

2011 Washington-Baltimore Regional Airport Ground Access Travel Time Study



Metropolitan Washington Council of Governments
National Capital Region Transportation Planning Board

DRAFT – November 2011

EXECUTIVE SUMMARY –

As part of the region's transportation planning program, the Metropolitan Washington Council of Governments (MWCOCG) has conducted a number of highway travel-time studies on freeways and principal arterials between major activity centers in the metropolitan region. Travel times to the region's three major commercial airports (BWI Marshall, National, and Dulles) from a set of selected activity centers were measured for the first time in the fall of 1988, and then again in 1994 and 2003. Data for this report were collected during Spring 2011.

In coordination with the Aviation Technical Subcommittee, COG staff selected a representative sample of highways in the region for monitoring. In previous ground access studies, aviation analysis zones, which generate the greatest amount of originating air passenger traffic, were identified based on Air Passenger Survey data. Major activity centers within those zones were then identified together with routes with minimum path to each of the airports. This update, include all the routes monitored in pervious studies and additional routes were considered.

In the spring of 2011, COG staff conducted the third Airport Ground Access Travel Time survey, during the time periods of 6:30-9:30 AM (for AM peak period), 11:30 AM - 1:30 PM (for mid-day period), and 3:30 – 6:30 PM (for PM peak period). Travel time, speed and delays were collected using Geographical Positioning System (GPS) technology. The findings and evaluation of the data are based on the observed travel time and speed compared with the posted speed limit on the facility. Congested areas and bottlenecks for travel to the three airports are identified, as well as any notable changes in conditions since the 2003 report.

Bottlenecks are selected when travel on that segment is less than 50% of the posted speed limit. During the mid-day period, the bottlenecks are mostly limited to a few arterial segments where delays are caused by regular signal cycles and increased cross traffic on streets with mid-day destinations such as restaurants and other retails. During the peak periods, the bottlenecks occur largely along freeways with recurring regional congestion, such as I-270 between MD 28 and the "split," I-495 between I-395 and I-66 (in the AM peak period), the entire length of I-395 from the Beltway to the Pentagon, and the Beltway between Tysons Corner and the I-270 split (in the PM peak period). The arterial bottlenecks from the mid-day period increase in severity during the AM and PM peak periods, particularly in downtown Washington and across Montgomery County.

For travel between nearly all activity centers and all three airports for all time periods, travel times have increased between 2003 and 2011. Detailed travel times and average speeds at the route segment level by activity center, time period, and airport are contained in technical appendices following this report.

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 region. A key objective of the program is to monitor and update the basic system plan in order 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 for the Washington, D.C., urbanized 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 a number of 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 and 2003 before the current study, for which data were collected during spring 2011 using probe vehicles and global positioning system (GPS) devices. Data were collected on 43 travel routes for this study. The routes are listed in Table 1, along with those 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 observed travel patterns and the regional highway network. Those modifications are discussed for specific routes, but in general, the data are comparable across study years. The routes were selected to maintain consistency with previous studies; new routes were added based on analysis of the 2009 Air Passenger Survey and in consultation with the Aviation Technical Subcommittee.

Figure 1 shows a map of the 2011 travel time routes. All routes begin at major activity centers and end at airport terminal roadways.

Table 1: Data Collection Routes for 2011, 2004, 1994, and 1988 Ground Access Travel Time Studies (BWI)

<i>Airport Destination</i> Activity Center Origin (Highway Travel Route)	Travel Time Studies			
	2011	2004	1994	1988
<i>To BWI from</i>				
Annapolis (via US 50 and I-97)	X		X	X
Baltimore (via MD 295)	X		X	X
Columbia (via MD 175 and MD 295)	X	X		
Frederick (via I-70, US 29, and MD 100)	X			
Frederick (via I-70, I-695, and MD 295)	X	X		
Gaithersburg (via I-270, Capital Beltway, and I-95)	X			
Greenbelt (via Baltimore-Washington Parkway)	X	X		
Largo (via Capital Beltway and Baltimore-Washington Parkway)	X	X		
National Harbor (via I-295, DC 295, and the Baltimore-Washington Parkway) ¹	X			
Rockville (via I-270, Beltway, I-95, MD 32, Baltimore-Washington Parkway, and MD 295)	X		X	X
Rockville (via MD 28, MD 650, MD 108, MD 32, Baltimore-Washington Pkwy, and MD 295)	X	X	X	X
Springfield (via I-95, Capital Beltway, Baltimore-Washington Parkway, and MD 295)	X			
Towson (via I-695 and MD 295)	X	X		
Tysons Corner (via Capital Beltway, I-95, MD 32, Baltimore-Washington Pkwy., and MD 295)	X			
Waldorf (via US 301, MD 3, and I-97)	X	X		
Washington, D.C. (via Independence Ave., Pennsylvania Ave., DC 295, and the B-W Pkwy.)	X			
Washington D.C. (via K Street NW, New York Ave., and the Baltimore-Washington Pkwy.)	X		X	X
White Marsh (via Honeygo Blvd., MD 43, I-95, and MD 295)	X	X		

¹ 2011 route used direct access ramps from National Harbor to Beltway; 2004 route used Oxon Hill Rd, since National Harbor was not yet constructed.

Table 2: Data Collection Routes for 2011, 2004, 1994, and 1988 Ground Access Travel Time Studies (DCA)

<i>Airport Destination</i>	Travel Time Studies			
	2011	2004	1994	1988
Activity Center Origin (Highway Travel Route)				
<i>To DCA from:</i>				
Frederick (via I-270, Capital Beltway, and George Washington Memorial Parkway)		X		
Gaithersburg (via I-270, Capital Beltway, and George Washington Memorial Parkway)	X	X		
Greenbelt (via Baltimore-Washington Parkway, New York Ave, and I-395)	X	X		
Largo (via Capital Beltway using Woodrow Wilson Bridge, Washington St, and GW Pkwy)	X	X		
Manassas (via VA 28 and I-66)	X			
National Harbor (via Beltway using Wilson Bridge, Washington St, and GW Pkwy) ²	X	X		
Rockville (via I-270, Capital Beltway, and George Washington Memorial Parkway)	X		X	X
Springfield (via I-95 and I-395)	X	X		
Tysons Corner (via VA 7, VA 123, and George Washington Memorial Parkway) ³	X		X	X
Waldorf (via MD 228, MD 210, Beltway over Wilson Bridge, Washington St, and GWMP) ⁴	X	X		
Washington D.C. (via K St NW, 14 th St NW, and the George Washington Memorial Parkway)	X		X	X
Woodbridge (via US 1, I-95, and I-395)	X		X	X

² Ibid.

³ 2011 route used VA 123, Dulles Access Road, and I-66

⁴ 2004 route used US 301 and MD 5 to the Capital Beltway

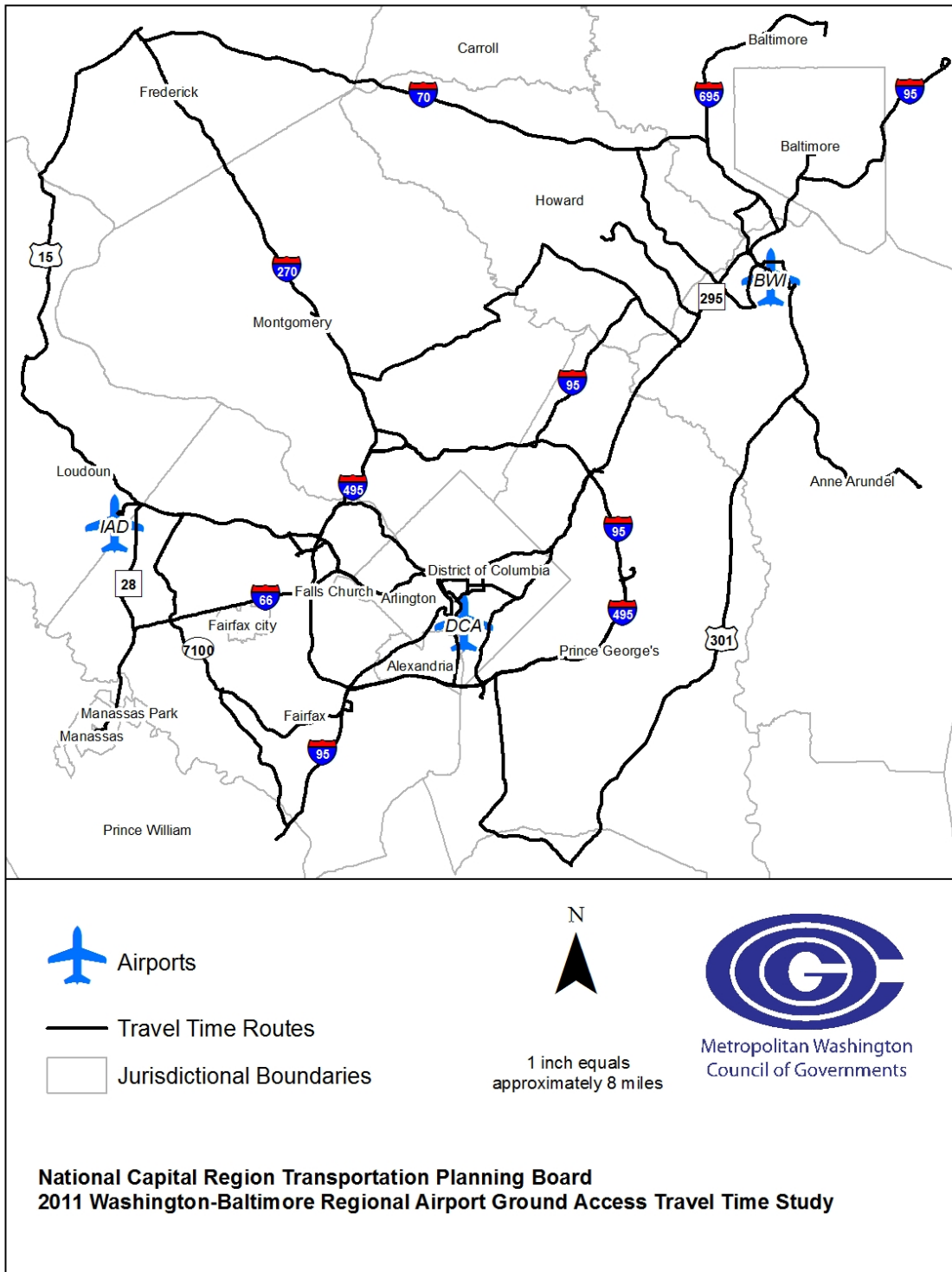
Table 3: Data Collection Routes for 2011, 2004, 1994, and 1988 Ground Access Travel Time Studies (IAD)

<i>Airport Destination</i> Activity Center Origin (Highway Travel Route)	Travel Time Studies			
	2011	2004	1994	1988
Frederick (via I-270, Capital Beltway, and airport roadway of VA 267)	X			
Frederick (via US 15 and Dulles Greenway)	X	X		
Gaithersburg (via I-270, Capital Beltway, and airport roadway of VA 267)	X	X		
Greenbelt (via Capital Beltway and airport roadway of VA 267)	X	X		
Largo (via Capital Beltway using Woodrow Wilson Bridge and airport roadway of VA 267)	X	X		
Manassas (via VA 28)	X	X		
National Harbor (via Capital Beltway using Wilson Bridge and airport roadway of VA 267) ⁵	X	X		
Rockville (via I-270, Capital Beltway, and airport roadway of VA 267)	X		X	X
Springfield (via VA 7900, VA 7100, and airport roadway of VA 267)	X	X		
Tysons Corner (via VA 123, VA 7, and airport roadway of VA 267)	X		X	X
Waldorf (via MD 228, MD 210, Beltway over Wilson Bridge, and airport roadway of VA 267) ⁶	X			
Washington D.C. (via K St, 14 th St, Constitution Ave, I-66, and airport roadway of VA 267)	X		X	X
Woodbridge (via US 1, VA 123, VA 7100, and airport roadway of VA 267)	X	X		

⁵ See note 1

⁶ See note 4

Figure 1: 2011 Airport Ground Access Travel Time Routes



DATA COLLECTION, PROCESSING, AND ANALYSIS METHODOLOGY

Travel time data collection runs were conducted on Tuesdays, Wednesdays, and Thursdays along 43 routes during the AM peak period of 6:30 – 9:30 AM, mid-day period of 11:00 A.M. – 1:00 P.M. and during the PM peak period of 3:30 – 6:30 P.M. To the extent feasible, travel-time runs were not performed in inclement weather or on days near major holidays. In addition, runs scheduled on days in which a major traffic disruption occurred were not performed. Data were collected during Spring 2011.

Three travel runs per time period were driven using the “floating car” method (i.e., where the driver “floats” with the traffic by attempting to safely pass as many vehicles as pass the probe vehicle). Data were collected using GiSTEQ model DL-500 GPS devices deployed in the probe vehicles. The resulting data files were then matched and conflated to a NAVTEQ street centerline network using a customized ArcGIS program developed by COG staff. The processed files were then stored and analyzed using a customized Microsoft Access database also developed by COG staff. For purposes of the analysis, the 43 routes (covering 1,372 miles) were broken into 611 segments that were matched in the GIS network. Segment length and speed limits were gathered from the GIS network and other sources in addition to field observations.

Since the final approach, to the airports are similar for most of the routes, it was decided that common segments were to be merged to constitute the entire route. Time and budget constraints, are also another factor considered to conduct travel time runs at a minimum of three and only conduct data collection where route segments are different. Therefore, it should be noted that for some routes speed, elapsed and delay times are the same for segments that are common.

The 2003 ground access travel time study analysis used a methodology adapted from the year 2000 Highway Capacity Manual (HCM) to evaluate segment level of service (LOS) based primarily on computed delay and vehicle density/flow curves with lookup tables for segment roadway type and functional class. During review of this methodology by the Aviation Technical Subcommittee, this methodology was found to be both difficult to understand and replicate, and did not work well on specialized facilities such as the Dulles Airport Access Road. As a result, the technique was replaced with regular computation of travel time, travel speed, delay, and a comparison of average speed against posted speed limits by route segment.

Under this methodology, the following computations was performed using the collected travel time data:

1. Calculation of the length of the segment in miles between defines signalized link segments.
2. Calculation of total elapsed travel time for each segment, in minutes, by direction and time period.
3. Calculation of average travel speed both by route segment and entire route

$$S = \frac{60 \times N \times D}{\sum T} \quad \text{where } S = \text{average speed in miles per hour MPH}$$
$$D = \text{segment length in miles}$$

N = number of travel time runs

$\sum T$ = **sum** of travel time for all travel runs

4. Calculation of delay time for each segment and entire route (i.e., time lost due to causes such as traffic signal, traffic congestion, accident, ect...).
5. Calculation of average running time and entire route (i.e., time where vehicle is in actual motion), derived by subtracting delay time from total travel time.
6. Calculation of average running speed for each segment and entire route (i.e., distance traveled divided by running time).

Major Transportation System and Demographic Changes from the 2003 Study

- Network / supply changes
- Growth / development changes

FINDINGS

Regional

Figure 2 through Figure 4 below show average travel speeds for AM peak period, mid-day, and PM peak period conditions for travel from the activity centers to the three airports. Regionally, the AM peak period has the worst travel conditions. However, travel conditions do vary depending on the destination airport. Figure 5 through Figure 7 show the proportion of travel mileage by average speed to each airport. Travel conditions to DCA in both peak periods are worse than travel to the other two airports; however, since DCA is much closer to the DC core than BWI and IAD, overall travel time from the core areas is less. The impacts of travel to each airport from certain activity centers are examined in the next section.

Figure 2: AM Peak Period Average Travel Speeds From Activity Centers to Airports

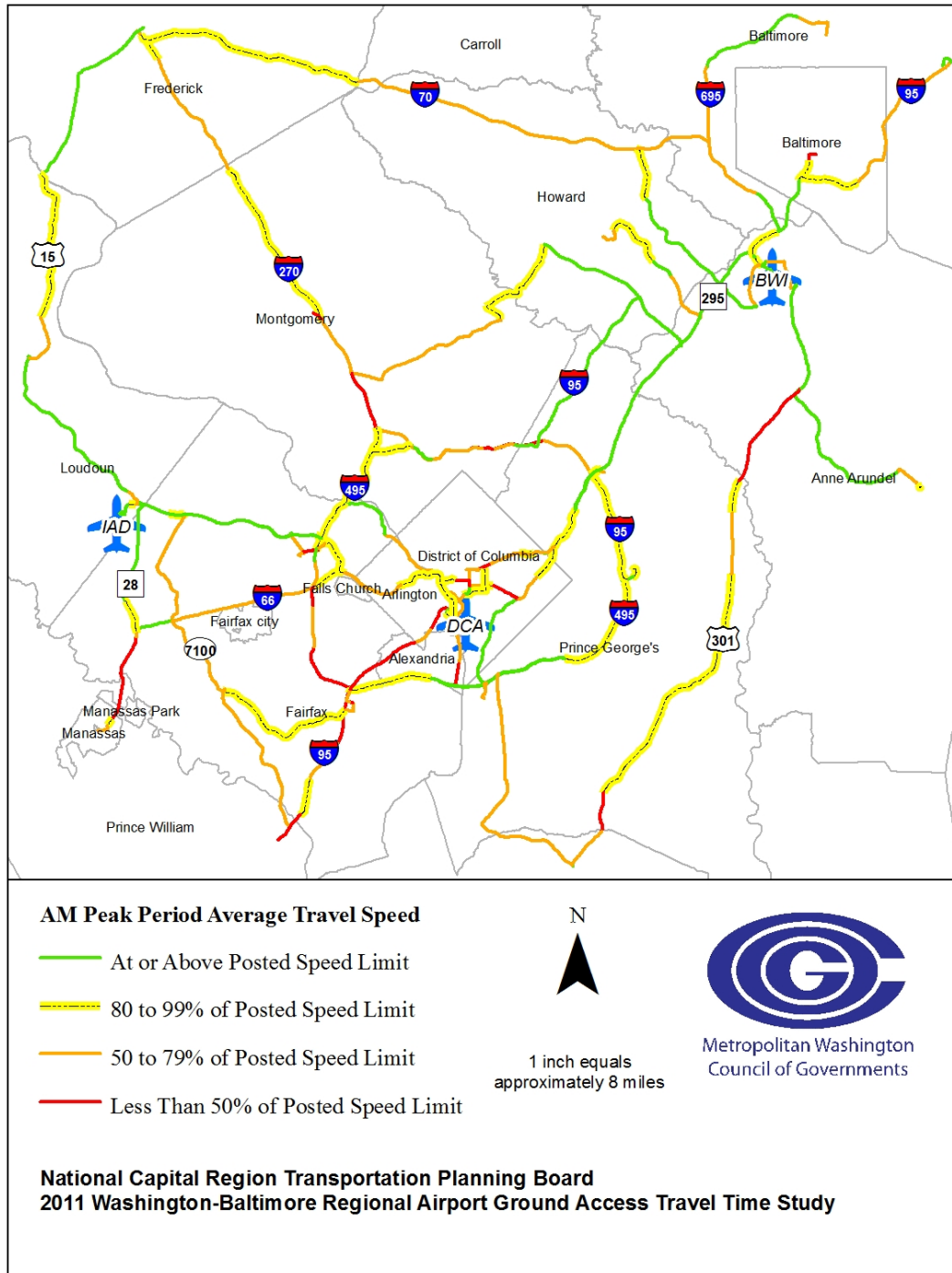


Figure 3: Mid-Day Average Travel Speeds From Activity Centers to Airports

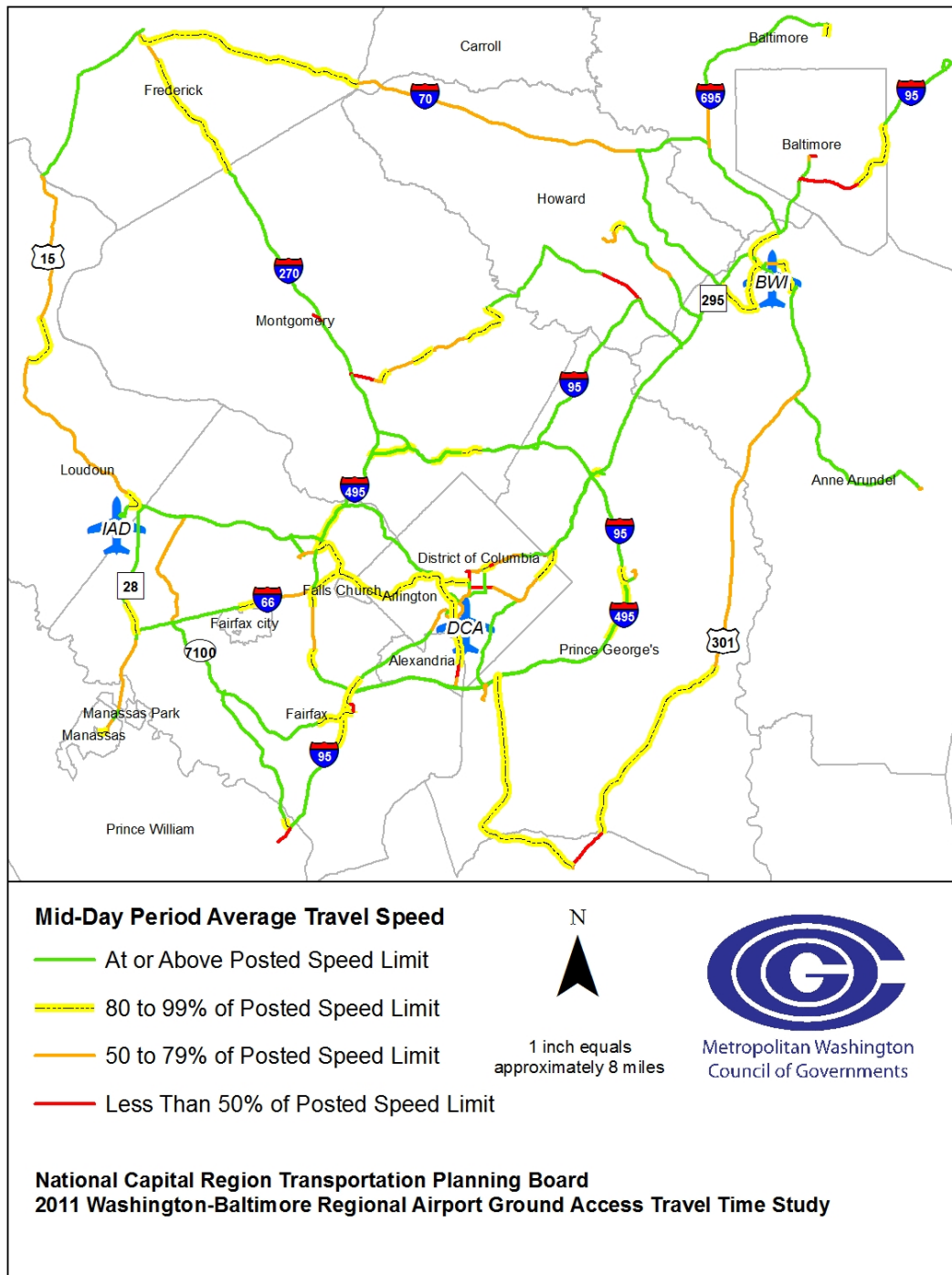


Figure 4: PM Peak Period Average Travel Speeds from Activity Center to Airports

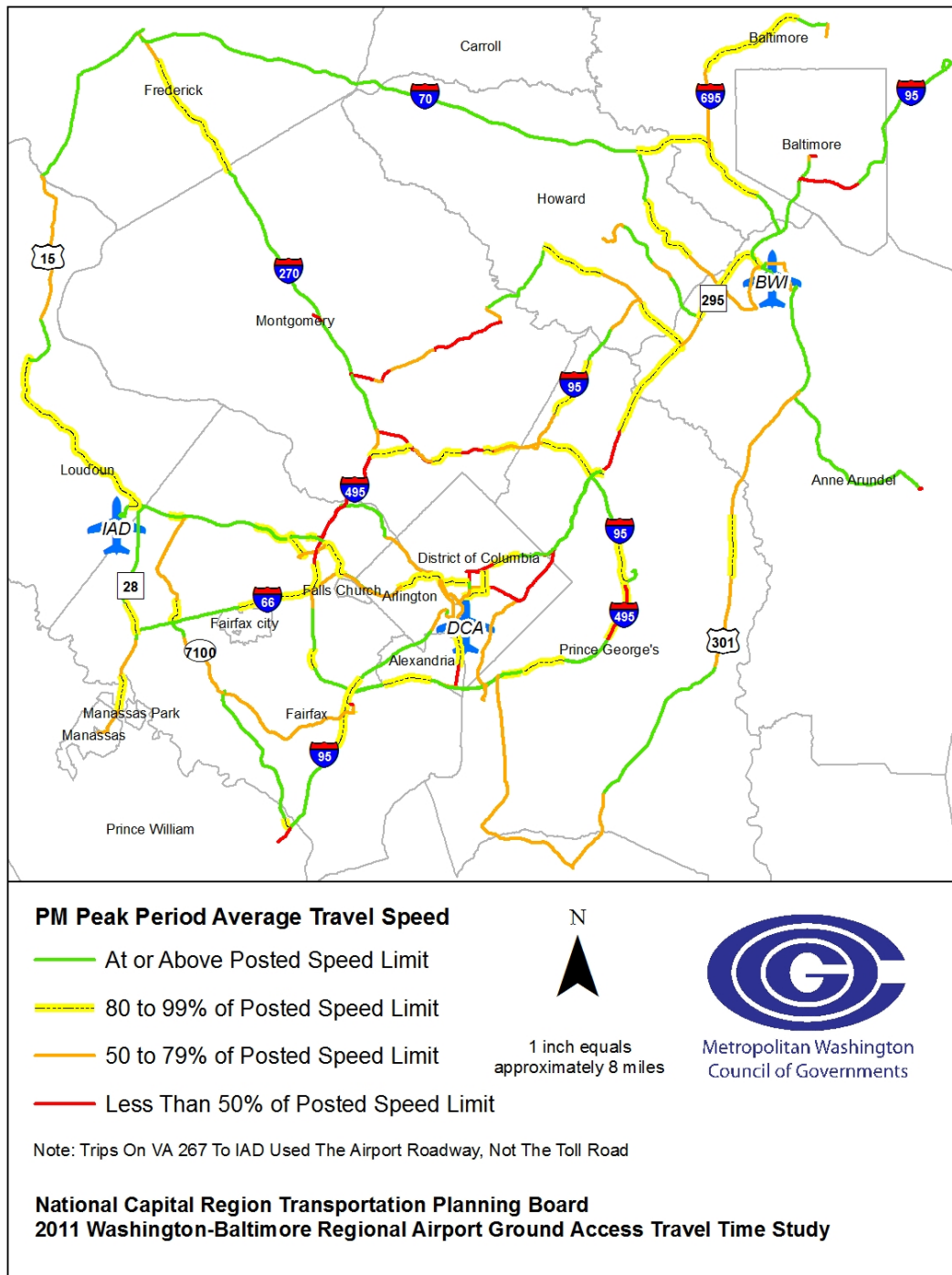


Figure 5: Route-Mileage to Airports by Average Speed – AM Peak Period

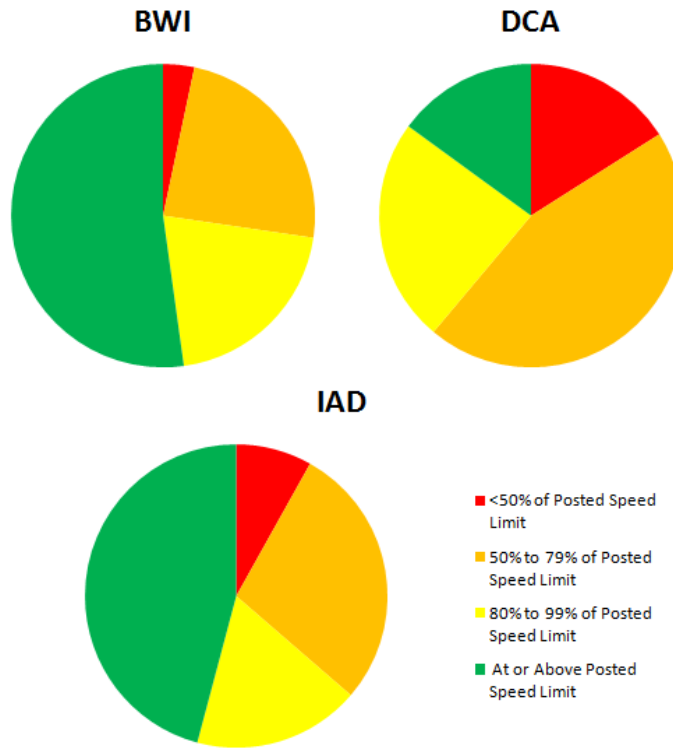


Figure 6: Route-Mileage to Airports by Average Speed – Mid-Day Period

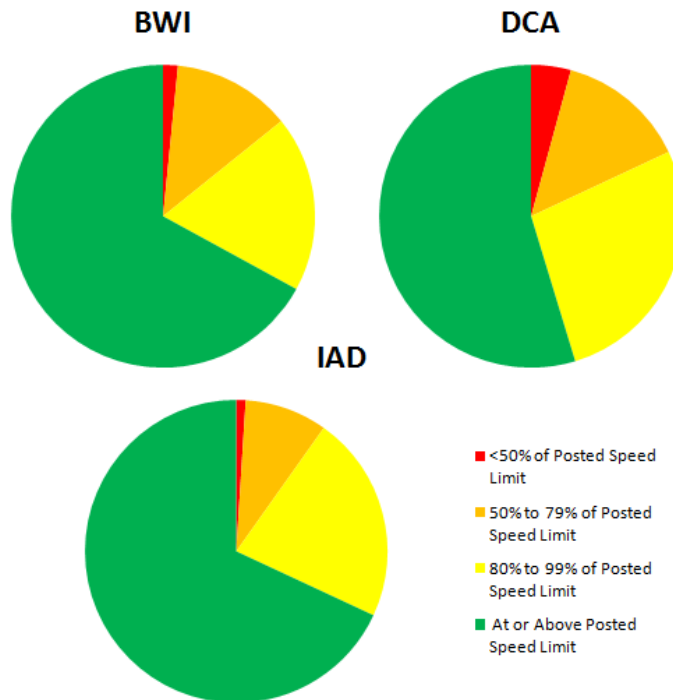
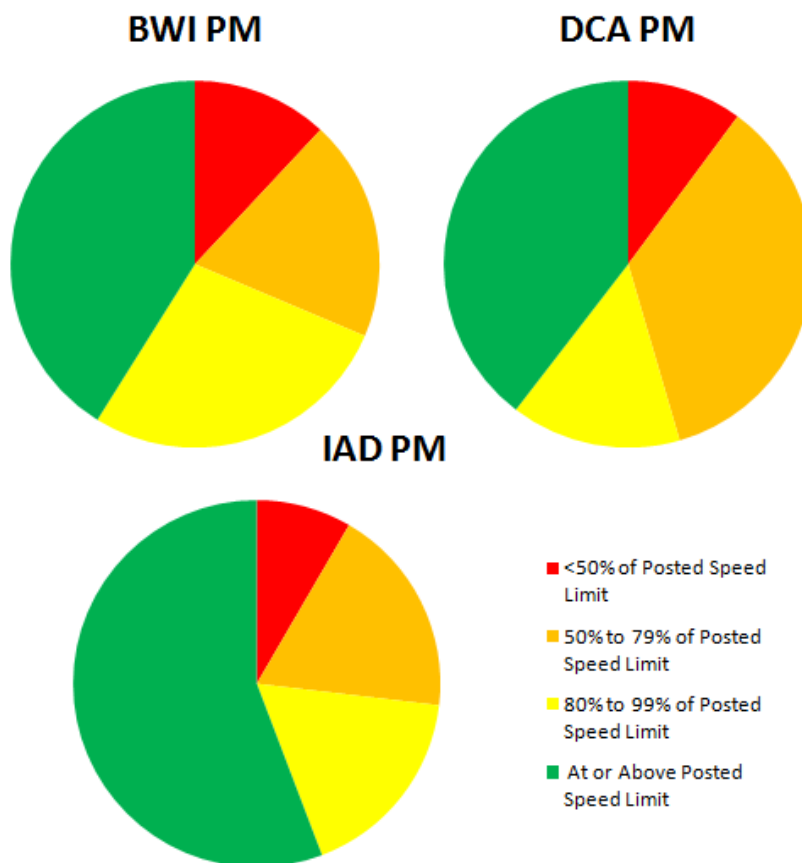


Figure 7: Route Mileage to Airports by Average Speed – PM Peak Period



BWI

Table 4 below summarizes the travel time, average speed, and delay for routes from activity centers to BWI. Figure 8 shows both travel times and average speeds for all three time period from activity centers to BWI. In general, PM peak period conditions are worst for traveling to BWI from nearly all activity centers, except for Frederick, Waldorf and White Marsh. AM peak period travelers from White Marsh and from Frederick to BWI must contend with heavy home-based work trip flows into Baltimore City and northern Baltimore via I-95 and I-695. PM peak period travel from downtown DC to BWI via New York Avenue, NW/NE and Pennsylvania Ave, SE to DC 295 create very poor travel conditions to BWI. Similar problems exist for all routes utilizing the Capital Beltway (I-495), especially the section from Tysons Corner around through College Park.

