

WASHINGTON-BALTIMORE REGIONAL AIR PASSENGER SURVEY – 2023

Geographic Findings

MAY 2025



National Capital Region
Transportation Planning Board

2023 WASHINGTON-BALTIMORE REGIONAL AIR PASSENGER SURVEY GEOGRAPHIC FINDINGS

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

May 2025

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EXECUTIVE SUMMARY

In October 2023, the Metropolitan Washington Council of Governments (COG) conducted a regional Air Passenger Survey (APS) at the three major commercial airports in the Washington-Baltimore Region: Baltimore/Washington International Thurgood Marshall Airport (BWI), Ronald Reagan Washington National Airport (DCA), and Washington Dulles International Airport (IAD). The APS was jointly funded by the Metropolitan Washington Airports Authority (MWAA) and the Maryland Aviation Administration (MAA) of the Maryland Department of Transportation (MDOT). Field staff collected survey responses (including partial responses) from 18,310 out of a total of 54,265 enplaning passengers on 486 randomly selected flights (417 domestic and 69 international), an overall response rate of 18 percent based on the revenue passenger response rate. Out of 18,310 responses, survey responses with partial responses and missing IDs were filtered out, yielding 9,599 valid responses used for survey analysis, thereby having an intercept passenger response rate of 52 percent. The survey questionnaires asked passengers to provide information about their upcoming flight, their trip to the airport, their choice of airport, their spending behavior and their demographic characteristics. The 2023 APS was the fifteenth in a series of regional air passenger surveys conducted since 1981. Prior surveys were conducted in 1981/82, 1987, 1992, 1998, 2000, 2002, and every two years since 2005 except for 2021, due to the COVID-19 pandemic. Data from the air passenger surveys provide the basis for analysis of major changes in airport use in the region. These surveys are an essential component of the air systems planning and master planning processes in the region and provide information necessary to account for airport ground access in the region's travel demand model.

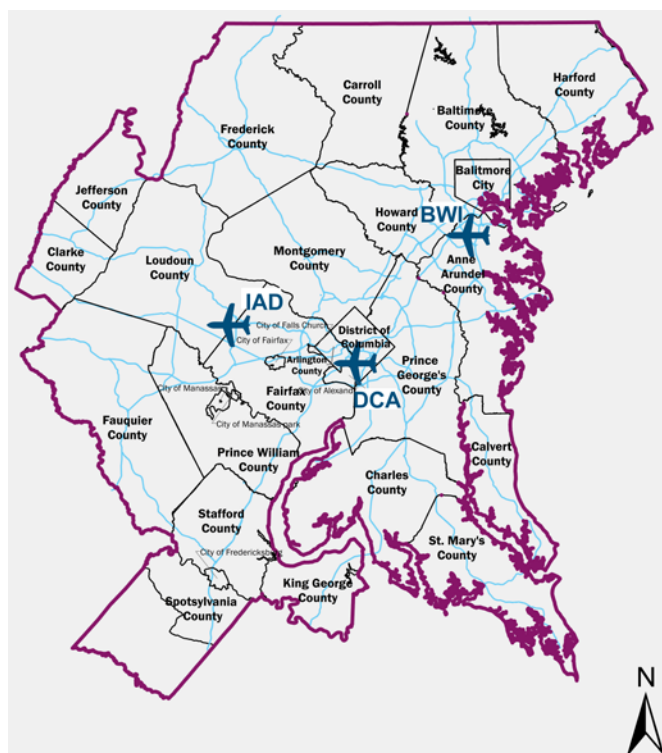


Figure 1: Washington-Baltimore Air System Planning Region

The Washington/Baltimore Air System Planning Region shown in Figure 1 stretches from Harford County, Maryland, on the Susquehanna River to the north, to Spotsylvania County, Virginia, to the south, and from the Chesapeake Bay in the east to the foothills of the Appalachian Mountains to the west. This air system planning region consists of 29 jurisdictions, 161 Aviation Analysis Zones (AAZs), and 2,604 Transportation Analysis Zones.

This report summarizes the findings regarding patterns of airport use, trip purpose, origin activity, mode of access, and household income. The report analyzes these data based on their geographic distribution.

DATA COLLECTION SUMMARY

Tables 1 and 2 contain key information on the data collected during the survey period. Table 1 provides the total number of enplaning passengers by enplanement type (local originations and connected from another flight) at each airport and in the region. Table 2 shows the distribution of passenger trip origins showing the proportion of passengers who begin their trips from within the air systems planning region, or internal trips, versus those who started their trips from outside of the region, or external trips.

Table 1: Trip Originations by Type and Airport (000's)

Enplanement Type		BWI	DCA	IAD	REGION
Local originations	N	9,679	11,062	9,447	30,189
	%	74%	87%	76%	79%
Connected from another flight	N	3,420	1,673	2,960	8,052
	%	26%	13%	24%	21%
Total Enplanement	N	13,099	12,735	12,407	38,241
	%	100%	100%	100%	100%

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note: Totals may not add up to 100% due to rounding.

Table 2: Passenger Origin Distribution (000's)

Geocoding		BWI	DCA	IAD	REGION
Within Air System Planning Region (Internal)	N	10,808	12,271	10,771	33,850
	%	83%	96%	87%	89%
Outside Air System Planning Region (External)	N	2,291	465	1,636	4,392
	%	17%	4%	13%	11%
TOTAL	N	13,099	12,735	12,407	38,241
	%	100%	100%	100%	100%

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note: Totals may not add up to 100% due to rounding.

AIRPORT USE (TABLES 4, 5, 6)

- For the purposes of this survey, an air passenger is defined as any individual who boarded a flight (i.e., *enplaned*) at one of the three major commercial airports (BWI, DCA, IAD) in the Washington-Baltimore Air System Planning Region. This includes both *originating passengers*—those starting their trip at the airport—and *connecting passengers*—those transferring from another flight. Only enplaned passengers are included in the total air passenger count.
- In 2023, approximately 30.2 million total air passengers traveled to the region’s three major commercial airports (BWI, DCA, IAD) from locations within the Washington-Baltimore Air System Planning Region by ground transportation, a slight increase from 30.1 million passenger originations in 2019.
- The total number of air passengers in the region, including connecting passengers, increased by 1 percent between 2019 and 2023, from 37.8 million to 38.2 million.
- In the region, the share of passengers originating locally using ground transportation decreased from 80 percent in 2019 to 79 percent in 2023. By airport, BWI decreased from 77 to 74 percent, DCA decreased from 91 to 87 percent, and IAD increased from 71 to 76 percent.
- When compared with 2019, the percentage of passengers originating their trip to the airports in 2023 from the District of Columbia increased from 18 percent to 21 percent, while the Baltimore Metro Area increased from 20 percent to 21 percent, the Maryland Suburbs of DC decreased from 19 percent to 15 percent, and the Virginia Suburbs of DC decreased from 34 percent to 30 percent. External trips originating outside of the air system region increased from 7 percent to 11 percent.

AIRPORT PREFERENCE (TABLE 10)

- Across the Washington-Baltimore Air System Planning Region, 77 percent of passengers were satisfied with their airport choice. The highest share of satisfied passengers was from the Baltimore Metro Area (83 percent), followed by the Virginia Suburbs of DC at 75 percent, and the Maryland Suburbs of DC and the District of Columbia both at 73 percent.

TRIP PURPOSE

- The share of passengers traveling for business in the region has steadily declined while non-business travel has increased. The percentage of locally originating air passengers reporting that they were traveling for non-business-related reasons increased from 65 percent in 2019 to 70 percent in 2023, while business-related trips decreased from 35 percent to 30 percent (2023 General Findings Report).
- Vacation travel increased to 36 percent (up from 28 percent in 2019) and school-related travel decreased slightly from 7 to 5 percent. Personal or family-related travel decreased slightly from 29 to 28 percent (2023 General Findings Report).
- Business travel remained concentrated in specific areas, particularly along major highway corridors and business centers such as the Dulles Corridor and I-270, and business/retail centers such as Tysons, Baltimore City, and National Harbor.

TRIP ORIGIN

- The majority of air passengers started their ground trip to the airport from a private residence. In 2023, trip origins from a private residence comprised 61 percent of total trip originations. Hotels and motels were the second most common trip origin, accounting for 31 percent in 2023, while only 4 percent of passengers departed directly from a place of business (2023 General Findings Report).
- Trips from hotels, motels, and places of business were more concentrated near airports, particularly in areas with strong public transportation connections, such as downtown Washington, National Harbor, City of Alexandria, Arlington County, and major highway corridors near IAD and BWI.

MODE OF ACCESS

- The region's most common mode of access to the airports continued to be the automobile (private, rental, taxicab, and Transportation Network Companies (TNCs) such as Uber/Lyft), accounting for 86 percent of all local originations, up from 84 percent in 2019. TNC usage increased by 2 percentage points from 24 to 26 percent since 2019, while taxi usage decreased during the same period from 9 to 5 percent (2023 General Findings Report).
- For the region in 2023, 45 percent of passengers traveled to the airport by private car, followed by 26 percent by TNC, 10 percent by rental car, 8 percent by transit, 5 percent by taxi, 2 percent by hotel/motel courtesy bus, 2 percent by airport bus/van/limo, and 3 percent by other modes (2023 General Findings Report).
- Taxicab usage was most concentrated in the District of Columbia and downtown Baltimore, whereas TNC usage was more widely distributed across the Washington and Baltimore cores and areas surrounding IAD.
- Public transit access was concentrated in urban cores near Metrorail stations in DC, Baltimore, and parts of suburban Virginia.
- Hotel/motel courtesy buses, airport buses, vans, and limousines had low usage throughout the region, except areas immediately surrounding the airports and parts of Baltimore City.

DEPARTURES BY TIME OF DAY

- Departure patterns varied by airport, reflecting their different roles in the region. BWI peaked in the early afternoon, DCA saw a gradual buildup with peaks in the late afternoon, and IAD experienced multiple peaks throughout the day reflecting its long-haul international and connecting flights.

BALTIMORE AND WASHINGTON SUBREGIONAL CORES (TABLES 15, 16, 17, 18)

- BWI handled 92 percent of passengers from the Baltimore Core, with minimal use of DCA and IAD, while the majority of travelers from the Washington Core used DCA (66 percent), followed by IAD (24 percent) and BWI (10 percent).
- Business travel was the trip purpose for 29 percent of passengers from the Baltimore Core and for 40 percent of passengers from the Washington Core.

- Both the Washington Core and the Baltimore Core had significant percentages of passengers traveling to the airport from a hotel or motel: 42 percent from the Baltimore Core and 44 from the Washington Core.
- In the Baltimore Core, 10 percent of passengers used taxicabs and 43 percent used TNC, while in the Washington Core, 8 percent used taxicabs and 43 percent used TNC's.
- Usage of public transportation for locally originating air passengers within the Washington Core was 18 percent, nearly double the regional average of 8 percent and nearly 6 times higher than the 3 percent observed in the Baltimore Core.

FLIGHT DESTINATION BY REGION (TABLES 19, 20, 21)

- Destination regions in 2023 were re-defined to ensure a more even distribution of destinations for each region (refer to Table 19).
- Domestic travel accounted for 86 percent of all departing passengers in the region. DCA and BWI each comprised 38 percent of the share of passengers, while IAD accounted for 24 percent.
- International travel accounted for 14 percent of all departing passengers in the region. IAD dominated international travel, with 84 percent of the share of international passengers, while BWI and DCA accounted for 12 percent and 4 percent, respectively.
- The South, Midwest, and Florida regions combined received 43 percent of all departing passengers. Florida, designated as its own region, contributed 12 percent of the departing passenger volume.
- BWI and DCA together handled 92 percent of flights to Florida, DCA handled 54 percent of flights to the Mid-Atlantic region, and IAD handled 62 percent of flights to the West region.
- Of all international flights, 44 percent of international passengers were bound for Europe, with IAD accounting for 94 percent of those flights. All flights to Asia from the region departed exclusively from IAD.

