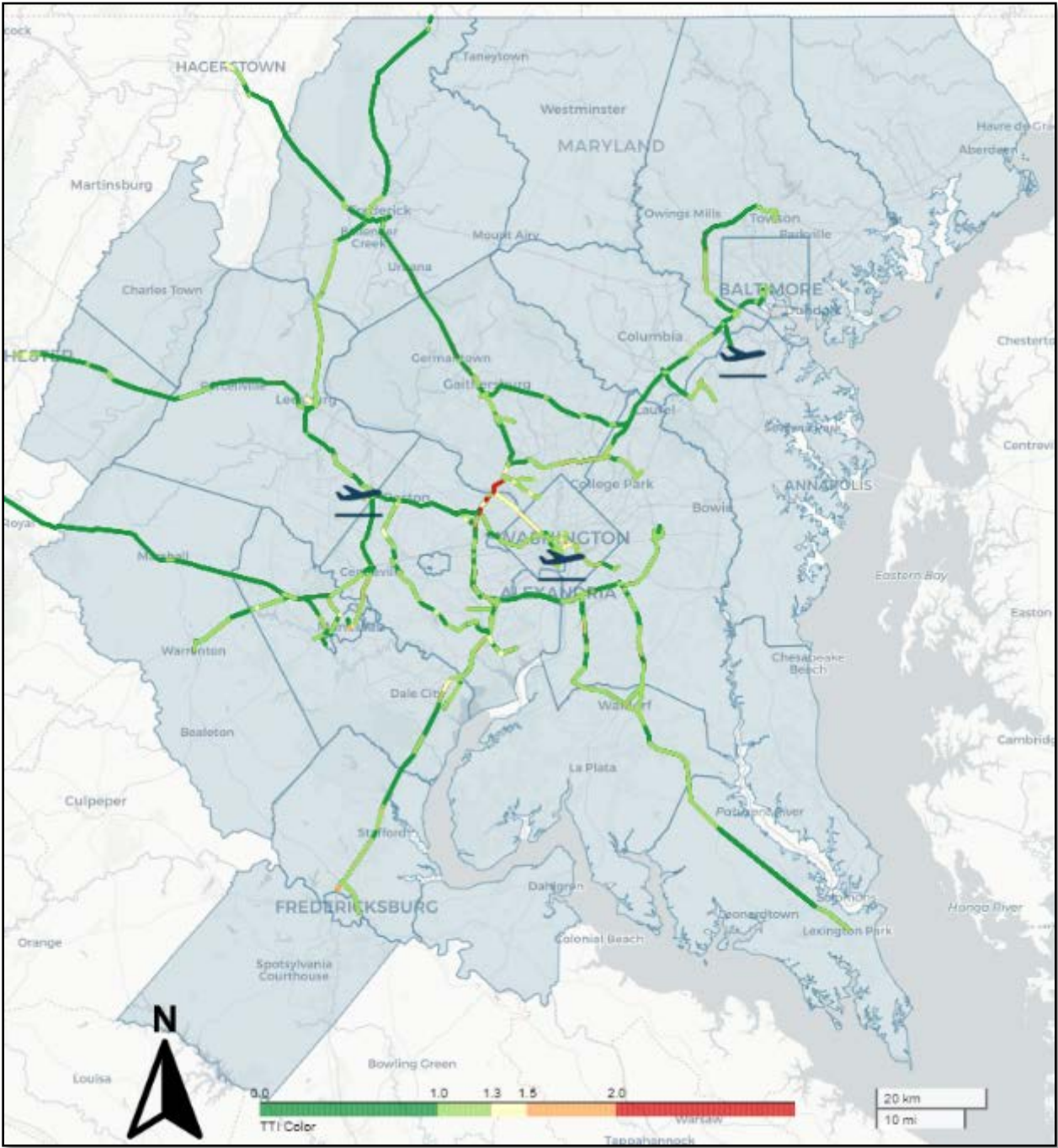


Figure 59. 2023 Spring Weekday, 9 AM-3 PM Travel Time Index Values to IAD





The map shows Maryland with various counties and cities labeled. The TTI Color scale is indicated by a color bar at the bottom, ranging from 0.0 (dark green) to 2.0 (dark red). A north arrow and a scale bar (0 to 20 km) are also present.