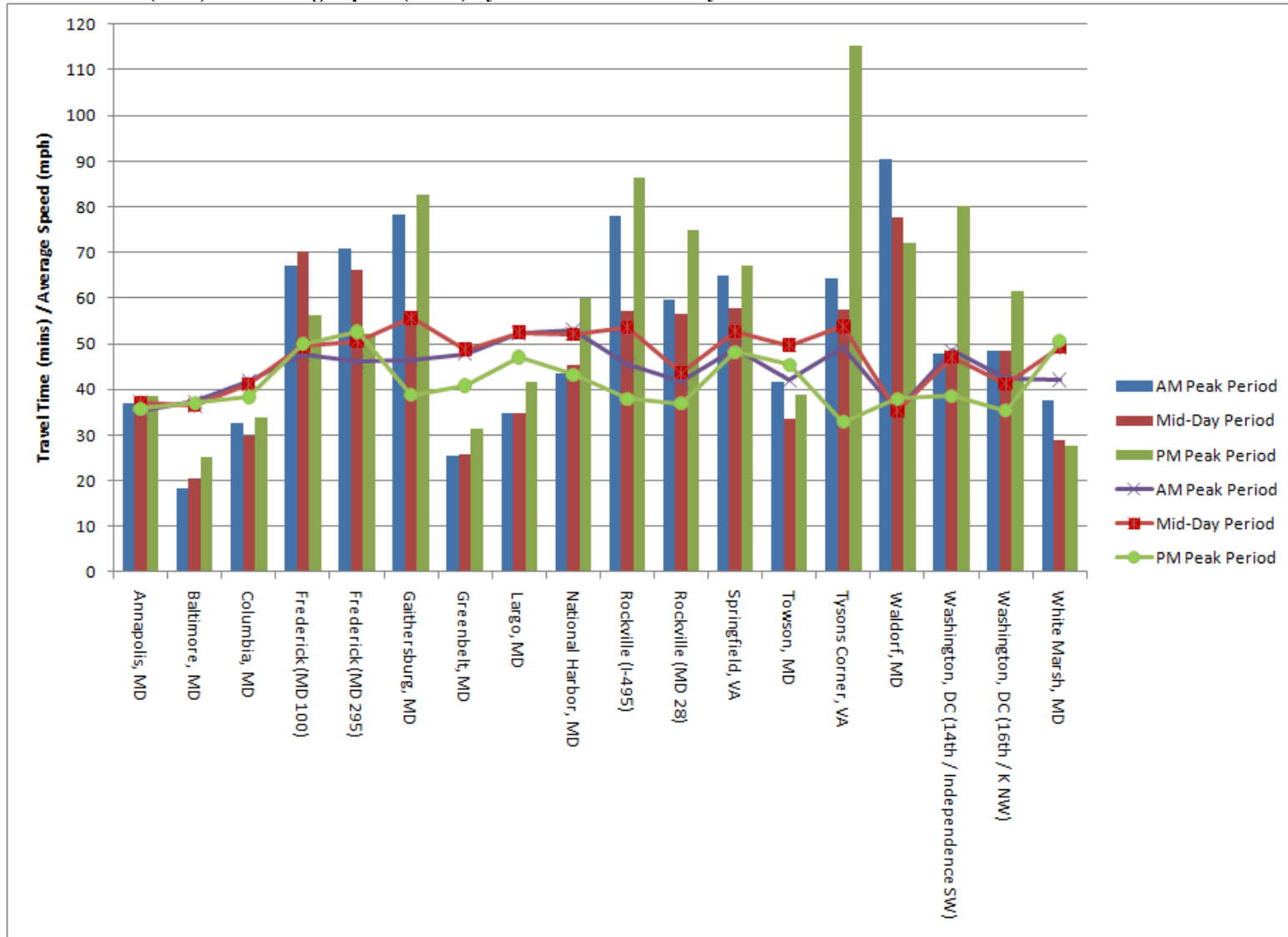
Table 4: Summary of Travel Time (mins), Average Speed (mph), and Delay (s) – BWI

Description	Dist	AM_Time	MD_Time	PM_Time	AM_AvgSpd	MD_AvgSpd	PM_AvgSpd	AM_Delay	MD_Delay	PM_Delay
Annapolis, MD to BWI Marshall	25.6	37.0	36.9	38.5	35.2	37.2	35.8	0.1	1.6	1.2
Baltimore, MD to BWI Marshall	10.7	18.5	20.4	25.1	37.3	36.5	37.0	1.1	2.4	6.1
Columbia, MD to BWI Marshall	18.5	32.7	29.7	33.7	41.9	41.2	38.3	5.3	0.6	1.6
Frederick, MD to BWI Marshall - MD 100	53.8	67.1	70.2	56.2	47.6	49.4	50.0	1.2	1.3	0.9
Frederick, MD to BWI Marshall - MD 295	52.4	70.9	66.1	52.1	46.0	50.5	52.7	0.1	0.1	0.0
Gaithersburg, MD to to BWI Marshall - via I-270/I-495/I-95	46.7	78.2	53.9	82.7	46.6	55.7	38.8	0.9	2.1	0.7
Greenbelt, MD to BWI Marshall	20.2	25.5	25.6	31.2	47.8	48.7	40.8	0.9	0.2	0.4
Largo, MD to BWI Marshall	29.0	34.7	34.8	41.5	52.3	52.5	47.1	0.1	1.2	0.1
National Harbor to BWI Marshall	38.3	43.4	45.5	60.1	53.1	52.1	43.2	0.7	0.5	0.8
Rockville, MD to BWI Marshall - I-495/I-95	44.2	78.0	57.3	86.4	45.4	53.6	37.9	0.4	1.2	1.5
Rockville, MD to BWI Marshall - MD 28	38.1	59.6	56.5	75.0	41.8	43.6	36.9	2.6	4.9	5.7

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Description	Dist	AM_Time	MD_Time	PM_Time	AM_AvgSpd	MD_AvgSpd	PM_AvgSpd	AM_Delay	MD_Delay	PM_Delay
Springfield, VA to BWI Marshall	51.8	64.8	57.9	67.1	49.1	52.8	48.2	0.9	0.8	0.4
Towson, MD to BWI Marshall	27.3	41.5	33.4	38.8	42.0	49.7	45.4	2.4	1.1	0.7
Tysons, VA to BWI Marshall	47.4	64.4	57.4	115.3	49.1	53.8	32.9	5.3	2.4	10.6
Waldorf, MD to BWI Marshall	49.0	90.3	77.7	72.1	35.1	35.3	38.0	5.3	6.3	4.5
Washington D.C. to BWI Marshall - 14th St. & Independence Ave	33.5	47.9	46.7	80.2	48.6	47.1	38.6	3.5	2.0	7.1
Washington D.C. to BWI Marshall - 16th St. & K St.	32.3	48.4	48.5	61.5	42.3	41.2	35.4	4.5	3.3	3.8
White Marsh, MD to BWI Marshall	24.2	37.7	29.0	27.7	42.1	49.2	50.6	3.4	1.5	1.5

Figure 8: Travel Time (Bars) and Average Speed (Lines) by Time Period – Activity Centers to BWI



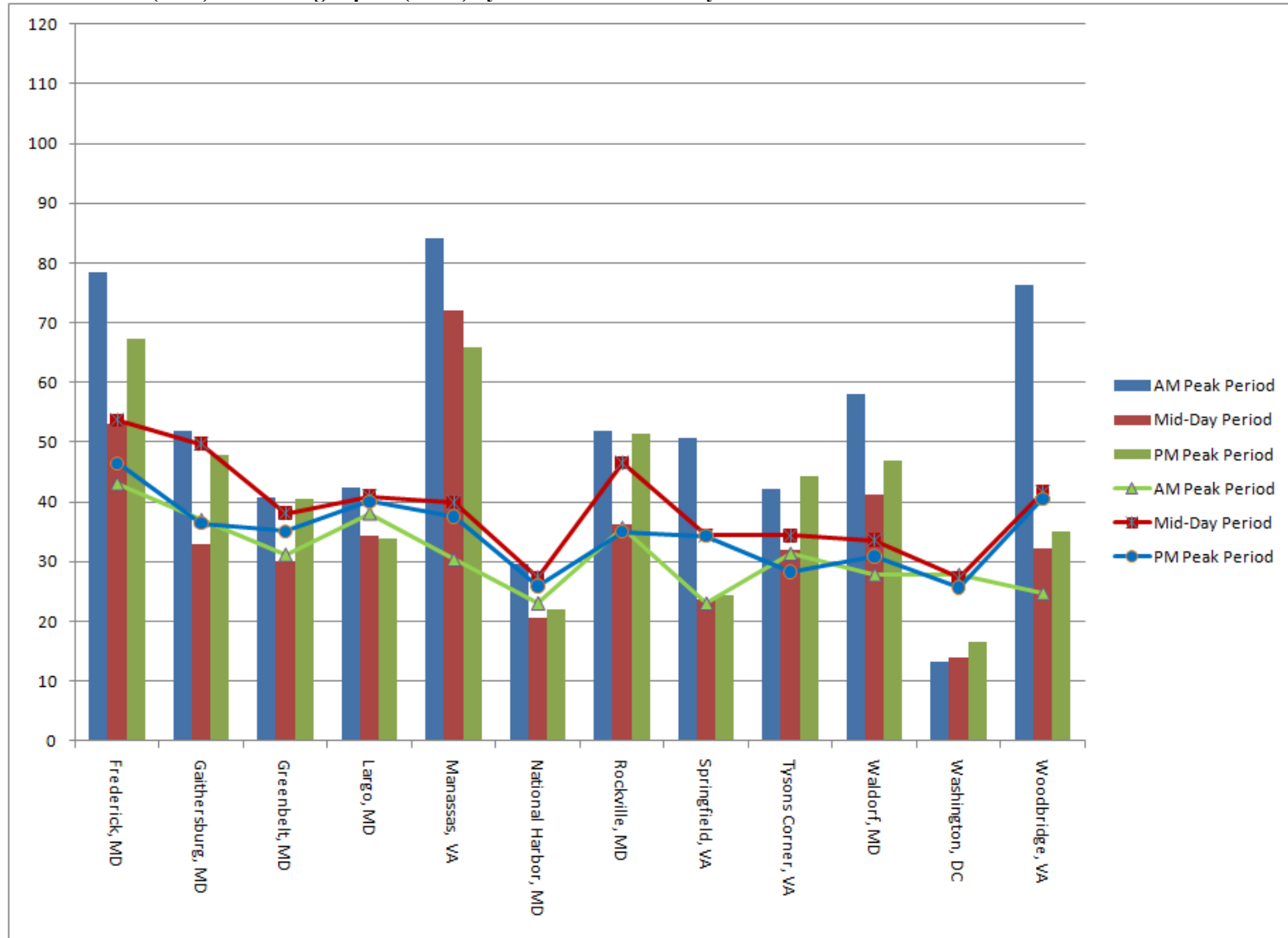
DCA

Table 5 below summarizes travel time, average speed, and delay from activity centers to DCA. Figure 9 shows both travel times and average speeds for all three time period from activity centers to DCA. Because of DCA's central location in the region near the major job centers of the District of Columbia and Arlington County, AM peak period travelers to the airport must contend with regular work trips, and as a result travel conditions tend to be worst during the AM peak period. Exceptions to this pattern include travel to DCA from Tysons Corner, Waldorf, and downtown Washington. Travel to DCA from Frederick and Rockville, both of which heavily use I-270 and the Capital Beltway, is equally poor during both peak periods.

Table 5: Summary of Travel Time (mins), Average Speed (mph), and Delay (s) – DCA

Description	Dist	AM_Time	MD_Time	PM_Time	AM_AvgSpd	MD_AvgSpd	PM_AvgSpd	AM_Delay	MD_Delay	PM_Delay
Frederick, MD to Ronald Reagan National - via I-270/I-495/GW Pkwy	50.8	78.4	53.1	67.3	43.1	53.7	46.5	1.2	0.2	0.1
Gaithersburg, MD to Ronald Reagan National - via I-270/I-495/GW Pkwy	28.3	51.9	32.8	47.7	37.0	49.8	36.4	0.9	2.0	0.3
Greenbelt, MD to Ronald Reagan National	17.6	40.8	30.0	40.6	31.2	38.1	35.1	0.7	0.1	0.5
Largo, MD to Ronald Reagan National	21.1	42.4	34.4	33.9	38.1	41.0	40.0	2.0	2.6	1.1
Manassas, VA to Ronald Reagan National	33.4	84.1	72.0	65.8	30.4	39.9	37.5	7.6	1.5	4.7
National Harbor to Ronald Reagan National	7.7	29.6	20.6	22.1	23.1	27.4	25.9	2.3	1.6	1.5
Rockville, MD to Ronald Reagan National	25.9	51.8	36.2	51.4	35.7	46.6	35.0	0.4	1.1	1.1
Springfield, VA to Ronald Reagan National	12.3	50.8	23.7	24.4	23.1	34.4	34.3	9.0	1.5	3.4
Tysons, VA to Ronald Reagan National	16.6	42.2	32.0	44.3	31.4	34.4	28.3	5.4	2.8	6.2
Waldorf, MD to Ronald Reagan National	24.6	58.1	41.2	46.8	27.9	33.6	30.9	3.9	1.9	3.2
Washington D.C. to Ronald Reagan National - 16th St. & K St.	5.0	13.3	13.8	16.6	27.8	27.3	25.7	1.4	1.7	2.2
Woodbridge, VA to Ronald Reagan National	21.9	76.2	32.2	35.1	24.8	41.7	40.6	9.6	1.4	4.1

Figure 9: Travel Time (Bars) and Average Speed (Lines) by Time Period – Activity Centers to DCA



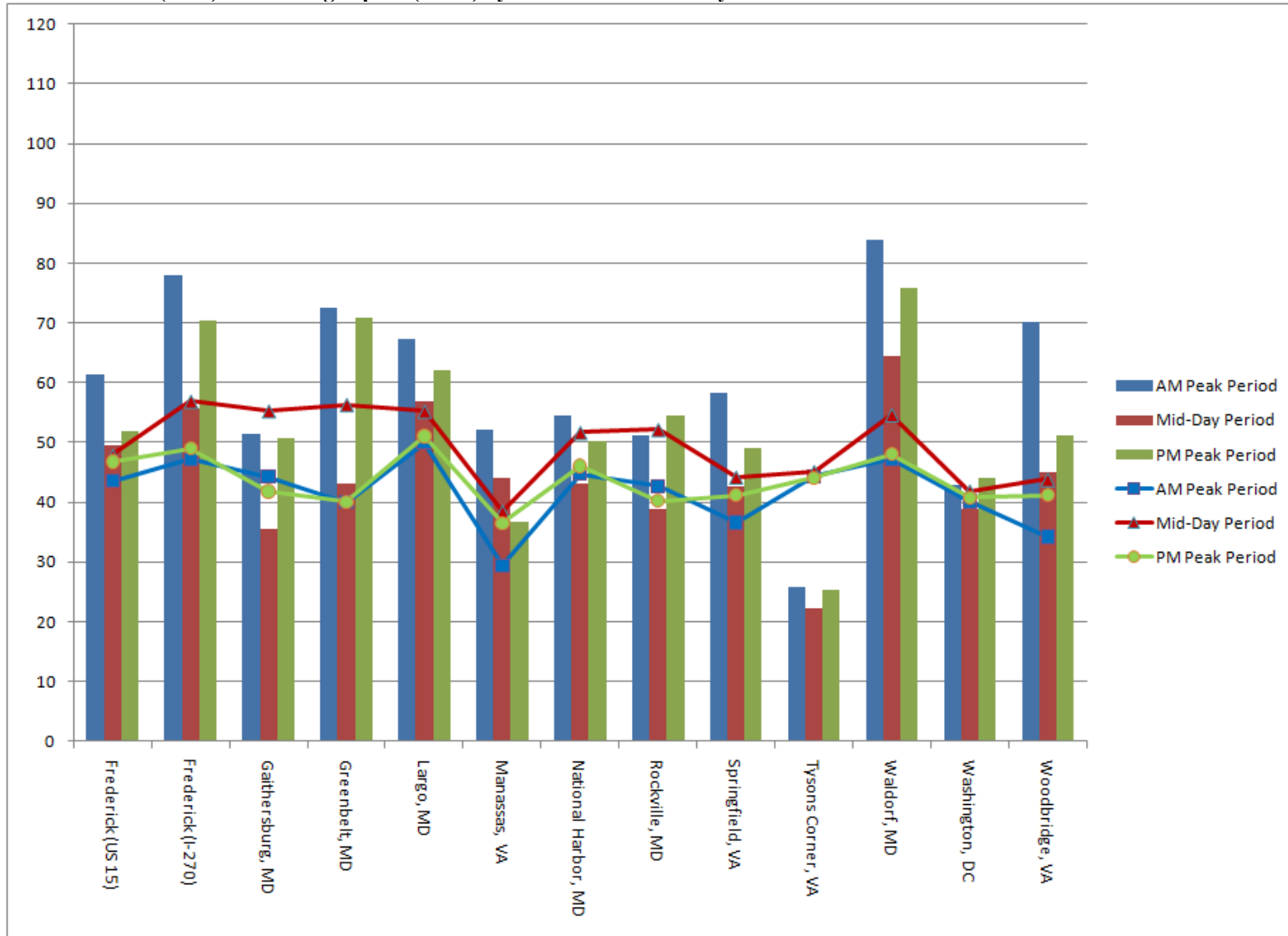
IAD

Table 6 below summarizes travel time, average speed, and delay for travel from activity centers to IAD. Figure 10 shows both travel times and average speeds for all three time period from activity centers to IAD. The Tysons Corner activity center has a distinct advantage for travel to IAD both due to geographic proximity and because travelers may use the Dulles Airport Access Road. Since the Access Road is restricted to airport traffic only, it allows much faster speeds and lower travel times than the general purpose lanes of VA 267. Regionally, travel times from Tysons Corner to IAD area nearly one-half of those for all other studied activity centers. Travelers from other activity centers who also use the Access Road for the last several miles of their trip must travel in congested conditions along the Capital Beltway or I-66 before getting to the Access Road.

Table 6: Summary of Travel Time (mins), Average Speed (mph), and Delay (mins) – IAD

Description	Dist	AM_Time	MD_Time	PM_Time	AM_AvgSpd	MD_AvgSpd	PM_AvgSpd	AM_Delay	MD_Delay	PM_Delay
Frederick, MD to Dulles International	41.4	61.5	49.6	51.9	43.6	47.9	46.8	0.6	0.5	2.9
Frederick, MD to Dulles International -via I-270	55.2	77.9	55.7	70.3	47.2	56.9	49.0	1.1	0.2	0.1
Gaithersburg, MD to Dulles International -via I-270	32.7	51.4	35.4	50.8	44.3	55.3	41.8	0.9	2.0	0.4
Greenbelt, MD to Dulles International	39.5	72.5	43.1	70.9	40.0	56.4	40.0	0.6	0.1	0.5
Largo, MD to Dulles International	49.8	67.4	56.8	62.1	50.0	55.2	51.1	0.0	1.1	0.1
Manassas, VA to Dulles International	18.6	52.1	44.0	36.7	29.4	38.5	36.5	2.9	0.0	0.6
National Harbor to Dulles International	36.4	54.6	43.0	50.3	44.8	51.7	46.1	0.3	0.1	0.6
Rockville, MD to Dulles International	30.2	51.2	38.8	54.5	42.7	52.2	40.2	0.4	1.1	1.1
Springfield, VA to Dulles International	29.8	58.3	42.7	49.1	36.6	44.2	41.2	-15.3	-6.5	3.7
Tysons, VA to Dulles International	17.2	25.9	22.2	25.3	44.3	45.2	44.1	3.6	1.0	3.2
Waldorf, MD to Dulles International	54.0	83.8	64.4	75.9	47.3	54.7	48.1	1.9	0.4	2.3
Washington D.C. to Dulles International - 16th St. & K St.	27.7	42.8	38.9	44.2	40.2	41.9	40.8	3.2	2.9	3.5
Woodbridge, VA to Dulles International	31.4	70.2	44.9	51.2	34.2	43.8	41.2	6.1	1.9	4.6

Figure 10: Travel Time (Bars) and Average Speed (Lines) by Time Period – Activity Centers to IAD



CONGESTED BOTTLENECKS

Figure 11 through Figure 19 show congested bottleneck across the region for travelers to each of the three airports by time period. Bottlenecks are shown in red and are selected when travel on that segment is less than 50% of the posted speed limit. During the mid-day period, the bottlenecks are mostly limited to a few arterial segments where delays are caused by regular signal cycles and increased cross traffic on streets with mid-day destinations such as restaurants and other retails. During the peak periods, the bottlenecks occur largely along freeways with recurring regional congestion, such as I-270 between MD 28 and the “split,” I-495 between I-395 and I-66 (in the AM peak period), the entire length of I-395 from the Beltway to the Pentagon, and the Beltway between Tysons Corner and the I-270 split (in the PM peak period). The arterial bottlenecks from the mid-day period increase in severity during the AM and PM peak periods, particularly in downtown Washington and across Montgomery County.