I. INTRODUCTION

This report presents the geographic and temporal findings from the 2023 Washington-Baltimore Regional Air Passenger Survey, conducted concurrently at Ronald Reagan Washington National Airport (DCA), Washington Dulles International Airport (IAD), and Baltimore/Washington International Thurgood Marshall Airport (BWI). This report is the second of two technical reports resulting from the survey. The first report, the General Findings Report of the 2023 Washington-Baltimore Regional Air Passenger Survey, summarizes findings regarding patterns of airport enplanement share, airport choice, airport preference, air trip purpose, ground trip origin, airport mode of access, air traveler characteristics, and at-airport use of facilities. The Geographic Findings Report summarizes findings regarding patterns of airport use, trip purpose, origin activity, mode of access, and household income, and analyzes these data based on their geographic distribution.

The 2023 Regional Air Passenger Survey was conducted by the National Capital Region Transportation Planning Board (TPB) of the Metropolitan Washington Council of Governments (COG) as part of its Continuous Airport Systems Planning (CASP) program and was jointly funded by the Maryland Aviation Administration (MAA) and the Metropolitan Washington Airports Authority (MWAA). The project was guided by the Aviation Technical Subcommittee of the TPB Technical Committee, composed of a broad range of federal, state, local, and private aviation interests. One of the goals of this program is to continue the rational development of aviation facilities and services at the three major commercial airports serving the Washington-Baltimore region. Figure 1 presents the jurisdictions that comprise the Washington/Baltimore Air System Planning Region and its three major commercial airports.¹

The 2023 Regional Air Passenger Survey took place during the two-week period from Sunday, October 8, 2023 to Saturday, October 21, 2023. Additional surveying occurred between October 25 and October 31 for flights during the two-week period that needed to be resurveyed. The field staff collected survey responses (including partial responses) from 18,310 out of a total of 54,265 enplaning passengers on 486 randomly selected flights (417 domestic and 69 international), yielding an overall response rate of 18 percent based on the revenue passenger response rate. Out of 18,310 responses, survey responses with partial responses and missing IDs were filtered out, yielding 9,599 valid responses used for survey analysis, thereby having an intercept passenger response rate of 52 percent.

The survey sample included flights from 27 airlines, of which 77 flights were international carriers and 486 flights were domestic carriers. The sample flights were grouped into 137 clusters based on their destination. Some sampled flights were not surveyed due to schedule changes, cancelled flights, and other unforeseen circumstances. The survey instrument contained questions regarding the respondent's airline trip, trip to the airport, choice of airport, spending behavior, and several demographic questions, such as household size, household income, and respondent's age. Appendix B contains the 2023 survey questionnaires for the three airports (BWI, DCA, IAD). There is slight variation among the questionnaires administered at each of the airports due to facility-specific considerations at each airport. Appendix A provides a technical summary of the 2023 survey methodology and Appendix B includes the survey questionnaires.

¹ Although Figure 1 shows all of Spotsylvania County, VA, the Air System Planning Region only includes the northern portion of the county, and only that portion is shown on all other maps in this document.

A key objective of the air passenger survey program is to collect data on the travel characteristics of all air passengers using the three major commercial airports in the region. Notably, 57 percent of the passengers originating from these airports responding to the survey were not residents of the Washington-Baltimore Air System Planning Region. The geographic findings, therefore, do not necessarily reflect characteristics of persons living in a particular jurisdiction, but reflect characteristics of many persons coming from outside the region who are originating their ground trip to the airport within one of the jurisdictions in the Washington/Baltimore Air System Planning Region.

In preparing this Geographic Findings Report, some key data challenges were encountered which led to the suppression of data for some AAZs. Respondents were asked to provide their point of origin to the airport, allowing for each response to be assigned to a specific AAZ using X and Y coordinates, but many respondents did not provide this information. Consequently, only 38 percent (3,688 of 9,599) of all responses were usable in the final analysis, and this sample was reweighted to align with annual enplanement figures. A total of 48 AAZs with fewer than 8 valid responses were suppressed; these AAZs appear as a hash pattern in the maps. Due to small sample sizes, the information for suppressed AAZs should be interpreted with caution. Table 3 shows the number of suppressed AAZs by county-level jurisdiction in the Air System Planning Region.

Table 3: Count of Suppressed AAZ's by County-Level Jurisdiction

County	Suppressed AAZs
Baltimore City (MD)	8
Prince George's County (MD)	7
Montgomery County (MD)	6
Anne Arundel County (MD)	5
Baltimore County (MD)	5
Howard County (MD)	5
District of Columbia (DC)	3
City of Alexandria (VA)	1
Arlington County (VA)	1
Charles County (MD)	1
Clarke County (VA)	1
Harford County (MD)	1
Jefferson County (WV)	1
King George County (VA)	1
Prince William County (VA)	1
Spotsylvania County (VA)	1

Source: Metropolitan Washington Council of Governments

II. FINDINGS

This section summarizes the results of the 2023 Washington-Baltimore Regional Air Passenger Survey focusing on the geographic and temporal characteristics of originating passengers at the three major commercial airports in the Washington-Baltimore Region: Baltimore/Washington International Thurgood Marshall Airport (BWI), Ronald Reagan Washington National Airport (DCA), and Washington Dulles International Airport (IAD).

Within this report, the total number of enplanements for the region overall and for each airport are annualized numbers, based on the survey sample. This sample has been factored up to represent an estimate of annual enplanements and does not necessarily equate to the actual observed counts reported by the airports.

Since the survey was conducted in October, and not continuously throughout the calendar year, the survey data did not reflect any specific annual period. Rather, the survey as it was conducted represented a “snapshot” of passenger activity, taken during the fall travel period, which was intended to be representative of a “typical” period of air travel that is outside of the peak summer and holiday travel seasons.

The survey responses were expanded to represent annual passenger estimates by a three-step process. The survey responses obtained on each sampled flight were first factored up to the boarding count totals (revenue passengers only). This number was obtained from the gate attendant at the closing of each flight. Second, the factored survey responses were expanded to represent bi-weekly passenger totals. Finally, observed annual enplanement of regional air travel was obtained from MWA for DCA and IAD, and from MAA for BWI.

The survey results were aggregated by Aviation Analysis Zone (AAZ). These zones are composed of aggregations of smaller TPB Transportation Analysis Zones (TAZs) in the Washington and Baltimore metropolitan regions. AAZs are based on transportation geography, defined by jurisdictional boundaries, major highways, and barriers to travel, such as rivers. These are relatively fixed zones, not intended to be adjusted due to demographic changes, and thus provide a consistent geographic basis to measure changes over time. The AAZs for the Washington-Baltimore Air System Planning region are shown in Figure 2.

Figure 3 shows the Washington/Baltimore Air System Planning divided into regional districts. A regional district is defined as a sub-region within the Greater Washington Metropolitan Air System Planning Region. These include the Baltimore Metropolitan Area, the District of Columbia, the Maryland Suburbs of DC, and the Virginia Suburbs of DC.

There are 53 zones in the Baltimore Metropolitan Area, 20 zones in the District of Columbia, 41 zones in the Maryland Suburbs of DC, 39 zones in the Virginia Suburbs of DC, and 7 zones in the outlying areas. A full description of the AAZ system may be found in Appendix E. In addition, there are 7 zones that represent external areas, which are outside the Air System Planning Region.