Figure 61. 2023 Spring Weekend, 6 AM-9 AM Travel Time Index Values to IAD

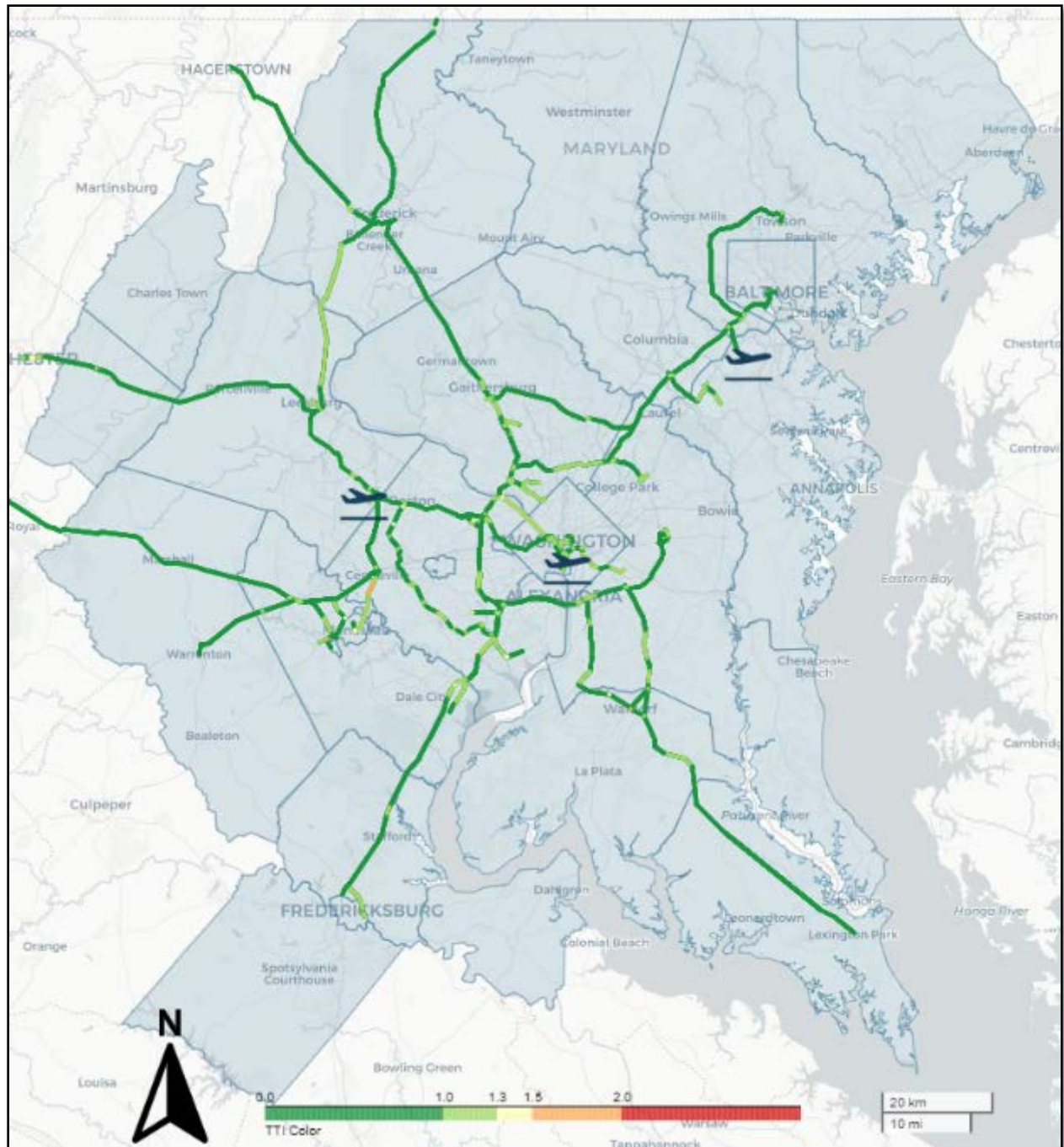
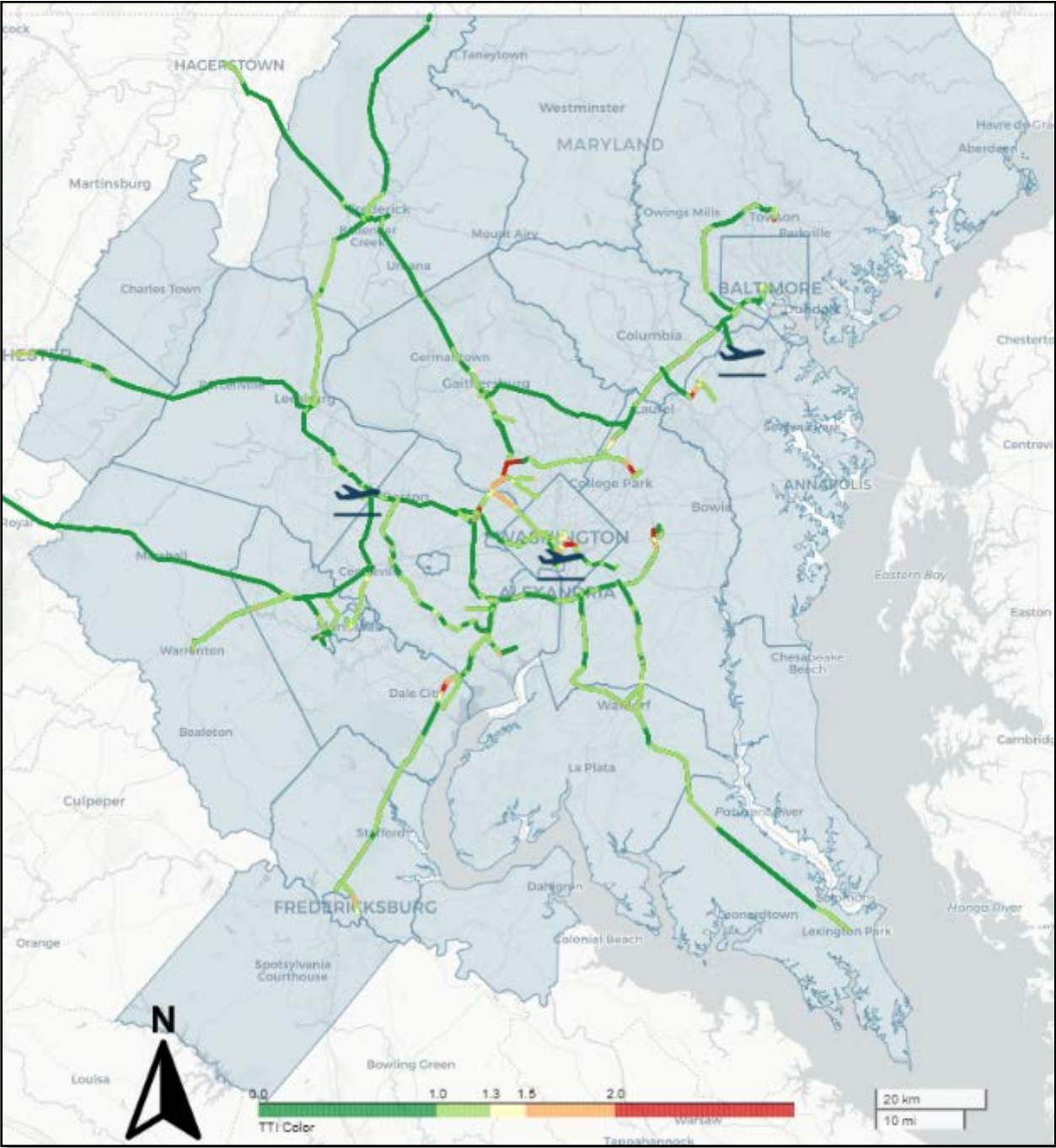