Figure 11: Congested Bottlenecks Traveling to DCA – AM Peak Period

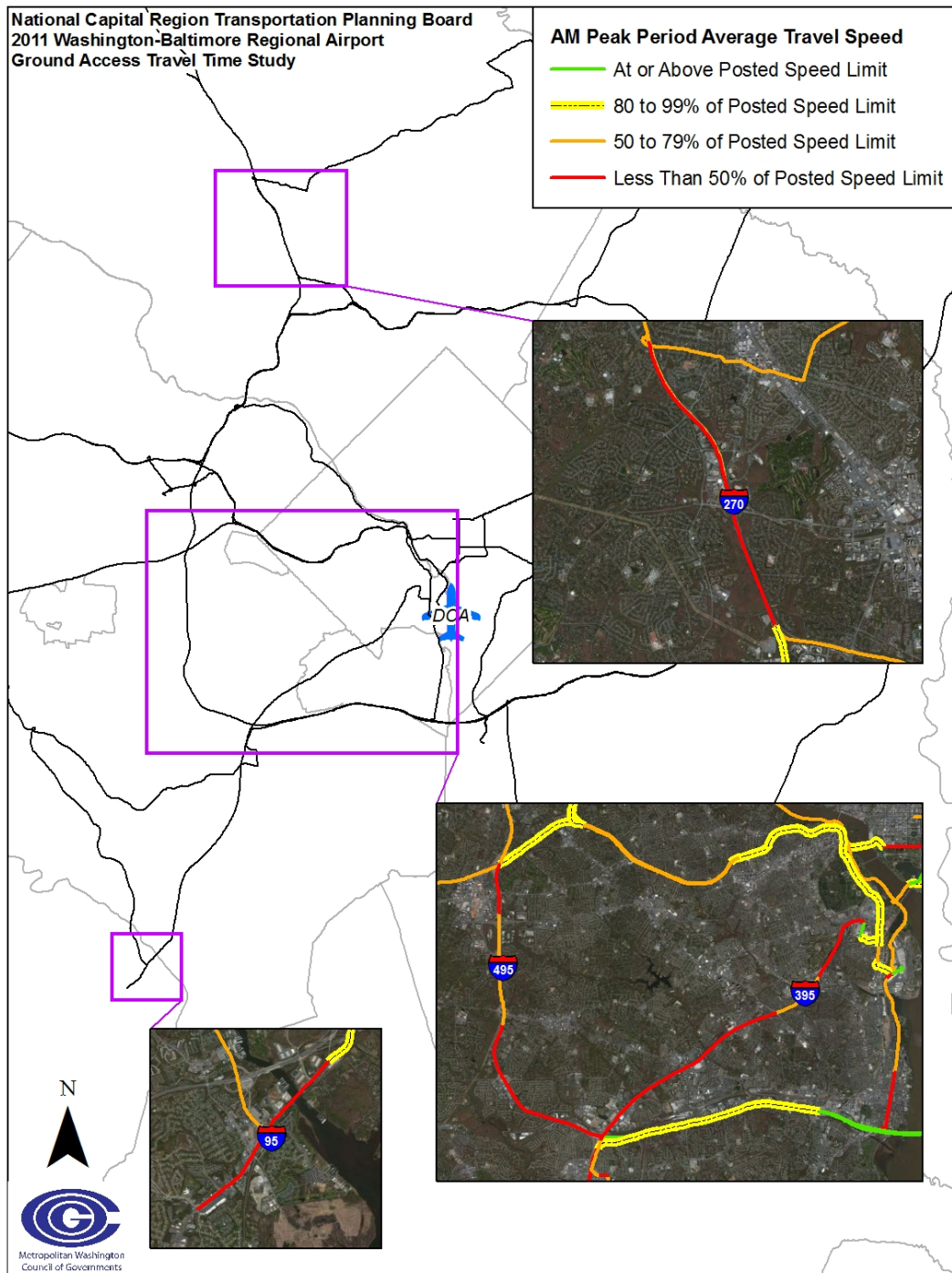


Figure 12: Congested Bottlenecks Traveling to DCA – Mid-Day Period

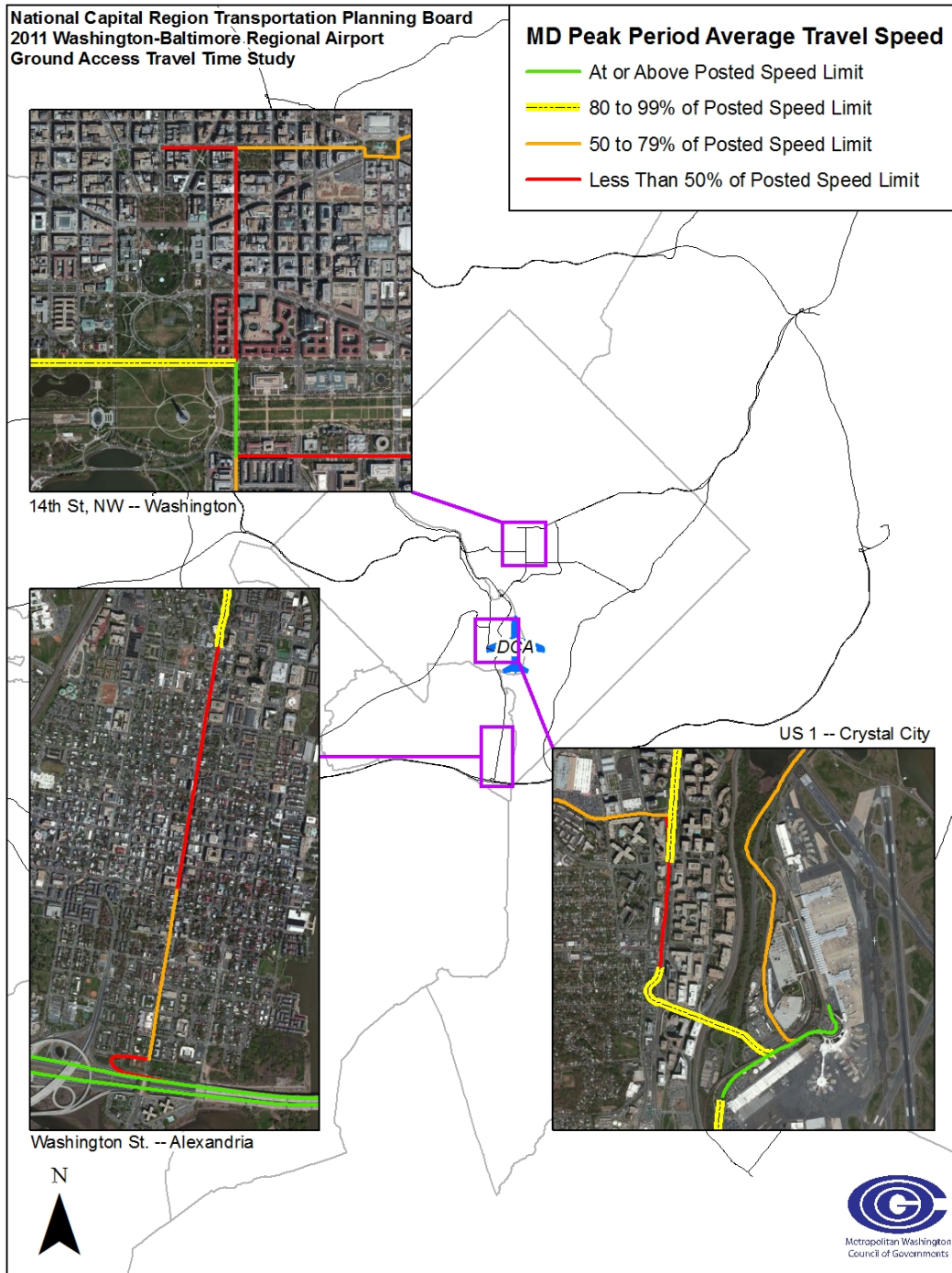


Figure 13: Congested Bottlenecks Traveling to DCA – PM Peak Period

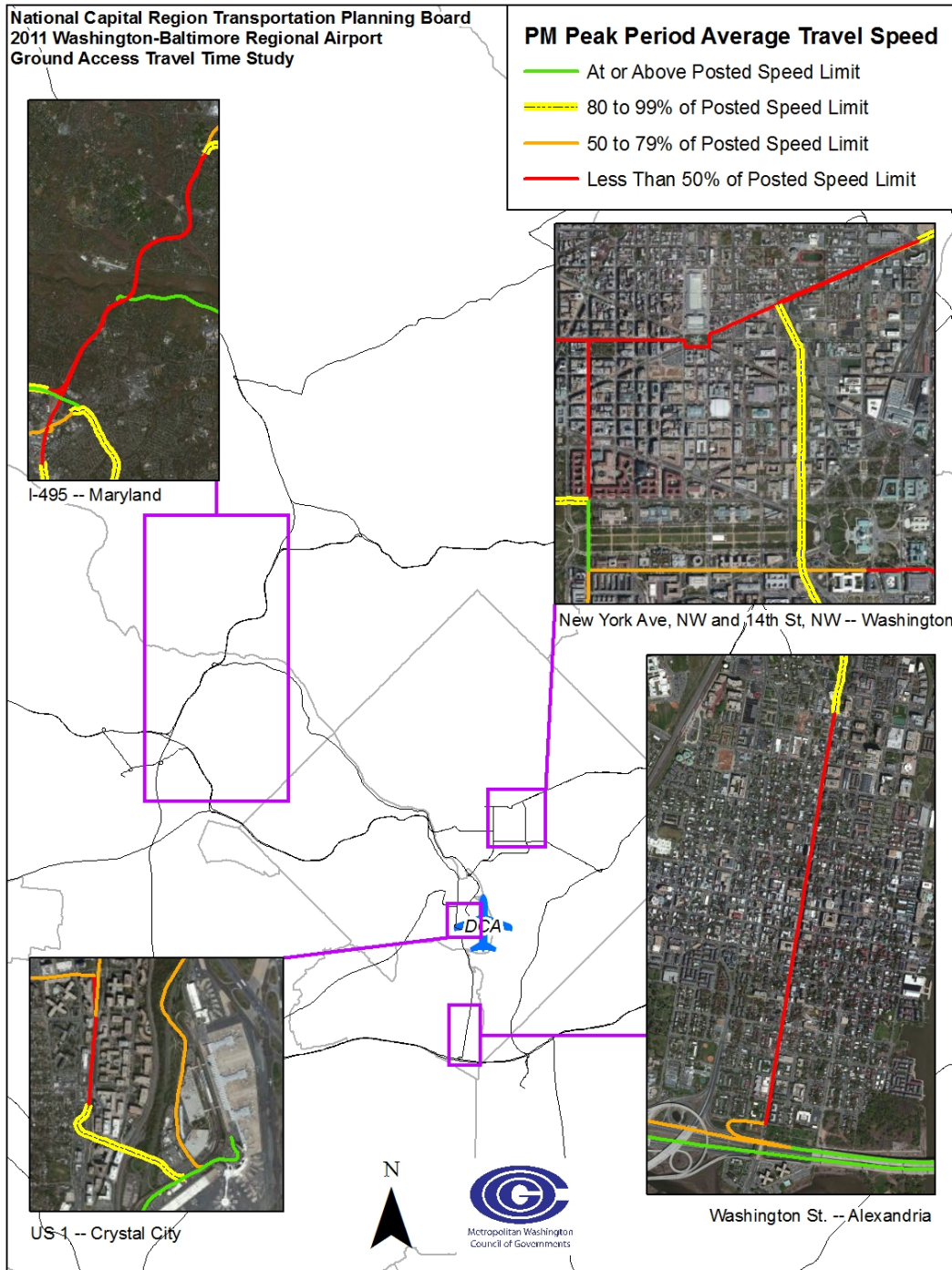


Figure 14: Congested Bottlenecks Traveling to BWI – AM Peak Period

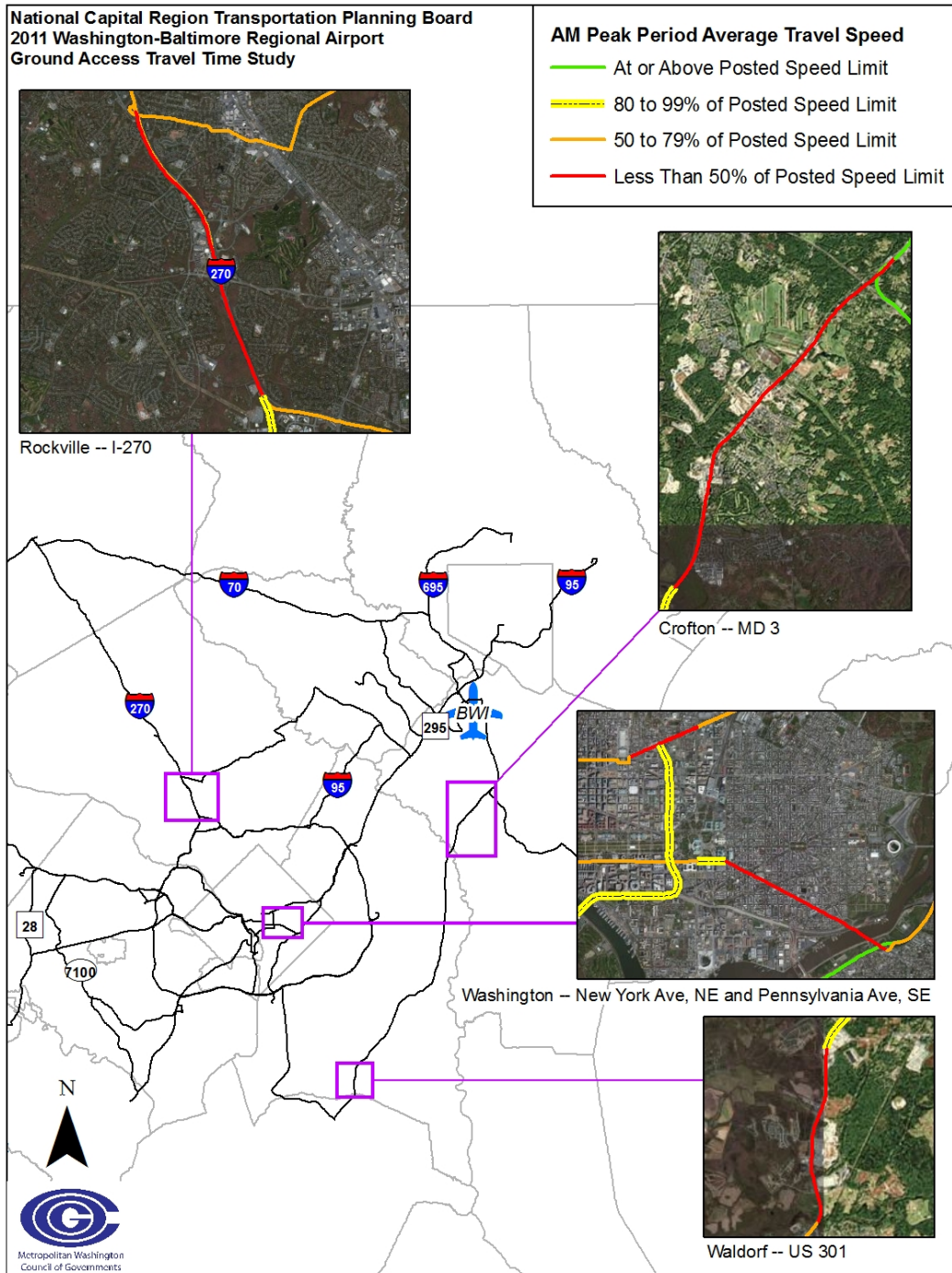


Figure 15: Congested Bottlenecks Traveling to BWI – Mid-Day Period

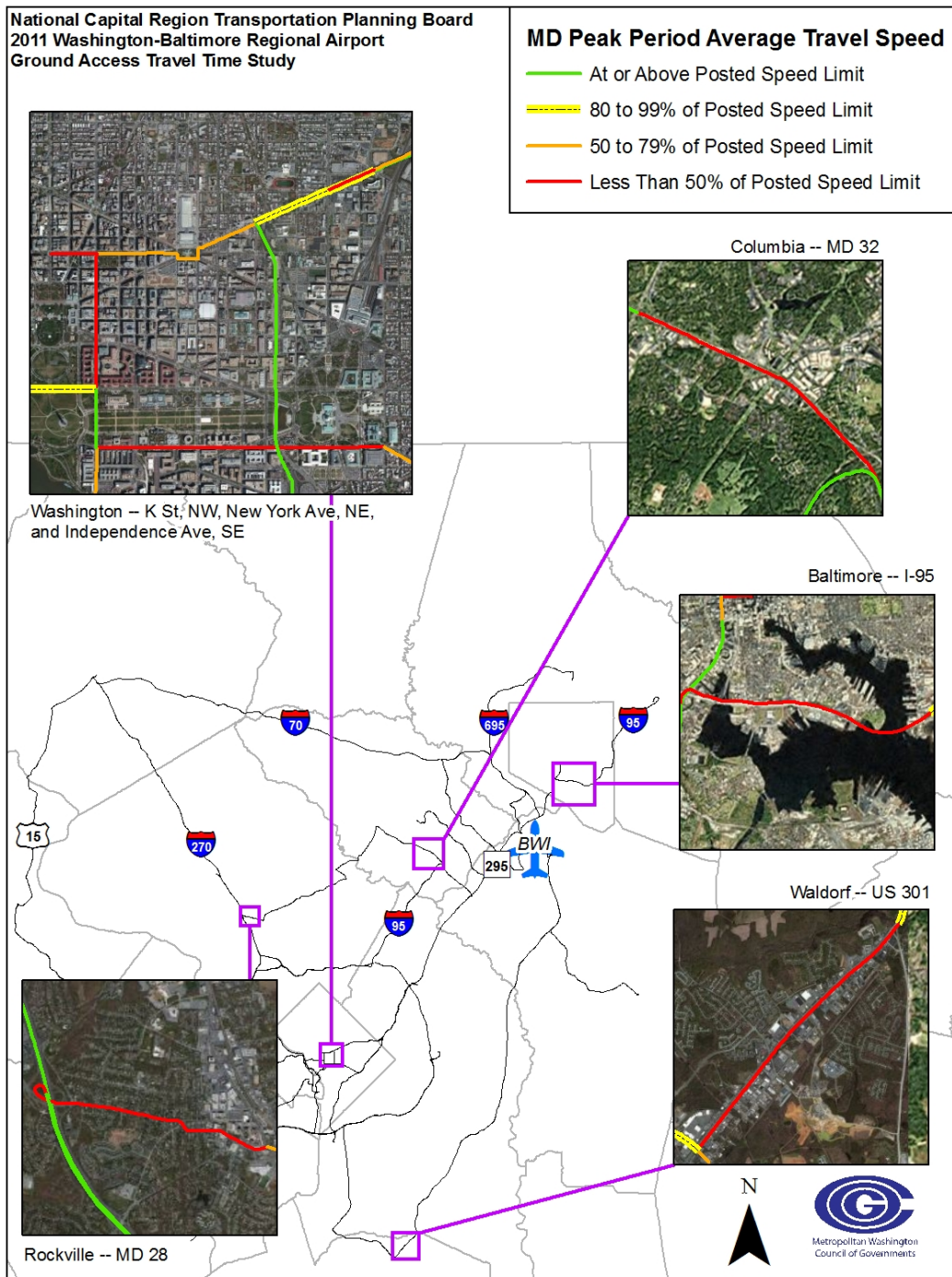


Figure 16: Congested Bottlenecks Traveling to BWI – PM Peak Period

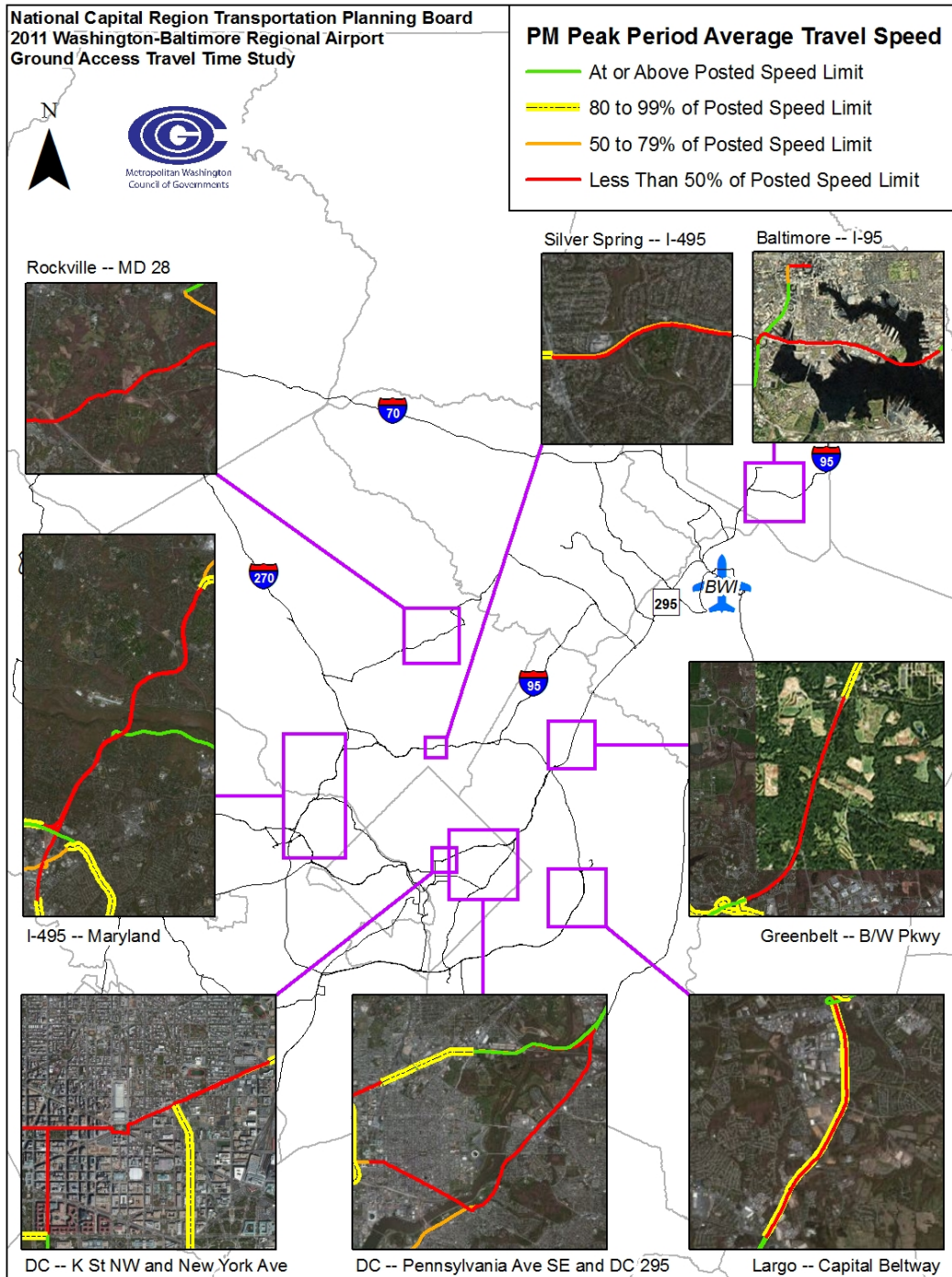


Figure 17: Congested Bottlenecks Traveling to IAD -- AM Peak Period

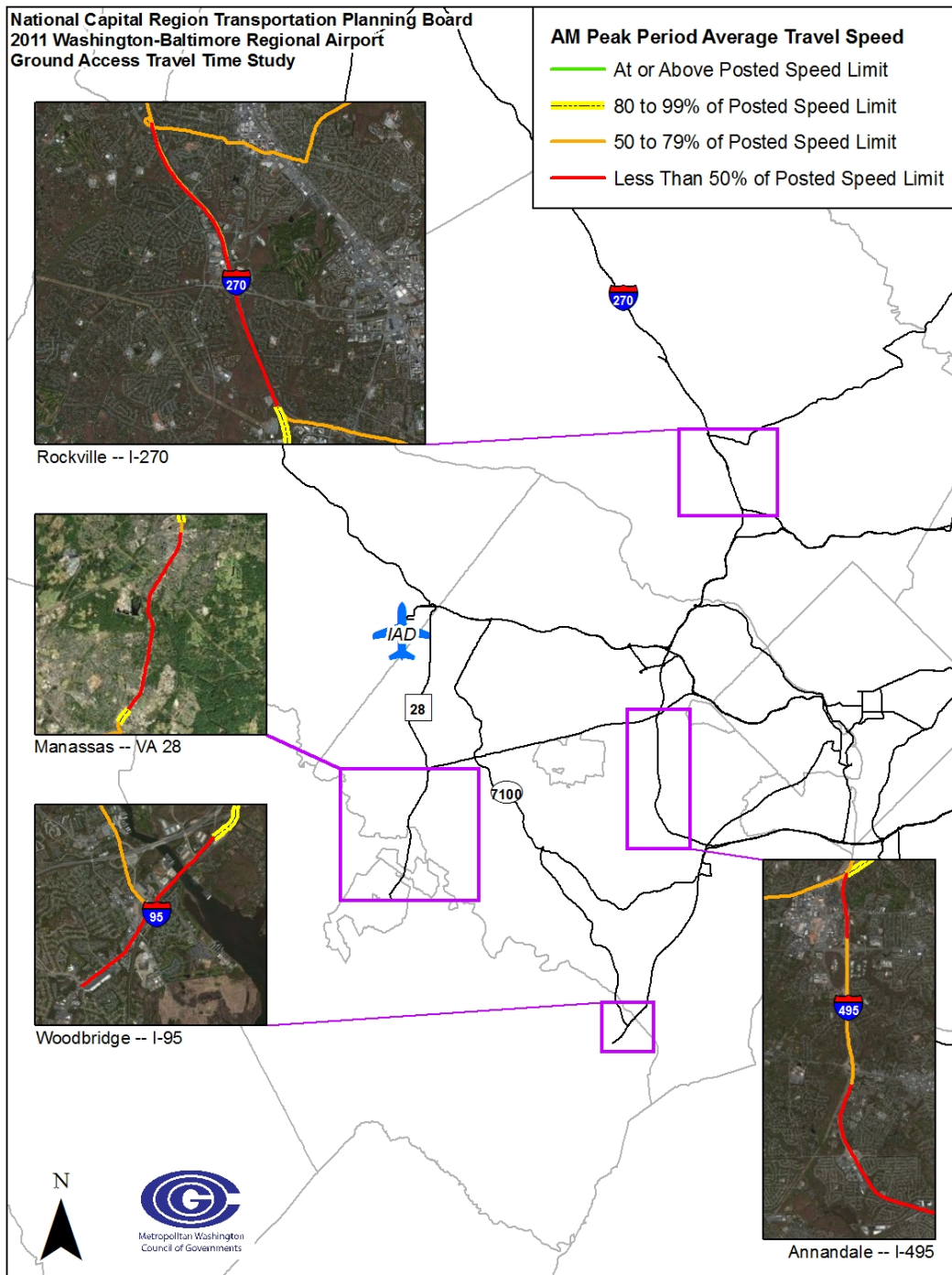
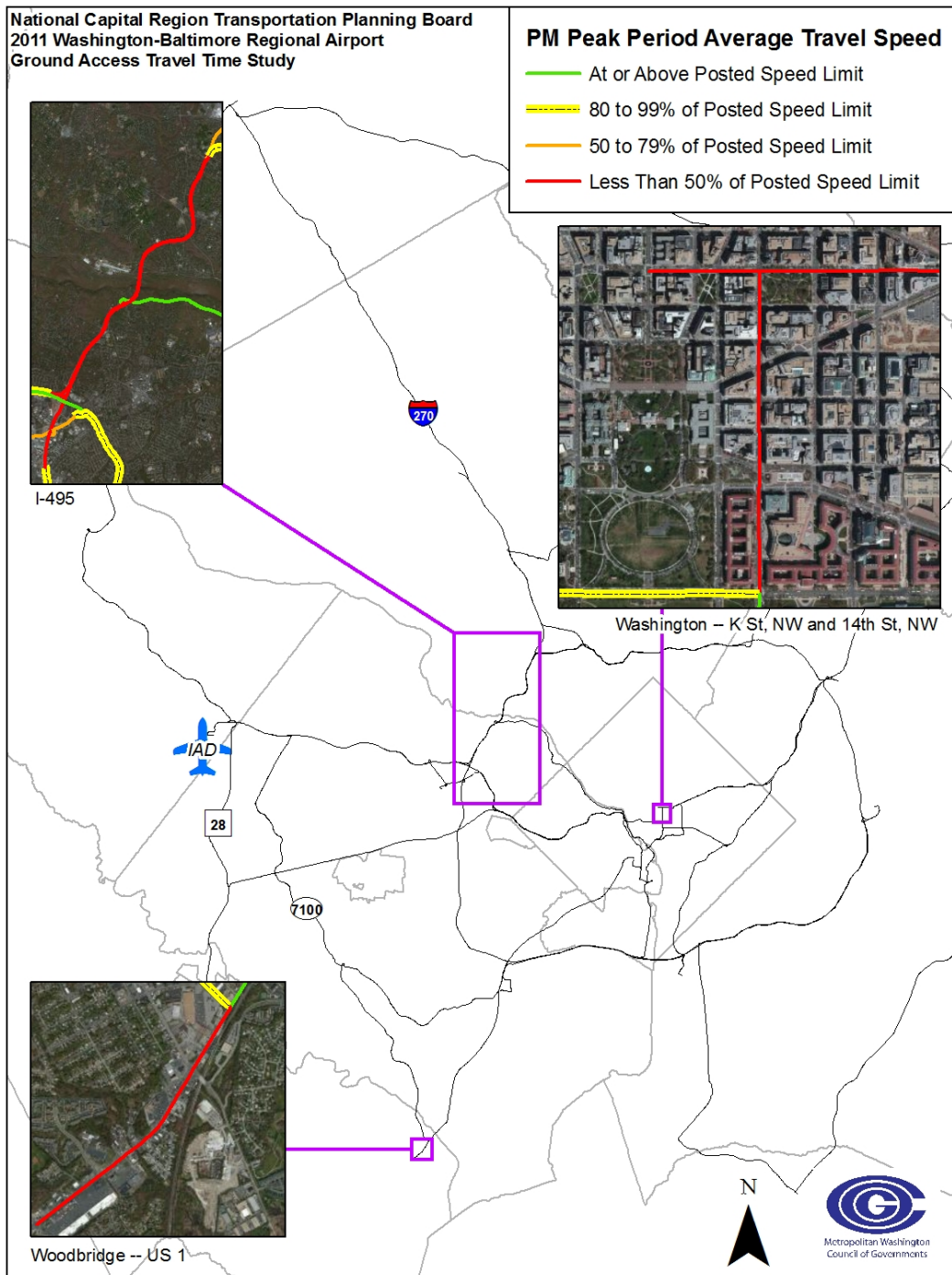


Figure 18: Congested Bottlenecks Traveling to IAD – Mid-Day Period



Figure 19: Congested Bottlenecks Traveling to IAD – PM Peak Period



COMPARISON WITH PREVIOUS STUDIES

Table 7 through Table 12 compare travel times and travel speeds at each airport across the three previous regional airport ground access travel time studies, for those activity centers that were analyzed previously. Figure 20 through Figure 25 provides a visual comparison of the same information. The variability over the four time points cannot be easily explained for some activity centers.

Table 13 through Table 15 compare only the 2003 and 2011 travel times for each airport for all time periods. For nearly all activity centers to all three airports for all time periods, travel times have increased between 2003 and 2011. These changes are illustrated in Figure 26 through Figure 34.

Table 7: Comparison of AM Peak Period Travel Times to DCA

Activity Center	1988	1995	2003	2011
Woodbridge	68.6	54.5	40.6	76.2
Tysons Corner	27.8	20.1	39.9	42.2
Rockville	41.5	33.4	50.3	51.8
Washington, D.C.		8.9	12.7	13.3

Table 8: Comparison of AM Peak Period Average Travel Speeds to DCA

Activity Center	1988	1995	2003	2011
Woodbridge	19	24	35	25
Tysons Corner	31	42	27	31
Rockville	35	44	33	36
Washington, D.C.		26	25	28

Table 9: Comparison of PM Peak Period Travel Times to IAD

Activity Center	1988	1995	2003	2011
Tysons Corner	18.1	16.7	23.9	25.3
Rockville	39.7	36.2	38.5	54.5
Washington, D.C. (16th & K)	40	43.1	51.5	44.2

Table 10: Comparison of PM Peak Period Travel Speeds to IAD

Activity Center	1988	1995	2003	2011
Tysons Corner	44	48	51	44
Rockville (I-495/95)	42	47	50	40
Washington, D.C. (16th & K)	40	37	39	41

Table 11: Comparison of PM Peak Period Travel Times to BWI

Activity Center	1988	1995	2003	2011
Rockville	54.9	53.8	49.4	86.4
Washington, D.C. (16th & K)	47.9	46.7	64.2	61.5
Baltimore	14.6	18.7	20.9	25.1
Annapolis	38.7	29.7	34.8	38.5
Rockville (Rt. 28)	55.6	52.6	61.5	75.0
Washington, D.C., 14th & Indp.		32.85	60.8	80.2

Table 12: Comparison of PM Peak Period Average Speeds to BWI

Activity Center	1988	1995	2003	2011
Rockville (I-495/95)	46	46	51	38
Washington, D.C. (16th & K)	39	40	39	35
Baltimore	38	30	31	37
Annapolis	36	50	36	36
Rockville (Rt. 28)	38	41	38	37
Washington, D.C., 14th & Indp.		38	38	39

Figure 20: Comparison of AM Peak Period Travel Times to DCA

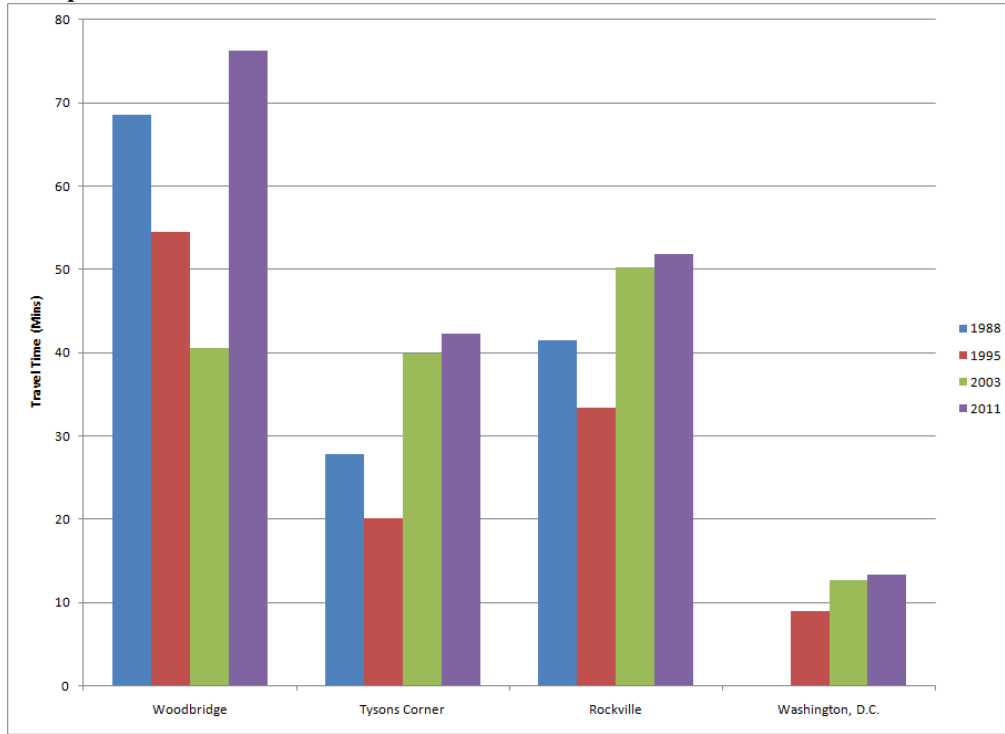


Figure 21: Comparison of AM Peak Period Average Travel Speeds to DCA

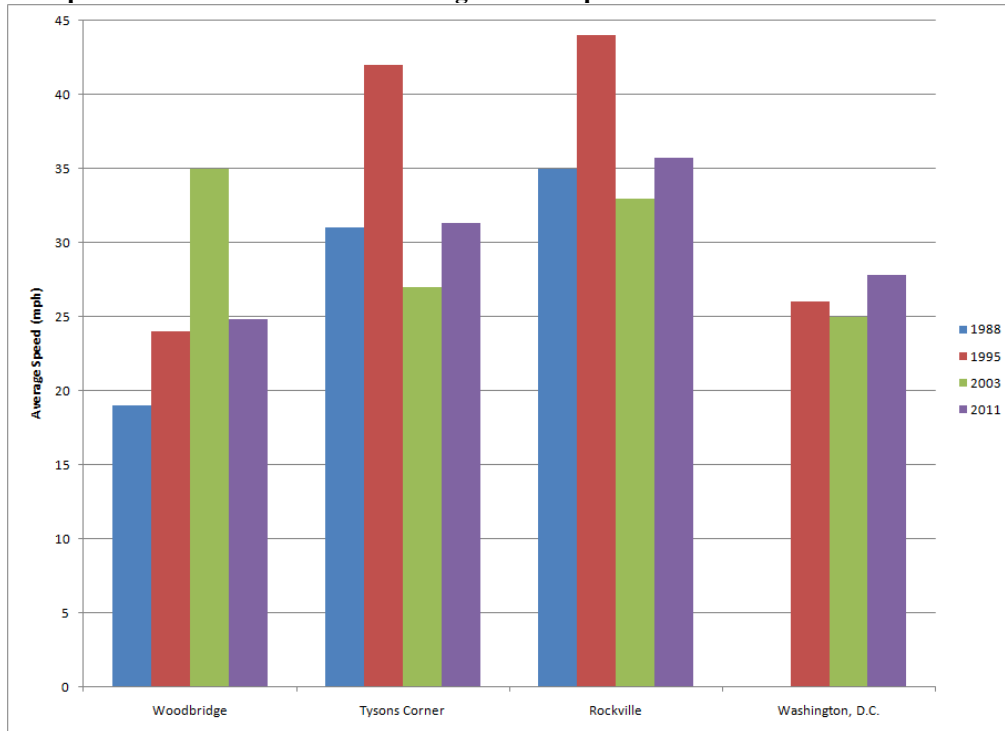


Figure 22: Comparison of PM Peak Period Travel Times to IAD

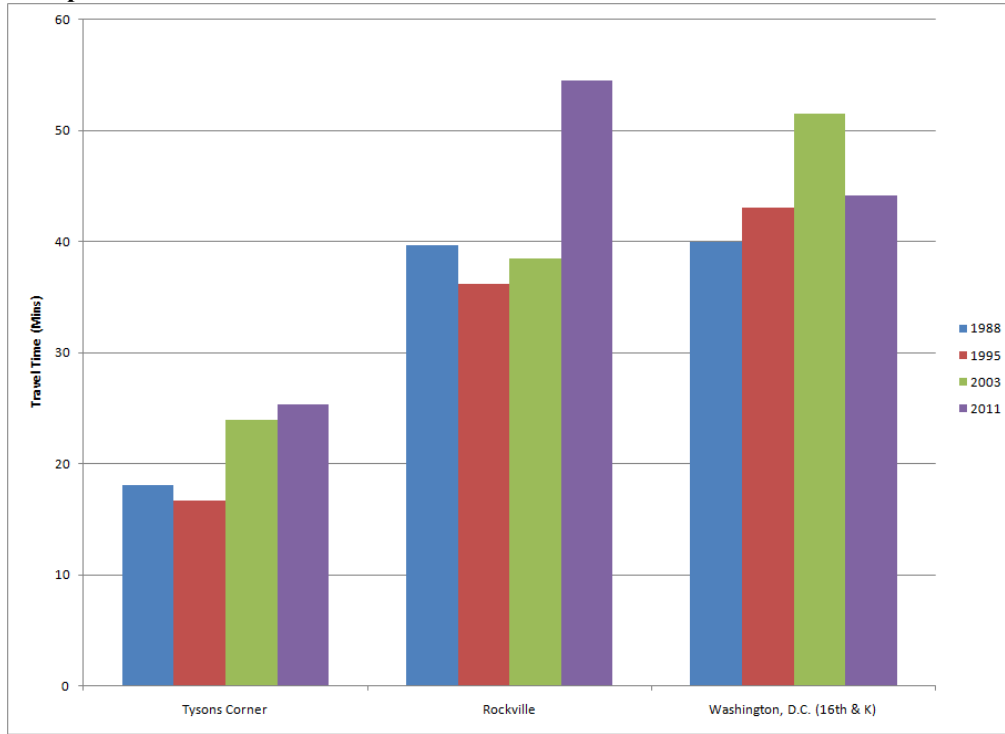


Figure 23: Comparison of PM Peak Period Average Speeds to IAD

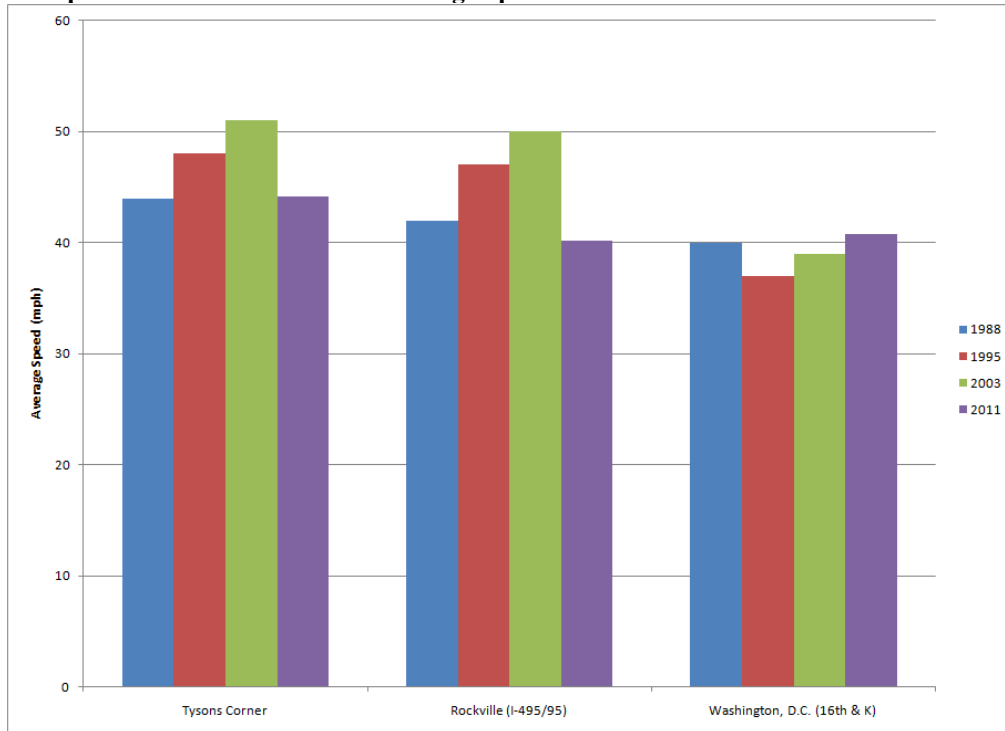


Figure 24: Comparison of PM Peak Period Travel Times to BWI

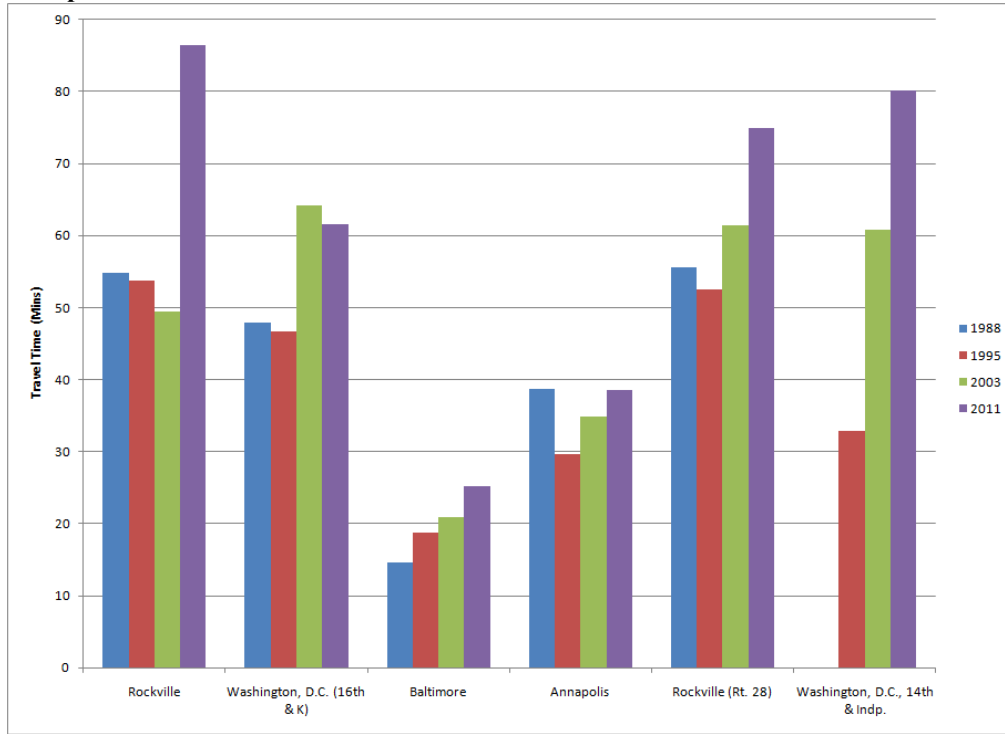


Figure 25: Comparison of PM Peak Period Travel Speeds to IAD

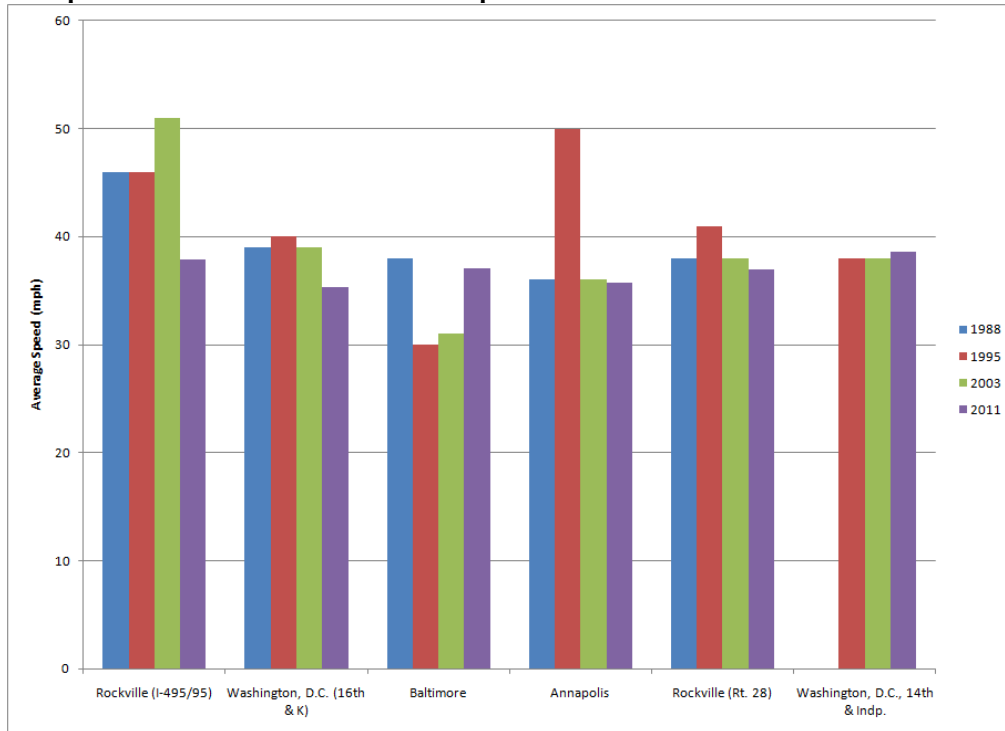


Table 13: Comparison of 2003 and 2011 Travel Times to BWI

	2003	2003	2003	2011	2011	2011
	AM	MD	PM	AM	MD	PM
Annapolis, MD	32.2	37.1	34.8	37.0	36.9	38.5
Baltimore, MD	17.0	15.3	21.0	18.5	20.4	25.1
Columbia, MD	25.8	31.8	31.7	32.7	29.7	33.7
Frederick, MD	60.8	39.8	55.9	67.1	70.2	56.2
Gaithersburg, MD(I-495/I-95)	63.0	50.7	37.5	78.2	53.9	82.7
Greenbelt, MD	25.6	26.7	26.6	25.5	25.6	31.2
Largo, MD	32.0	28.8	36.4	34.7	34.8	41.5
National Harbor, MD	56.5	46.1	67.7	43.4	45.5	60.1
Rockville, MD (I-495/I-95)	57.1	49.0	49.4	78.0	57.3	86.4
Rockville, MD (Rt. 28/32)	56.6	51.4	61.5	59.6	56.5	75.0
Towson, MD	41.1	29.8	44.2	41.5	33.4	38.8
Waldorf, MD	74.8	73.7	68.0	90.3	77.7	72.1
Washington, DC (16th and K)	42.5	45.5	64.2	48.4	48.5	61.5
Washington, DC (14th and Independence)	48.5	44.2	60.8	47.9	46.7	80.2
White Marsh, MD	31.6	30.8	32.8	37.7	29.0	27.7