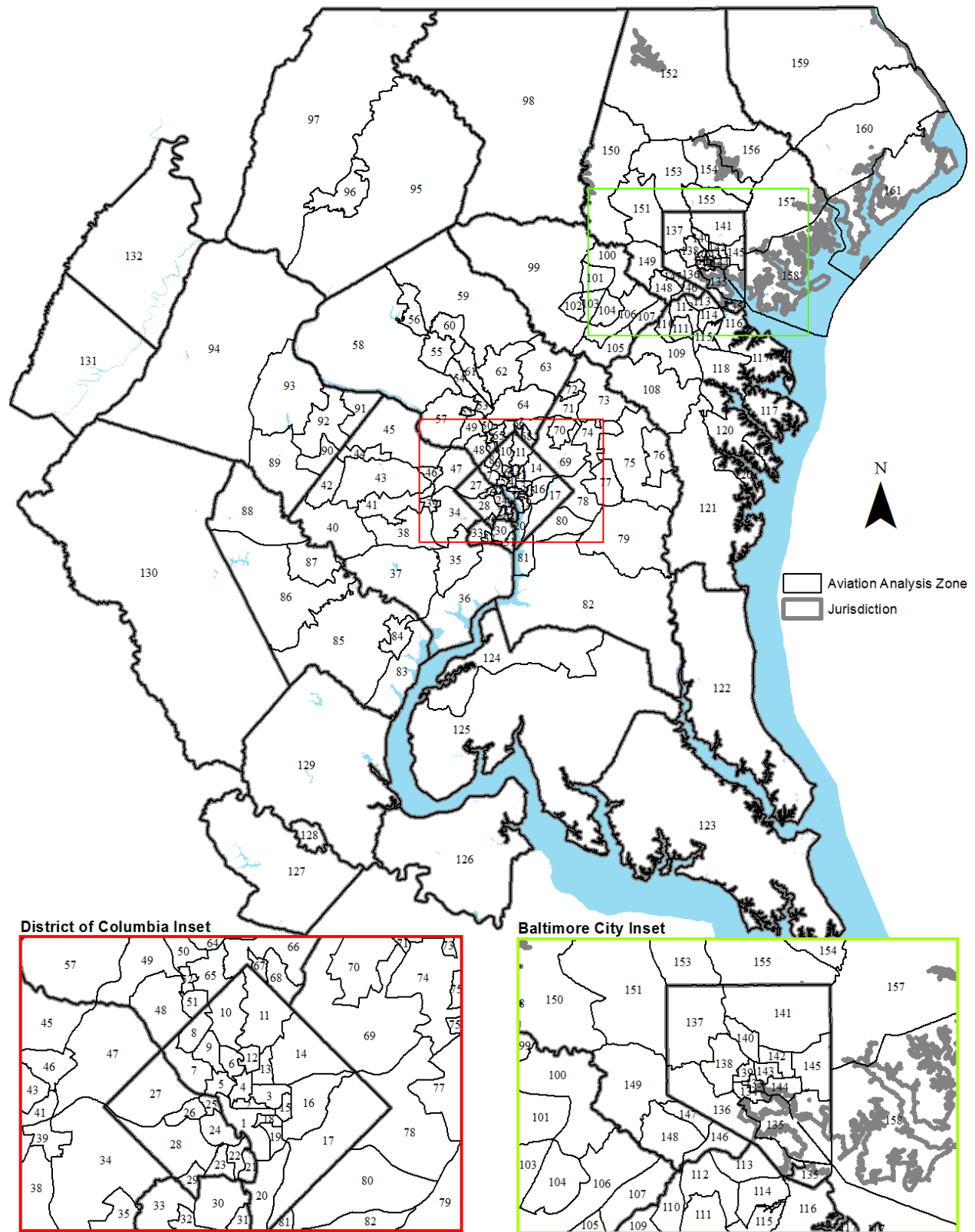


Figure 2: Aviation Analysis Zone System

Source: Metropolitan Washington Council of Governments

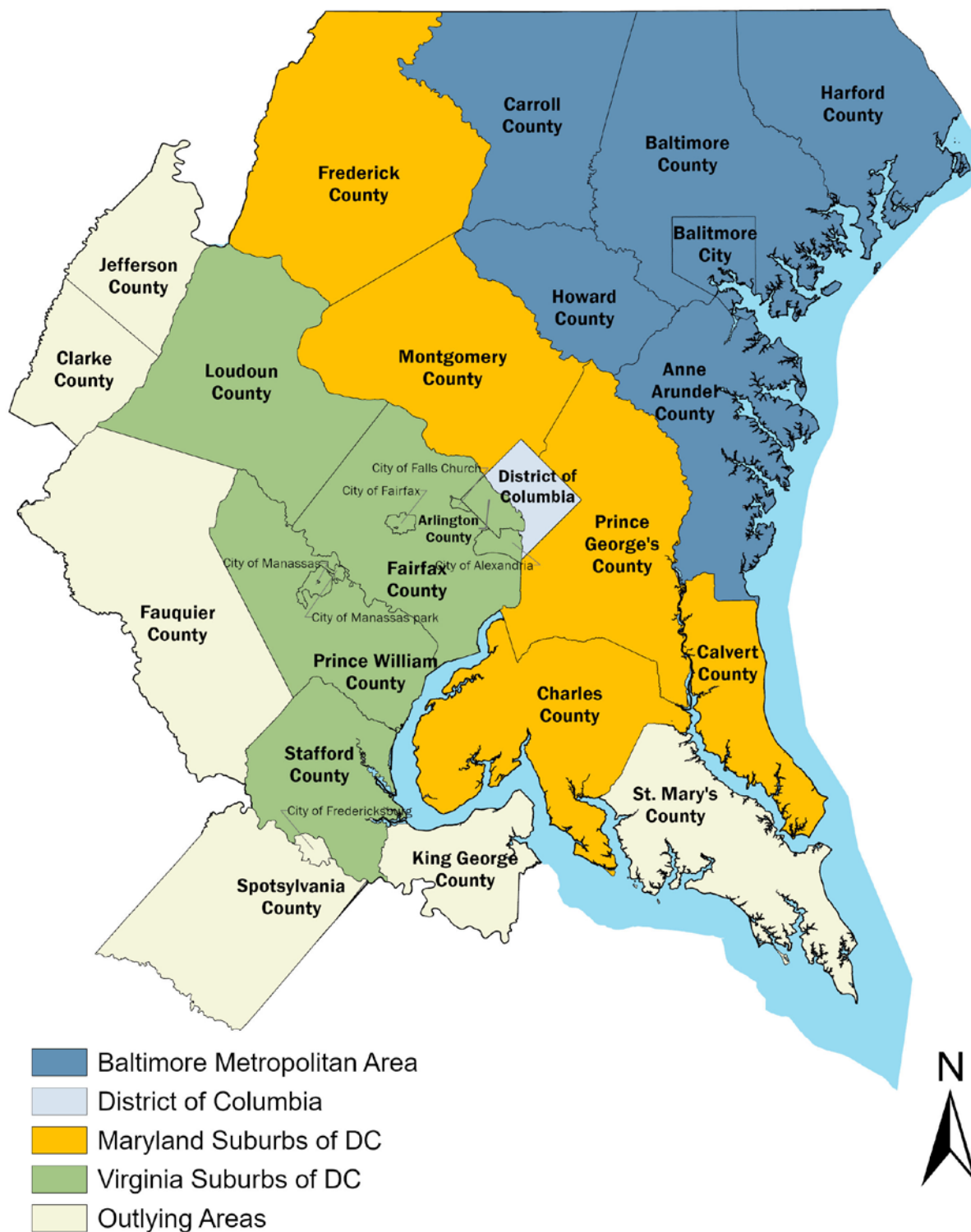


Figure 3: Washington/Baltimore Air System Planning Regional Districts

Geographic Patterns of Airport Use

Table 4 shows annual trip originations by airport and by region. Approximately 30.2 million air passengers originated from the Washington-Baltimore Air System Planning Region in 2023, a slight increase from 30.1 million passenger originations in 2019. When analyzed by airport, DCA had the highest number of local originations in 2023, with 11.1 million local originations, followed by BWI (9.7 million local originations) and IAD (9.4 million local originations). From 2017 to 2019, the share of passengers originating locally increased across all three airports. However, from 2019 to 2023, DCA and BWI experienced percentage point decreases of 4 percent and 3 percent, respectively, while IAD observed a five-percentage point increase.

For passengers connecting from another flight in 2023, BWI led with 3.4 million enplanements, followed by IAD with 3.0 million enplanements and DCA with 1.7 million enplanements. When examining trends from 2017-2023, IAD showed a steady decline, while BWI and DCA saw decreases from 2017 to 2019, followed by an increase from 2019 to 2023.

Table 5 shows air passenger originations grouped into internal (local originating air passenger trips within the Air System Planning Region) and external (local originating air passenger trips from areas outside the Air System Planning Region). In 2023, DCA had the lowest percentage of external passengers, with 4 percent, followed by IAD with 13 percent and BWI with 17 percent. All airports experienced a decline in internal trip originations from 2019 to 2023, resulting in an overall decrease in internal originations in the region from 93 percent to 89 percent.

Figure 4 illustrates the percent breakdown of annual internal originations by regional district in 2019 and 2023.

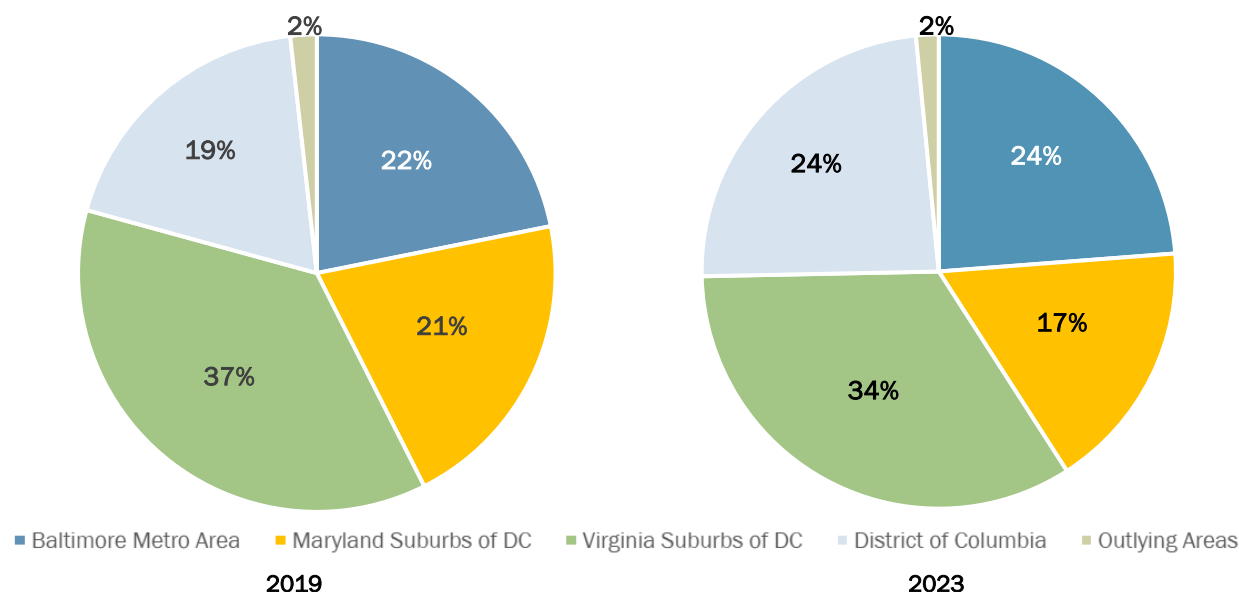


Figure 4: 2019 and 2023 Annual Internal Originations by Regional District

Source: Washington-Baltimore Regional Air Passenger Survey 2019 and 2023
Note: Totals may not add up to 100% due to rounding.

Table 4: Annual Trip Originations by Airport (000s)

Enplanement Type		BWI			DCA			IAD			REGION		
		2017	2019	2023	2017	2019	2023	2017	2019	2023	2017	2019	2023
Local originations (Came by ground transportation)	N	8,910	10,426	9,679	10,499	10,918	11,062	7,245	8,726	9,447	26,654	30,070	30,189
	%	67%	77%	74%	88%	91%	87%	64%	71%	76%	73%	80%	79%
Connected from another flight	N	4,305	3,116	3,420	1,458	1,031	1,673	4,062	3,603	2,960	9,825	7,750	8,052
	%	33%	23%	26%	12%	9%	13%	36%	29%	24%	27%	20%	21%
Total Enplanement	N	13,215	13,542	13,099	11,957	11,949	12,735	11,307	12,329	12,407	36,479	37,820	38,241
	%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2017, 2019, and 2023

Note: Totals may not add up to 100% due to rounding.

Table 5: Annual Internal / External Trip Originations by Airport (000s)

Enplanement Type		BWI		DCA		IAD		REGION	
		2019	2023	2019	2023	2019	2023	2019	2023
Within Air System Planning Region (Internal)	N	8,999	10,808	10,761	12,271	8,071	10,771	27,831	33,850
	%	86%	83%	99%	96%	92%	87%	93%	89%
Outside Air System Planning Region (External)	N	1,427	2,291	157	465	656	1,636	2,240	4,392
	%	14%	17%	1%	4%	8%	13%	7%	11%
TOTAL	N	10,426	13,099	10,918	12,735	8,727	12,407	30,071	38,241
	%	100%	100%	100%	100%	100%	100%	100%	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2019, and 2023

Note 1: Internal originating trips are local originating trips within the Washington/Baltimore Air System Planning Area. External originating trips are trips originating from PA, DE, WV (except for Jefferson County), NJ or external VA and MD

Note 2: Totals may not add up to 100% due to rounding.

The geographic distribution of the air passenger originations in the region in both 2019 and 2023 is illustrated in Table 6. The Virginia Suburbs of D.C. accounted for 30 percent of originating passengers in 2023, followed by the District of Columbia and the Baltimore Metro Area, each at 21 percent. The Maryland Suburbs of DC accounted for 15 percent of originating air passengers in 2023. These numbers did not change by a large margin compared to 2019. The Virginia Suburbs and the Maryland Suburbs of DC. each fell by 4 percentage points, the District of Columbia increased by 3 percentage points and the Baltimore Metro Area increased by 1 percentage point.

Table 6: Originating Air Passengers by Jurisdictions in the Region 2019-2023 (in 000's)

ORIGIN COUNTY	REGION				
	2019	2023	% in 2019	% in 2023	Change in %
Anne Arundel County	2,049	2,669	6.8%	7.0%	0.2%
Baltimore City	1,473	2,390	4.9%	6.3%	1.4%
Baltimore County	935	1,291	3.1%	3.4%	0.3%
Carroll County	335	247	1.1%	0.6%	-0.5%
Harford County	313	507	1.0%	1.3%	0.3%
Howard County	975	945	3.2%	2.5%	-0.8%
SUBTOTAL: BALTIMORE METRO AREA	6,080	8,049	20.2%	21.1%	0.8%
Calvert County	113	129	0.4%	0.3%	0.0%
Charles County	296	249	1.0%	0.7%	-0.3%
Frederick County	458	506	1.5%	1.3%	-0.2%
Montgomery County	3,199	3,186	10.6%	8.3%	-2.3%
Prince George's County	1,701	1,725	5.7%	4.5%	-1.1%
SUBTOTAL: MARYLAND SUBURBS OF DC	5,767	5,794	19.2%	15.2%	-4.0%
Alexandria City	977	1,160	3.2%	3.0%	-0.2%
Arlington County	2,917	2,184	9.7%	5.7%	-4.0%
Fairfax County	4,480	4,909	14.9%	12.8%	-2.1%
Loudoun County	931	1,884	3.1%	4.9%	1.8%
Prince William County	711	1,153	2.4%	3.0%	0.7%
Stafford County	195	136	0.6%	0.4%	-0.3%
SUBTOTAL: VIRGINIA SUBURBS OF DC	10,211	11,427	34.0%	29.9%	-4.1%
District of Columbia	5,277	8,045	17.5%	21.0%	3.5%
Outlying Areas	496	522	1.6%	1.4%	-0.3%
Externals	2,240	4,392	7.4%	11.5%	4.0%
TOTAL	30,071	38,229	100.0%	100.0%	0.0%

Source: 2019 and 2023 Washington-Baltimore Regional Air Passenger Survey

Note 1: Outlying Areas include Clarke, Fauquier, King George, and Spotsylvania Counties in VA, the City of Fredericksburg VA, St. Mary's County in MD, and Jefferson County, WV. Externals include jurisdictions outside the air system planning region.