Figure 63. 2023 Spring Weekend, 3 PM-7 PM Travel Time Index Values to IAD



**Table 10: Dates Used in This Report and Classification of Days**

WEEKDAY						WEEKEND					
Date	Day of Week	Date	Day of Week	Date	Day of Week	Date	Day of Week	Date	Day of Week	Date	Day of Week
2-Apr-19	Tue	1-Apr-20	Wed	4-Apr-23	Tue	1-Apr-19	Mon	3-Apr-20	Fri	1-Apr-23	Sat
3-Apr-19	Wed	2-Apr-20	Thu	5-Apr-23	Wed	5-Apr-19	Fri	4-Apr-20	Sat	2-Apr-23	Sun
4-Apr-19	Thu	7-Apr-20	Tue	6-Apr-23	Thu	6-Apr-19	Sat	5-Apr-20	Sun	3-Apr-23	Mon
9-Apr-19	Tue	8-Apr-20	Wed	11-Apr-23	Tue	7-Apr-19	Sun	6-Apr-20	Mon	7-Apr-23	Fri
10-Apr-19	Wed	9-Apr-20	Thu	12-Apr-23	Wed	8-Apr-19	Mon	10-Apr-20	Fri	8-Apr-23	Sat
11-Apr-19	Thu	14-Apr-20	Tue	13-Apr-23	Thu	12-Apr-19	Fri	11-Apr-20	Sat	10-Apr-23	Mon
16-Apr-19	Tue	15-Apr-20	Wed	18-Apr-23	Tue	13-Apr-19	Sat	13-Apr-20	Mon	14-Apr-23	Fri
17-Apr-19	Wed	16-Apr-20	Thu	19-Apr-23	Wed	14-Apr-19	Sun	17-Apr-20	Fri	15-Apr-23	Sat
18-Apr-19	Thu	21-Apr-20	Tue	20-Apr-23	Thu	15-Apr-19	Mon	18-Apr-20	Sat	16-Apr-23	Sun
23-Apr-19	Tue	22-Apr-20	Wed	25-Apr-23	Tue	19-Apr-19	Fri	19-Apr-20	Sun	17-Apr-23	Mon
24-Apr-19	Wed	23-Apr-20	Thu	26-Apr-23	Wed	20-Apr-19	Sat	20-Apr-20	Mon	21-Apr-23	Fri
25-Apr-19	Thu	28-Apr-20	Tue	27-Apr-23	Thu	22-Apr-19	Mon	24-Apr-20	Fri	22-Apr-23	Sat
30-Apr-19	Tue	29-Apr-20	Wed	2-May-23	Tue	26-Apr-19	Fri	25-Apr-20	Sat	23-Apr-23	Sun
1-May-19	Wed	30-Apr-20	Thu	3-May-23	Wed	27-Apr-19	Sat	26-Apr-20	Sun	24-Apr-23	Mon
2-May-19	Thu	5-May-20	Tue	4-May-23	Thu	28-Apr-19	Sun	27-Apr-20	Mon	28-Apr-23	Fri
7-May-19	Tue	6-May-20	Wed	9-May-23	Tue	29-Apr-19	Mon	1-May-20	Fri	29-Apr-23	Sat
8-May-19	Wed	7-May-20	Thu	10-May-23	Wed	3-May-19	Fri	2-May-20	Sat	30-Apr-23	Sun
9-May-19	Thu	12-May-20	Tue	11-May-23	Thu	4-May-19	Sat	3-May-20	Sun	1-May-23	Mon
14-May-19	Tue	13-May-20	Wed	16-May-23	Tue	5-May-19	Sun	4-May-20	Mon	5-May-23	Fri
15-May-19	Wed	14-May-20	Thu	17-May-23	Wed	6-May-19	Mon	8-May-20	Fri	6-May-23	Sat
16-May-19	Thu	19-May-20	Tue	18-May-23	Thu	10-May-19	Fri	9-May-20	Sat	7-May-23	Sun
		20-May-20	Wed	23-May-23	Tue	11-May-19	Sat	10-May-20	Sun	8-May-23	Mon
		21-May-20	Thu	24-May-23	Wed	12-May-19	Sun	11-May-20	Mon	12-May-23	Fri
				25-May-23	Thu	13-May-19	Mon	15-May-20	Fri	13-May-23	Sat
						17-May-19	Fri	16-May-20	Sat	14-May-23	Sun
						18-May-19	Sat	17-May-20	Sun	15-May-23	Mon
						19-May-19	Sun	18-May-20	Mon	19-May-23	Fri
								22-May-20	Fri	20-May-23	Sat
								23-May-20	Sat	21-May-23	Sun
								24-May-20	Sun	22-May-23	Mon
										26-May-23	Fri
										27-May-23	Sat

WEEKDAY						WEEKEND					
Date	Day of Week	Date	Day of Week	Date	Day of Week	Date	Day of Week	Date	Day of Week	Date	Day of Week
										28-May-23	Sun

Note: April 21, 2019, April 12, 2020, and April 09, 2023, are Easter Holidays, which are considered as the holiday day type.



National Capital Region  
**Transportation Planning Board**

Metropolitan Washington Council of Governments  
777 North Capitol Street NE, Suite 300  
Washington, DC 20002

[mwcog.org/tpb](http://mwcog.org/tpb)