Figure 26: Comparison of 2003 and 2011 AM Peak Period Travel Times to BWI

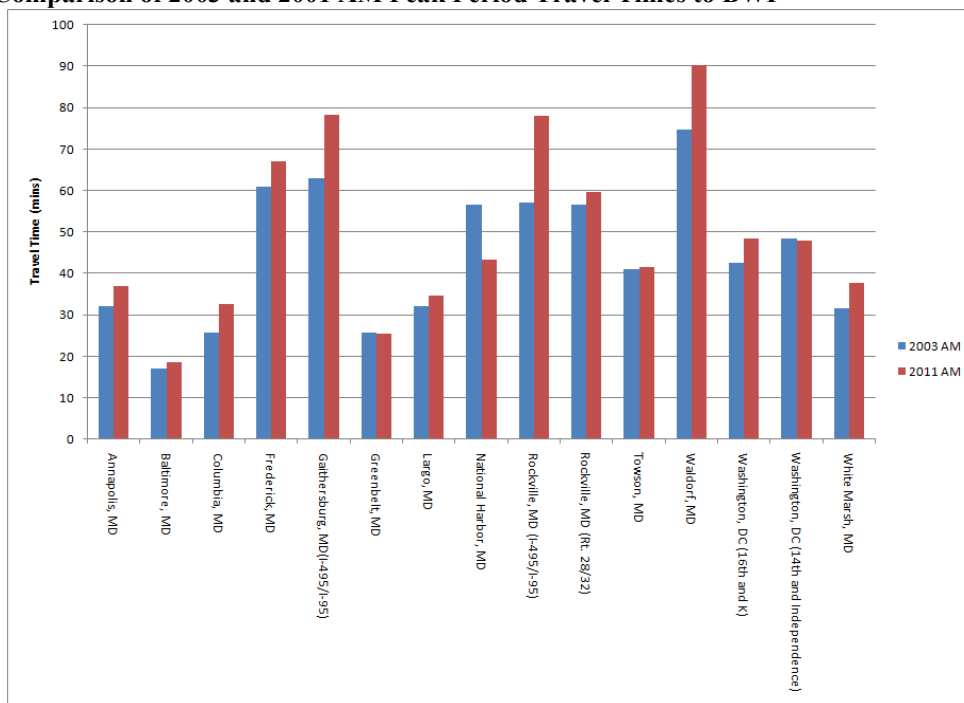


Figure 27: Comparison of 2003 and 2011 Mid-Day Travel Times to BWI

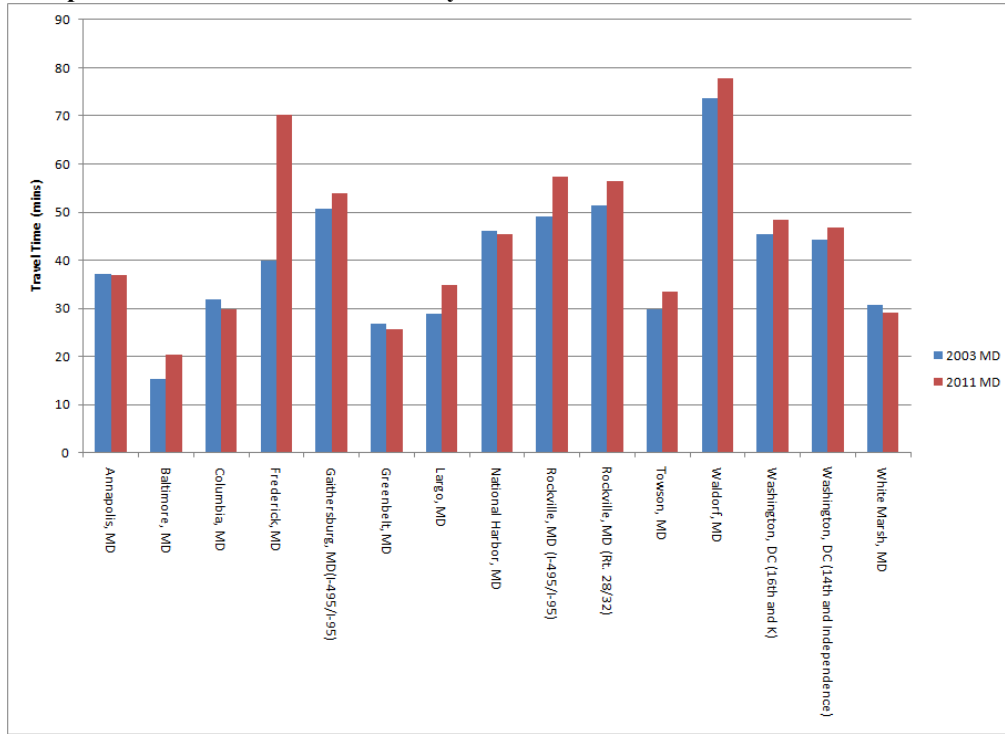


Figure 28: Comparison of 2003 and 2011 PM Peak Period Travel Times to BWI

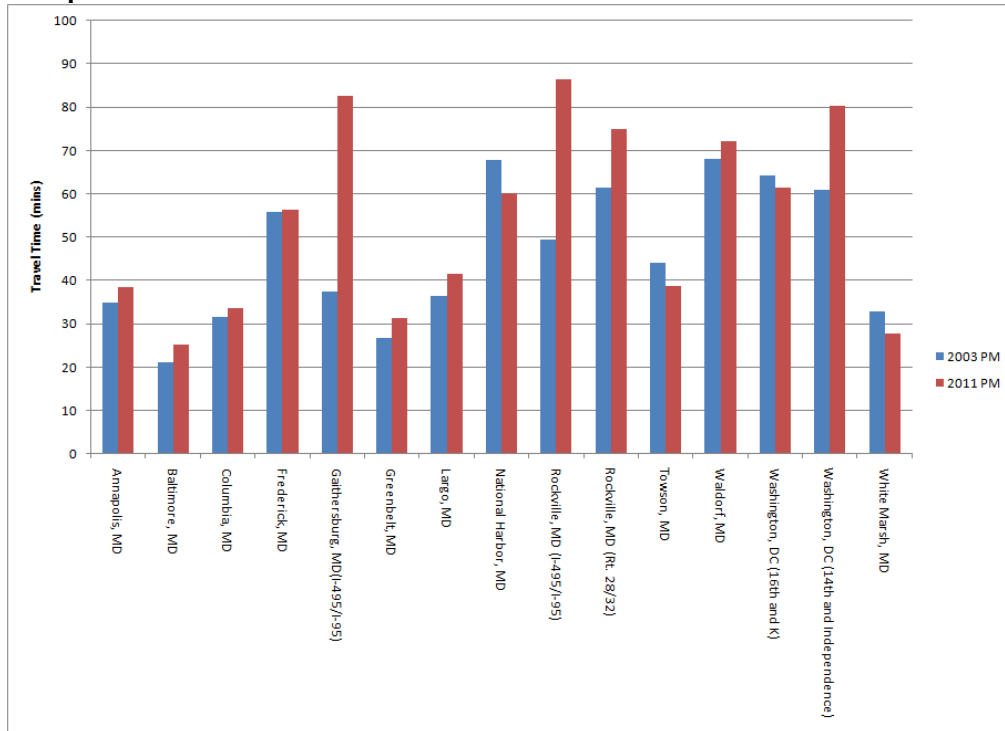


Table 14: Comparison of 2003 and 2011 Travel Times to DCA

DCA	2003 AM	2011 AM	2003 MD	2011 MD	2003 PM	2011 PM
Frederick, MD *	88.1	78.4	57.3	53.1	65.0	67.3
Gaithersburg, MD * (I-495/I-95)	55.9	51.9	34.5	32.8	42.0	47.7
Greenbelt, MD *	40.8	40.8	31.7	30.0	31.6	40.6
Largo, MD *	41.8	42.4	30.7	34.4	29.5	33.9
National Harbor, MD *	36.0	29.6	25.0	20.6	26.8	22.1
Rockville, MD (I-495/I-95)	50.3	51.8	32.3	36.2	41.6	51.4
Sprigfield/Franconia, VA *	28.7	50.8	24.0	23.7	22.8	24.4
Tyson's Corner, VA	40.0	42.2	22.9	32.0	24.8	44.3
Waldorf, MD *	55.3	58.1	41.4	41.2	43.4	46.8
Washington, DC (16th and K)	12.7	13.3	12.7	13.8	15.1	16.6
Woodbridge, VA	40.5	76.2	38.1	32.2	30.1	35.1

Figure 29: Comparison of 2003 and 2011 AM Peak Period Travel Times to DCA

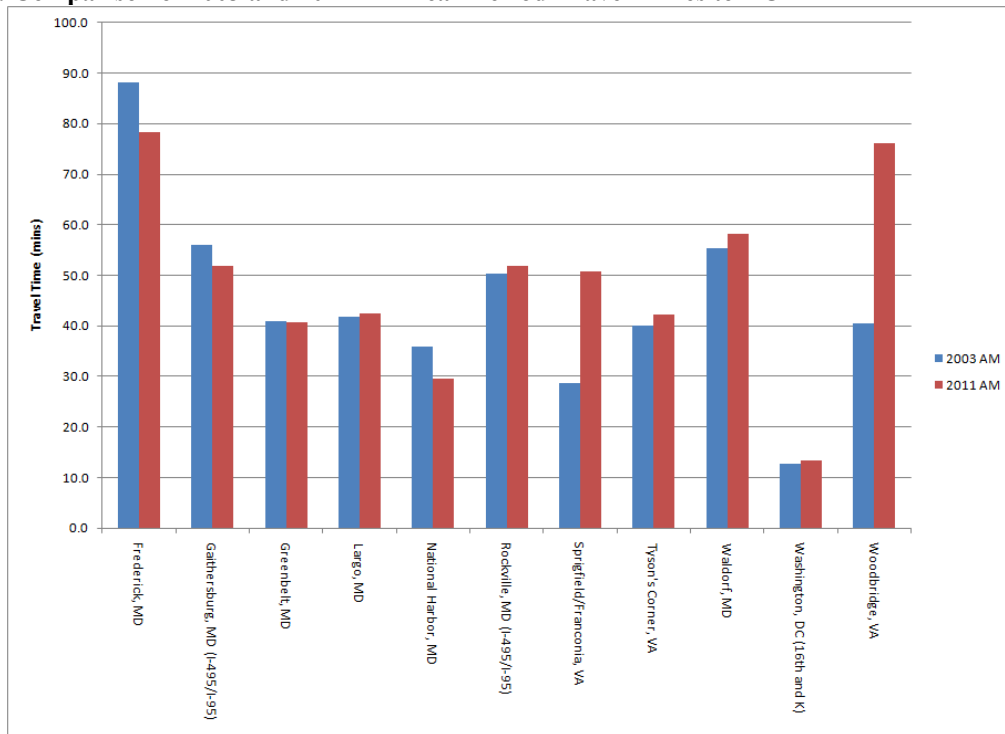


Figure 30: Comparison of 2003 and 2011 Mid-Day Travel Times to DCA

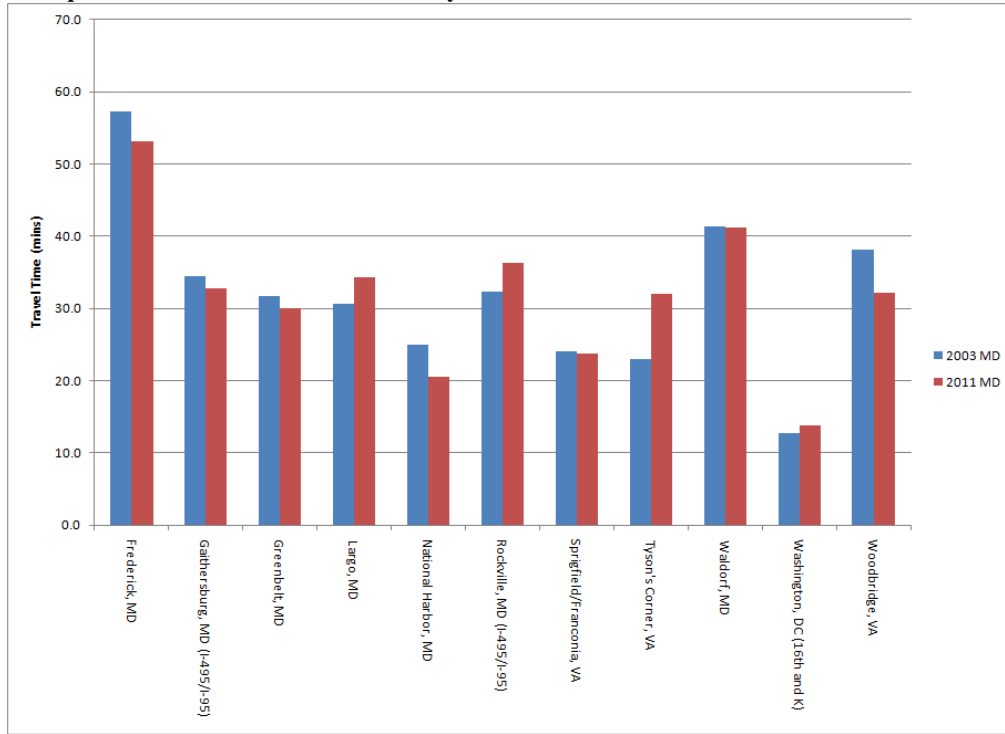


Figure 31: Comparison of 2003 and 2011 PM Peak Period Travel Times to DCA

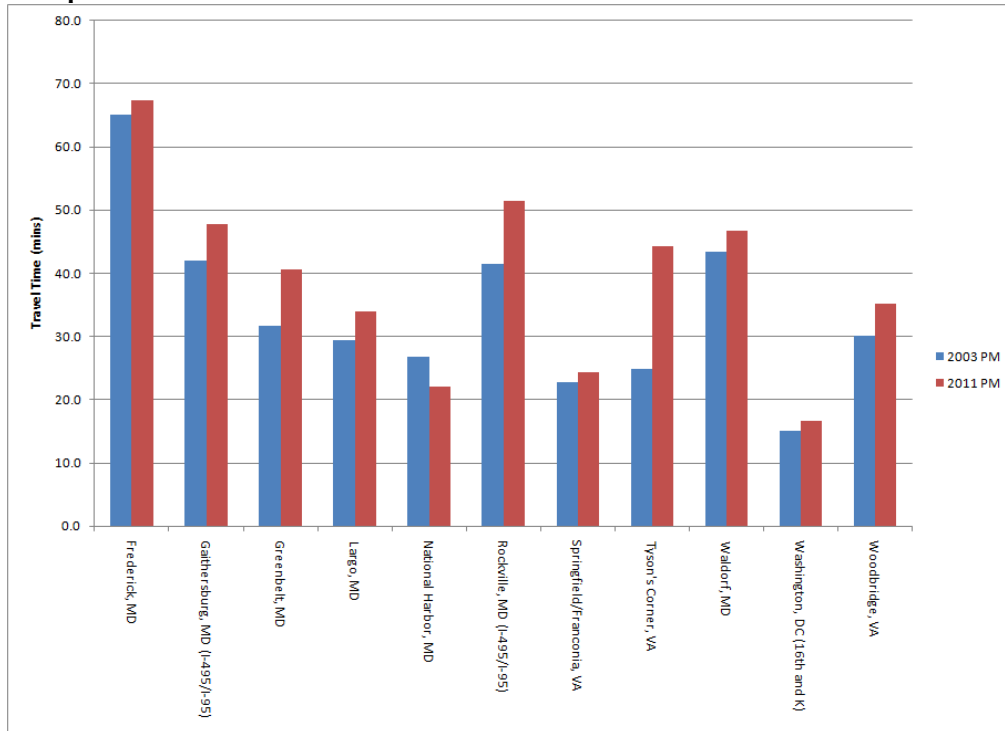


Table 15: Comparison of 2003 and 2011 Travel Times to IAD

	2003 AM	2011 AM	2003 MD	2011 MD	2003 PM	2011 PM
Frederick, MD	55.5	50.4	53.1	61.5	49.6	51.9
Gaithersburg, MD (I-495/I-95)	48.5	34.6	39.8	51.4	35.4	50.8
Greenbelt, MD	93.0	50.5	66.6	72.5	43.1	70.9
Largo, MD	71.2	49.7	52.8	67.4	56.8	62.1
Manassas, VA	42.1	46.9	40.6	52.1	44.0	36.7
National Harbor, MD	65.3	44.0	50.1	54.6	43.0	50.3
Rockville, MD (I-495/I-95)	42.9	32.7	38.5	51.2	38.8	54.5
Springfield/Franconia, VA	48.5	49.5	46.3	58.3	42.7	49.1
Tysons Corner, VA	17.2	17.4	23.9	25.9	22.2	25.3
Waldorf, MD	84.6	60.3	66.7	83.8	64.4	75.9
Washington, DC (16th and K)	44.1	37.8	51.5	42.8	38.9	44.2
Woodbridge, VA	57.8	45.5	49.1	70.2	44.9	51.2

Figure 32: Comparison of 2003 and 2011 AM Peak Period Travel Times to IAD

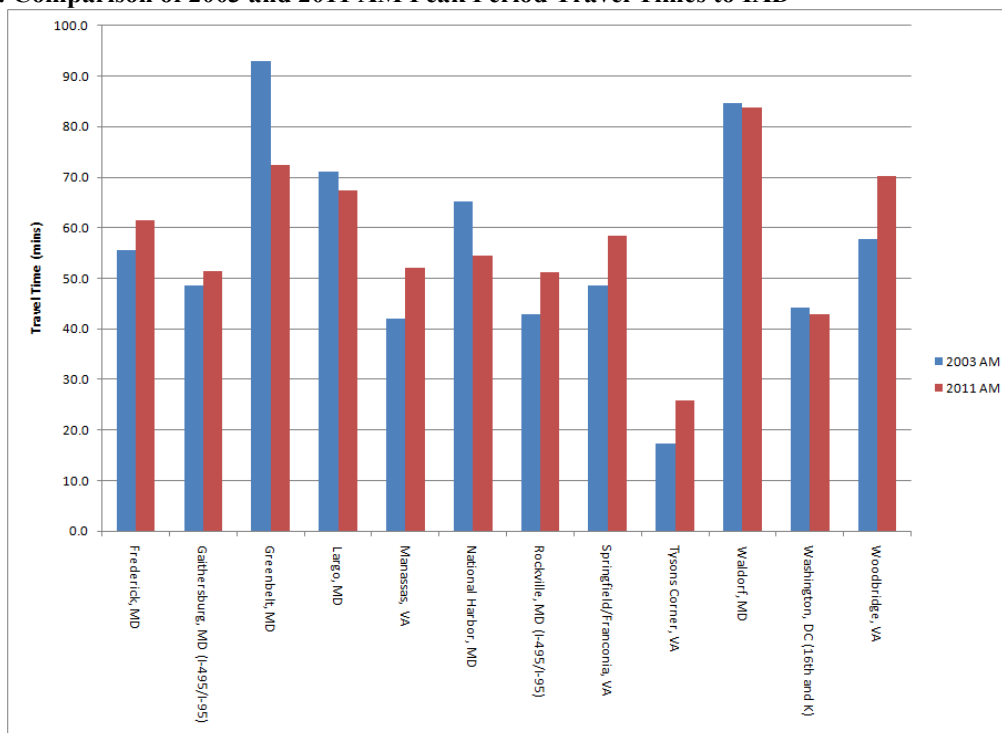


Figure 33: Comparison of 2003 and 2011 Mid-Day Travel Times to IAD

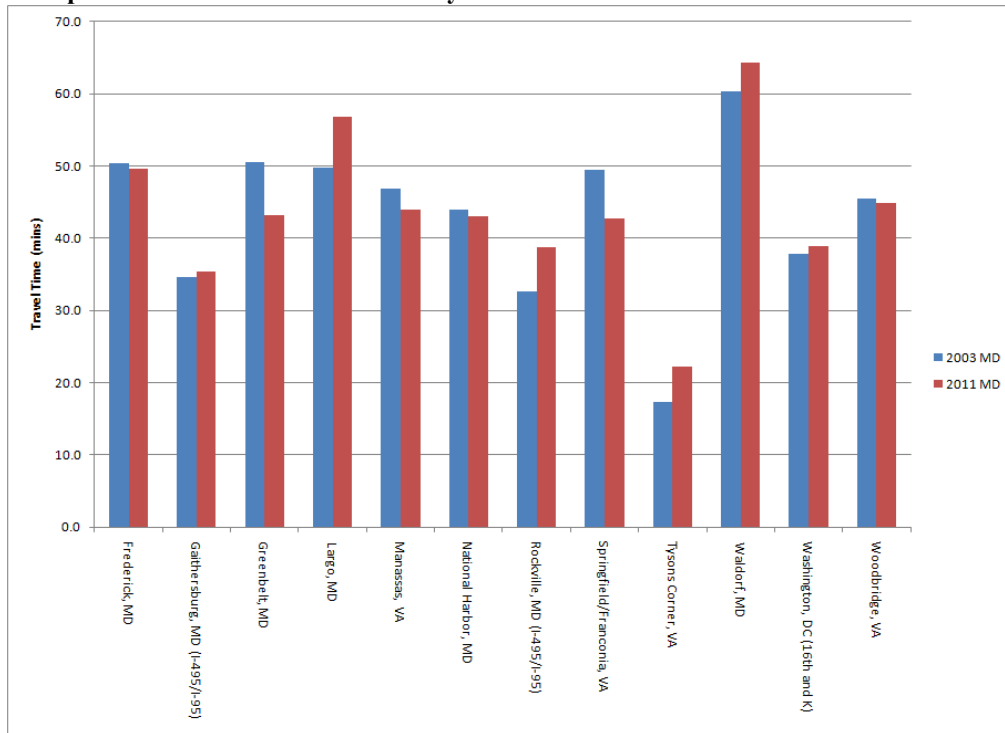
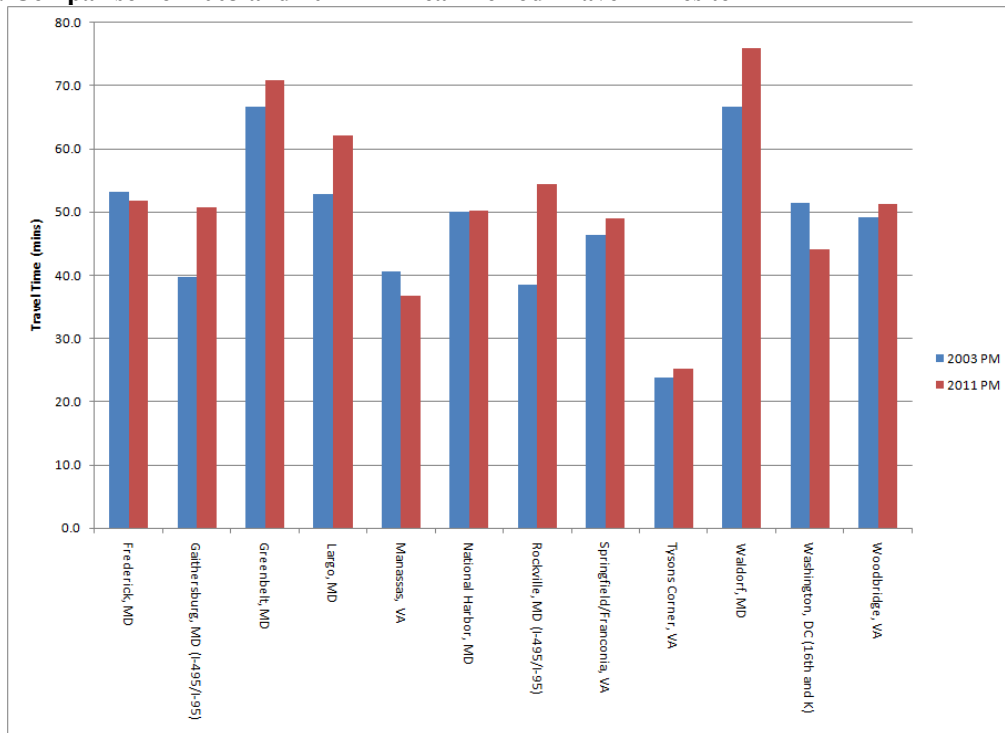


Figure 34: Comparison of 2003 and 2011 PM Peak Period Travel Times to IAD



NON AUTOMOBILE GROUND ACCESS

The most predominant mode of travel for passengers going to and from the three commercial airports has been the automobile, including private cars, rental cars and taxi cabs. Based on the Washington-Baltimore Regional Air Passenger Survey data, almost 95 percent of the region's originating air passengers used modes of transportation to the airport that travel by way of the highway network (autos, taxis, rental cars, airport bus/limo, hotel/motel curtesy bus). Only five (5) percent of the originating passenger trips used fixed rail transportation services to access the airports.

This section summarizes non-automobile ground access travel times from selected activity centers to the three commercial airports. The travel times summarized in this report are taken from published schedules by the service providers. The data does not include access time to the services, possible wait times, or egress times from the service to the airport terminals. Travel time data from activity centers to each of the airports are provided by time period.

1. Ronald Reagan Washington National Airport

Non-automobile ground access to Ronald Reagan Washington National is provided by the Metrorail system and by the Washington Flyer Express Bus service.

From Gaithersburg, access to the Metrorail system is provided by Ride-On bus. The overall average scheduled travel time to national airport (not including transfer time from Ride-On), to Ronald Reagan National Airport on Metrorail is 50 to 55 minutes, during the AM and PM peak, and the Noon non-peak periods respectively. This time assumes a three (3) to five (5) minutes transfer time from Red Line to Yellow Line at Gallery Place Station or Red Line to Blue Line at Metro Center Station. From Rockville, using the same Metrorail lines, the travel time ranges from 45 to 50 minutes with the same travel pattern for the same time periods. Auto travel time from Gaithersburg and Rockville to National airport would be 55 to 50 minutes for the Am peak, 30 to 35 minutes during the Noon, and 40 to 42 minutes during the PM peak periods respectively.

From downtown Washington, travel time to Ronald Reagan National is scheduled to be between 20 to 22 minutes, from Farragut North Station, including transfer time at either Metro Center or Gallery Place stations. Auto travel time ranges from 13 to 15 minutes for the same time periods.

Service to Greenbelt Metro Station from Greenway Shopping Center is provided by Metro Bus R12, with an average travel time of 15 minutes. From Greenbelt Metro Station to Ronald Reagan National Airport Metro Station, the average scheduled

travel time is 35 to 40 minutes, including a 3 to 5 minutes transfer time at Gallery Place, during the AM and PM peak, and noon time periods respectively. Therefore the overall average travel time from Greenway Shopping Center to National Airport would be 50 to 55 minutes. The average travel time by car for the same time periods ranges from 41 minutes during the AM peak, 32 minutes for the mid-day and PM peak periods.

From Springfield/Franconia, to Ronald Reagan National on the average is 20 minutes on the Blue Line service. In comparison, auto travel time ranges from 30 minutes during the AM period, 25 minutes for the mid-day and PM peak periods.

2. Washington Dulles International Airport

Non-automobile ground access to Dulles International Airport is provided by the Washington Flyer Express Bus service and Metrobus DC-Dulles Line 5A. The Washington Flyer provides service from West Falls Church Metrorail Station to the airport. Therefore a combined Metrorail/Washington Flyer trip from Gaithersburg, Rockville, downtown Washington, Greenbelt and Springfield/Franconia can be analyzed. From West Falls Metro Station the Washington Flyer provides service every half-hour, with a scheduled travel time of 25 minutes.

From Farragut North Metro station (downtown Washington), the average scheduled travel time to West Falls Metrorail Station, (using the Red line and Orange Line), is 20 to 25 minutes, with the assumption of a three (3) to five (5) minutes transfer time during the rush and non-rush hour periods. However, a .1 mile walk to Farragut West Metrorail station would also result in the same travel time. Scheduled travel time from West Falls Church Metrorail station to Dulles Airport by Washington Flyer is 25 minutes. Therefore the overall average travel time from downtown Washington to Dulles International, not including transfer time from metrorail to bus, would be between 45 to 50 minutes for the AM and PM peak periods and Mid-day period respectively. The scheduled travel time by Metrobus line 5A, from L'Enfant Plaza to Dulles Airport is 60 minutes for the AM and PM peak periods and 45 minutes during the mid-day period. In comparison travel time by auto is 45 minutes during the AM peak, 38 minutes for the mid-day and 52 minutes for the PM period.

From Franconia/Springfield to West Falls Metro station, the average travel time using the Blue line and Orange line would be 50 minutes during the AM and PM peak periods and 56 minutes during mid-day period including transfer time at Rosslyn metrostation. The combined travel time to Dulles International is 75 to 81 minutes during the AM and PM peak and mid-day periods respectively. Fairfax Connector bus line 401 provides service from Franconia to Dunn Loring metro station with a 53 minutes travel time. Not including transfer time at Dunn Loring, the combined Fairfax Connector/Metro, average travel; time to West Falls Metro Station is 57

minutes, and with the Washington Flyer it will be 80 to 85 minutes. Average auto travel time on the other hand is between 45 to 50 minutes.