Note 2: Totals may not add up to 100% due to rounding.

Figure 5 illustrates the distribution of 2023 passenger origins by residents and non-residents in the Air System Planning Region. As a region, 57 percent of departing passengers are non-residents, but the breakdown of resident and non-resident passenger origins varies across the region. In general, Baltimore City, the District of Columbia, Arlington County, and the City of Alexandria showed a larger share of non-resident passenger origins than the surrounding counties, although some outer counties in Virginia and Maryland had a large percentage of non-resident passenger origins as well.

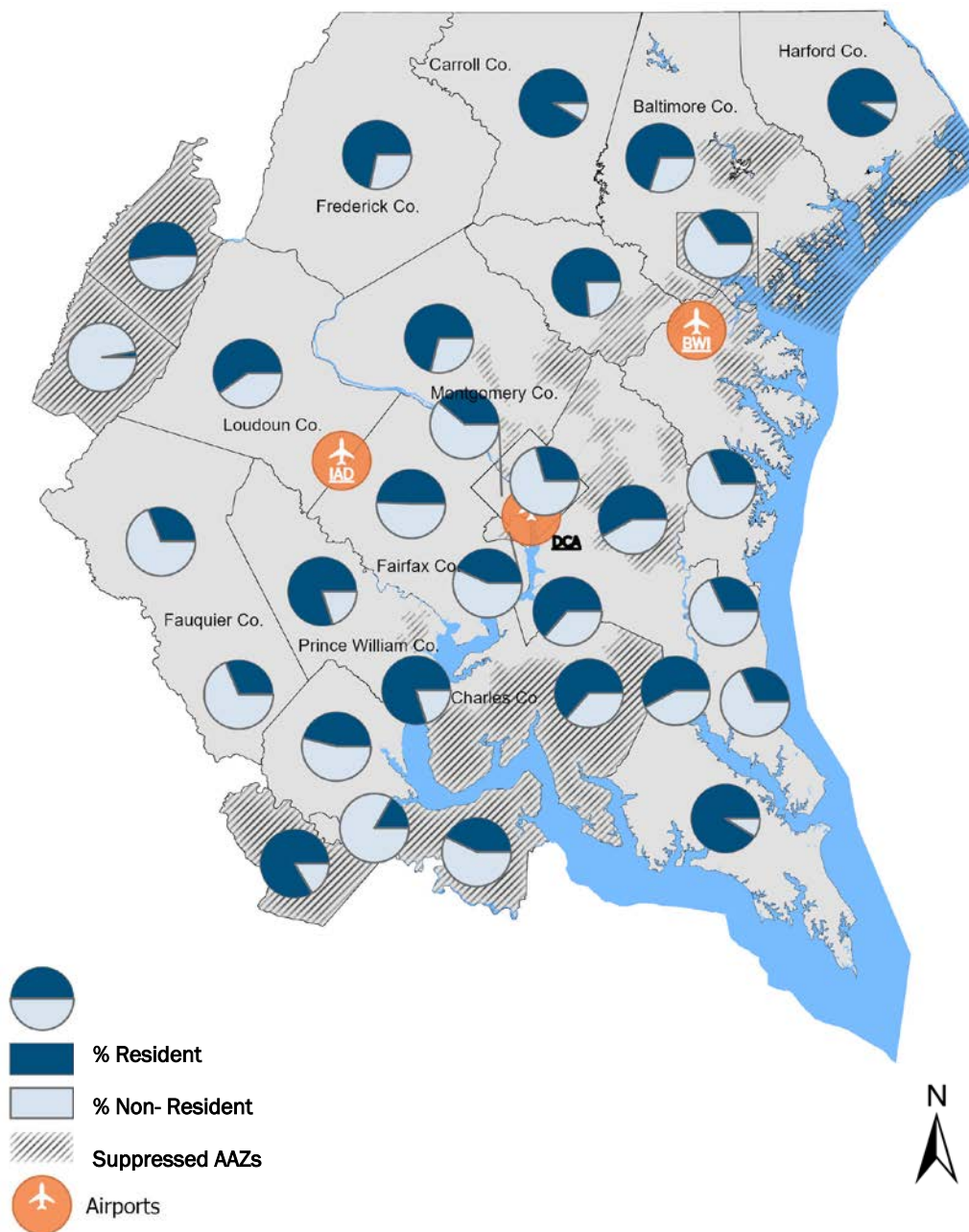


Figure 5: Share of Resident and Non-Resident Departing Passengers by Jurisdiction

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Figure 6 presents a comparison of originating air passengers by regional district and airport, analyzing results from 2019 and 2023. Overall, the distribution of passengers across regional districts remained relatively consistent between the two years, with some shifts among airports. In the Baltimore Metropolitan Area, the share of passengers using BWI decreased by 4 percentage points, while IAD gained by the same margin. In the Maryland Suburbs of DC, the share of DCA passengers declined by 9 percentage points, with increases of 4 percentage points for BWI and 5 percentage points for IAD. In the Virginia Suburbs of DC, the share of IAD passengers increased by 6 percentage points with a similar decrease for DCA passengers. The District of Columbia saw smaller changes, with BWI decreasing by 2 percentage points, while DCA and IAD increased by 2 and 1 percentage points, respectively.

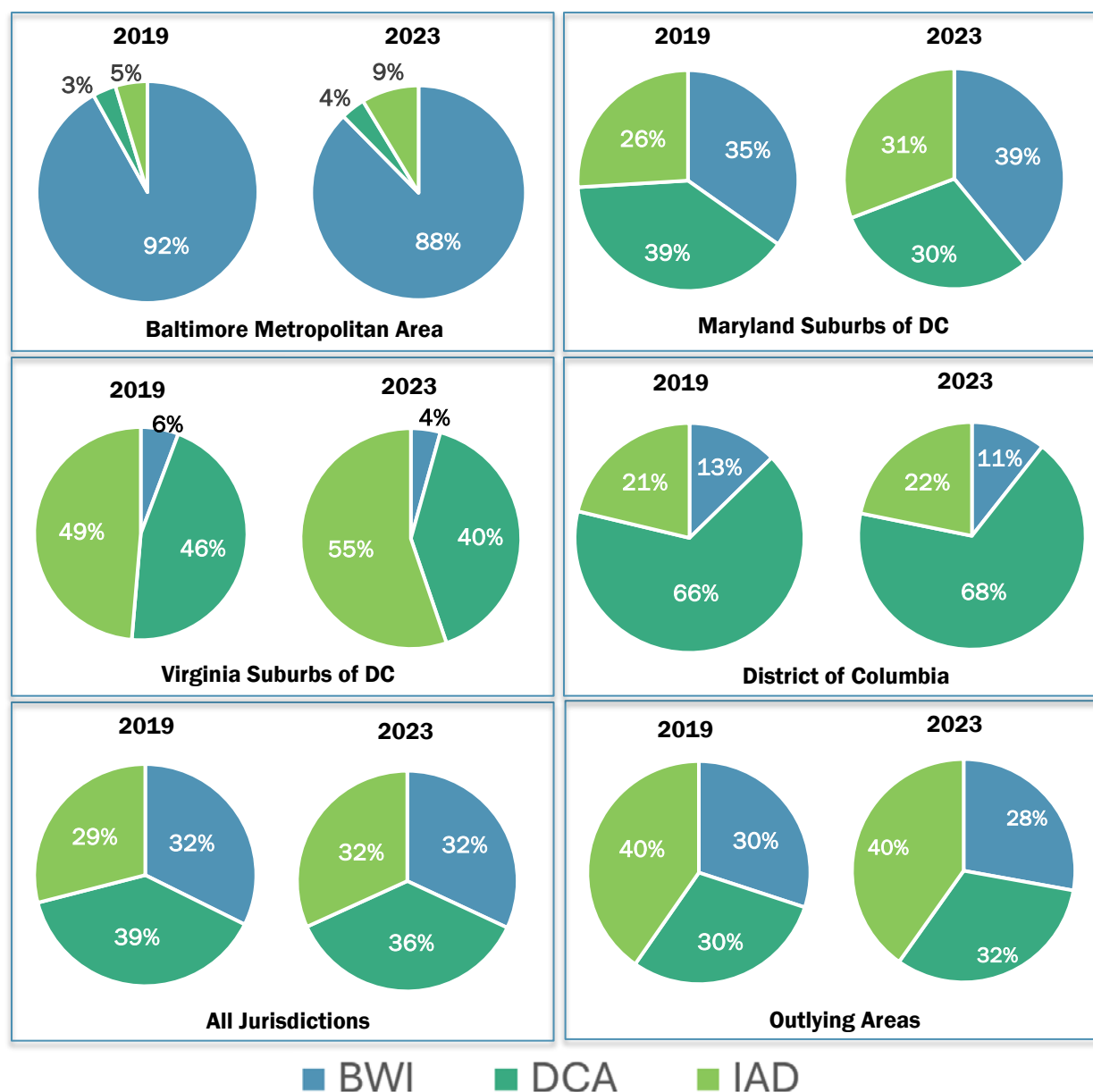


Figure 6: Originating Air Passengers by Regional District and Airport, 2019 and 2023

Source: 2019 and 2023 Washington-Baltimore Regional Air Passenger Surveys

Note: Totals may not add up to 100% due to rounding.

The service areas for each airport, defined as AAZs in which the largest share of all originating passengers use a specific airport, are illustrated in Figure 7.²