Travel time from Greenbelt to West Falls Metro station by way of the Green Line and the Orange Line is between 65 to 75 minutes for the AM and PM peak period and Mid-day periods, including a seven (7) to fifteen (15) minutes transfer time respectively. The combined travel time to Dulles together with the Washington Flyer is between 90 to 100 minutes. In comparison auto travel time from Greenbelt to Dulles Airport is 93 minutes for the AM peak, 51 minutes for the mid-day and 66 minutes for the PM peak periods.

From Gaithersburg with a 10 minutes Ride-On bus time, from Shady Grove metro station to West Falls Church, the average travel time is 62 to 68 minutes including a six (6) to twelve (12) minutes transfer time at Metro Center Metrorail station. Together with the Washington Flyer, the combined travel time is 87 to 93 minutes for the AM and PM peak and Mid-day peak periods respectively. From Rockville to Dulles Airport is between 77 to 83 minutes. Auto travel time, in comparison from Gaithersburg is 49 minutes for the AM peak, 35 minutes for the Mid-day and 40 minutes for the PM peak period. From Rockville, auto travel time is 43 minutes for the AM, 33 minutes for the mid-day and 38 minutes for the PM peak periods.

3. Baltimore/Washington International Airport

Non-automobile ground access to BWI Airport is provided by train and shuttle bus services, from downtown Baltimore and Washington, Greenbelt, Columbia, Tri-County, and Annapolis. From Baltimore Penn Station rail service is offered to BWI Rail Station on both MARC and Amtrak trains. Total travel time from downtown Baltimore to BWI by both MARC and Amtrak would be 23 to 27 minutes including an average of 10 minutes travel time to Penn Station, and does not include trips from the train station to the terminal. Auto travel from downtown Baltimore averaged 17 minutes for the AM, 15 minutes during the mid-day and 20 minutes for the PM peak periods.

Rail services are provided by Amtrak and MARC trains from Washington's Union Station to BWI. From Farrgut North station, the average travel time by rail to Union Station is 7 minutes, not including transfer time at Union Station from metrorail to MARC/Amtrak, the average travel time to BWI Rail station is 42 to 45 minutes, not including travel to the airport terminal. In comparison, the average auto travel time from downtown Washington to BWI airport is 45 minutes for the AM and mid-day peak, periods, and over 60 minutes during the PM peak hour.

Express bus service is provided by WMATA from Greenbelt Metrorail station to BWI terminal on line B30. The average scheduled travel time is 30 minutes, to the main airport terminal. In comparison, the average travel time by auto from Greenbelt, Greenway Shopping center to BWI terminal is between 25 to 30 minutes.

Airport Shuttle service started operating in 2003 for the Tri-County region (Calvert, Charles and St. Mary's counties), from Captain Walter F. Duke Regional Airport to BWI. The average scheduled travel time is 2 hours.

The Howard Transit service, provides the Red Express line from Columbia Mall to BWI Terminal, with an average scheduled travel time of 80 minutes to BWI terminal. These times compare to an average travel time by car between 25 to 30 minutes.

Appendix A: Segment Level Travel Time and Speed Data
AM Peak Period

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

1 Annapolis, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	COLLEGE AVE	EAST ST	BLADEN ST	0.29	15	1.17	12.30	82%
2	ROWE BLVD	COLLEGE AVE	US-301	2.01	40	5.36	22.69	57%
3	US-301	ROWE BLVD	I-97	2.92	55	3.03	57.93	100%
4	I-97	US-301	CRAIN HWY	7.91	60	7.59	62.52	100%
5	I-97	MD-32	DORSEY RD	7.36	60	7.15	61.98	100%
6	AVIATION BLVD	I-97	S CAMP MEADE RD	2.56	45	5.31	32.60	72%
7	AIRPORT LOOP	S CAMP MEADE RD	TERMINAL RD	0.75	35	2.18	23.27	66%
8	TERMINAL RD	AIRPORT LOOP	I-195	0.62	15	2.45	17.86	100%
9	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				25.56		37.03	35.17	

2 Baltimore, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	W FAYETTE ST	N CHARLES ST	N GREENE ST	0.46	25	2.52	11.55	46%
2	S GREENE ST	W FAYETTE ST	WASHINGTON BLVD	0.36	45	2.69	8.14	18%
3	RUSSELL ST	WASHINGTON BLVD	I-95	1.49	45	2.13	41.97	93%
4	BW Pkwy (MD 295)	I-95	I-695	3.89	50	4.23	56.41	100%
5	BW Pkwy (MD 295)	I-695	I-195	2.41	55	3.10	47.00	85%
6	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
7	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
8	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				10.65		18.49	37.34	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

3 Columbia, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LITTLE PATUXENT Pkwy	CENTURY PLZ	GOVERNOR WARFIELD Pkwy	1.48	45	3.85	23.10	51%
2	LITTLE PATUXENT Pkwy	GOVERNOR WARFIELD Pkwy	COLUMBIA PIKE	0.92	45	1.47	38.26	85%
3	MD-175	COLUMBIA PIKE	SNOWDEN RIVER Pkwy	3.18	45	4.67	41.07	91%
4	MD-175	SNOWDEN RIVER Pkwy	I-95	1.57	45	1.70	55.88	100%
5	MD-175	I-95	MD-295	3.63	45	11.43	25.59	57%
6	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
7	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
8	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
9	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				18.47		32.66	41.86	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

4 Frederick, MD to BWI Marshall - MD 100

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.68	43.53	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.77	36.26	66%
3	I-70	US-40	MD-27	15.17	65	14.38	63.38	98%
4	I-70	MD-27	COLUMBIA PIKE	18.94	65	25.41	45.61	70%
5	COLUMBIA PIKE	I-70	BALTIMORE NATIONAL PIKE	1.51	55	1.82	54.55	99%
6	COLUMBIA PIKE	BALTIMORE NATIONAL PIKE	MD-100	1.94	55	2.12	54.13	98%
7	MD-100	COLUMBIA PIKE	I-95	5.17	55	5.89	55.38	100%
8	MD-100	I-95	MD-295	2.79	55	2.91	57.31	100%
9	MD-100	MD-295	MD-170	3.02	50	4.11	53.77	100%
10	MD-170	MD-100	I-195	3.21	50	6.25	34.74	69%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				53.84		67.13	47.64	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

5 Frederick, MD to BWI Marshall - MD 295

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.68	43.53	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.77	36.26	66%
3	I-70	US-40	MD-27	15.17	65	14.38	63.38	98%
4	I-70	MD-27	COLUMBIA PIKE	18.94	65	25.41	45.61	70%
5	I-70	COLUMBIA PIKE	I-695	5.22	55	12.60	35.67	65%
6	I-695	I-70	I-95	4.69	55	7.36	38.66	70%
7	I-695	I-95	MD-295	2.99	55	2.84	62.50	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	3.10	47.00	85%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				52.41		70.94	46.03	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

6 Frederick, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.68	43.53	100%
2	US-15	US-40	US-340	4.65	50	5.19	53.93	100%
3	US-15	US-340	LOVETTSVILLE RD	7.33	50	8.69	50.80	100%
4	US-15	LOVETTSVILLE RD	US-15-BR HWY	9.87	45	16.12	37.62	84%
5	US-15	US-15-BR HWY	DULLES GREENWAY	3.61	45	14.05	22.52	50%
6	DULLES GREENWAY	LEESBURG BYP	ARIANE WAY	12.40	65	11.34	65.97	100%
7	DULLES GREENWAY	ARIANE WAY	DULLES ACCESS RD	1.24	55	2.14	36.70	67%
8	DULLES GREENWAY	DULLES GREENWAY	DULLES ACCESS RD	0.46	55	0.78	48.15	88%
9	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				41.38		61.49	43.55	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

7 Frederick, MD to Dulles International -via I-270

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.68	43.53	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.77	36.26	66%
3	I-270	I-70	MD-85	1.90	65	1.87	61.27	94%
4	I-270	MD-85	FINGERBOARD RD	5.01	65	6.67	47.08	72%
5	I-270	FINGERBOARD RD	OLD HUNDRED RD	3.73	65	5.80	38.60	59%
6	I-270	OLD HUNDRED RD	FATHER HURLEY BLVD	6.43	55	7.55	51.20	93%
7	I-270	FATHER HURLEY BLVD	GERMANTOWN RD	1.03	55	1.22	52.22	95%
8	I-270	GERMANTOWN RD	West Diamond Ave	4.13	55	3.90	50.26	91%
9	I-270	West Diamond Ave	MONTROSE RD	6.14	55	12.19	35.69	65%
10	I-270	MONTROSE RD	I-270-SPUR	1.87	55	6.50	24.13	44%
11	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	2.49	47.37	86%
12	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.80	52.52	95%
13	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	4.04	45.36	82%
14	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	5.62	33.50	61%
15	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.72	59.54	100%
16	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.12	57.81	100%
17	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
18	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
19	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
20	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				55.16		77.86	47.20	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

8 Frederick, MD to Ronald Reagan National - via I-270/I-495/GW Pkwy

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.68	43.53	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.77	36.26	66%
3	I-270	I-70	MD-85	1.90	65	1.87	61.27	94%
4	I-270	MD-85	FINGERBOARD RD	5.01	65	6.67	47.08	72%
5	I-270	FINGERBOARD RD	OLD HUNDRED RD	3.73	65	5.80	38.60	59%
6	I-270	OLD HUNDRED RD	FATHER HURLEY BLVD	6.43	55	7.55	51.20	93%
7	I-270	FATHER HURLEY BLVD	GERMANTOWN RD	1.03	55	1.22	52.22	95%
8	I-270	GERMANTOWN RD	West Diamond Ave	4.13	55	3.90	50.26	91%
9	I-270	West Diamond Ave	MONTROSE RD	6.14	55	12.19	35.69	65%
10	I-270	MONTROSE RD	I-270-SPUR	1.87	55	6.50	24.13	44%
11	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	2.49	47.37	86%
12	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.80	52.52	95%
13	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	4.04	45.36	82%
14	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	4.92	53.13	100%
15	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	13.61	34.71	77%
16	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.13	37.95	76%
17	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.87	31.23	62%
18	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				50.82		78.40	43.05	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

9 Gaithersburg, MD to Dulles International -via I-270

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	2.00	12.00	34%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	12.19	35.69	65%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	6.50	24.13	44%
4	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	2.49	47.37	86%
5	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.80	52.52	95%
6	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	4.04	45.36	82%
7	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	5.62	33.50	61%
8	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.72	59.54	100%
9	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.12	57.81	100%
10	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
11	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
12	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
13	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				32.66		51.41	44.28	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

10 Gaithersburg, MD to Ronald Reagan National - via I-270/I-495/GW Pkwy

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	2.00	12.00	34%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	12.19	35.69	65%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	6.50	24.13	44%
4	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	2.49	47.37	86%
5	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.80	52.52	95%
6	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	4.04	45.36	82%
7	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	4.92	53.13	100%
8	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	13.61	34.71	77%
9	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.13	37.95	76%
10	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.87	31.23	62%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				28.32		51.94	36.96	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)

11 Gaithersburg, MD to to BWI Marshall - via I-270/I-495/I-95

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	2.00	12.00	34%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	12.19	35.69	65%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	6.50	24.13	44%
4	I-270	I-270-SPUR	CAPITAL BELTWAY	2.93	55	14.17	33.13	60%
5	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	3.05	39.11	71%
6	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	4.64	28.61	52%
7	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	3.13	38.87	71%
8	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	0.70	56.38	100%
9	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	2.74	41.02	75%
10	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	1.03	55.85	100%
11	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	3.04	60.49	100%
12	I-95	POWDER MILL RD	MD-198	4.20	55	3.79	66.70	100%
13	I-95	MD-198	MD-216	2.46	55	2.24	66.17	100%
14	I-95	MD-216	MD-32	3.10	55	3.00	62.09	100%
15	MD-32	MD-32	MD-295	4.08	55	4.30	56.99	100%
16	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
17	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
18	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
19	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
20	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				46.66		78.22	46.58	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

12 Greenbelt, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	2.14	15.00	60%
2	GREENBELT RD - BW Pkwy Ra	HANOVER Pkwy	MD-295	0.23	25	2.00	20.00	80%
3	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.81	63.34	100%
4	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.40	58.91	100%
5	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.48	66.27	100%
6	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
7	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
8	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
9	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
10	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				20.24		25.54	47.79	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

13 Greenbelt, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	2.14	15.00	60%
2	BW Pkwy (MD 295)	HANOVER Pkwy	MD-295	0.72	25	2.04	21.64	87%
3	I-495 CAPITAL BELTWAY	MD-295	I-95	4.30	55	9.68	28.27	51%
4	I-495 CAPITAL BELTWAY	I-95	MD-650	1.71	55	10.60	10.79	20%
5	I-495 CAPITAL BELTWAY	MD-650	MD-193	1.55	55	6.88	14.11	26%
6	I-495 CAPITAL BELTWAY	MD-193	COLESVILLE RD	0.62	55	1.81	23.07	42%
7	I-495 CAPITAL BELTWAY	COLESVILLE RD	GEORGIA AVE	1.45	55	3.27	27.20	49%
8	I-495 CAPITAL BELTWAY	GEORGIA AVE	CONNECTICUT AVE	2.22	55	3.25	41.85	76%
9	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	ROCKVILLE PIKE	1.43	55	1.39	61.64	100%
10	I-495 CAPITAL BELTWAY	ROCKVILLE PIKE	I-270-SPUR	3.21	55	3.23	59.53	100%
11	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.80	52.52	95%
12	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	4.04	45.36	82%
13	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	5.62	33.50	61%
14	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.72	59.54	100%
15	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.12	57.81	100%
16	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
17	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
18	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
19	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				39.47		72.51	39.97	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)

14 Greenbelt, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	2.14	15.00	60%
2	BW Pkwy (MD 295)	HANOVER Pkwy	MD-295	0.72	25	2.04	21.64	87%
3	BW Pkwy (MD 295)	GREENBELT RD	CAPITAL BELTWAY	0.26	55	0.34	47.04	86%
4	BW Pkwy (MD 295)	CAPITAL BELTWAY	RIVERDALE RD	2.55	55	2.75	56.66	100%
5	BW Pkwy (MD 295)	RIVERDALE RD	NEW YORK AVE	2.89	55	3.71	48.09	87%
6	NEW YORK AVE NE (US 50)	MD-295	SOUTH DAKOTA AVE NE	1.46	35	4.61	24.22	69%
7	NEW YORK AVE NE (US 50)	SOUTH DAKOTA AVE NE	BLADENSBURG RD NE	0.96	35	2.33	29.96	86%
8	NEW YORK AVE NE (US 50)	BLADENSBURG RD NE	FLORIDA AVE NE	1.85	35	6.58	17.69	51%
9	NEW YORK AVE NE (US 50)	FLORIDA AVE NE	N CAPITOL ST NW	0.27	30	1.11	20.22	67%
10	NEW YORK AVE NE (US 50)	N CAPITOL ST NW	4TH ST NW	0.42	30	5.31	4.83	16%
11	I-395	NEW YORK AVE NW	US-1	3.05	50	4.29	42.60	85%
12	14th St. Bridge (I-395)	I-395	GW MEM. Pkwy	0.68	55	1.19	38.53	70%
13	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.13	37.95	76%
14	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.87	31.23	62%
15	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				17.57		40.80	31.21	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)

15 Largo, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	2.08	22.37	89%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	52.90	100%
3	I-495 CAPITAL BELTWAY	CENTRAL AVE	ARENA DR	1.18	55	1.52	50.06	91%
4	I-495 CAPITAL BELTWAY	ARENA DR	US-50	2.72	55	3.14	54.36	99%
5	I-495 CAPITAL BELTWAY	US-50	MD-295	3.68	55	5.71	44.00	80%
6	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.40	65.71	100%
7	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.81	63.34	100%
8	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.40	58.91	100%
9	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.48	66.27	100%
10	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
11	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
12	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
13	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
14	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				28.96		34.71	52.30	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

16 Largo, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	2.08	22.37	89%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	52.90	100%
3	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.58	55	0.56	67.34	100%
4	I-495 CAPITAL BELTWAY	CENTRAL AVE	MD-4	4.00	55	5.66	42.73	78%
5	I-495 CAPITAL BELTWAY	MD-4	BRANCH AVE	3.45	55	3.18	65.24	100%
6	I-495 CAPITAL BELTWAY	BRANCH AVE	ST BARNABAS RD	2.94	55	2.68	66.11	100%
7	I-495 CAPITAL BELTWAY	ST BARNABAS RD	INDIAN HEAD HWY	1.58	55	1.48	64.07	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	1.00	63.15	100%
9	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.88	57.67	100%
10	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	1.82	57.00	100%
11	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.68	52.88	96%
12	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	1.99	66.22	100%
13	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	6.57	26.83	49%
14	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	4.74	18.18	33%
15	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	4.97	34.15	62%
16	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	3.89	24.71	45%
17	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	2.53	42.54	77%
18	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	0.79	61.39	100%
19	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	1.40	48.11	87%
20	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.12	57.81	100%
21	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
22	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
23	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
24	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				49.80		67.38	49.96	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

17 Largo, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	2.08	22.37	89%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	52.90	100%
3	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.58	55	0.56	67.34	100%
4	I-495 CAPITAL BELTWAY	CENTRAL AVE	MD-4	4.00	55	5.66	42.73	78%
5	I-495 CAPITAL BELTWAY	MD-4	BRANCH AVE	3.45	55	3.18	65.24	100%
6	I-495 CAPITAL BELTWAY	BRANCH AVE	ST BARNABAS RD	2.94	55	2.68	66.11	100%
7	I-495 CAPITAL BELTWAY	ST BARNABAS RD	INDIAN HEAD HWY	1.58	55	1.48	64.07	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	1.00	63.15	100%
9	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.88	57.67	100%
10	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.54	14.03	47%
11	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	3.34	12.02	40%
12	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	1.02	14.57	49%
13	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	5.19	14.55	48%
14	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	7.82	23.78	59%
15	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.62	11.09	44%
16	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.50	23.64	100%
17	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				21.09		42.37	38.10	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

18 Manassas, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CENTER ST	PEABODY ST	PRESCOTT AVE	0.70	25	1.67	17.85	71%
2	PRESCOTT AVE	CENTER ST	CENTREVILLE RD	0.29	25	1.21	17.31	69%
3	CENTREVILLE RD	PRESCOTT AVE	LIBERIA AVE	0.51	30	1.53	24.22	81%
4	CENTREVILLE RD	LIBERIA AVE	MANASSAS DR	0.79	30	9.57	10.14	34%
5	CENTREVILLE RD	MANASSAS DR	CENTREVILLE RD	2.30	50	14.23	10.71	21%
6	CENTREVILLE RD	CENTREVILLE RD	LEE HWY	2.63	50	8.88	14.02	28%
7	SULLY RD	LEE HWY	I-66	0.26	45	1.74	23.81	53%
8	SULLY RD	I-66	WESTFIELDS BLVD	2.25	50	3.03	43.04	86%
9	SULLY RD	WESTFIELDS BLVD	LEE JACKSON MEM. HWY	1.49	50	2.51	52.11	100%
10	SULLY RD	LEE JACKSON MEM. HWY	DULLES ACCESS RD	5.54	50	4.49	59.01	100%
11	DULLES GREENWAY	DULLES GREENWAY	DULLES ACCESS RD	0.46	55	0.78	48.15	88%
12	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				18.56		52.14	29.43	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

19 Manassas, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CENTER ST	PEABODY ST	PRESCOTT AVE	0.70	25	1.67	17.85	71%
2	PRESCOTT AVE	CENTER ST	CENTREVILLE RD	0.29	25	1.21	17.31	69%
3	CENTREVILLE RD	PRESCOTT AVE	LIBERIA AVE	0.51	30	1.53	24.22	81%
4	CENTREVILLE RD	LIBERIA AVE	MANASSAS DR	0.79	30	9.57	10.14	34%
5	CENTREVILLE RD	MANASSAS DR	CENTREVILLE RD	2.30	50	14.23	10.71	21%
6	CENTREVILLE RD	CENTREVILLE RD	LEE HWY	2.63	50	8.88	14.02	28%
7	SULLY RD	LEE HWY	I-66	0.26	45	1.74	23.81	53%
8	I-66	SULLY RD	FAIRFAX COUNTY Pkwy	2.58	55	3.30	56.41	100%
9	I-66	FAIRFAX COUNTY Pkwy	LEE JACKSON MEMORIAL HWY	2.28	55	4.53	41.61	76%
10	I-66	LEE JACKSON MEMORIAL HWY	CHAIN BRIDGE RD	2.11	55	2.80	42.59	77%
11	I-66	CHAIN BRIDGE RD	NUTLEY ST	2.36	55	3.85	41.85	76%
12	I-66	NUTLEY ST	I-495 CAPITAL BELTWAY	2.60	55	5.24	28.85	52%
13	I-66	I-495 CAPITAL BELTWAY	DULLES ACCESS RD	2.36	55	4.45	46.34	84%
14	I-66	DULLES ACCESS RD	N GLEBE RD	4.33	55	8.03	39.39	72%
15	I-66	N GLEBE RD	VA110	3.03	55	4.33	44.01	80%
16	VA - 110	I-66	15TH ST S	2.86	55	3.62	46.88	85%
17	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	1.43	23.81	68%
18	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.80	22.71	91%
19	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.50	23.64	100%
20	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				33.39		84.07	30.43	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

20 National Harbor to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	3.26	13.79	55%
2	Annapostia Freeway (I-295)	CAPITAL BELTWAY	PENNSYLVANIA AVE SE	7.40	50	7.19	55.29	100%
3	Annapostia Freeway (DC-295)	FAIRLAWN AVE SE	BENNING RD NE	1.92	55	3.00	39.68	72%
4	Annapostia Freeway (DC-295)	BENNING RD NE	MD-295 - Merge	2.30	55	2.68	51.53	94%
5	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.83	62.41	100%
6	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.61	64.77	100%
7	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.40	65.71	100%
8	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.81	63.34	100%
9	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.40	58.91	100%
10	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.48	66.27	100%
11	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
12	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
13	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
14	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
15	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				38.28		43.36	53.07	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

21 National Harbor to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	3.26	13.79	55%
2	I-495 CAPITAL BELTWAY RAM	WATERFRONT ST	I-495 CAPITAL BELTWAY	0.62	55	1.01	36.81	67%
3	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.88	57.67	100%
4	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	1.82	57.00	100%
5	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.68	52.88	96%
6	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	1.99	66.22	100%
7	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	6.57	26.83	49%
8	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	4.74	18.18	33%
9	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	4.97	34.15	62%
10	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	3.89	24.71	45%
11	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	2.53	42.54	77%
12	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	0.79	61.39	100%
13	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	1.40	48.11	87%
14	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.12	57.81	100%
15	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
16	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
17	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
18	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				36.40		54.57	44.77	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

22 National Harbor to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	3.26	13.79	55%
2	I-495 CAPITAL BELTWAY RAM	WATERFRONT ST	I-495 CAPITAL BELTWAY	0.62	55	1.01	36.81	67%
3	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.88	57.67	100%
4	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.54	14.03	47%
5	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	3.34	12.02	40%
6	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	1.02	14.57	49%
7	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	5.19	14.55	48%
8	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	7.82	23.78	59%
9	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.62	11.09	44%
10	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.50	23.64	100%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				7.69		29.56	23.13	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

23 Rockville, MD to BWI Marshall - I-495/I-95

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	2.90	22.00	55%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	5.18	21.52	54%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	5.95	25.97	47%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	6.50	24.13	44%
5	I-270	I-270-SPUR	CAPITAL BELTWAY	2.93	55	14.17	33.13	60%
6	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	3.05	39.11	71%
7	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	4.64	28.61	52%
8	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	3.13	38.87	71%
9	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	0.70	56.38	100%
10	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	2.74	41.02	75%
11	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	1.03	55.85	100%
12	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	3.04	60.49	100%
13	I-95	POWDER MILL RD	MD-198	4.20	55	3.79	66.70	100%
14	I-95	MD-198	MD-216	2.46	55	2.24	66.17	100%
15	I-95	MD-216	MD-32	3.10	55	3.00	62.09	100%
16	MD-32	MD-32	MD-295	4.08	55	4.30	56.99	100%
17	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
18	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
19	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
20	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
21	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				44.20		78.05	45.40	

**Washington-Baltimore Air System Planning Region
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Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

24 Rockville, MD to BWI Marshall - MD 28

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	Norbeck Rd. (MD-28)	VEIRS MILL RD	E GUDE DR	0.92	40	2.75	20.28	51%
2	Norbeck Rd. (MD-28)	E GUDE DR	BEL PRE RD	1.70	40	3.43	30.09	75%
3	Norbeck Rd. (MD-28)	BEL PRE RD	GEORGIA AVE	1.48	40	4.39	20.26	51%
4	Norbeck Rd. (MD-28)	GEORGIA AVE	LAYHILL RD	2.55	40	5.61	27.40	68%
5	Ednor Rd.	MD-28	NEW HAMPSHIRE AVE	2.42	40	7.12	20.57	51%
6	New Hampshire Ave (MD 650)	EDNOR RD	ASHTON RD	1.39	40	2.13	39.05	98%
7	Ashton Rd. (MD 108)	NEW HAMPSHIRE AVE	MD-32	6.09	40	10.80	34.19	85%
8	Patuxent Fwy (MD 32)	CLARKSVILLE PIKE	COLUMBIA PIKE	4.18	55	4.17	60.59	100%
9	Patuxent Fwy (MD 32)	COLUMBIA PIKE	I-95	3.38	55	3.24	62.70	100%
10	MD-32	MD-32	MD-295	4.08	55	4.30	56.99	100%
11	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
12	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
13	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
14	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
15	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				38.08		59.63	41.76	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

25 Rockville, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	2.90	22.00	55%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	5.18	21.52	54%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	5.95	25.97	47%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	6.50	24.13	44%
5	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	2.49	47.37	86%
6	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.80	52.52	95%
7	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	4.04	45.36	82%
8	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	5.62	33.50	61%
9	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.72	59.54	100%
10	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.12	57.81	100%
11	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
12	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
13	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
14	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				30.20		51.24	42.67	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

26 Rockville, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	2.90	22.00	55%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	5.18	21.52	54%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	5.95	25.97	47%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	6.50	24.13	44%
5	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	2.49	47.37	86%
6	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.80	52.52	95%
7	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	4.04	45.36	82%
8	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	4.92	53.13	100%
9	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	13.61	34.71	77%
10	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.13	37.95	76%
11	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.87	31.23	62%
12	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				25.86		51.77	35.70	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

27 Springfield, VA to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA RD	0.45	25	2.11	13.06	52%
2	FRANCONIA RD	FRONTIER DR	COMMERCE ST	0.24	45	1.35	10.56	23%
3	I-95	FRANCONIA RD	CAPITAL BELTWAY	0.96	55	1.34	43.41	79%
4	I-495 CAPITAL BELTWAY	I-395	S VAN DORN ST	2.33	55	3.33	46.84	85%
5	I-495 CAPITAL BELTWAY	S VAN DORN ST	TELEGRAPH RD	3.18	55	3.25	38.86	71%
6	I-495 CAPITAL BELTWAY	TELEGRAPH RD	GW MEM. Pkwy	1.79	55	2.09	55.56	100%
7	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	INDIAN HEAD HWY	3.11	55	3.16	58.02	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	BRANCH AVE	4.22	55	4.59	58.49	100%
9	I-495 CAPITAL BELTWAY	BRANCH AVE	MD-4	3.46	55	4.56	52.62	96%
10	I-495 CAPITAL BELTWAY	MD-4	CENTRAL AVE	4.30	55	6.89	45.23	82%
11	I-495 CAPITAL BELTWAY	CENTRAL AVE	ARENA DR	1.18	55	1.52	50.06	91%
12	I-495 CAPITAL BELTWAY	ARENA DR	US-50	2.72	55	3.14	54.36	99%
13	I-495 CAPITAL BELTWAY	US-50	MD-295	3.68	55	5.71	44.00	80%
14	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.40	65.71	100%
15	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.81	63.34	100%
16	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.40	58.91	100%
17	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.48	66.27	100%
18	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
19	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
20	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
21	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
22	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				51.80		64.84	49.07	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

28 Springfield, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA-SPRINGFIELD Pkwy	0.14	25	0.62	16.81	67%
2	FRANCONIA-SPRINGFIELD Pk	FRONTIER DR	I-95	0.61	50	2.02	30.32	61%
3	FRANCONIA-SPRINGFIELD Pk	I-95	ROLLING RD	1.96	50	2.64	45.24	90%
4	FAIRFAX COUNTY Pkwy	ROLLING RD	OX RD	7.75	50	11.40	42.31	85%
5	FAIRFAX COUNTY Pkwy	OX RD	LEE HWY	4.92	50	12.49	31.39	63%
6	FAIRFAX COUNTY Pkwy	LEE HWY	I-66	1.25	50	6.12	36.72	73%
7	FAIRFAX COUNTY Pkwy	I-66	LEE JACKSON MEM. HWY	1.61	50	3.62	27.21	54%
8	FAIRFAX COUNTY Pkwy	LEE JACKSON MEM. HWY	DULLES ACCESS RD	6.43	50	12.91	30.22	60%
9	DULLES ACCESS RD	FAIRFAX COUNTY Pkwy	DULLES ACCESS RD Ramp	1.08	55	1.27	51.32	93%
10	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
11	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				29.76		58.34	36.59	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

29 Springfield, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA RD	0.45	25	2.11	13.06	52%
2	FRANCONIA RD	FRONTIER DR	COMMERCE ST	0.24	45	1.35	10.56	23%
3	I-95	FRANCONIA RD	CAPITAL BELTWAY	0.96	55	1.34	43.41	79%
4	I-395	CAPITAL BELTWAY	EDSALL RD	1.01	55	5.35	11.68	21%
5	I-395	EDSALL RD	DUKE ST	1.66	55	10.71	10.57	19%
6	I-395	DUKE ST	KING ST	2.57	55	14.32	17.42	32%
7	I-395	KING ST	S GLEBE RD	1.34	55	2.94	33.26	60%
8	I-395	S GLEBE RD	ARMY NAVY DR	1.96	55	5.87	26.32	48%
9	S HAYES ST	ARMY NAVY DR	15TH ST S	0.31	25	0.63	29.58	100%
10	15TH ST S	S HAYES ST	JEFFERSON DAVIS HWY	0.45	25	1.10	24.52	98%
11	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	1.43	23.81	68%
12	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.80	22.71	91%
13	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.50	23.64	100%
14	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				12.35		50.82	23.07	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

30 Towson, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	DULANEY VALLEY RD	E JOPPA RD	I-695	0.83	25	3.40	15.75	63%
2	I-695	DULANEY VALLEY RD	I-83	2.09	55	3.51	38.29	70%
3	I-695	I-83	I-795	7.15	55	7.12	60.44	100%
4	I-695	I-795	LIBERTY RD	1.64	55	4.22	31.89	58%
5	I-695	LIBERTY RD	I-70	3.44	55	6.16	34.19	62%
6	I-695	I-70	I-95	4.69	55	7.36	38.66	70%
7	I-695	I-95	MD-295	2.99	55	2.84	62.50	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	3.10	47.00	85%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				27.29		41.52	42.03	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

31 Tysons, VA to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	4.78	18.71	53%
2	CHAIN BRIDGE RD (VA 123)	LEESBURG PIKE	CAPITAL BELTWAY	1.31	35	4.37	17.42	50%
3	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	1.40	48.11	87%
4	I-495 CAPITAL BELTWAY	DULLES ACCESS RD	GW MEM. Pkwy	2.83	55	3.09	54.57	99%
5	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	MD-190	2.56	55	2.91	52.45	95%
6	I-495 CAPITAL BELTWAY	MD-190	I-270-SPUR	1.46	55	1.43	58.80	100%
7	I-495 CAPITAL BELTWAY	I-270-SPUR	ROCKVILLE PIKE	2.73	55	3.12	53.06	96%
8	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	3.05	39.11	71%
9	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	4.64	28.61	52%
10	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	3.13	38.87	71%
11	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	0.70	56.38	100%
12	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	2.74	41.02	75%
13	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	1.03	55.85	100%
14	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	3.04	60.49	100%
15	I-95	POWDER MILL RD	MD-198	4.20	55	3.79	66.70	100%
16	I-95	MD-198	MD-216	2.46	55	2.24	66.17	100%
17	I-95	MD-216	MD-32	3.10	55	3.00	62.09	100%
18	MD-32	MD-32	MD-295	4.08	55	4.30	56.99	100%
19	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
20	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
21	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
22	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
23	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				47.38		64.44	49.12	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

32 Tysons, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	4.78	18.71	53%
2	LEESBURG PIKE (VA 7)	CHAIN BRIDGE RD	DULLES ACCESS RD	1.63	35	4.16	26.66	76%
3	DULLES ACCESS RD	LEESBURG PIKE	DULLES ACCESS RD Ramp	2.88	55	2.99	57.14	100%
4	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
5	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
6	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
7	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				17.24		25.86	44.32	