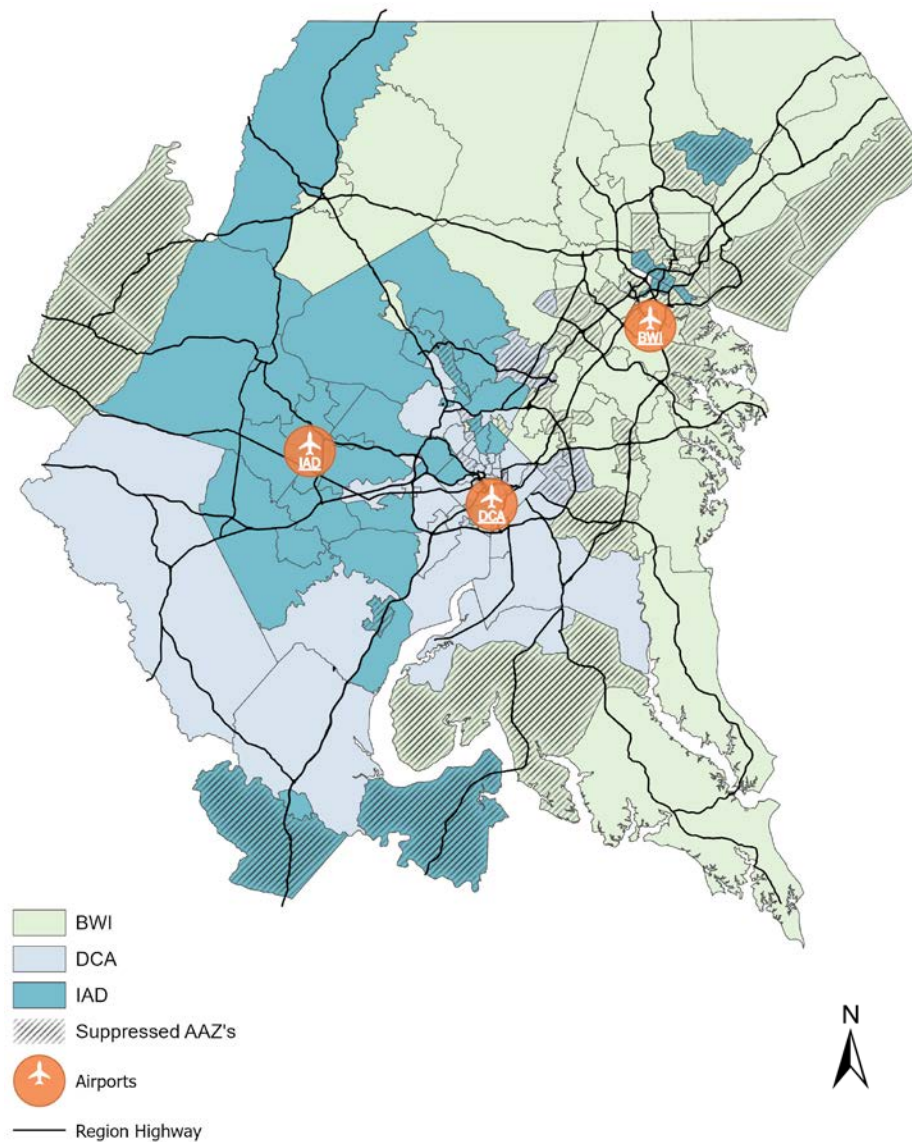


Figure 7: Airport Service Area by AAZ

Source: Washington-Baltimore Regional Air Passenger Survey, 2023

In 2023, BWI dominated the northern and northeastern portions of the Air System Planning Region, particularly the Baltimore Metro Area and nearby Maryland Suburbs, as shown in Figure 7 and Figure 8. Meanwhile, DCA, centrally located near the District of Columbia and closer Maryland Suburbs, served as the primary airport for densely populated urban areas and adjacent suburban communities, as illustrated in Figure 7 and Figure 9. IAD attracted a significant share of passengers from the Virginia Suburbs and outlying areas west of Washington, DC, especially Loudoun and Fairfax Counties (Figure 7 and Figure 10). According to the 2023 Air Passenger Survey General Findings Report, 46 percent of departing passengers cited proximity as their primary reason for choosing an airport.

² The highest proportion of originations from an airport would determine the service area for each AAZ. For example, if an AAZ had 33% of its originations headed to BWI, 33% to DCA, and 34% to IAD, it would be placed in the IAD service area.

BALTIMORE/WASHINGTON INTERNATIONAL THURGOOD MARSHALL AIRPORT (BWI)

Over half of BWI's passengers in 2023 originated from the Baltimore Metro Region, with Anne Arundel County and Baltimore City each contributing 19 percent and 17 percent of travelers, respectively. Seventeen percent of the originations to BWI were from the Maryland Suburbs of DC, with Montgomery County contributing 8 percent and Prince George's County contributing 6 percent. By contrast, only 4 percent of BWI's passengers originated from the Virginia Suburbs of DC, and 7 percent from the District of Columbia. Since 2019, the share of originations remained largely consistent; the share of originations from the Virginia and Maryland Suburbs of DC each decreased by 2 percentage points. Table 7 presents the full distribution of air passenger originations for BWI for 2019 and 2023.

Table 7. Distribution of Air Passenger Originations for BWI 2019 - 2023

ORIGIN COUNTY	BWI				
	2019	2023	% in 2019	% in 2023	Change in %
Anne Arundel County	1,909	2,425	18.3%	18.5%	0.2%
Baltimore City	1,402	2,191	13.4%	16.7%	3.3%
Baltimore County	883	1,009	8.5%	7.7%	-0.8%
Carroll County	304	192	2.9%	1.5%	-1.4%
Harford County	292	483	2.8%	3.7%	0.9%
Howard County	798	752	7.7%	5.7%	-1.9%
SUBTOTAL: BALTIMORE METRO AREA	5,588	7,053	53.6%	53.8%	0.2%
Calvert County	72	78	0.7%	0.6%	-0.1%
Charles County	173	77	1.7%	0.6%	-1.1%
Frederick County	240	307	2.3%	2.3%	0.0%
Montgomery County	969	993	9.3%	7.6%	-1.7%
Prince George's County	552	807	5.3%	6.2%	0.9%
SUBTOTAL: MARYLAND SUBURBS OF DC	2,006	2,262	19.2%	17.3%	-2.0%
Alexandria City	80	81	0.8%	0.6%	-0.1%
Arlington County	132	211	1.3%	1.6%	0.3%
Fairfax County	265	91	2.5%	0.7%	-1.8%
Loudoun County	37	110	0.4%	0.8%	0.5%
Prince William County	57	1	0.5%	0.0%	-0.5%
Stafford County	14	1	0.1%	0.0%	-0.1%
SUBTOTAL: VIRGINIA SUBURBS OF DC	585	494	5.6%	3.8%	-1.8%
District of Columbia	670	854	6.4%	6.5%	0.1%
Outlying Areas	149	145	1.4%	1.1%	-0.3%
Externals	1,427	2,291	13.7%	17.5%	3.8%
TOTAL	10,425	13,099	100.0%	100.0%	0.0%

Source: Washington-Baltimore Regional Air Passenger Survey, 2019 and 2023

Note 1: Outlying Areas include Clarke, Fauquier, King George, and Spotsylvania Counties in VA, the City of Fredericksburg, VA, St. Mary's County in MD, and Jefferson County, WV. Externals include jurisdictions outside the air system planning region.

Note 2: Totals may not add up to 100% due to rounding.

BWI's service area is concentrated in the northern and northeastern parts of the Air System Planning Region, extending to the District of Columbia and Prince George's County border. Figure 8 shows the percentage distribution of air passenger originations by AAZ for BWI in 2023. Please note that the legend ranges are right aligned and apply to maps shown in Figures 8 through 18.

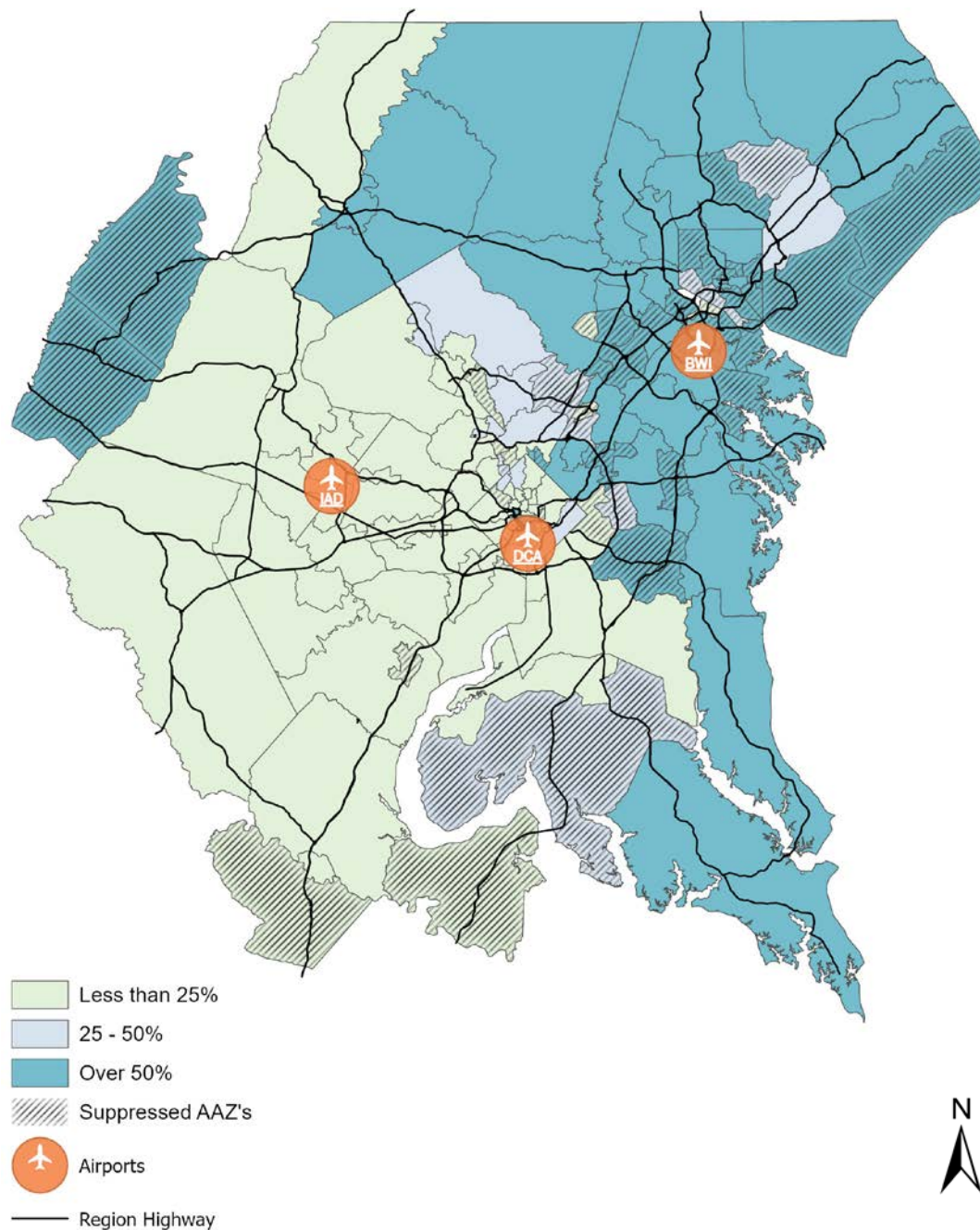


Figure 8: Percentage of Passengers Using BWI

Source: Washington-Baltimore Regional Air Passenger Survey 2023

RONALD REAGAN WASHINGTON NATIONAL AIRPORT (DCA)

The largest share of passenger originations at DCA were from the District of Columbia with 43 percent (up from 32 percent in 2019), followed by Virginia Suburbs of DC with 36 percent (down from 43 percent), with 25 percent originating specifically from Arlington and Fairfax Counties. Only 2 percent originated from the Baltimore Metro Area and 14 percent from the Maryland Suburbs of DC (down from 21 percent). Table 8 presents the full distribution of air passenger originations for DCA in 2023.

Table 8. Distribution of Air Passenger Originations for DCA 2019 - 2023

ORIGIN COUNTY	DCA				
	2019	2023	% in 2019	% in 2023	Change in %
Anne Arundel County	56	135	0.5%	1.1%	0.5%
Baltimore City	28	11	0.3%	0.1%	-0.2%
Baltimore County	16	105	0.1%	0.8%	0.7%
Carroll County	6	0	0.1%	0.0%	-0.1%
Harford County	1	2	0.0%	0.0%	0.0%
Howard County	100	46	0.9%	0.4%	-0.6%
SUBTOTAL: BALTIMORE METRO AREA	207	299	1.9%	2.3%	0.4%
Calvert County	30	26	0.3%	0.2%	-0.1%
Charles County	103	118	0.9%	0.9%	0.0%
Frederick County	36	20	0.3%	0.2%	-0.2%
Montgomery County	1,211	934	11.1%	7.3%	-3.8%
Prince George's County	884	651	8.1%	5.1%	-3.0%
SUBTOTAL: MARYLAND SUBURBS OF DC	2,264	1,748	20.7%	13.7%	-7.0%
Alexandria City	623	747	5.7%	5.9%	0.2%
Arlington County	2,093	1,360	19.2%	10.7%	-8.5%
Fairfax County	1,516	1,825	13.9%	14.3%	0.4%
Loudoun County	61	256	0.6%	2.0%	1.5%
Prince William County	248	327	2.3%	2.6%	0.3%
Stafford County	118	105	1.1%	0.8%	-0.3%
SUBTOTAL: VIRGINIA SUBURBS OF DC	4,659	4,621	42.7%	36.3%	-6.4%
District of Columbia	3,485	5,435	31.9%	42.7%	10.8%
Outlying Areas	147	167	1.3%	1.3%	0.0%
Externals	157	465	1.4%	3.6%	2.2%
TOTAL	10,919	12,735	100.0%	100.0%	0.0%

Source: Washington-Baltimore Regional Air Passenger Survey, 2019 and 2023

Note 1: Outlying Areas include Clarke, Fauquier, King George, and Spotsylvania Counties in VA, the City of Fredericksburg VA, St. Mary's County in MD, and Jefferson County, WV. Externals include jurisdictions outside the air system planning region.

Note 2: Totals may not add up to 100% due to rounding.

In addition to the District of Columbia and portions of suburban Virginia, sections of southern Montgomery and Prince George's Counties in Maryland, and sections of Prince William and Stafford Counties in Virginia along the I-95 corridor account for large numbers of passengers using DCA. Figure 9 shows the percentage distribution of air passenger originations by AAZ to DCA in 2023.

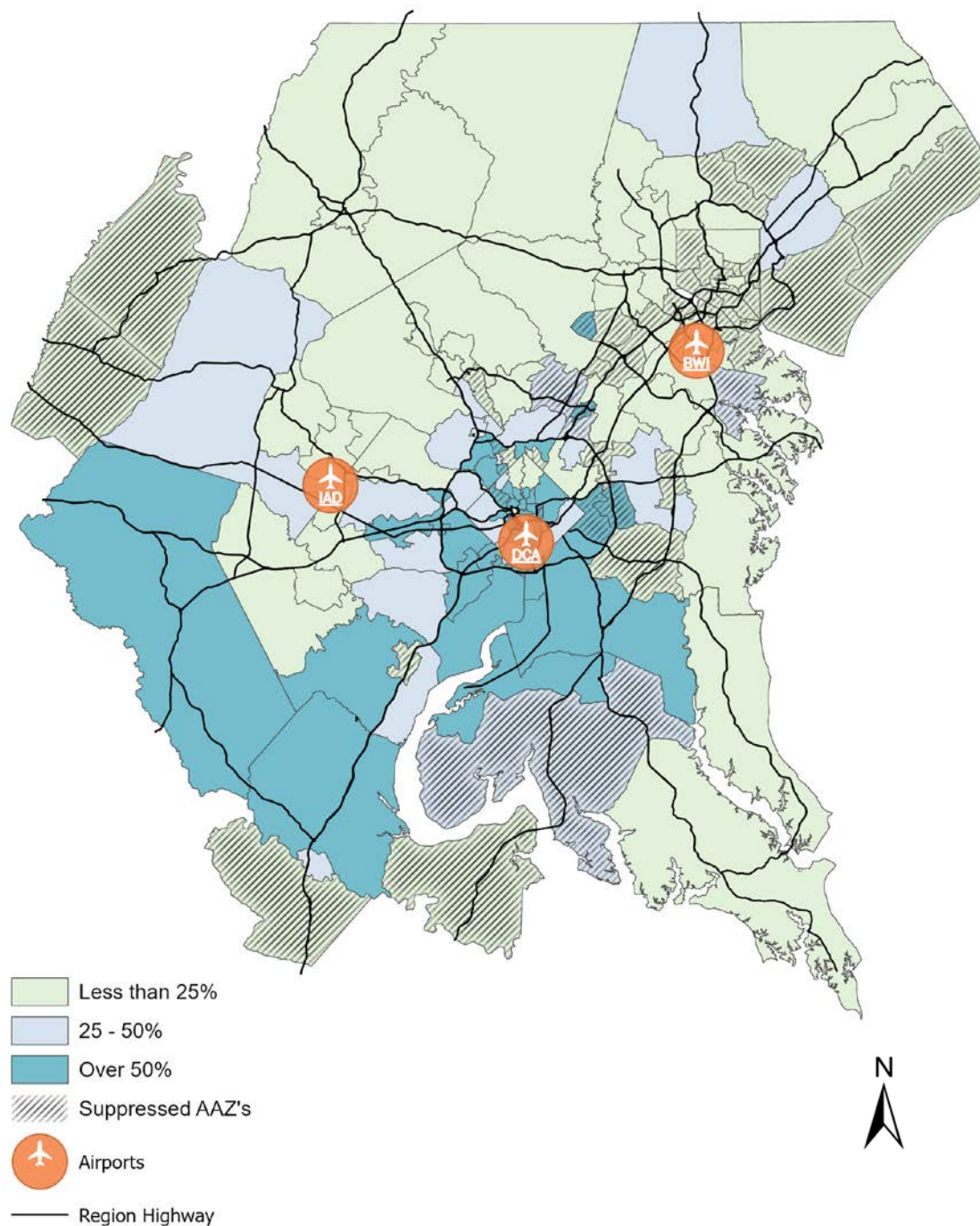


Figure 9: Percentage of Passengers using DCA

Source: Washington-Baltimore Regional Air Passenger Survey 2023

WASHINGTON DULLES INTERNATIONAL AIRPORT (IAD)

Over half of IAD's passengers in 2023 originated from the Virginia Suburbs of DC, with 24 percent originating specifically from Fairfax County, followed by Loudoun County with 12 percent. The District of Columbia and Maryland Suburbs of DC each accounted for 14 percent, with Montgomery County alone contributing 10 percent to the regional total. In contrast, only 6 percent of passengers originated from the Baltimore Metro Area.

Compared with 2019, originations from the Baltimore Metropolitan Area increased by 2 percentage points, the Maryland Suburbs of DC decreased by 3 percentage points, the Virginia Suburbs of DC decreased by 6 percentage points and the District of Columbia increased by 1 percentage point. Table 9 shows the complete distribution of air passenger originations for IAD, and Figure 10 illustrates the percentage distribution of these originations by AAZ to IAD for 2023.

Table 9: Distribution of Air Passenger Originations for IAD

ORIGIN COUNTY	IAD				
	2019	2023	% in 2019	% in 2023	Change in %
Anne Arundel County	84	109	1.0%	0.9%	-0.1%
Baltimore City	43	187	0.5%	1.5%	1.0%
Baltimore County	36	177	0.4%	1.4%	1.0%
Carroll County	25	55	0.3%	0.4%	0.2%
Harford County	20	22	0.2%	0.2%	-0.1%
Howard County	77	147	0.9%	1.2%	0.3%
SUBTOTAL: BALTIMORE METRO AREA	285	697	3.3%	5.6%	2.4%
Calvert County	11	25	0.1%	0.2%	0.1%
Charles County	20	54	0.2%	0.4%	0.2%
Frederick County	182	180	2.1%	1.5%	-0.6%
Montgomery County	1,019	1,258	11.7%	10.1%	-1.5%
Prince George's County	265	267	3.0%	2.2%	-0.9%
SUBTOTAL: MARYLAND SUBURBS OF DC	1,497	1,784	17.2%	14.4%	-2.8%
Alexandria City	274	332	3.1%	2.7%	-0.5%
Arlington County	692	613	7.9%	4.9%	-3.0%
Fairfax County	2,699	2,994	30.9%	24.2%	-6.8%
Loudoun County	833	1,518	9.5%	12.2%	2.7%
Prince William County	406	825	4.7%	6.7%	2.0%
Stafford County	63	30	0.7%	0.2%	-0.5%
SUBTOTAL: VIRGINIA SUBURBS OF DC	4,967	6,312	56.9%	50.9%	-6.0%
District of Columbia	1,122	1,755	12.9%	14.2%	1.3%
Outlying Areas	200	210	2.3%	1.7%	-0.6%
Externals	656	1,636	7.5%	13.2%	5.7%
TOTAL	8,727	12,395	100.0%	100.0%	0.0%

Source: Washington-Baltimore Regional Air Passenger Survey, 2019 and 2023

Note 1: Outlying Areas include Clarke, Fauquier, King George, and Spotsylvania Counties in VA, the City of Fredericksburg VA, St. Mary's County in MD, and Jefferson County, WV. Externals include jurisdictions outside the air system planning region.

Note 2: Totals may not add up to 100% due to rounding.

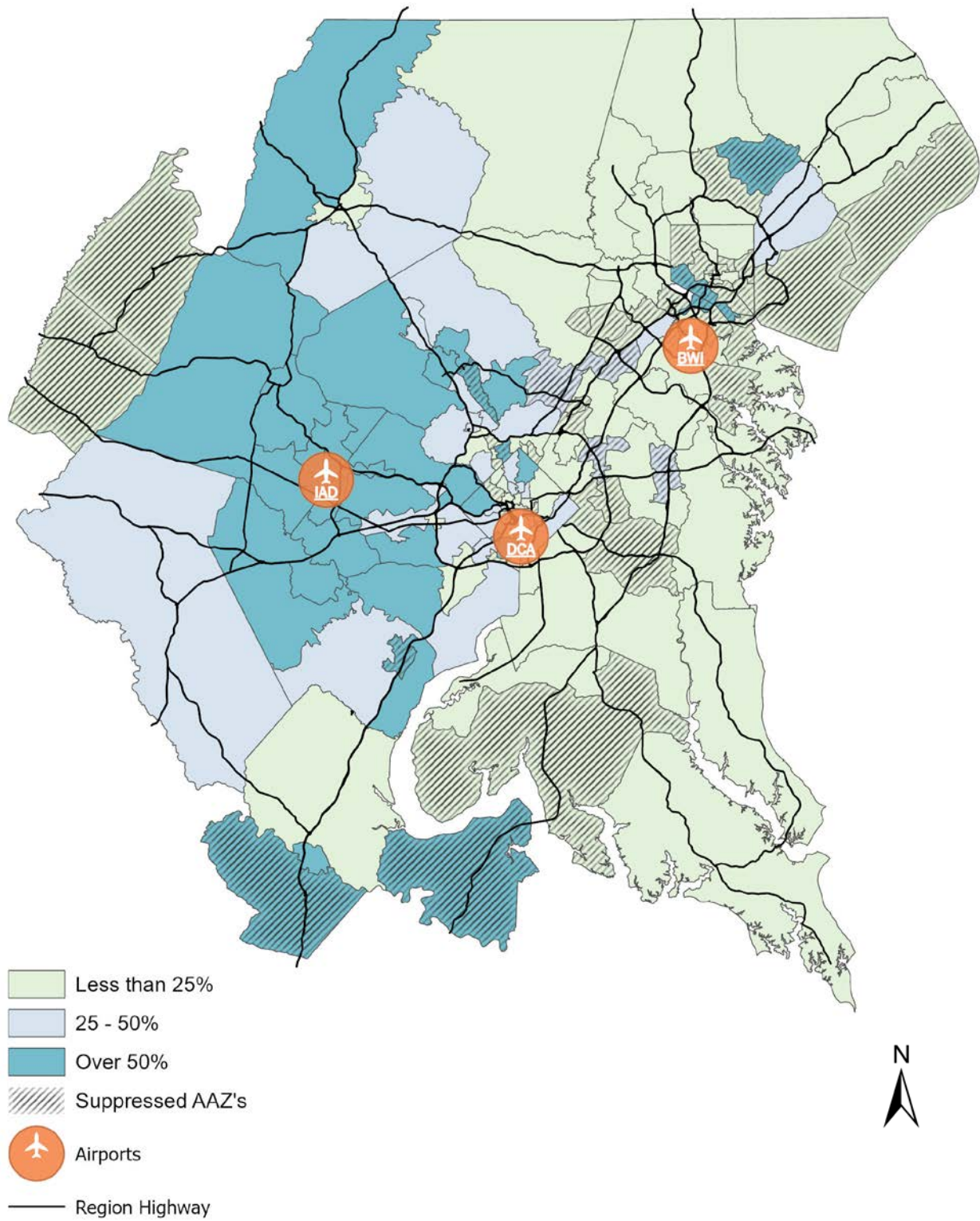


Figure 10: Percentage of Passengers Using IAD

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Use of Preferred Airport (Survey Question C-2)

Overall, the survey indicated that passengers typically fly from their preferred airport. Table 10 shows airport preference by jurisdiction and Figure 13 shows airport preference by AAZ. Across the region, 77 percent of passengers departed from their preferred airport. The jurisdictions with the highest proportion of passengers departing from their preferred airport are mainly in the Baltimore Metro region.