33 Tysons, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	4.78	18.71	53%
2	CHAIN BRIDGE RD (VA 123)	LEESBURG PIKE	CAPITAL BELTWAY	1.31	35	4.37	17.42	50%
3	CHAIN BRIDGE RD (VA 123)	CAPITAL BELTWAY	DULLES ACCESS RD	0.66	35	9.02	23.30	67%
4	DULLES ACCESS RD	OLD DOMINION DR	I-66	2.70	55	2.95	52.52	95%
5	I-66	DULLES ACCESS RD	N GLEBE RD	4.33	55	8.03	39.39	72%
6	I-66	N GLEBE RD	VA110	3.03	55	4.33	44.01	80%
7	VA - 110	I-66	15TH ST S	2.86	55	3.62	46.88	85%
8	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	1.43	23.81	68%
9	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.80	22.71	91%
10	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.50	23.64	100%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				16.64		42.22	31.35	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

34 Waldorf, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LEONARDTOWN RD	OLD WASHINGTON RD	CRAIN HWY	0.18	25	0.43	25.18	100%
2	CRAIN HWY (US 301)	LEONARDTOWN RD	MD-5	2.90	55	4.35	39.96	73%
3	CRAIN HWY (US 301)	MD-5	BRANCH AVE	2.57	55	12.82	12.60	23%
4	CRAIN HWY (US 301)	BRANCH AVE	MD-4	11.49	55	14.21	48.54	88%
5	CRAIN HWY (US 301)	MD-4	CENTRAL AVE	5.97	55	6.92	52.04	95%
6	CRAIN HWY (US 301)	CENTRAL AVE	US-50	3.92	55	6.32	37.39	68%
7	CRAIN HWY (US 301)	US-50	ANNAPOLIS RD	2.20	55	2.52	53.30	97%
8	CRAIN HWY (US 301)	ANNAPOLIS RD	MD-32	7.36	55	22.89	26.68	49%
9	I-97	MD-32	DORSEY RD	7.36	60	7.15	61.98	100%
10	AVIATION BLVD	I-97	S CAMP MEADE RD	2.56	45	5.31	32.60	72%
11	AIRPORT LOOP	S CAMP MEADE RD	TERMINAL RD	0.75	35	2.18	23.27	66%
12	TERMINAL RD	AIRPORT LOOP	I-195	0.62	15	2.45	17.86	100%
13	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				49.03		90.34	35.13	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

35 Waldorf, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	MD 228	US 301 Crain Hwy	MD 210 Indian Head Hwy	6.97	50	11.40	36.96	74%
2	MD 210 Indian Head Hwy	MD 228	I-495 CAPITAL BELTWAY	10.26	50	20.41	30.65	61%
3	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	1.00	63.15	100%
4	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.88	57.67	100%
5	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	1.82	57.00	100%
6	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.68	52.88	96%
7	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	1.99	66.22	100%
8	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	6.57	26.83	49%
9	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	4.74	18.18	33%
10	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	4.97	34.15	62%
11	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	3.89	24.71	45%
12	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	2.53	42.54	77%
13	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	0.79	61.39	100%
14	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	1.40	48.11	87%
15	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.72	59.54	100%
16	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.12	57.81	100%
17	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
18	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
19	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
20	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				54.03		83.83	47.27	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

36 Waldorf, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	MD 228	US 301 Crain Hwy	MD 210 Indian Head Hwy	6.97	50	11.40	36.96	74%
2	MD 210 Indian Head Hwy	MD 228	I-495 CAPITAL BELTWAY	10.26	50	20.41	30.65	61%
3	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	1.00	63.15	100%
4	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.88	57.67	100%
5	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.54	14.03	47%
6	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	3.34	12.02	40%
7	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	1.02	14.57	49%
8	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	5.19	14.55	48%
9	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	7.82	23.78	59%
10	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.62	11.09	44%
11	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.50	23.64	100%
12	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				24.60		58.10	27.88	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

37 Washington D.C. to BWI Marshall - 14th St. & Independence Ave

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	INDEPENDENCE AVE SW	14TH ST SW	S CAPITOL ST SE	1.24	25	4.80	16.13	65%
2	INDEPENDENCE AVE SE	S CAPITOL ST SE	2ND ST SE	0.29	25	0.83	21.85	87%
3	PENNSYLVANIA AVE SE	2ND ST SE	FAIRLAWN AVE SE	1.86	45	9.37	11.98	27%
4	Annapostia Freeway (DC-295)	FAIRLAWN AVE SE	BENNING RD NE	1.92	55	3.00	39.68	72%
5	Annapostia Freeway (DC-295)	BENNING RD NE	MD-295 - Merge	2.30	55	2.68	51.53	94%
6	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.83	62.41	100%
7	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.61	64.77	100%
8	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.40	65.71	100%
9	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.81	63.34	100%
10	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.40	58.91	100%
11	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.48	66.27	100%
12	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
13	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
14	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
15	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
16	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				33.52		47.91	48.56	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)

38 Washington D.C. to BWI Marshall - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	1.32	15.09	60%
2	K ST NW	14TH ST NW	7TH ST NW	0.63	25	2.53	16.12	64%
3	NEW YORK AVE NW	7TH ST NW	4TH ST NW	0.33	30	2.33	13.40	45%
4	NEW YORK AVE NW	4TH ST NW	N CAPITOL ST NW	0.42	30	1.73	14.94	50%
5	NEW YORK AVE NE (US 50)	N CAPITOL ST NW	FLORIDA AVE NE	0.27	30	1.06	15.88	53%
6	NEW YORK AVE NE (US 50)	FLORIDA AVE NE	SOUTH DAKOTA AVE NE	2.82	35	9.37	19.31	55%
7	NEW YORK AVE NE (US 50)	SOUTH DAKOTA AVE NE	MD-295 - Merge	1.45	35	1.48	58.79	100%
8	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.83	62.41	100%
9	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.61	64.77	100%
10	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.40	65.71	100%
11	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.81	63.34	100%
12	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.40	58.91	100%
13	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.48	66.27	100%
14	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.17	61.46	100%
15	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	5.72	59.21	100%
16	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
17	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
18	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
19	K ST NW	16TH ST NW	14TH ST NW	0.25	25	1.32	15.09	60%
Subtotal				32.32		48.35	42.34	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

39 Washington D.C. to Dulles International - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	1.32	15.09	60%
2	14TH ST NW	K ST NW	CONSTITUTION AVE NW	0.72	25	3.33	13.38	54%
3	CONSTITUTION AVE NW	14TH ST NW	23RD ST NW	0.98	25	5.78	10.50	42%
4	I-66	23RD ST NW	N GLEBE RD	4.38	55	4.99	52.74	96%
5	I-66	N GLEBE RD	VA-267	4.29	55	8.21	32.71	59%
6	DULLES ACCESS RD (VA-267)	I-66	CAPITAL BELTWAY	2.69	55	3.14	51.87	94%
7	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.12	57.81	100%
8	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.60	59.49	100%
9	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.07	57.25	100%
10	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
11	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				27.74		42.81	40.16	

40 Washington D.C. to Ronald Reagan National - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	1.32	15.09	60%
2	14TH ST NW	K ST NW	CONSTITUTION AVE NW	0.72	25	3.33	13.38	54%
3	14TH ST NW	CONSTITUTION AVE NW	INDEPENDENCE AVE SW	0.31	25	1.96	10.71	43%
4	14th ST SW (US-1)	INDEPENDENCE AVE SW	I-395	0.80	25	1.12	43.38	100%
5	14th St. Bridge (I-395)	I-395	GW MEM. Pkwy	0.68	55	1.19	38.53	70%
6	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.13	37.95	76%
7	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.87	31.23	62%
8	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				4.97		13.31	27.84	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

41 White Marsh, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	HONEYGO BLVD	CAMPBELL BLVD	MD-43	0.45	25	1.01	27.62	100%
2	Whitemarsh Blvd (MD-43)	HONEYGO BLVD	I-95	0.62	25	1.00	39.02	100%
3	I-95	MD-43	I-695	2.90	55	6.14	33.16	60%
4	I-95	I-695	HARBOR TUNNEL THWY	2.93	55	5.23	34.15	62%
5	I-95	HARBOR TUNNEL THWY	TOLL PLAZA	4.82	55	8.06	43.39	79%
6	I-95	TOLL PLAZA	MD-295	4.13	55	5.16	48.67	88%
7	BW Pkwy (MD 295)	I-95	I-695	3.89	50	4.23	56.41	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	3.10	47.00	85%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.21	55.81	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.82	52.51	95%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.79	25.35	100%
Subtotal				24.21		37.74	42.10	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

42 Woodbridge, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	JEFFERSON DAVIS HWY	PRINCE WILLIAM Pkwy	GORDON BLVD	1.17	55	6.54	13.84	25%
2	GORDON BLVD	JEFFERSON DAVIS HWY	I-95	0.72	45	1.51	30.15	67%
3	GORDON BLVD	I-95	FAIRFAX COUNTY Pkwy	10.20	50	20.53	30.42	61%
4	FAIRFAX COUNTY Pkwy	OX RD	LEE HWY	4.92	50	12.49	31.39	63%
5	FAIRFAX COUNTY Pkwy	LEE HWY	I-66	1.25	50	6.12	36.72	73%
6	FAIRFAX COUNTY Pkwy	I-66	LEE JACKSON MEM. HWY	1.61	50	3.62	27.21	54%
7	FAIRFAX COUNTY Pkwy	LEE JACKSON MEM. HWY	DULLES ACCESS RD	6.43	50	12.91	30.22	60%
8	DULLES ACCESS RD	FAIRFAX COUNTY Pkwy	DULLES ACCESS RD Ramp	1.08	55	1.27	51.32	93%
9	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.76	58.22	100%
10	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.49	32.74	100%
Subtotal				31.40		70.24	34.22	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - AM (6:00 - 10:00 AM)**

43 Woodbridge, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	JEFFERSON DAVIS HWY	PRINCE WILLIAM Pkwy	GORDON BLVD	1.17	55	6.54	13.84	25%
2	JEFFERSON DAVIS HWY	GORDON BLVD	I-95	1.05	55	3.13	20.36	37%
3	I-95 (North)	RICHMOND HWY	LORTON RD	2.36	55	3.12	54.03	98%
4	I-95 (North)	LORTON RD	FAIRFAX COUNTY Pkwy	3.02	55	5.99	31.35	57%
5	I-95 (North)	FAIRFAX COUNTY Pkwy	CAPITAL BELTWAY	3.64	55	11.41	21.30	39%
6	I-395	CAPITAL BELTWAY	EDSALL RD	1.01	55	5.35	11.68	21%
7	I-395	EDSALL RD	DUKE ST	1.66	55	10.71	10.57	19%
8	I-395	DUKE ST	KING ST	2.57	55	14.32	17.42	32%
9	I-395	KING ST	S GLEBE RD	1.34	55	2.94	33.26	60%
10	I-395	S GLEBE RD	ARMY NAVY DR	1.96	55	5.87	26.32	48%
11	S HAYES ST	ARMY NAVY DR	15TH ST S	0.31	25	0.63	29.58	100%
12	15TH ST S	S HAYES ST	JEFFERSON DAVIS HWY	0.45	25	1.10	24.52	98%
13	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	1.43	23.81	68%
14	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.80	22.71	91%
15	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.50	23.64	100%
16	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.48	100%
Subtotal				21.95		76.21	24.80	

Appendix B: Segment Level Travel Time and Speed Data
Mid-Day Period

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)

1 Annapolis, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	COLLEGE AVE	EAST ST	BLADEN ST	0.29	15	1.78	19.98	100%
2	ROWE BLVD	COLLEGE AVE	US-301	2.01	40	4.64	27.35	68%
3	US-301	ROWE BLVD	I-97	2.92	55	2.93	60.15	100%
4	I-97	US-301	CRAIN HWY	7.91	60	7.22	66.04	100%
5	I-97	MD-32	DORSEY RD	7.36	60	7.08	62.85	100%
6	AVIATION BLVD	I-97	S CAMP MEADE RD	2.56	45	4.25	36.53	81%
7	AIRPORT LOOP	S CAMP MEADE RD	TERMINAL RD	0.75	35	2.34	19.39	55%
8	TERMINAL RD	AIRPORT LOOP	I-195	0.62	15	3.33	20.12	100%
9	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				25.56		36.90	37.22	

2 Baltimore, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	W FAYETTE ST	N CHARLES ST	N GREENE ST	0.46	25	4.07	7.06	28%
2	S GREENE ST	W FAYETTE ST	WASHINGTON BLVD	0.36	45	2.23	11.84	26%
3	RUSSELL ST	WASHINGTON BLVD	I-95	1.49	45	2.72	33.50	74%
4	BW Pkwy (MD 295)	I-95	I-695	3.89	50	4.08	57.36	100%
5	BW Pkwy (MD 295)	I-695	I-195	2.41	55	2.73	53.04	96%
6	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
7	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
8	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				10.65		20.37	36.55	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

3 Columbia, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LITTLE PATUXENT Pkwy	CENTURY PLZ	GOVERNOR WARFIELD Pkwy	1.48	45	3.45	25.98	58%
2	LITTLE PATUXENT Pkwy	GOVERNOR WARFIELD Pkwy	COLUMBIA PIKE	0.92	45	1.80	31.76	71%
3	MD-175	COLUMBIA PIKE	SNOWDEN RIVER Pkwy	3.18	45	4.62	42.55	95%
4	MD-175	SNOWDEN RIVER Pkwy	I-95	1.57	45	1.82	53.17	100%
5	MD-175	I-95	MD-295	3.63	45	6.93	31.49	70%
6	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
7	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
8	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
9	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				18.47		29.72	41.16	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

4 Frederick, MD to BWI Marshall - MD 100

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.63	48.42	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.73	31.48	57%
3	I-70	US-40	MD-27	15.17	65	14.01	64.95	100%
4	I-70	MD-27	COLUMBIA PIKE	18.94	65	31.01	42.39	65%
5	COLUMBIA PIKE	I-70	BALTIMORE NATIONAL PIKE	1.51	55	1.52	59.44	100%
6	COLUMBIA PIKE	BALTIMORE NATIONAL PIKE	MD-100	1.94	55	1.92	59.67	100%
7	MD-100	COLUMBIA PIKE	I-95	5.17	55	5.08	60.61	100%
8	MD-100	I-95	MD-295	2.79	55	2.74	60.52	100%
9	MD-100	MD-295	MD-170	3.02	50	3.63	52.93	100%
10	MD-170	MD-100	I-195	3.21	50	5.59	40.84	82%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				53.84		70.22	49.44	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

5 Frederick, MD to BWI Marshall - MD 295

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.63	48.42	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.73	31.48	57%
3	I-70	US-40	MD-27	15.17	65	14.01	64.95	100%
4	I-70	MD-27	COLUMBIA PIKE	18.94	65	31.01	42.39	65%
5	I-70	COLUMBIA PIKE	I-695	5.22	55	4.80	65.21	100%
6	I-695	I-70	I-95	4.69	55	4.75	59.32	100%
7	I-695	I-95	MD-295	2.99	55	2.87	61.67	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	2.73	53.04	96%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				52.41		66.07	50.55	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

6 Frederick, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.63	48.42	100%
2	US-15	US-40	US-340	4.65	50	4.79	59.58	100%
3	US-15	US-340	LOVETTSVILLE RD	7.33	50	8.15	54.02	100%
4	US-15	LOVETTSVILLE RD	US-15-BR HWY	9.87	45	12.84	46.41	100%
5	US-15	US-15-BR HWY	DULLES GREENWAY	3.61	45	6.62	33.40	74%
6	DULLES GREENWAY	LEESBURG BYP	ARIANE WAY	12.40	65	11.79	63.59	98%
7	DULLES GREENWAY	ARIANE WAY	DULLES ACCESS RD	1.24	55	1.71	43.76	80%
8	DULLES GREENWAY	DULLES GREENWAY	DULLES ACCESS RD	0.46	55	0.57	49.16	89%
9	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				41.38		49.59	47.88	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

7 Frederick, MD to Dulles International -via I-270

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.63	48.42	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.73	31.48	57%
3	I-270	I-70	MD-85	1.90	65	1.75	43.57	67%
4	I-270	MD-85	FINGERBOARD RD	5.01	65	5.12	58.77	90%
5	I-270	FINGERBOARD RD	OLD HUNDRED RD	3.73	65	3.70	60.54	93%
6	I-270	OLD HUNDRED RD	FATHER HURLEY BLVD	6.43	55	6.28	61.49	100%
7	I-270	FATHER HURLEY BLVD	GERMANTOWN RD	1.03	55	0.98	63.40	100%
8	I-270	GERMANTOWN RD	West Diamond Ave	4.13	55	3.04	64.00	100%
9	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.82	72.42	100%
10	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.72	65.04	100%
11	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	1.88	62.60	100%
12	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.22	67.58	100%
13	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	2.68	61.73	100%
14	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	3.20	52.25	95%
15	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.71	61.00	100%
16	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.17	56.61	100%
17	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
18	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
19	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
20	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				55.16		55.65	56.93	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)

8 Frederick, MD to Ronald Reagan National - via I-270/I-495/GW Pkwy

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.63	48.42	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.73	31.48	57%
3	I-270	I-70	MD-85	1.90	65	1.75	43.57	67%
4	I-270	MD-85	FINGERBOARD RD	5.01	65	5.12	58.77	90%
5	I-270	FINGERBOARD RD	OLD HUNDRED RD	3.73	65	3.70	60.54	93%
6	I-270	OLD HUNDRED RD	FATHER HURLEY BLVD	6.43	55	6.28	61.49	100%
7	I-270	FATHER HURLEY BLVD	GERMANTOWN RD	1.03	55	0.98	63.40	100%
8	I-270	GERMANTOWN RD	West Diamond Ave	4.13	55	3.04	64.00	100%
9	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.82	72.42	100%
10	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.72	65.04	100%
11	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	1.88	62.60	100%
12	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.22	67.58	100%
13	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	2.68	61.73	100%
14	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	4.66	55.77	100%
15	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	8.78	48.72	100%
16	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.24	39.49	79%
17	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.46	27.06	54%
18	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				50.82		53.07	53.72	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

9 Gaithersburg, MD to Dulles International -via I-270

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	2.00	12.00	34%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.82	72.42	100%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.72	65.04	100%
4	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	1.88	62.60	100%
5	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.22	67.58	100%
6	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	2.68	61.73	100%
7	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	3.20	52.25	95%
8	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.71	61.00	100%
9	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.17	56.61	100%
10	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
11	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
12	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
13	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				32.66		35.42	55.30	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

10 Gaithersburg, MD to Ronald Reagan National - via I-270/I-495/GW Pkwy

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	2.00	12.00	34%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.82	72.42	100%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.72	65.04	100%
4	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	1.88	62.60	100%
5	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.22	67.58	100%
6	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	2.68	61.73	100%
7	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	4.66	55.77	100%
8	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	8.78	48.72	100%
9	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.24	39.49	79%
10	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.46	27.06	54%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				28.32		32.84	49.75	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

11 Gaithersburg, MD to to BWI Marshall - via I-270/I-495/I-95

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	2.00	12.00	34%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.82	72.42	100%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.72	65.04	100%
4	I-270	I-270-SPUR	CAPITAL BELTWAY	2.93	55	2.84	61.95	100%
5	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	1.43	60.82	100%
6	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	4.76	47.07	86%
7	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	2.75	48.09	87%
8	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	0.61	64.63	100%
9	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	1.51	60.72	100%
10	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	1.02	56.02	100%
11	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	2.98	61.77	100%
12	I-95	POWDER MILL RD	MD-198	4.20	55	3.82	66.11	100%
13	I-95	MD-198	MD-216	2.46	55	2.12	69.74	100%
14	I-95	MD-216	MD-32	3.10	55	2.99	62.76	100%
15	MD-32	MD-32	MD-295	4.08	55	4.19	58.45	100%
16	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
17	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
18	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
19	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
20	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				46.66		53.92	55.67	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

12 Greenbelt, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	1.74	25.00	100%
2	GREENBELT RD - BW Pkwy Ra	HANOVER Pkwy	MD-295	0.23	25	1.00	30.00	100%
3	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.88	61.64	100%
4	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.15	61.53	100%
5	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.55	63.57	100%
6	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
7	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
8	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
9	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
10	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				20.24		25.65	48.74	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

13 Greenbelt, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	1.74	25.00	100%
2	BW Pkwy (MD 295)	HANOVER Pkwy	MD-295	0.72	25	1.83	24.12	96%
3	I-495 CAPITAL BELTWAY	MD-295	I-95	4.30	55	4.10	62.93	100%
4	I-495 CAPITAL BELTWAY	I-95	MD-650	1.71	55	1.57	65.54	100%
5	I-495 CAPITAL BELTWAY	MD-650	MD-193	1.55	55	1.37	68.17	100%
6	I-495 CAPITAL BELTWAY	MD-193	COLESVILLE RD	0.62	55	0.57	65.52	100%
7	I-495 CAPITAL BELTWAY	COLESVILLE RD	GEORGIA AVE	1.45	55	1.35	65.02	100%
8	I-495 CAPITAL BELTWAY	GEORGIA AVE	CONNECTICUT AVE	2.22	55	2.04	65.39	100%
9	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	ROCKVILLE PIKE	1.43	55	1.37	62.62	100%
10	I-495 CAPITAL BELTWAY	ROCKVILLE PIKE	I-270-SPUR	3.21	55	3.20	60.20	100%
11	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.22	67.58	100%
12	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	2.68	61.73	100%
13	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	3.20	52.25	95%
14	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.71	61.00	100%
15	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.17	56.61	100%
16	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
17	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
18	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
19	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				39.47		43.12	56.39	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

14 Greenbelt, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	1.74	25.00	100%
2	BW Pkwy (MD 295)	HANOVER Pkwy	MD-295	0.72	25	1.83	24.12	96%
3	BW Pkwy (MD 295)	GREENBELT RD	CAPITAL BELTWAY	0.26	55	0.29	55.15	100%
4	BW Pkwy (MD 295)	CAPITAL BELTWAY	RIVERDALE RD	2.55	55	2.26	68.00	100%
5	BW Pkwy (MD 295)	RIVERDALE RD	NEW YORK AVE	2.89	55	2.95	58.71	100%
6	NEW YORK AVE NE (US 50)	MD-295	SOUTH DAKOTA AVE NE	1.46	35	1.53	57.36	100%
7	NEW YORK AVE NE (US 50)	SOUTH DAKOTA AVE NE	BLADENSBURG RD NE	0.96	35	1.45	40.63	100%
8	NEW YORK AVE NE (US 50)	BLADENSBURG RD NE	FLORIDA AVE NE	1.85	35	4.60	24.61	70%
9	NEW YORK AVE NE (US 50)	FLORIDA AVE NE	N CAPITOL ST NW	0.27	30	0.80	23.60	79%
10	NEW YORK AVE NE (US 50)	N CAPITOL ST NW	4TH ST NW	0.42	30	3.39	7.44	25%
11	I-395	NEW YORK AVE NW	US-1	3.05	50	3.98	45.98	92%
12	14th St. Bridge (I-395)	I-395	GW MEM. Pkwy	0.68	55	1.06	39.52	72%
13	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.24	39.49	79%
14	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.46	27.06	54%
15	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				17.57		29.97	38.10	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

15 Largo, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	3.25	14.44	58%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	52.85	100%
3	I-495 CAPITAL BELTWAY	CENTRAL AVE	ARENA DR	1.18	55	1.34	53.44	97%
4	I-495 CAPITAL BELTWAY	ARENA DR	US-50	2.72	55	2.67	61.31	100%
5	I-495 CAPITAL BELTWAY	US-50	MD-295	3.68	55	3.75	58.99	100%
6	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.42	61.30	100%
7	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.88	61.64	100%
8	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.15	61.53	100%
9	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.55	63.57	100%
10	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
11	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
12	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
13	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
14	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				28.96		34.78	52.48	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

16 Largo, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	3.25	14.44	58%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	52.85	100%
3	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.58	55	0.50	69.39	100%
4	I-495 CAPITAL BELTWAY	CENTRAL AVE	MD-4	4.00	55	5.30	45.82	83%
5	I-495 CAPITAL BELTWAY	MD-4	BRANCH AVE	3.45	55	3.13	66.17	100%
6	I-495 CAPITAL BELTWAY	BRANCH AVE	ST BARNABAS RD	2.94	55	2.63	67.22	100%
7	I-495 CAPITAL BELTWAY	ST BARNABAS RD	INDIAN HEAD HWY	1.58	55	1.44	65.67	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	0.96	65.95	100%
9	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.83	59.10	100%
10	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	1.72	60.08	100%
11	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.19	59.89	100%
12	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	2.13	61.75	100%
13	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	2.58	64.71	100%
14	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	1.67	50.91	93%
15	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	4.57	35.28	64%
16	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	1.41	49.72	90%
17	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	1.78	59.59	100%
18	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	0.78	61.98	100%
19	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	1.32	50.90	93%
20	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.17	56.61	100%
21	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
22	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
23	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
24	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				49.80		56.84	55.24	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

17 Largo, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	3.25	14.44	58%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	52.85	100%
3	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.58	55	0.50	69.39	100%
4	I-495 CAPITAL BELTWAY	CENTRAL AVE	MD-4	4.00	55	5.30	45.82	83%
5	I-495 CAPITAL BELTWAY	MD-4	BRANCH AVE	3.45	55	3.13	66.17	100%
6	I-495 CAPITAL BELTWAY	BRANCH AVE	ST BARNABAS RD	2.94	55	2.63	67.22	100%
7	I-495 CAPITAL BELTWAY	ST BARNABAS RD	INDIAN HEAD HWY	1.58	55	1.44	65.67	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	0.96	65.95	100%
9	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.83	59.10	100%
10	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.57	13.87	46%
11	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	1.68	20.25	68%
12	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	1.08	13.24	44%
13	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	2.68	14.86	50%
14	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	3.55	38.31	96%
15	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.39	29.00	100%
16	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.53	25.18	100%
17	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				21.09		34.36	40.95	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

18 Manassas, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CENTER ST	PEABODY ST	PRESCOTT AVE	0.70	25	18.00	21.00	84%
2	PRESCOTT AVE	CENTER ST	CENTREVILLE RD	0.29	25	1.10	16.09	64%
3	CENTREVILLE RD	PRESCOTT AVE	LIBERIA AVE	0.51	30	1.88	19.12	64%
4	CENTREVILLE RD	LIBERIA AVE	MANASSAS DR	0.79	30	1.47	34.12	100%
5	CENTREVILLE RD	MANASSAS DR	CENTREVILLE RD	2.30	50	4.00	34.62	69%
6	CENTREVILLE RD	CENTREVILLE RD	LEE HWY	2.63	50	4.38	36.82	74%
7	SULLY RD	LEE HWY	I-66	0.26	45	0.28	55.67	100%
8	SULLY RD	I-66	WESTFIELDS BLVD	2.25	50	2.54	53.05	100%
9	SULLY RD	WESTFIELDS BLVD	LEE JACKSON MEM. HWY	1.49	50	1.89	47.80	96%
10	SULLY RD	LEE JACKSON MEM. HWY	DULLES ACCESS RD	5.54	50	5.35	62.10	100%
11	DULLES GREENWAY	DULLES GREENWAY	DULLES ACCESS RD	0.46	55	0.57	49.16	89%
12	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				18.56		43.96	38.51	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

19 Manassas, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CENTER ST	PEABODY ST	PRESCOTT AVE	0.70	25	18.00	21.00	84%
2	PRESCOTT AVE	CENTER ST	CENTREVILLE RD	0.29	25	1.10	16.09	64%
3	CENTREVILLE RD	PRESCOTT AVE	LIBERIA AVE	0.51	30	1.88	19.12	64%
4	CENTREVILLE RD	LIBERIA AVE	MANASSAS DR	0.79	30	1.47	34.12	100%
5	CENTREVILLE RD	MANASSAS DR	CENTREVILLE RD	2.30	50	4.00	34.62	69%
6	CENTREVILLE RD	CENTREVILLE RD	LEE HWY	2.63	50	4.38	36.82	74%
7	SULLY RD	LEE HWY	I-66	0.26	45	0.28	55.67	100%
8	I-66	SULLY RD	FAIRFAX COUNTY Pkwy	2.58	55	2.82	63.87	100%
9	I-66	FAIRFAX COUNTY Pkwy	LEE JACKSON MEMORIAL HWY	2.28	55	2.41	62.27	100%
10	I-66	LEE JACKSON MEMORIAL HWY	CHAIN BRIDGE RD	2.11	55	2.56	55.14	100%
11	I-66	CHAIN BRIDGE RD	NUTLEY ST	2.36	55	3.60	55.55	100%
12	I-66	NUTLEY ST	I-495 CAPITAL BELTWAY	2.60	55	3.09	52.06	95%
13	I-66	I-495 CAPITAL BELTWAY	DULLES ACCESS RD	2.36	55	6.73	41.66	76%
14	I-66	DULLES ACCESS RD	N GLEBE RD	4.33	55	4.79	53.79	98%
15	I-66	N GLEBE RD	VA110	3.03	55	4.88	54.62	99%
16	VA - 110	I-66	15TH ST S	2.86	55	3.54	47.90	87%
17	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	3.02	10.50	30%
18	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.57	23.41	94%
19	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.53	25.18	100%
20	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				33.39		72.02	39.91	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

20 National Harbor to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	2.86	15.80	63%
2	Annapostia Freeway (I-295)	CAPITAL BELTWAY	PENNSYLVANIA AVE SE	7.40	50	7.97	59.75	100%
3	Annapostia Freeway (DC-295)	FAIRLAWN AVE SE	BENNING RD NE	1.92	55	2.94	39.72	72%
4	Annapostia Freeway (DC-295)	BENNING RD NE	MD-295 - Merge	2.30	55	2.73	50.60	92%
5	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.94	60.61	100%
6	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.70	62.01	100%
7	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.42	61.30	100%
8	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.88	61.64	100%
9	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.15	61.53	100%
10	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.55	63.57	100%
11	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
12	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
13	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
14	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
15	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				38.28		45.46	52.15	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

21 National Harbor to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	2.86	15.80	63%
2	I-495 CAPITAL BELTWAY RAM	WATERFRONT ST	I-495 CAPITAL BELTWAY	0.62	55	1.01	36.86	67%
3	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.83	59.10	100%
4	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	1.72	60.08	100%
5	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.19	59.89	100%
6	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	2.13	61.75	100%
7	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	2.58	64.71	100%
8	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	1.67	50.91	93%
9	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	4.57	35.28	64%
10	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	1.41	49.72	90%
11	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	1.78	59.59	100%
12	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	0.78	61.98	100%
13	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	1.32	50.90	93%
14	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.17	56.61	100%
15	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
16	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
17	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
18	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				36.40		43.03	51.71	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

22 National Harbor to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	2.86	15.80	63%
2	I-495 CAPITAL BELTWAY RAM	WATERFRONT ST	I-495 CAPITAL BELTWAY	0.62	55	1.01	36.86	67%
3	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.83	59.10	100%
4	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.57	13.87	46%
5	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	1.68	20.25	68%
6	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	1.08	13.24	44%
7	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	2.68	14.86	50%
8	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	3.55	38.31	96%
9	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.39	29.00	100%
10	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.53	25.18	100%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				7.69		20.56	27.39	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

23 Rockville, MD to BWI Marshall - I-495/I-95

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	3.25	20.10	50%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	5.74	19.10	48%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	2.22	56.80	100%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.72	65.04	100%
5	I-270	I-270-SPUR	CAPITAL BELTWAY	2.93	55	2.84	61.95	100%
6	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	1.43	60.82	100%
7	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	4.76	47.07	86%
8	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	2.75	48.09	87%
9	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	0.61	64.63	100%
10	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	1.51	60.72	100%
11	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	1.02	56.02	100%
12	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	2.98	61.77	100%
13	I-95	POWDER MILL RD	MD-198	4.20	55	3.82	66.11	100%
14	I-95	MD-198	MD-216	2.46	55	2.12	69.74	100%
15	I-95	MD-216	MD-32	3.10	55	2.99	62.76	100%
16	MD-32	MD-32	MD-295	4.08	55	4.19	58.45	100%
17	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
18	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
19	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
20	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
21	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				44.20		57.30	53.57	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

24 Rockville, MD to BWI Marshall - MD 28

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	Norbeck Rd. (MD-28)	VEIRS MILL RD	E GUDE DR	0.92	40	2.03	29.46	74%
2	Norbeck Rd. (MD-28)	E GUDE DR	BEL PRE RD	1.70	40	3.87	32.33	81%
3	Norbeck Rd. (MD-28)	BEL PRE RD	GEORGIA AVE	1.48	40	3.61	24.82	62%
4	Norbeck Rd. (MD-28)	GEORGIA AVE	LAYHILL RD	2.55	40	4.54	33.97	85%
5	Ednor Rd.	MD-28	NEW HAMPSHIRE AVE	2.42	40	5.67	25.75	64%
6	New Hampshire Ave (MD 650)	EDNOR RD	ASHTON RD	1.39	40	2.22	37.79	94%
7	Ashton Rd. (MD 108)	NEW HAMPSHIRE AVE	MD-32	6.09	40	9.95	36.69	92%
8	Patuxent Fwy (MD 32)	CLARKSVILLE PIKE	COLUMBIA PIKE	4.18	55	4.03	62.11	100%
9	Patuxent Fwy (MD 32)	COLUMBIA PIKE	I-95	3.38	55	3.05	66.94	100%
10	MD-32	MD-32	MD-295	4.08	55	4.19	58.45	100%
11	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
12	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
13	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
14	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
15	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				38.08		56.49	43.60	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