Table 10: Annual Departing Air Passengers' Satisfaction with Airport by Jurisdiction

Jurisdiction	Total Originating Trips in 1000's	% Satisfied with Airport Choice
Anne Arundel County	2,669	80%
Baltimore City	2,390	91%
Baltimore County	1,291	91%
Carroll County	247	95%
Harford County	507	56%
Howard County	945	72%
SUBTOTAL: BALTIMORE METRO AREA	8,049	83%
Calvert County	129	60%
Charles County	249	70%
Frederick County	506	79%
Montgomery County	3,186	65%
Prince George's County	1,725	83%
SUBTOTAL: MARYLAND SUBURBS OF DC	5,794	73%
Alexandria City	1,160	75%
Arlington County	2,184	68%
Fairfax County	4,909	75%
Loudoun County	1,884	83%
Prince William County	1,153	80%
Stafford County	136	68%
SUBTOTAL: VIRGINIA SUBURBS OF DC	11,427	75%
District of Columbia	8,045	73%
Outlying Areas	535	73%
Externals	4,392	81%
TOTAL	38,241	77%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Note 1: Fairfax City, City of Falls Church, Manassas Park and Manassas City are included in their respective county totals. Outlying Areas include Clarke, Fauquier, King George, and Spotsylvania Counties in VA, the City of Fredericksburg VA, St. Mary's County in MD, and Jefferson County, WV. Externals include jurisdictions outside the air system planning region.

Note 2: Totals may not add up to 100% due to rounding.

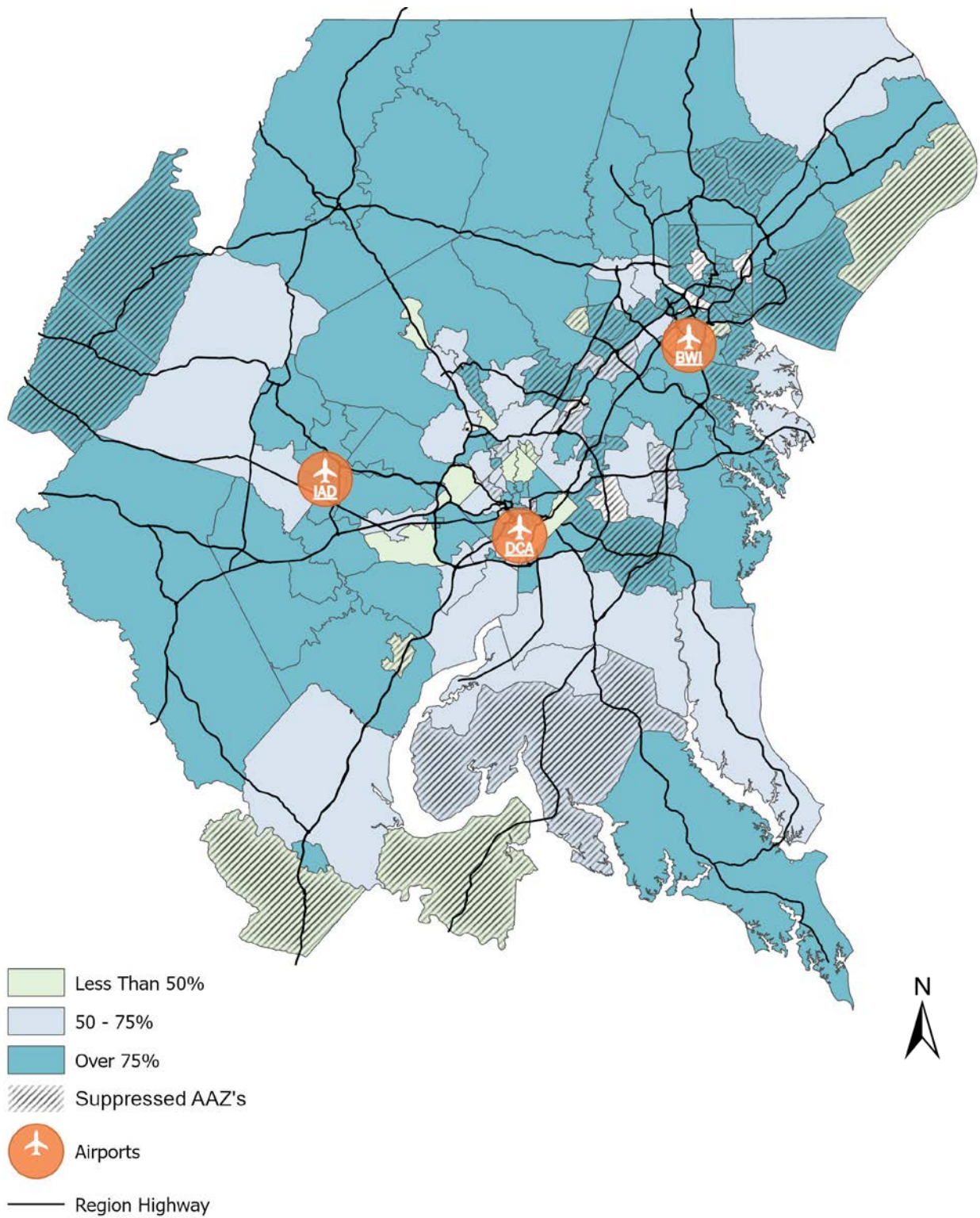


Figure 11: Percentage of Passengers Flying from Preferred Airport by AAZ

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Trip Purpose (Survey Question A-3)

Passengers traveling to the airport from their workplace are relatively more concentrated in areas around Washington, DC, and Baltimore. According to the 2023 Air Passenger Survey General Findings Report, the percentage of locally originating air passengers reporting that they were traveling for non-business-related reasons increased from 65 percent in 2019 to 70 percent in 2023, while business-related trips decreased from 35 percent to 30 percent. Vacation travel increased to 36 percent (up from 28 percent in 2019) and school-related travel decreased slightly from 7 to 5 percent. Personal or family-related travel decreased slightly from 29 to 28 percent.

Figure 12 illustrates the percentage of passengers traveling for business from each of the Aviation Analysis Zones (AAZ) in 2023. Business travelers may be residents or non-residents of the region and may depart from any location including home, a hotel or motel, or a place of business. While concentrations of business travel vary throughout the region, portions of the region with a higher proportion of business travel tend to be along major highway corridors such as the Dulles Corridor and I-270 and business/retail centers such as Tysons, Baltimore City and National Harbor. Areas with less than 25 percent business originations were typically outer jurisdictions with less economic activity. Refer to Table 16 later in the report for trip purpose breakdowns for the Baltimore and Washington Subregional Cores.

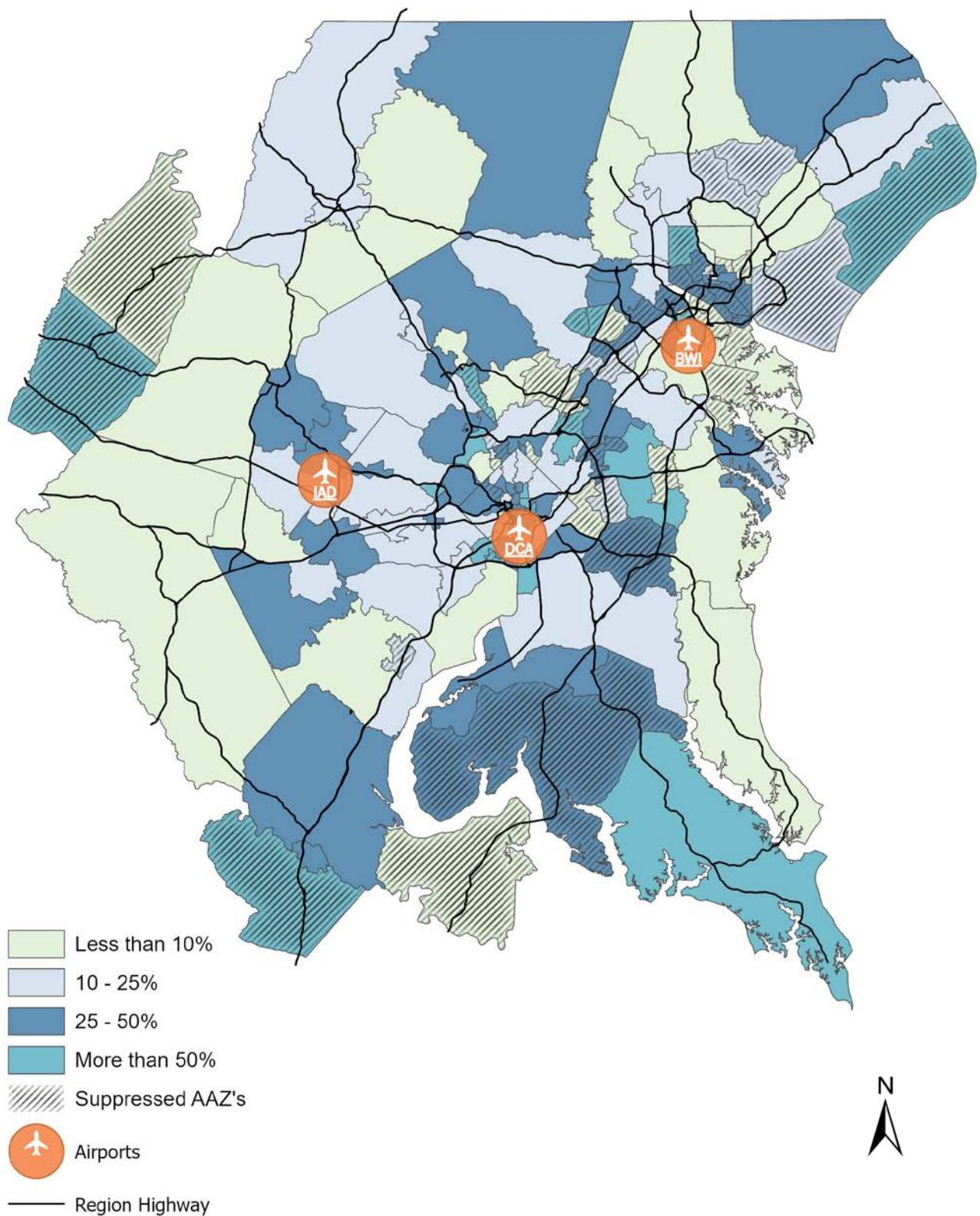


Figure 12: Percentage of Passengers Traveling for Business

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Trip Origin (Survey Question B-1)

Based on the 2023 Air Passenger Survey General Findings Report, while around 30 percent of air passengers originating in the Washington-Baltimore Air System Planning Region were traveling on business, only 4 percent of the total number of passengers left from a place of business and traveled directly to the airport. As seen in Figure 13, the locations of passengers leaving a place of business/work for the airport were more concentrated in areas near airports.

While 61 percent of the passengers left for the airport from their home, 31 percent left from a hotel or motel (2023 APS General Findings Report). Figure 14 displays the pattern for locally originating passengers in the Washington-Baltimore Air System Planning Region departing for the airport from a hotel or motel. Showing a similar pattern for place of business, it is highly concentrated in areas surrounding the airports, particularly those with good public transportation connections.

AAZs with high concentrations of air passengers originating from hotel or motel surround the downtown area of the District of Columbia and extend into the City of Alexandria, Arlington County, and Fairfax County. Areas with access to I-495 and I-66 also show higher concentrations. A similar pattern is shown near IAD, particularly along I-66, while the I-95 corridor leading to BWI and the AAZs near Annapolis also exhibit significant shares of air passenger travel originating from hotel or motel.