25 Rockville, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	3.25	20.10	50%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	5.74	19.10	48%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	2.22	56.80	100%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.72	65.04	100%
5	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	1.88	62.60	100%
6	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.22	67.58	100%
7	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	2.68	61.73	100%
8	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	3.20	52.25	95%
9	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.71	61.00	100%
10	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.17	56.61	100%
11	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
12	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
13	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
14	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				30.20		38.81	52.18	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

26 Rockville, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	3.25	20.10	50%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	5.74	19.10	48%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	2.22	56.80	100%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.72	65.04	100%
5	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	1.88	62.60	100%
6	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	1.22	67.58	100%
7	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	2.68	61.73	100%
8	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	4.66	55.77	100%
9	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	8.78	48.72	100%
10	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.24	39.49	79%
11	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.46	27.06	54%
12	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				25.86		36.23	46.57	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)

27 Springfield, VA to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA RD	0.45	25	2.51	11.06	44%
2	FRANCONIA RD	FRONTIER DR	COMMERCE ST	0.24	45	1.20	11.97	27%
3	I-95	FRANCONIA RD	CAPITAL BELTWAY	0.96	55	1.27	45.86	83%
4	I-495 CAPITAL BELTWAY	I-395	S VAN DORN ST	2.33	55	2.25	61.35	100%
5	I-495 CAPITAL BELTWAY	S VAN DORN ST	TELEGRAPH RD	3.18	55	3.15	59.62	100%
6	I-495 CAPITAL BELTWAY	TELEGRAPH RD	GW MEM. Pkwy	1.79	55	1.80	59.01	100%
7	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	INDIAN HEAD HWY	3.11	55	3.02	60.50	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	BRANCH AVE	4.22	55	4.09	61.74	100%
9	I-495 CAPITAL BELTWAY	BRANCH AVE	MD-4	3.46	55	3.29	62.17	100%
10	I-495 CAPITAL BELTWAY	MD-4	CENTRAL AVE	4.30	55	4.26	59.92	100%
11	I-495 CAPITAL BELTWAY	CENTRAL AVE	ARENA DR	1.18	55	1.34	53.44	97%
12	I-495 CAPITAL BELTWAY	ARENA DR	US-50	2.72	55	2.67	61.31	100%
13	I-495 CAPITAL BELTWAY	US-50	MD-295	3.68	55	3.75	58.99	100%
14	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.42	61.30	100%
15	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.88	61.64	100%
16	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.15	61.53	100%
17	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.55	63.57	100%
18	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
19	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
20	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
21	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
22	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				51.80		57.91	52.76	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

28 Springfield, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA-SPRINGFIELD Pkwy	0.14	25	0.33	25.84	100%
2	FRANCONIA-SPRINGFIELD Pk	FRONTIER DR	I-95	0.61	50	0.85	42.89	86%
3	FRANCONIA-SPRINGFIELD Pk	I-95	ROLLING RD	1.96	50	2.48	47.54	95%
4	FAIRFAX COUNTY Pkwy	ROLLING RD	OX RD	7.75	50	11.43	41.58	83%
5	FAIRFAX COUNTY Pkwy	OX RD	LEE HWY	4.92	50	5.54	53.70	100%
6	FAIRFAX COUNTY Pkwy	LEE HWY	I-66	1.25	50	1.35	55.96	100%
7	FAIRFAX COUNTY Pkwy	I-66	LEE JACKSON MEM. HWY	1.61	50	2.67	37.13	74%
8	FAIRFAX COUNTY Pkwy	LEE JACKSON MEM. HWY	DULLES ACCESS RD	6.43	50	11.72	33.04	66%
9	DULLES ACCESS RD	FAIRFAX COUNTY Pkwy	DULLES ACCESS RD Ramp	1.08	55	1.17	55.53	100%
10	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
11	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				29.76		42.67	44.21	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

29 Springfield, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA RD	0.45	25	2.51	11.06	44%
2	FRANCONIA RD	FRONTIER DR	COMMERCE ST	0.24	45	1.20	11.97	27%
3	I-95	FRANCONIA RD	CAPITAL BELTWAY	0.96	55	1.27	45.86	83%
4	I-395	CAPITAL BELTWAY	EDSALL RD	1.01	55	1.29	48.69	89%
5	I-395	EDSALL RD	DUKE ST	1.66	55	1.63	61.25	100%
6	I-395	DUKE ST	KING ST	2.57	55	2.62	59.30	100%
7	I-395	KING ST	S GLEBE RD	1.34	55	1.32	61.08	100%
8	I-395	S GLEBE RD	ARMY NAVY DR	1.96	55	3.19	37.14	68%
9	S HAYES ST	ARMY NAVY DR	15TH ST S	0.31	25	0.59	32.14	100%
10	15TH ST S	S HAYES ST	JEFFERSON DAVIS HWY	0.45	25	1.59	19.30	77%
11	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	3.02	10.50	30%
12	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.57	23.41	94%
13	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.53	25.18	100%
14	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				12.35		23.69	34.41	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

30 Towson, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	DULANEY VALLEY RD	E JOPPA RD	I-695	0.83	25	3.93	12.67	51%
2	I-695	DULANEY VALLEY RD	I-83	2.09	55	2.62	48.01	87%
3	I-695	I-83	I-795	7.15	55	6.99	61.58	100%
4	I-695	I-795	LIBERTY RD	1.64	55	1.65	59.75	100%
5	I-695	LIBERTY RD	I-70	3.44	55	3.39	61.06	100%
6	I-695	I-70	I-95	4.69	55	4.75	59.32	100%
7	I-695	I-95	MD-295	2.99	55	2.87	61.67	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	2.73	53.04	96%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				27.29		33.45	49.70	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

31 Tysons, VA to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	2.21	23.65	68%
2	CHAIN BRIDGE RD (VA 123)	LEESBURG PIKE	CAPITAL BELTWAY	1.31	35	2.81	23.22	66%
3	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	1.32	50.90	93%
4	I-495 CAPITAL BELTWAY	DULLES ACCESS RD	GW MEM. Pkwy	2.83	55	2.88	58.20	100%
5	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	MD-190	2.56	55	2.57	59.65	100%
6	I-495 CAPITAL BELTWAY	MD-190	I-270-SPUR	1.46	55	1.38	62.17	100%
7	I-495 CAPITAL BELTWAY	I-270-SPUR	ROCKVILLE PIKE	2.73	55	2.75	57.56	100%
8	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	1.43	60.82	100%
9	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	4.76	47.07	86%
10	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	2.75	48.09	87%
11	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	0.61	64.63	100%
12	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	1.51	60.72	100%
13	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	1.02	56.02	100%
14	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	2.98	61.77	100%
15	I-95	POWDER MILL RD	MD-198	4.20	55	3.82	66.11	100%
16	I-95	MD-198	MD-216	2.46	55	2.12	69.74	100%
17	I-95	MD-216	MD-32	3.10	55	2.99	62.76	100%
18	MD-32	MD-32	MD-295	4.08	55	4.19	58.45	100%
19	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
20	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
21	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
22	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
23	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				47.38		57.44	53.79	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

32 Tysons, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	2.21	23.65	68%
2	LEESBURG PIKE (VA 7)	CHAIN BRIDGE RD	DULLES ACCESS RD	1.63	35	2.97	28.34	81%
3	DULLES ACCESS RD	LEESBURG PIKE	DULLES ACCESS RD Ramp	2.88	55	3.01	56.55	100%
4	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
5	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
6	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
7	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				17.24		22.20	45.17	

33 Tysons, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	2.21	23.65	68%
2	CHAIN BRIDGE RD (VA 123)	LEESBURG PIKE	CAPITAL BELTWAY	1.31	35	2.81	23.22	66%
3	CHAIN BRIDGE RD (VA 123)	CAPITAL BELTWAY	DULLES ACCESS RD	0.66	35	4.54	26.23	75%
4	DULLES ACCESS RD	OLD DOMINION DR	I-66	2.70	55	2.74	54.77	100%
5	I-66	DULLES ACCESS RD	N GLEBE RD	4.33	55	4.79	53.79	98%
6	I-66	N GLEBE RD	VA110	3.03	55	4.88	54.62	99%
7	VA - 110	I-66	15TH ST S	2.86	55	3.54	47.90	87%
8	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	3.02	10.50	30%
9	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.57	23.41	94%
10	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.53	25.18	100%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				16.64		32.02	34.38	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

34 Waldorf, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LEONARDTOWN RD	OLD WASHINGTON RD	CRAIN HWY	0.18	25	0.44	25.01	100%
2	CRAIN HWY (US 301)	LEONARDTOWN RD	MD-5	2.90	55	5.18	33.56	61%
3	CRAIN HWY (US 301)	MD-5	BRANCH AVE	2.57	55	11.33	14.63	27%
4	CRAIN HWY (US 301)	BRANCH AVE	MD-4	11.49	55	13.13	52.58	96%
5	CRAIN HWY (US 301)	MD-4	CENTRAL AVE	5.97	55	7.37	48.77	89%
6	CRAIN HWY (US 301)	CENTRAL AVE	US-50	3.92	55	5.88	40.16	73%
7	CRAIN HWY (US 301)	US-50	ANNAPOLIS RD	2.20	55	3.10	42.79	78%
8	CRAIN HWY (US 301)	ANNAPOLIS RD	MD-32	7.36	55	10.99	40.25	73%
9	I-97	MD-32	DORSEY RD	7.36	60	7.08	62.85	100%
10	AVIATION BLVD	I-97	S CAMP MEADE RD	2.56	45	4.25	36.53	81%
11	AIRPORT LOOP	S CAMP MEADE RD	TERMINAL RD	0.75	35	2.34	19.39	55%
12	TERMINAL RD	AIRPORT LOOP	I-195	0.62	15	3.33	20.12	100%
13	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				49.03		77.74	35.32	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

35 Waldorf, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	MD 228	US 301 Crain Hwy	MD 210 Indian Head Hwy	6.97	50	9.28	45.16	90%
2	MD 210 Indian Head Hwy	MD 228	I-495 CAPITAL BELTWAY	10.26	50	14.24	43.30	87%
3	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	0.96	65.95	100%
4	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.83	59.10	100%
5	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	1.72	60.08	100%
6	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.19	59.89	100%
7	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	2.13	61.75	100%
8	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	2.58	64.71	100%
9	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	1.67	50.91	93%
10	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	4.57	35.28	64%
11	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	1.41	49.72	90%
12	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	1.78	59.59	100%
13	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	0.78	61.98	100%
14	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	1.32	50.90	93%
15	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	0.71	61.00	100%
16	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.17	56.61	100%
17	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
18	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
19	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
20	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				54.03		64.35	54.68	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

36 Waldorf, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	MD 228	US 301 Crain Hwy	MD 210 Indian Head Hwy	6.97	50	9.28	45.16	90%
2	MD 210 Indian Head Hwy	MD 228	I-495 CAPITAL BELTWAY	10.26	50	14.24	43.30	87%
3	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	0.96	65.95	100%
4	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.83	59.10	100%
5	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.57	13.87	46%
6	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	1.68	20.25	68%
7	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	1.08	13.24	44%
8	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	2.68	14.86	50%
9	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	3.55	38.31	96%
10	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.39	29.00	100%
11	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.53	25.18	100%
12	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				24.60		41.16	33.59	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

37 Washington D.C. to BWI Marshall - 14th St. & Independence Ave

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	INDEPENDENCE AVE SW	14TH ST SW	S CAPITOL ST SE	1.24	25	4.44	16.94	68%
2	INDEPENDENCE AVE SE	S CAPITOL ST SE	2ND ST SE	0.29	25	1.63	11.07	44%
3	PENNSYLVANIA AVE SE	2ND ST SE	FAIRLAWN AVE SE	1.86	45	5.98	19.06	42%
4	Annapostia Freeway (DC-295)	FAIRLAWN AVE SE	BENNING RD NE	1.92	55	2.94	39.72	72%
5	Annapostia Freeway (DC-295)	BENNING RD NE	MD-295 - Merge	2.30	55	2.73	50.60	92%
6	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.94	60.61	100%
7	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.70	62.01	100%
8	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.42	61.30	100%
9	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.88	61.64	100%
10	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.15	61.53	100%
11	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.55	63.57	100%
12	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
13	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
14	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
15	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
16	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				33.52		46.68	47.11	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

38 Washington D.C. to BWI Marshall - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	1.94	8.52	34%
2	K ST NW	14TH ST NW	7TH ST NW	0.63	25	4.53	8.41	34%
3	NEW YORK AVE NW	7TH ST NW	4TH ST NW	0.33	30	1.02	20.30	68%
4	NEW YORK AVE NW	4TH ST NW	N CAPITOL ST NW	0.42	30	1.31	21.83	73%
5	NEW YORK AVE NE (US 50)	N CAPITOL ST NW	FLORIDA AVE NE	0.27	30	1.20	14.06	47%
6	NEW YORK AVE NE (US 50)	FLORIDA AVE NE	SOUTH DAKOTA AVE NE	2.82	35	6.11	28.01	80%
7	NEW YORK AVE NE (US 50)	SOUTH DAKOTA AVE NE	MD-295 - Merge	1.45	35	1.51	57.63	100%
8	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.94	60.61	100%
9	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.70	62.01	100%
10	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.42	61.30	100%
11	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	2.88	61.64	100%
12	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	5.15	61.53	100%
13	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	1.55	63.57	100%
14	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	2.22	60.23	100%
15	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.58	55.89	100%
16	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
17	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
18	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
19	K ST NW	16TH ST NW	14TH ST NW	0.25	25	1.94	8.52	34%
Subtotal				32.32		48.52	41.24	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

39 Washington D.C. to Dulles International - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	1.94	8.52	34%
2	14TH ST NW	K ST NW	CONSTITUTION AVE NW	0.72	25	4.20	10.83	43%
3	CONSTITUTION AVE NW	14TH ST NW	23RD ST NW	0.98	25	4.03	14.63	59%
4	I-66	23RD ST NW	N GLEBE RD	4.38	55	4.78	54.96	100%
5	I-66	N GLEBE RD	VA-267	4.29	55	4.76	54.35	99%
6	DULLES ACCESS RD (VA-267)	I-66	CAPITAL BELTWAY	2.69	55	3.02	53.42	97%
7	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.17	56.61	100%
8	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.64	58.72	100%
9	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	6.23	55.82	100%
10	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
11	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				27.74		38.92	41.91	

40 Washington D.C. to Ronald Reagan National - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	1.94	8.52	34%
2	14TH ST NW	K ST NW	CONSTITUTION AVE NW	0.72	25	4.20	10.83	43%
3	14TH ST NW	CONSTITUTION AVE NW	INDEPENDENCE AVE SW	0.31	25	1.38	16.84	67%
4	14th ST SW (US-1)	INDEPENDENCE AVE SW	I-395	0.80	25	1.17	41.28	100%
5	14th St. Bridge (I-395)	I-395	GW MEM. Pkwy	0.68	55	1.06	39.52	72%
6	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	2.24	39.49	79%
7	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.46	27.06	54%
8	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				4.97		13.83	27.30	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

41 White Marsh, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	HONEYGO BLVD	CAMPBELL BLVD	MD-43	0.45	25	1.10	25.15	100%
2	Whitemarsh Blvd (MD-43)	HONEYGO BLVD	I-95	0.62	25	0.82	45.64	100%
3	I-95	MD-43	I-695	2.90	55	2.80	62.14	100%
4	I-95	I-695	HARBOR TUNNEL THWY	2.93	55	2.87	61.53	100%
5	I-95	HARBOR TUNNEL THWY	TOLL PLAZA	4.82	55	5.25	55.14	100%
6	I-95	TOLL PLAZA	MD-295	4.13	55	4.83	51.28	93%
7	BW Pkwy (MD 295)	I-95	I-695	3.89	50	4.08	57.36	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	2.73	53.04	96%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.20	55.49	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.98	51.54	94%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	3.35	22.55	100%
Subtotal				24.21		29.01	49.17	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

42 Woodbridge, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	JEFFERSON DAVIS HWY	PRINCE WILLIAM Pkwy	GORDON BLVD	1.17	55	3.08	24.05	44%
2	GORDON BLVD	JEFFERSON DAVIS HWY	I-95	0.72	45	1.13	39.22	87%
3	GORDON BLVD	I-95	FAIRFAX COUNTY Pkwy	10.20	50	13.14	46.67	93%
4	FAIRFAX COUNTY Pkwy	OX RD	LEE HWY	4.92	50	5.54	53.70	100%
5	FAIRFAX COUNTY Pkwy	LEE HWY	I-66	1.25	50	1.35	55.96	100%
6	FAIRFAX COUNTY Pkwy	I-66	LEE JACKSON MEM. HWY	1.61	50	2.67	37.13	74%
7	FAIRFAX COUNTY Pkwy	LEE JACKSON MEM. HWY	DULLES ACCESS RD	6.43	50	11.72	33.04	66%
8	DULLES ACCESS RD	FAIRFAX COUNTY Pkwy	DULLES ACCESS RD Ramp	1.08	55	1.17	55.53	100%
9	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.65	60.55	100%
10	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.50	32.58	100%
Subtotal				31.40		44.92	43.84	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - MD (10:00 AM - 2:00 PM)**

43 Woodbridge, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	JEFFERSON DAVIS HWY	PRINCE WILLIAM Pkwy	GORDON BLVD	1.17	55	3.08	24.05	44%
2	JEFFERSON DAVIS HWY	GORDON BLVD	I-95	1.05	55	2.10	30.80	56%
3	I-95 (North)	RICHMOND HWY	LORTON RD	2.36	55	2.05	69.26	100%
4	I-95 (North)	LORTON RD	FAIRFAX COUNTY Pkwy	3.02	55	2.72	67.05	100%
5	I-95 (North)	FAIRFAX COUNTY Pkwy	CAPITAL BELTWAY	3.64	55	3.51	62.49	100%
6	I-395	CAPITAL BELTWAY	EDSALL RD	1.01	55	1.29	48.69	89%
7	I-395	EDSALL RD	DUKE ST	1.66	55	1.63	61.25	100%
8	I-395	DUKE ST	KING ST	2.57	55	2.62	59.30	100%
9	I-395	KING ST	S GLEBE RD	1.34	55	1.32	61.08	100%
10	I-395	S GLEBE RD	ARMY NAVY DR	1.96	55	3.19	37.14	68%
11	S HAYES ST	ARMY NAVY DR	15TH ST S	0.31	25	0.59	32.14	100%
12	15TH ST S	S HAYES ST	JEFFERSON DAVIS HWY	0.45	25	1.59	19.30	77%
13	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	3.02	10.50	30%
14	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.57	23.41	94%
15	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.53	25.18	100%
16	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	34.88	100%
Subtotal				21.95		32.17	41.66	

Appendix C: Segment Level Travel Time and Speed Data
PM Peak Period

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)

1 Annapolis, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	COLLEGE AVE	EAST ST	BLADEN ST	0.29	15	2.91	7.24	48%
2	ROWE BLVD	COLLEGE AVE	US-301	2.01	40	6.98	19.21	48%
3	US-301	ROWE BLVD	I-97	2.92	55	2.93	59.76	100%
4	I-97	US-301	CRAIN HWY	7.91	60	7.41	64.13	100%
5	I-97	MD-32	DORSEY RD	7.36	60	6.43	69.17	100%
6	AVIATION BLVD	I-97	S CAMP MEADE RD	2.56	45	5.06	31.41	70%
7	AIRPORT LOOP	S CAMP MEADE RD	TERMINAL RD	0.75	35	2.55	18.14	52%
8	TERMINAL RD	AIRPORT LOOP	I-195	0.62	15	1.72	24.84	100%
9	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				25.56		38.49	35.76	

2 Baltimore, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	W FAYETTE ST	N CHARLES ST	N GREENE ST	0.46	25	7.57	6.55	26%
2	S GREENE ST	W FAYETTE ST	WASHINGTON BLVD	0.36	45	4.49	5.96	13%
3	RUSSELL ST	WASHINGTON BLVD	I-95	1.49	45	3.14	29.45	65%
4	BW Pkwy (MD 295)	I-95	I-695	3.89	50	3.85	60.57	100%
5	BW Pkwy (MD 295)	I-695	I-195	2.41	55	2.61	55.70	100%
6	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
7	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
8	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				10.65		25.15	37.05	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

3 Columbia, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LITTLE PATUXENT Pkwy	CENTURY PLZ	GOVERNOR WARFIELD Pkwy	1.48	45	4.44	20.28	45%
2	LITTLE PATUXENT Pkwy	GOVERNOR WARFIELD Pkwy	COLUMBIA PIKE	0.92	45	1.74	32.62	72%
3	MD-175	COLUMBIA PIKE	SNOWDEN RIVER Pkwy	3.18	45	6.16	31.20	69%
4	MD-175	SNOWDEN RIVER Pkwy	I-95	1.57	45	2.12	45.19	100%
5	MD-175	I-95	MD-295	3.63	45	9.41	23.40	52%
6	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
7	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
8	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
9	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				18.47		33.72	38.33	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

4 Frederick, MD to BWI Marshall - MD 100

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.70	45.62	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.70	32.57	59%
3	I-70	US-40	MD-27	15.17	65	13.60	67.14	100%
4	I-70	MD-27	COLUMBIA PIKE	18.94	65	16.40	69.54	100%
5	COLUMBIA PIKE	I-70	BALTIMORE NATIONAL PIKE	1.51	55	1.57	58.30	100%
6	COLUMBIA PIKE	BALTIMORE NATIONAL PIKE	MD-100	1.94	55	1.97	58.45	100%
7	MD-100	COLUMBIA PIKE	I-95	5.17	55	5.20	59.28	100%
8	MD-100	I-95	MD-295	2.79	55	3.08	54.16	98%
9	MD-100	MD-295	MD-170	3.02	50	4.71	38.91	78%
10	MD-170	MD-100	I-195	3.21	50	5.78	38.10	76%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				53.84		56.19	50.00	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)

5 Frederick, MD to BWI Marshall - MD 295

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.70	45.62	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.70	32.57	59%
3	I-70	US-40	MD-27	15.17	65	13.60	67.14	100%
4	I-70	MD-27	COLUMBIA PIKE	18.94	65	16.40	69.54	100%
5	I-70	COLUMBIA PIKE	I-695	5.22	55	4.90	64.09	100%
6	I-695	I-70	I-95	4.69	55	5.66	50.24	91%
7	I-695	I-95	MD-295	2.99	55	4.09	56.35	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	2.61	55.70	100%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				52.41		52.14	52.68	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

6 Frederick, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.70	45.62	100%
2	US-15	US-40	US-340	4.65	50	4.87	58.60	100%
3	US-15	US-340	LOVETTSVILLE RD	7.33	50	8.48	51.96	100%
4	US-15	LOVETTSVILLE RD	US-15-BR HWY	9.87	45	13.16	45.19	100%
5	US-15	US-15-BR HWY	DULLES GREENWAY	3.61	45	8.15	27.00	60%
6	DULLES GREENWAY	LEESBURG BYP	ARIANE WAY	12.40	65	11.61	65.46	100%
7	DULLES GREENWAY	ARIANE WAY	DULLES ACCESS RD	1.24	55	1.63	46.36	84%
8	DULLES GREENWAY	DULLES GREENWAY	DULLES ACCESS RD	0.46	55	0.55	50.10	91%
9	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				41.38		51.86	46.77	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)

7 Frederick, MD to Dulles International -via I-270

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.70	45.62	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.70	32.57	59%
3	I-270	I-70	MD-85	1.90	65	1.75	43.54	67%
4	I-270	MD-85	FINGERBOARD RD	5.01	65	4.76	63.20	97%
5	I-270	FINGERBOARD RD	OLD HUNDRED RD	3.73	65	3.50	64.07	99%
6	I-270	OLD HUNDRED RD	FATHER HURLEY BLVD	6.43	55	5.99	64.47	100%
7	I-270	FATHER HURLEY BLVD	GERMANTOWN RD	1.03	55	0.99	62.73	100%
8	I-270	GERMANTOWN RD	West Diamond Ave	4.13	55	3.05	64.06	100%
9	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.97	70.73	100%
10	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.78	62.93	100%
11	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	3.47	34.83	63%
12	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	4.67	18.40	33%
13	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	8.05	20.74	38%
14	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	7.78	21.38	39%
15	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	1.00	45.58	83%
16	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.13	57.65	100%
17	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
18	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
19	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
20	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				55.16		70.34	48.99	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

8 Frederick, MD to Ronald Reagan National - via I-270/I-495/GW Pkwy

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	S JEFFERSON ST	CATOCTIN AVE	US-40	0.48	25	0.70	45.62	100%
2	US-40 (Dwight Eisenhower Mem	S JEFFERSON ST	I-70	0.46	55	0.70	32.57	59%
3	I-270	I-70	MD-85	1.90	65	1.75	43.54	67%
4	I-270	MD-85	FINGERBOARD RD	5.01	65	4.76	63.20	97%
5	I-270	FINGERBOARD RD	OLD HUNDRED RD	3.73	65	3.50	64.07	99%
6	I-270	OLD HUNDRED RD	FATHER HURLEY BLVD	6.43	55	5.99	64.47	100%
7	I-270	FATHER HURLEY BLVD	GERMANTOWN RD	1.03	55	0.99	62.73	100%
8	I-270	GERMANTOWN RD	West Diamond Ave	4.13	55	3.05	64.06	100%
9	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.97	70.73	100%
10	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.78	62.93	100%
11	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	3.47	34.83	63%
12	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	4.67	18.40	33%
13	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	8.05	20.74	38%
14	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	5.03	51.81	100%
15	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	12.76	35.94	80%
16	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	1.84	38.54	77%
17	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.91	30.42	61%
18	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				50.82		67.31	46.49	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

9 Gaithersburg, MD to Dulles International -via I-270

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	1.87	3.94	11%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.97	70.73	100%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.78	62.93	100%
4	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	3.47	34.83	63%
5	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	4.67	18.40	33%
6	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	8.05	20.74	38%
7	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	7.78	21.38	39%
8	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	1.00	45.58	83%
9	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.13	57.65	100%
10	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
11	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
12	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
13	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				32.66		50.78	41.81	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

10 Gaithersburg, MD to Ronald Reagan National - via I-270/I-495/GW Pkwy

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	1.87	3.94	11%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.97	70.73	100%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.78	62.93	100%
4	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	3.47	34.83	63%
5	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	4.67	18.40	33%
6	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	8.05	20.74	38%
7	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	5.03	51.81	100%
8	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	12.76	35.94	80%
9	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	1.84	38.54	77%
10	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.91	30.42	61%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				28.32		47.74	36.41	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

11 Gaithersburg, MD to to BWI Marshall - via I-270/I-495/I-95

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	West Diamond Ave	Quince Orchard Rd.	I-270	0.68	35	1.87	3.94	11%
2	I-270	West Diamond Ave	MONTROSE RD	6.14	55	5.97	70.73	100%
3	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.78	62.93	100%
4	I-270	I-270-SPUR	CAPITAL BELTWAY	2.93	55	8.46	23.11	42%
5	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	7.74	11.36	21%
6	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	6.93	19.31	35%
7	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	2.80	22.18	40%
8	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	2.16	26.74	49%
9	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	4.44	31.24	57%
10	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	3.58	37.50	68%
11	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	6.36	29.72	54%
12	I-95	POWDER MILL RD	MD-198	4.20	55	5.61	46.56	85%
13	I-95	MD-198	MD-216	2.46	55	2.30	64.24	100%
14	I-95	MD-216	MD-32	3.10	55	4.67	39.90	73%
15	MD-32	MD-32	MD-295	4.08	55	5.03	50.98	93%
16	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
17	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
18	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
19	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
20	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				46.66		82.67	38.83	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

12 Greenbelt, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	1.26	20.87	83%
2	GREENBELT RD - BW Pkwy Ra	HANOVER Pkwy	MD-295	0.23	25	1.10	22.00	88%
3	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	7.81	24.14	44%
4	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	6.09	51.93	94%
5	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	2.00	53.03	96%
6	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
7	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
8	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
9	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
10	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				20.24		31.24	40.82	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

13 Greenbelt, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	1.26	20.87	83%
2	BW Pkwy (MD 295)	HANOVER Pkwy	MD-295	0.72	25	1.92	22.87	91%
3	I-495 CAPITAL BELTWAY	MD-295	I-95	4.30	55	5.86	44.67	81%
4	I-495 CAPITAL BELTWAY	I-95	MD-650	1.71	55	1.94	52.10	95%
5	I-495 CAPITAL BELTWAY	MD-650	MD-193	1.55	55	3.10	37.77	69%
6	I-495 CAPITAL BELTWAY	MD-193	COLESVILLE RD	0.62	55	0.86	48.87	89%
7	I-495 CAPITAL BELTWAY	COLESVILLE RD	GEORGIA AVE	1.45	55	2.18	44.48	81%
8	I-495 CAPITAL BELTWAY	GEORGIA AVE	CONNECTICUT AVE	2.22	55	3.52	40.62	74%
9	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	ROCKVILLE PIKE	1.43	55	1.79	48.67	88%
10	I-495 CAPITAL BELTWAY	ROCKVILLE PIKE	I-270-SPUR	3.21	55	10.73	28.81	52%
11	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	4.67	18.40	33%
12	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	8.05	20.74	38%
13	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	7.78	21.38	39%
14	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	1.00	45.58	83%
15	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.13	57.65	100%
16	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
17	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
18	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
19	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				39.47		70.86	40.05	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

14 Greenbelt, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	GREENBELT RD	FRANKFORT DR	HANOVER Pkwy	0.25	25	1.26	20.87	83%
2	BW Pkwy (MD 295)	HANOVER PkwyMD-295	MD-295	0.72	25	1.92	22.87	91%
3	BW Pkwy (MD 295)	GREENBELT RD	CAPITAL BELTWAY	0.26	55	0.30	53.39	97%
4	BW Pkwy (MD 295)	CAPITAL BELTWAY	RIVERDALE RD	2.55	55	2.31	66.38	100%
5	BW Pkwy (MD 295)	RIVERDALE RD	NEW YORK AVE	2.89	55	3.08	56.48	100%
6	NEW YORK AVE NE (US 50)	MD-295	SOUTH DAKOTA AVE NE	1.46	35	1.63	53.87	100%
7	NEW YORK AVE NE (US 50)	SOUTH DAKOTA AVE NE	BLADENSBURG RD NE	0.96	35	1.49	41.47	100%
8	NEW YORK AVE NE (US 50)	BLADENSBURG RD NE	FLORIDA AVE NE	1.85	35	5.55	24.51	70%
9	NEW YORK AVE NE (US 50)	FLORIDA AVE NE	N CAPITOL ST NW	0.27	30	0.75	27.13	90%
10	NEW YORK AVE NE (US 50)	N CAPITOL ST NW	4TH ST NW	0.42	30	3.33	9.49	32%
11	I-395	NEW YORK AVE NW	US-1	3.05	50	12.86	17.34	35%
12	14th St. Bridge (I-395)	I-395	GW MEM. Pkwy	0.68	55	1.98	31.62	57%
13	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	1.84	38.54	77%
14	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.91	30.42	61%
15	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				17.57		40.58	35.11	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

15 Largo, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	1.08	33.00	100%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	51.85	100%
3	I-495 CAPITAL BELTWAY	CENTRAL AVE	ARENA DR	1.18	55	1.71	47.02	85%
4	I-495 CAPITAL BELTWAY	ARENA DR	US-50	2.72	55	4.89	44.31	81%
5	I-495 CAPITAL BELTWAY	US-50	MD-295	3.68	55	4.09	55.08	100%
6	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.41	62.95	100%
7	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	7.81	24.14	44%
8	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	6.09	51.93	94%
9	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	2.00	53.03	96%
10	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
11	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
12	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
13	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
14	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				28.96		41.52	47.11	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

16 Largo, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	1.08	33.00	100%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	51.85	100%
3	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.58	55	0.81	56.86	100%
4	I-495 CAPITAL BELTWAY	CENTRAL AVE	MD-4	4.00	55	5.19	46.42	84%
5	I-495 CAPITAL BELTWAY	MD-4	BRANCH AVE	3.45	55	3.32	62.49	100%
6	I-495 CAPITAL BELTWAY	BRANCH AVE	ST BARNABAS RD	2.94	55	2.67	66.32	100%
7	I-495 CAPITAL BELTWAY	ST BARNABAS RD	INDIAN HEAD HWY	1.58	55	1.42	66.77	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	0.97	65.22	100%
9	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.92	56.95	100%
10	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	3.29	38.99	71%
11	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.52	54.47	99%
12	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	2.11	62.24	100%
13	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	3.09	55.50	100%
14	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	1.60	53.18	97%
15	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	2.42	68.05	100%
16	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	1.72	41.87	76%
17	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	2.67	46.11	84%
18	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	4.12	14.77	27%
19	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	3.52	19.57	36%
20	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.13	57.65	100%
21	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
22	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
23	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
24	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				49.80		62.08	51.07	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

17 Largo, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LANDOVER RD	ARENA DR	CENTRAL AVE	0.78	25	1.08	33.00	100%
2	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.40	25	0.46	51.85	100%
3	CENTRAL AVE	LANDOVER RD	CAPITAL BELTWAY	0.58	55	0.81	56.86	100%
4	I-495 CAPITAL BELTWAY	CENTRAL AVE	MD-4	4.00	55	5.19	46.42	84%
5	I-495 CAPITAL BELTWAY	MD-4	BRANCH AVE	3.45	55	3.32	62.49	100%
6	I-495 CAPITAL BELTWAY	BRANCH AVE	ST BARNABAS RD	2.94	55	2.67	66.32	100%
7	I-495 CAPITAL BELTWAY	ST BARNABAS RD	INDIAN HEAD HWY	1.58	55	1.42	66.77	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	0.97	65.22	100%
9	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.92	56.95	100%
10	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.47	18.47	62%
11	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	3.09	11.86	40%
12	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	0.86	14.62	49%
13	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	3.07	12.83	43%
14	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	3.68	36.80	92%
15	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.00	25.00	100%
16	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.54	22.87	100%
17	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				21.09		33.94	40.04	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

18 Manassas, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CENTER ST	PEABODY ST	PRESCOTT AVE	0.70	25	9.07	19.00	76%
2	PRESCOTT AVE	CENTER ST	CENTREVILLE RD	0.29	25	1.11	16.46	66%
3	CENTREVILLE RD	PRESCOTT AVE	LIBERIA AVE	0.51	30	2.17	15.19	51%
4	CENTREVILLE RD	LIBERIA AVE	MANASSAS DR	0.79	30	2.21	23.07	77%
5	CENTREVILLE RD	MANASSAS DR	CENTREVILLE RD	2.30	50	3.17	43.50	87%
6	CENTREVILLE RD	CENTREVILLE RD	LEE HWY	2.63	50	4.89	33.87	68%
7	SULLY RD	LEE HWY	I-66	0.26	45	0.30	52.55	100%
8	SULLY RD	I-66	WESTFIELDS BLVD	2.25	50	2.62	51.59	100%
9	SULLY RD	WESTFIELDS BLVD	LEE JACKSON MEM. HWY	1.49	50	1.97	45.51	91%
10	SULLY RD	LEE JACKSON MEM. HWY	DULLES ACCESS RD	5.54	50	5.91	56.31	100%
11	DULLES GREENWAY	DULLES GREENWAY	DULLES ACCESS RD	0.46	55	0.55	50.10	91%
12	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				18.56		36.68	36.48	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

19 Manassas, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CENTER ST	PEABODY ST	PRESCOTT AVE	0.70	25	9.07	19.00	76%
2	PRESCOTT AVE	CENTER ST	CENTREVILLE RD	0.29	25	1.11	16.46	66%
3	CENTREVILLE RD	PRESCOTT AVE	LIBERIA AVE	0.51	30	2.17	15.19	51%
4	CENTREVILLE RD	LIBERIA AVE	MANASSAS DR	0.79	30	2.21	23.07	77%
5	CENTREVILLE RD	MANASSAS DR	CENTREVILLE RD	2.30	50	3.17	43.50	87%
6	CENTREVILLE RD	CENTREVILLE RD	LEE HWY	2.63	50	4.89	33.87	68%
7	SULLY RD	LEE HWY	I-66	0.26	45	0.30	52.55	100%
8	I-66	SULLY RD	FAIRFAX COUNTY Pkwy	2.58	55	2.79	64.45	100%
9	I-66	FAIRFAX COUNTY Pkwy	LEE JACKSON MEMORIAL HWY	2.28	55	2.37	61.62	100%
10	I-66	LEE JACKSON MEMORIAL HWY	CHAIN BRIDGE RD	2.11	55	2.05	55.62	100%
11	I-66	CHAIN BRIDGE RD	NUTLEY ST	2.36	55	2.53	57.10	100%
12	I-66	NUTLEY ST	I-495 CAPITAL BELTWAY	2.60	55	2.53	50.04	91%
13	I-66	I-495 CAPITAL BELTWAY	DULLES ACCESS RD	2.36	55	5.00	46.34	84%
14	I-66	DULLES ACCESS RD	N GLEBE RD	4.33	55	8.09	33.69	61%
15	I-66	N GLEBE RD	VA110	3.03	55	3.32	54.15	98%
16	VA - 110	I-66	15TH ST S	2.86	55	6.51	35.30	64%
17	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	3.98	8.53	24%
18	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.85	24.89	100%
19	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.54	22.87	100%
20	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				33.39		65.85	37.53	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)

20 National Harbor to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	3.15	14.36	57%
2	Annapostia Freeway (I-295)	CAPITAL BELTWAY	PENNSYLVANIA AVE SE	7.40	50	7.45	50.96	100%
3	Annapostia Freeway (DC-295)	FAIRLAWN AVE SE	BENNING RD NE	1.92	55	7.95	15.32	28%
4	Annapostia Freeway (DC-295)	BENNING RD NE	MD-295 - Merge	2.30	55	6.44	21.54	39%
5	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.97	60.28	100%
6	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.81	57.83	100%
7	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.41	62.95	100%
8	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	7.81	24.14	44%
9	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	6.09	51.93	94%
10	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	2.00	53.03	96%
11	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
12	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
13	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
14	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
15	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				38.28		60.06	43.24	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

21 National Harbor to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	3.15	14.36	57%
2	I-495 CAPITAL BELTWAY RAM	WATERFRONT ST	I-495 CAPITAL BELTWAY	0.62	55	0.96	38.89	71%
3	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.92	56.95	100%
4	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	3.29	38.99	71%
5	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.52	54.47	99%
6	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	2.11	62.24	100%
7	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	3.09	55.50	100%
8	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	1.60	53.18	97%
9	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	2.42	68.05	100%
10	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	1.72	41.87	76%
11	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	2.67	46.11	84%
12	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	4.12	14.77	27%
13	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	3.52	19.57	36%
14	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.13	57.65	100%
15	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
16	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
17	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
18	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				36.40		50.26	46.11	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

22 National Harbor to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	WATERFRONT ST	FORT FOOTE RD	CAPITAL BELTWAY EXIT	0.75	25	3.15	14.36	57%
2	I-495 CAPITAL BELTWAY RAM	WATERFRONT ST	I-495 CAPITAL BELTWAY	0.62	55	0.96	38.89	71%
3	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.92	56.95	100%
4	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.47	18.47	62%
5	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	3.09	11.86	40%
6	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	0.86	14.62	49%
7	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	3.07	12.83	43%
8	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	3.68	36.80	92%
9	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.00	25.00	100%
10	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.54	22.87	100%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				7.69		22.12	25.90	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

23 Rockville, MD to BWI Marshall - I-495/I-95

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	3.26	20.00	50%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	6.01	18.62	47%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	2.27	55.51	100%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.78	62.93	100%
5	I-270	I-270-SPUR	CAPITAL BELTWAY	2.93	55	8.46	23.11	42%
6	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	7.74	11.36	21%
7	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	6.93	19.31	35%
8	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	2.80	22.18	40%
9	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	2.16	26.74	49%
10	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	4.44	31.24	57%
11	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	3.58	37.50	68%
12	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	6.36	29.72	54%
13	I-95	POWDER MILL RD	MD-198	4.20	55	5.61	46.56	85%
14	I-95	MD-198	MD-216	2.46	55	2.30	64.24	100%
15	I-95	MD-216	MD-32	3.10	55	4.67	39.90	73%
16	MD-32	MD-32	MD-295	4.08	55	5.03	50.98	93%
17	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
18	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
19	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
20	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
21	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				44.20		86.38	37.91	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

24 Rockville, MD to BWI Marshall - MD 28

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	Norbeck Rd. (MD-28)	VEIRS MILL RD	E GUDE DR	0.92	40	2.86	22.08	55%
2	Norbeck Rd. (MD-28)	E GUDE DR	BEL PRE RD	1.70	40	5.51	19.75	49%
3	Norbeck Rd. (MD-28)	BEL PRE RD	GEORGIA AVE	1.48	40	3.93	22.80	57%
4	Norbeck Rd. (MD-28)	GEORGIA AVE	LAYHILL RD	2.55	40	6.95	23.73	59%
5	Ednor Rd.	MD-28	NEW HAMPSHIRE AVE	2.42	40	10.00	15.12	38%
6	New Hampshire Ave (MD 650)	EDNOR RD	ASHTON RD	1.39	40	5.22	19.74	49%
7	Ashton Rd. (MD 108)	NEW HAMPSHIRE AVE	MD-32	6.09	40	14.54	26.92	67%
8	Patuxent Fwy (MD 32)	CLARKSVILLE PIKE	COLUMBIA PIKE	4.18	55	3.97	63.17	100%
9	Patuxent Fwy (MD 32)	COLUMBIA PIKE	I-95	3.38	55	3.99	53.24	97%
10	MD-32	MD-32	MD-295	4.08	55	5.03	50.98	93%
11	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
12	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
13	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
14	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
15	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				38.08		74.98	36.92	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

25 Rockville, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	3.26	20.00	50%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	6.01	18.62	47%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	2.27	55.51	100%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.78	62.93	100%
5	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	3.47	34.83	63%
6	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	4.67	18.40	33%
7	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	8.05	20.74	38%
8	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	VA-267	2.75	55	7.78	21.38	39%
9	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	1.00	45.58	83%
10	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.13	57.65	100%
11	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
12	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
13	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
14	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				30.20		54.48	40.22	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

26 Rockville, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	VEIRS MILL RD	1ST ST	ROCKVILLE PIKE	0.45	40	3.26	20.00	50%
2	W MONTGOMERY AVE	ROCKVILLE PIKE	I-270 LOCAL	1.82	40	6.01	18.62	47%
3	I-270 LOCAL	W MONTGOMERY AVE	I-270 Merge	2.10	55	2.27	55.51	100%
4	I-270	MONTROSE RD	I-270-SPUR	1.87	55	1.78	62.93	100%
5	I-270-SPUR	I-270-SPUR	CAPITAL BELTWAY	1.95	55	3.47	34.83	63%
6	I-495 CAPITAL BELTWAY	I-270-SPUR	MD-190	1.37	55	4.67	18.40	33%
7	I-495 CAPITAL BELTWAY	MD-190	GW MEM. Pkwy	2.75	55	8.05	20.74	38%
8	GW MEM. Pkwy	CAPITAL BELTWAY	DOLLEY MADISON BLVD	4.33	45	5.03	51.81	100%
9	GW MEM. Pkwy	DOLLEY MADISON BLVD	I-395	7.03	45	12.76	35.94	80%
10	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	1.84	38.54	77%
11	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.91	30.42	61%
12	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				25.86		51.44	35.00	

Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)

27 Springfield, VA to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA RD	0.45	25	1.54	17.58	70%
2	FRANCONIA RD	FRONTIER DR	COMMERCE ST	0.24	45	1.07	14.01	31%
3	I-95	FRANCONIA RD	CAPITAL BELTWAY	0.96	55	1.19	48.57	88%
4	I-495 CAPITAL BELTWAY	I-395	S VAN DORN ST	2.33	55	2.31	59.82	100%
5	I-495 CAPITAL BELTWAY	S VAN DORN ST	TELEGRAPH RD	3.18	55	3.27	57.76	100%
6	I-495 CAPITAL BELTWAY	TELEGRAPH RD	GW MEM. Pkwy	1.79	55	1.93	52.73	96%
7	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	INDIAN HEAD HWY	3.11	55	3.57	56.63	100%
8	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	BRANCH AVE	4.22	55	3.96	63.75	100%
9	I-495 CAPITAL BELTWAY	BRANCH AVE	MD-4	3.46	55	4.13	54.49	99%
10	I-495 CAPITAL BELTWAY	MD-4	CENTRAL AVE	4.30	55	4.19	60.84	100%
11	I-495 CAPITAL BELTWAY	CENTRAL AVE	ARENA DR	1.18	55	1.71	47.02	85%
12	I-495 CAPITAL BELTWAY	ARENA DR	US-50	2.72	55	4.89	44.31	81%
13	I-495 CAPITAL BELTWAY	US-50	MD-295	3.68	55	4.09	55.08	100%
14	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.41	62.95	100%
15	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	7.81	24.14	44%
16	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	6.09	51.93	94%
17	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	2.00	53.03	96%
18	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
19	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
20	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
21	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
22	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				51.80		67.13	48.22	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

28 Springfield, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA-SPRINGFIELD Pkwy	0.14	25	0.37	23.62	94%
2	FRANCONIA-SPRINGFIELD Pk	FRONTIER DR	I-95	0.61	50	0.84	43.13	86%
3	FRANCONIA-SPRINGFIELD Pk	I-95	ROLLING RD	1.96	50	3.03	39.72	79%
4	FAIRFAX COUNTY Pkwy	ROLLING RD	OX RD	7.75	50	14.22	34.21	68%
5	FAIRFAX COUNTY Pkwy	OX RD	LEE HWY	4.92	50	7.93	38.93	78%
6	FAIRFAX COUNTY Pkwy	LEE HWY	I-66	1.25	50	1.29	58.40	100%
7	FAIRFAX COUNTY Pkwy	I-66	LEE JACKSON MEM. HWY	1.61	50	2.39	42.33	85%
8	FAIRFAX COUNTY Pkwy	LEE JACKSON MEM. HWY	DULLES ACCESS RD	6.43	50	12.29	31.45	63%
9	DULLES ACCESS RD	FAIRFAX COUNTY Pkwy	DULLES ACCESS RD Ramp	1.08	55	1.24	52.26	95%
10	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
11	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				29.76		49.08	41.19	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

29 Springfield, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	FRONTIER DR	SPRING MALL RD	FRANCONIA RD	0.45	25	1.54	17.58	70%
2	FRANCONIA RD	FRONTIER DR	COMMERCE ST	0.24	45	1.07	14.01	31%
3	I-95	FRANCONIA RD	CAPITAL BELTWAY	0.96	55	1.19	48.57	88%
4	I-395	CAPITAL BELTWAY	EDSALL RD	1.01	55	1.11	54.64	99%
5	I-395	EDSALL RD	DUKE ST	1.66	55	1.64	61.00	100%
6	I-395	DUKE ST	KING ST	2.57	55	2.62	58.97	100%
7	I-395	KING ST	S GLEBE RD	1.34	55	1.38	58.39	100%
8	I-395	S GLEBE RD	ARMY NAVY DR	1.96	55	3.29	36.27	66%
9	S HAYES ST	ARMY NAVY DR	15TH ST S	0.31	25	0.64	29.19	100%
10	15TH ST S	S HAYES ST	JEFFERSON DAVIS HWY	0.45	25	2.16	12.60	50%
11	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	3.98	8.53	24%
12	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.85	24.89	100%
13	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.54	22.87	100%
14	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				12.35		24.39	34.27	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

30 Towson, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	DULANEY VALLEY RD	E JOPPA RD	I-695	0.83	25	3.74	13.30	53%
2	I-695	DULANEY VALLEY RD	I-83	2.09	55	3.66	38.39	70%
3	I-695	I-83	I-795	7.15	55	7.45	57.57	100%
4	I-695	I-795	LIBERTY RD	1.64	55	1.81	54.36	99%
5	I-695	LIBERTY RD	I-70	3.44	55	6.32	35.21	64%
6	I-695	I-70	I-95	4.69	55	5.66	50.24	91%
7	I-695	I-95	MD-295	2.99	55	4.09	56.35	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	2.61	55.70	100%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				27.29		38.83	45.39	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

31 Tysons, VA to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	2.03	23.49	67%
2	CHAIN BRIDGE RD (VA 123)	LEESBURG PIKE	CAPITAL BELTWAY	1.31	35	3.89	19.33	55%
3	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	3.52	19.57	36%
4	I-495 CAPITAL BELTWAY	DULLES ACCESS RD	GW MEM. Pkwy	2.83	55	13.91	13.94	25%
5	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	MD-190	2.56	55	8.31	19.64	36%
6	I-495 CAPITAL BELTWAY	MD-190	I-270-SPUR	1.46	55	3.47	27.08	49%
7	I-495 CAPITAL BELTWAY	I-270-SPUR	ROCKVILLE PIKE	2.73	55	15.52	16.73	30%
8	I-495 CAPITAL BELTWAY	I-270	CONNECTICUT AVE	1.45	55	7.74	11.36	21%
9	I-495 CAPITAL BELTWAY	CONNECTICUT AVE	GEORGIA AVE	2.21	55	6.93	19.31	35%
10	I-495 CAPITAL BELTWAY	GEORGIA AVE	COLESVILLE RD	1.43	55	2.80	22.18	40%
11	I-495 CAPITAL BELTWAY	COLESVILLE RD	MD-193	0.65	55	2.16	26.74	49%
12	I-495 CAPITAL BELTWAY	MD-193	MD-650	1.53	55	4.44	31.24	57%
13	I-495 CAPITAL BELTWAY	MD-650	I-95	0.95	55	3.58	37.50	68%
14	I-95	CAPITAL BELTWAY	POWDER MILL RD	3.06	55	6.36	29.72	54%
15	I-95	POWDER MILL RD	MD-198	4.20	55	5.61	46.56	85%
16	I-95	MD-198	MD-216	2.46	55	2.30	64.24	100%
17	I-95	MD-216	MD-32	3.10	55	4.67	39.90	73%
18	MD-32	MD-32	MD-295	4.08	55	5.03	50.98	93%
19	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
20	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
21	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
22	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
23	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				47.38		115.26	32.86	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

32 Tysons, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	2.03	23.49	67%
2	LEESBURG PIKE (VA 7)	CHAIN BRIDGE RD	DULLES ACCESS RD	1.63	35	6.02	24.22	69%
3	DULLES ACCESS RD	LEESBURG PIKE	DULLES ACCESS RD Ramp	2.88	55	3.20	53.70	98%
4	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
5	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
6	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
7	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				17.24		25.31	44.11	

33 Tysons, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	CHAIN BRIDGE RD (VA 123)	OLD COURTHOUSE RD	LEESBURG PIKE	0.33	35	2.03	23.49	67%
2	CHAIN BRIDGE RD (VA 123)	LEESBURG PIKE	CAPITAL BELTWAY	1.31	35	3.89	19.33	55%
3	CHAIN BRIDGE RD (VA 123)	CAPITAL BELTWAY	DULLES ACCESS RD	0.66	35	6.34	19.03	54%
4	DULLES ACCESS RD	OLD DOMINION DR	I-66	2.70	55	6.31	37.43	68%
5	I-66	DULLES ACCESS RD	N GLEBE RD	4.33	55	8.09	33.69	61%
6	I-66	N GLEBE RD	VA110	3.03	55	3.32	54.15	98%
7	VA - 110	I-66	15TH ST S	2.86	55	6.51	35.30	64%
8	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	3.98	8.53	24%
9	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.85	24.89	100%
10	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.54	22.87	100%
11	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				16.64		44.25	28.27	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

34 Waldorf, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	LEONARDTOWN RD	OLD WASHINGTON RD	CRAIN HWY	0.18	25	0.51	21.62	86%
2	CRAIN HWY (US 301)	LEONARDTOWN RD	MD-5	2.90	55	4.34	40.14	73%
3	CRAIN HWY (US 301)	MD-5	BRANCH AVE	2.57	55	3.90	39.61	72%
4	CRAIN HWY (US 301)	BRANCH AVE	MD-4	11.49	55	16.12	43.02	78%
5	CRAIN HWY (US 301)	MD-4	CENTRAL AVE	5.97	55	6.55	55.51	100%
6	CRAIN HWY (US 301)	CENTRAL AVE	US-50	3.92	55	6.10	39.39	72%
7	CRAIN HWY (US 301)	US-50	ANNAPOLIS RD	2.20	55	2.95	49.60	90%
8	CRAIN HWY (US 301)	ANNAPOLIS RD	MD-32	7.36	55	13.34	33.29	61%
9	I-97	MD-32	DORSEY RD	7.36	60	6.43	69.17	100%
10	AVIATION BLVD	I-97	S CAMP MEADE RD	2.56	45	5.06	31.41	70%
11	AIRPORT LOOP	S CAMP MEADE RD	TERMINAL RD	0.75	35	2.55	18.14	52%
12	TERMINAL RD	AIRPORT LOOP	I-195	0.62	15	1.72	24.84	100%
13	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				49.03		72.06	37.97	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

35 Waldorf, MD to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	MD 228	US 301 Crain Hwy	MD 210 Indian Head Hwy	6.97	50	11.47	36.68	73%
2	MD 210 Indian Head Hwy	MD 228	I-495 CAPITAL BELTWAY	10.26	50	16.34	37.68	75%
3	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	0.97	65.22	100%
4	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.92	56.95	100%
5	I-495 CAPITAL BELTWAY	GW MEM. Pkwy	TELEGRAPH RD	1.72	55	3.29	38.99	71%
6	I-495 CAPITAL BELTWAY	TELEGRAPH RD	S VAN DORN ST	3.18	55	3.52	54.47	99%
7	I-495 CAPITAL BELTWAY	S VAN DORN ST	I-395	2.19	55	2.11	62.24	100%
8	I-495 CAPITAL BELTWAY	I-395	BRADDOCK RD	2.78	55	3.09	55.50	100%
9	I-495 CAPITAL BELTWAY	BRADDOCK RD	LITTLE RIVER TPKE	1.42	55	1.60	53.18	97%
10	I-495 CAPITAL BELTWAY	LITTLE RIVER TPKE	ARLINGTON BLVD	2.67	55	2.42	68.05	100%
11	I-495 CAPITAL BELTWAY	ARLINGTON BLVD	I-66	1.17	55	1.72	41.87	76%
12	I-495 CAPITAL BELTWAY	I-66	LEESBURG PIKE	1.77	55	2.67	46.11	84%
13	I-495 CAPITAL BELTWAY	LEESBURG PIKE	CHAIN BRIDGE RD	0.80	55	4.12	14.77	27%
14	I-495 CAPITAL BELTWAY	CHAIN BRIDGE RD	DULLES ACCESS RD	1.12	55	3.52	19.57	36%
15	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	DULLES ACCESS RD	0.72	55	1.00	45.58	83%
16	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.13	57.65	100%
17	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
18	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
19	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
20	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				54.03		75.94	48.10	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

36 Waldorf, MD to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	MD 228	US 301 Crain Hwy	MD 210 Indian Head Hwy	6.97	50	11.47	36.68	73%
2	MD 210 Indian Head Hwy	MD 228	I-495 CAPITAL BELTWAY	10.26	50	16.34	37.68	75%
3	I-495 CAPITAL BELTWAY	INDIAN HEAD HWY	I-295	1.05	55	0.97	65.22	100%
4	I-495 CAPITAL BELTWAY	I-295	GW MEM. Pkwy	1.79	55	1.92	56.95	100%
5	I-495 CAPITAL BELTWAY	CAPITAL BELTWAY	S WASHINGTON ST	0.36	30	1.47	18.47	62%
6	GW MEM. Pkwy	CHURCH ST	DUKE ST	0.56	30	3.09	11.86	40%
7	GW MEM. Pkwy	DUKE ST	KING ST	0.16	30	0.86	14.62	49%
8	GW MEM. Pkwy	KING ST	POWHATAN ST	0.64	30	3.07	12.83	43%
9	GW MEM. Pkwy	POWHATAN ST	Airport Exit	2.26	40	3.68	36.80	92%
10	S SMITH BLVD	GEORGE WASHINGTON MEM.	VA-233	0.23	25	2.00	25.00	100%
11	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.54	22.87	100%
12	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				24.60		46.79	30.94	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

37 Washington D.C. to BWI Marshall - 14th St. & Independence Ave

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	INDEPENDENCE AVE SW	14TH ST SW	S CAPITOL ST SE	1.24	25	5.73	12.96	52%
2	INDEPENDENCE AVE SE	S CAPITOL ST SE	2ND ST SE	0.29	25	1.44	16.32	65%
3	PENNSYLVANIA AVE SE	2ND ST SE	FAIRLAWN AVE SE	1.86	45	23.58	5.22	12%
4	Annapostia Freeway (DC-295)	FAIRLAWN AVE SE	BENNING RD NE	1.92	55	7.95	15.32	28%
5	Annapostia Freeway (DC-295)	BENNING RD NE	MD-295 - Merge	2.30	55	6.44	21.54	39%
6	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.97	60.28	100%
7	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.81	57.83	100%
8	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.41	62.95	100%
9	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	7.81	24.14	44%
10	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	6.09	51.93	94%
11	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	2.00	53.03	96%
12	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
13	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
14	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
15	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
16	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				33.52		80.21	38.61	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

38 Washington D.C. to BWI Marshall - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	2.00	9.92	40%
2	K ST NW	14TH ST NW	7TH ST NW	0.63	25	4.52	10.09	40%
3	NEW YORK AVE NW	7TH ST NW	4TH ST NW	0.33	30	2.16	9.95	33%
4	NEW YORK AVE NW	4TH ST NW	N CAPITOL ST NW	0.42	30	2.15	13.12	44%
5	NEW YORK AVE NE (US 50)	N CAPITOL ST NW	FLORIDA AVE NE	0.27	30	1.47	13.15	44%
6	NEW YORK AVE NE (US 50)	FLORIDA AVE NE	SOUTH DAKOTA AVE NE	2.82	35	10.03	17.95	51%
7	NEW YORK AVE NE (US 50)	SOUTH DAKOTA AVE NE	MD-295 - Merge	1.45	35	2.13	41.28	100%
8	BW Pkwy (MD 295)	MD-295 - Merge	GOOD LUCK RD	3.98	55	3.97	60.28	100%
9	BW Pkwy (MD 295)	GOOD LUCK RD	CAPITAL BELTWAY	1.74	55	1.81	57.83	100%
10	BW Pkwy (MD 295)	CAPITAL BELTWAY	GREENBELT RD _Ramp	0.43	55	0.41	62.95	100%
11	BW Pkwy (MD 295)	GREENBELT RD _Ramp	POWDER MILL RD	2.95	55	7.81	24.14	44%
12	BW Pkwy (MD 295)	POWDER MILL RD	LAUREL FORT MEADE RD	5.27	55	6.09	51.93	94%
13	BW Pkwy (MD 295)	LAUREL FORT MEADE RD	MD-32	1.63	55	2.00	53.03	96%
14	BW Pkwy (MD 295)	MD-32	ANNAPOLIS RD	2.22	55	3.14	43.98	80%
15	BW Pkwy (MD 295)	ANNAPOLIS RD	I-195 - Ramp	5.64	55	6.35	54.12	98%
16	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
17	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
18	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
19	K ST NW	16TH ST NW	14TH ST NW	0.25	25	2.00	9.92	40%
Subtotal				32.32		61.54	35.36	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

39 Washington D.C. to Dulles International - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	2.00	9.92	40%
2	14TH ST NW	K ST NW	CONSTITUTION AVE NW	0.72	25	5.55	8.40	34%
3	CONSTITUTION AVE NW	14TH ST NW	23RD ST NW	0.98	25	5.64	10.45	42%
4	I-66	23RD ST NW	N GLEBE RD	4.38	55	5.09	51.75	94%
5	I-66	N GLEBE RD	VA-267	4.29	55	6.93	45.25	82%
6	DULLES ACCESS RD (VA-267)	I-66	CAPITAL BELTWAY	2.69	55	2.79	58.09	100%
7	DULLES ACCESS RD (VA-267)	CAPITAL BELTWAY	LEESBURG PIKE	2.04	55	2.13	57.65	100%
8	DULLES ACCESS RD (VA-267)	LEESBURG PIKE	BEULAH RD	2.58	55	2.62	59.55	100%
9	DULLES ACCESS RD (VA-267)	BEULAH RD	FAIRFAX COUNTY Pkwy	5.79	55	5.97	58.79	100%
10	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
11	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				27.74		44.18	40.81	

40 Washington D.C. to Ronald Reagan National - 16th St. & K St.

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	K ST NW	16TH ST NW	14TH ST NW	0.25	25	2.00	9.92	40%
2	14TH ST NW	K ST NW	CONSTITUTION AVE NW	0.72	25	5.55	8.40	34%
3	14TH ST NW	CONSTITUTION AVE NW	INDEPENDENCE AVE SW	0.31	25	1.58	18.98	76%
4	14th ST SW (US-1)	INDEPENDENCE AVE SW	I-395	0.80	25	1.40	35.50	100%
5	14th St. Bridge (I-395)	I-395	GW MEM. Pkwy	0.68	55	1.98	31.62	57%
6	GW MEM. Pkwy	I-395	DCA Exit	1.03	50	1.84	38.54	77%
7	DCA - Exit Ramp	GW MEM. Pkwy	S SMITH BLVD	0.96	50	1.91	30.42	61%
8	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				4.97		16.64	25.71	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

41 White Marsh, MD to BWI Marshall

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	HONEYGO BLVD	CAMPBELL BLVD	MD-43	0.45	25	2.01	13.76	55%
2	Whitemarsh Blvd (MD-43)	HONEYGO BLVD	I-95	0.62	25	0.81	46.26	100%
3	I-95	MD-43	I-695	2.90	55	2.68	65.05	100%
4	I-95	I-695	HARBOR TUNNEL THWY	2.93	55	2.78	63.46	100%
5	I-95	HARBOR TUNNEL THWY	TOLL PLAZA	4.82	55	5.00	57.98	100%
6	I-95	TOLL PLAZA	MD-295	4.13	55	4.45	55.76	100%
7	BW Pkwy (MD 295)	I-95	I-695	3.89	50	3.85	60.57	100%
8	BW Pkwy (MD 295)	I-695	I-195	2.41	55	2.61	55.70	100%
9	I-195	MD-295-Ramp	I-195 - Merge	0.18	55	0.19	56.67	100%
10	I-195	I-195 - Merge	AIRPORT LOOP	0.71	55	0.81	53.60	97%
11	Airport Loop	AIRPORT LOOP	Terminal	1.15	15	2.49	27.90	100%
Subtotal				24.21		27.68	50.61	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

42 Woodbridge, VA to Dulles International

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	JEFFERSON DAVIS HWY	PRINCE WILLIAM Pkwy	GORDON BLVD	1.17	55	4.40	16.15	29%
2	GORDON BLVD	JEFFERSON DAVIS HWY	I-95	0.72	45	1.05	42.48	94%
3	GORDON BLVD	I-95	FAIRFAX COUNTY Pkwy	10.20	50	15.13	40.52	81%
4	FAIRFAX COUNTY Pkwy	OX RD	LEE HWY	4.92	50	7.93	38.93	78%
5	FAIRFAX COUNTY Pkwy	LEE HWY	I-66	1.25	50	1.29	58.40	100%
6	FAIRFAX COUNTY Pkwy	I-66	LEE JACKSON MEM. HWY	1.61	50	2.39	42.33	85%
7	FAIRFAX COUNTY Pkwy	LEE JACKSON MEM. HWY	DULLES ACCESS RD	6.43	50	12.29	31.45	63%
8	DULLES ACCESS RD	FAIRFAX COUNTY Pkwy	DULLES ACCESS RD Ramp	1.08	55	1.24	52.26	95%
9	DULLES ACCESS RD (VA-267)	FAIRFAX COUNTY Pkwy	SULLY RD	2.67	55	2.75	58.40	100%
10	DULLES ACCESS RD (VA-267)	SULLY RD	Terminal	1.35	25	2.71	30.65	100%
Subtotal				31.40		51.20	41.16	

**Washington-Baltimore Air System Planning Region
2011 Airport Ground Access Travel Time Survey
Travel Time Summary by Route Segment - PM (3:30 PM - 7:00 PM)**

43 Woodbridge, VA to Ronald Reagan National

No.	Facility	From	To	Distance (Miles)	Speed Limit (MPH)	Elapsed Time	Average Speed	Percent of Speed Limit
1	JEFFERSON DAVIS HWY	PRINCE WILLIAM Pkwy	GORDON BLVD	1.17	55	4.40	16.15	29%
2	JEFFERSON DAVIS HWY	GORDON BLVD	I-95	1.05	55	2.02	31.49	57%
3	I-95 (North)	RICHMOND HWY	LORTON RD	2.36	55	2.01	70.49	100%
4	I-95 (North)	LORTON RD	FAIRFAX COUNTY Pkwy	3.02	55	2.70	67.29	100%
5	I-95 (North)	FAIRFAX COUNTY Pkwy	CAPITAL BELTWAY	3.64	55	3.40	64.24	100%
6	I-395	CAPITAL BELTWAY	EDSALL RD	1.01	55	1.11	54.64	99%
7	I-395	EDSALL RD	DUKE ST	1.66	55	1.64	61.00	100%
8	I-395	DUKE ST	KING ST	2.57	55	2.62	58.97	100%
9	I-395	KING ST	S GLEBE RD	1.34	55	1.38	58.39	100%
10	I-395	S GLEBE RD	ARMY NAVY DR	1.96	55	3.29	36.27	66%
11	S HAYES ST	ARMY NAVY DR	15TH ST S	0.31	25	0.64	29.19	100%
12	15TH ST S	S HAYES ST	JEFFERSON DAVIS HWY	0.45	25	2.16	12.60	50%
13	JEFFERSON DAVIS HWY	15TH ST S	VA-233	0.51	35	3.98	8.53	24%
14	VA-233	JEFFERSON DAVIS HWY	S SMITH BLVD	0.58	25	1.85	24.89	100%
15	S SMITH BLVD	VA-233	Terminal Entance	0.09	15	1.54	22.87	100%
16	DCA - Terminal Loop	S SMITH BLVD	Terminal	0.22	15	0.39	32.29	100%
Subtotal				21.95		35.12	40.58	