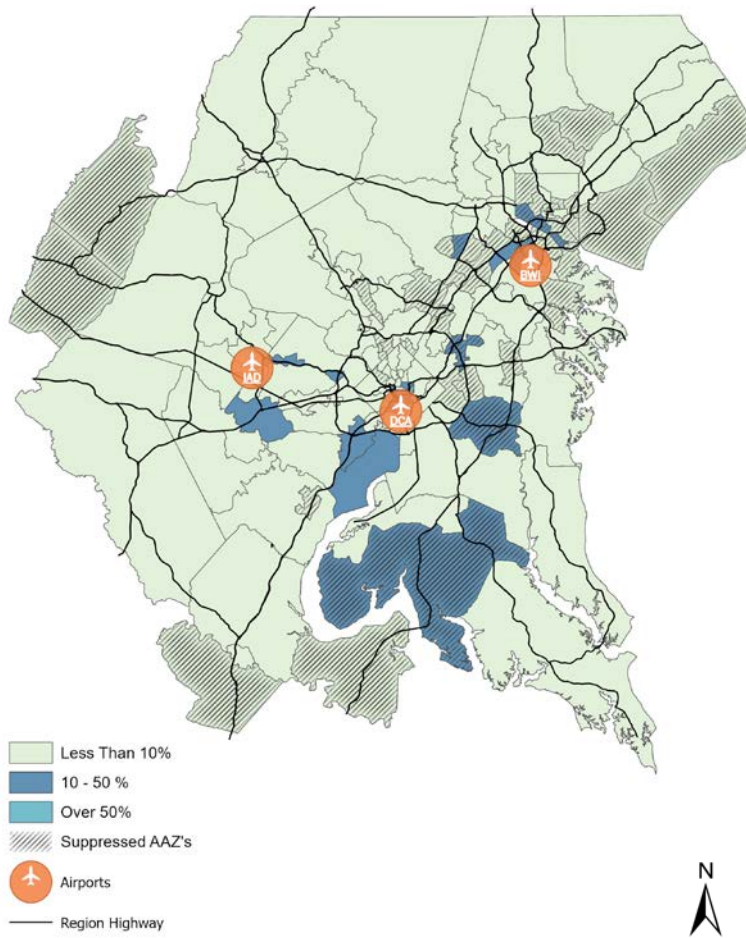


Figure 13: Percentage of Passengers Leaving from Work

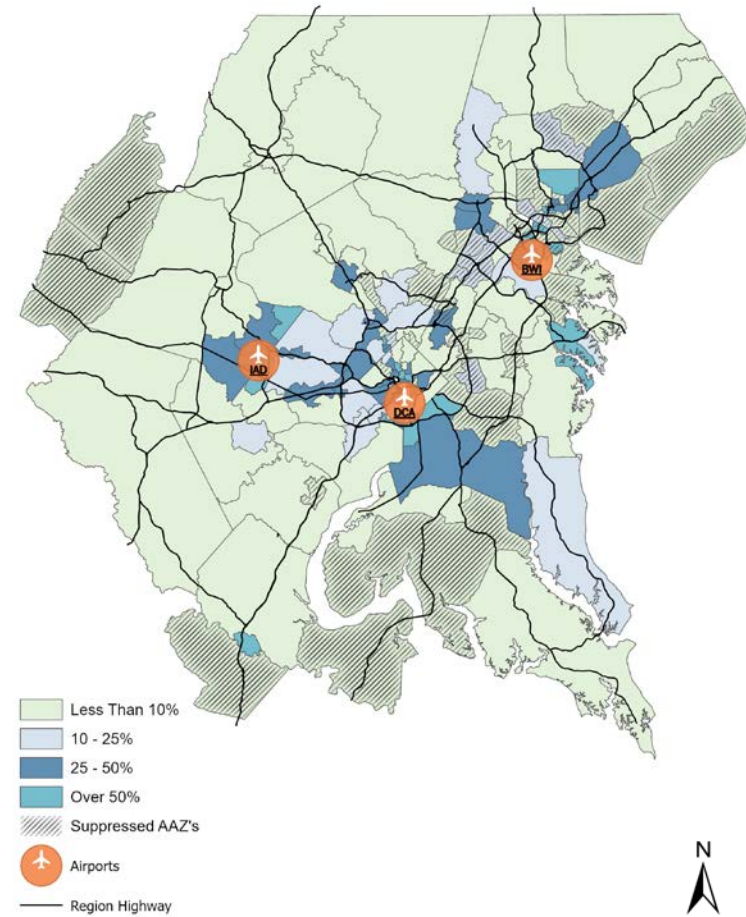


Figure 14: Percentage of Passengers Leaving from Hotel/Motel

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Mode of Access (Survey Question B-6)

According to the 2023 Air Passenger Survey General Findings Report, the automobile (including private, rental, taxicab, and Transportation Network Companies [TNCs] such as Uber/Lyft) remained the region's most common mode of airport access, accounting for 86 percent of all local originations in 2023, up from 84 percent in 2019. Private cars represented the largest share at 45 percent in 2023, an increase from 41 percent in 2019. TNCs were the second most popular option at 26 percent, up from 24 percent in 2019. Rental cars accounted for 10 percent of airport access, while transit services (Metrorail, light rail at BWI, and Metrobus/MTA Bus) were used by 8 percent of passengers. Taxicabs represented 5 percent of airport access modes, with the remaining modes (hotel/motel courtesy buses, airport buses/vans/limos) collectively accounted for 4 percent in 2023. Tables 11 through 14 show the distribution of travel modes used by the originating air passengers to access the airports.

Figures 15 and 16 display the zones from which passengers used taxicabs and TNCs, respectively, to access the airports. The areas with the highest concentrations of taxicab usage are located within the District of Columbia and downtown Baltimore, while TNCs more broadly cover the Washington Subregional Core (District of Columbia, Arlington County, City of Alexandria), Baltimore City, and areas surrounding IAD.

Figures 17 and 18 illustrate the percentage of originating air passengers using public transit and airport bus/van/limousine services, respectively. Transit usage was concentrated in urban cores, particularly near Metrorail stations in the District of Columbia, Baltimore City, and parts of Suburban Virginia as depicted in the maps. The usage of airport buses/vans/limos was low throughout the region, except areas immediately surrounding the airports and parts of Baltimore City.

Table 11: Annual Originating Air Passenger Mode of Access by Jurisdiction – Region

Origin County - REGION	Private Car	Rental Car	Taxi	TNC (Uber, Lyft, etc.)	Metrorail	Commuter Rail and Amtrak	Light Rail (BWI)	Airport Bus/Van/Limo	Hotel/Motel Courtesy Bus	Metrobus	Walked	Biked	Other	TOTAL
Anne Arundel County	1,381,539	507,813	35,625	384,155	5,941	-	-	237,765	76,753	-	-	-	39,475	2,669,067
Baltimore City	762,623	174,970	239,014	1,034,309	19,286	40,229	13,950	25,048	34,033	-	-	-	46,041	2,389,504
Baltimore County	854,566	236,429	22,630	133,974	-	-	8,023	21,382	-	-	-	-	14,272	1,291,277
Carroll County	247,096	-	-	-	-	-	-	-	-	-	-	-	0	247,096
Harford County	495,005	-	-	1,672	-	-	-	-	-	-	-	-	9,949	506,626
Howard County	681,318	80,833	-	115,928	1,009	-	-	-	58,094	-	-	-	8,018	945,202
SUBTOTAL: BALTIMORE METRO AREA	4,422,149	1,000,045	297,269	1,670,039	26,236	40,229	21,973	284,196	168,881	-	-	-	117,755	8,048,771
% - Baltimore Metro Area	55%	12%	4%	21%	0.3%	0.5%	0.3%	4%	2%	-	-	-	1%	100%
Calvert County	67,034	33,562	-	-	4,316	-	-	-	-	-	-	-	23,778	128,689
Charles County	207,941	22,991	-	6,448	-	11,612	-	-	-	-	-	-	0	248,992
Frederick County	384,807	44,889	9,764	12,609	-	-	-	-	-	-	-	-	54,426	506,494
Montgomery County	1,110,857	208,862	110,386	1,426,924	264,949	6,488	-	2,493	12,475	16,876	-	-	25,278	3,185,590
Prince George's County	818,032	257,174	72,153	435,631	120,269	13,472	-	-	1,676	-	468	-	5,786	1,724,661
SUBTOTAL: MARYLAND SUBURBS OF DC	2,588,671	567,478	192,303	1,881,612	389,534	31,572	-	2,493	14,151	16,876	468	-	109,268	5,794,426
% - MD Suburbs of DC	45%	10%	3%	32%	7%	1%	-	0.0%	0.2%	0.3%	0.01%	-	2%	100%
Alexandria City	334,713	116,549	16,801	386,308	154,461	63,503	-	-	20,857	-	-	-	67,178	1,160,369
Arlington County	569,045	224,793	90,528	679,289	387,990	-	-	4,240	215,728	-	8,623	-	3,869	2,184,104
Fairfax County	1,671,790	758,057	261,587	1,548,591	271,283	5,227	-	6,688	271,181	1,028	6,404	-	107,561	4,909,396
Loudoun County	1,058,271	198,571	56,894	284,576	67,357	-	-	92,218	95,267	-	-	-	31,002	1,884,157
Prince William County	906,833	61,544	14,532	144,535	2,555	-	-	-	-	-	-	-	22,917	1,152,916
Stafford County	126,044	3,942	-	5,495	-	-	-	-	-	-	-	-	659	136,140
SUBTOTAL: VIRGINIA SUBURBS OF DC	4,666,696	1,363,456	440,341	3,048,794	883,645	68,730	-	103,145	603,034	1,028	15,027	-	233,186	11,427,082
% - VA Suburbs of DC	41%	12%	4%	27%	8%	1%	-	1%	5%	0.01%	0.1%	-	2%	100%
District of Columbia	1,054,938	290,176	847,245	3,845,818	1,258,338	112,285	-	35,962	5,548	81,726	27,551	74,368	410,762	8,044,717
% - District of Columbia	13%	4%	11%	48%	16%	1%	-	0.4%	0.1%	1%	0.3%	-	5%	100%
Outlying Areas	374,858	57,706	3,766	6,721	14,438	6,534	-	-	-	70,579	-	-	-	534,601
Externals	3,064,220	951,113	40,020	150,101	22,842	-	-	26,299	55,448	-	-	-	81,578	4,391,622
TOTAL	16,171,531	4,229,975	1,820,944	10,603,084	2,595,034	259,350	21,973	452,094	847,062	170,210	43,046	74,368	952,548	38,241,220
% - Total	42%	11%	5%	28%	7%	1%	0.1%	1%	2%	0.4%	0.1%	0.2%	2%	100%

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note 1: "-" indicates that no observations were recorded for this County/Region

Note 2: "Metrobus" includes: Metrobus, MTA Bus, RTA Bus, and Fairfax Connector

Note 3: Totals may not add up to 100% due to rounding.

Table 12: Annual Originating Air Passenger Mode of Access by Jurisdiction – BWI

Origin County - BWI	Private Car	Rental Car	Taxi	TNC (Uber, Lyft, etc.)	Metrorail	Commuter Rail and Amtrak	Light Rail (BWI)	Airport Bus/Van/Limo	Hotel/Motel Courtesy Bus	Metrobus	Walked	Biked	Other	TOTAL
Anne Arundel County	1,227,454	470,587	11,526	367,632	N/A	-	-	231,947	76,753	-	-	-	39,475	2,425,374
Baltimore City	702,323	123,419	233,901	997,580	N/A	40,229	13,950	-	34,033	-	-	-	46,041	2,191,478
Baltimore County	703,176	140,189	-	121,763	N/A	-	8,023	21,382	-	-	-	-	14,272	1,008,806
Carroll County	192,115	-	-	-	N/A	-	-	-	-	-	-	-	-	192,115
Harford County	473,016	-	-	-	N/A	-	-	-	-	-	-	-	9,949	482,965
Howard County	559,658	55,618	-	86,918	N/A	-	-	-	41,882	-	-	-	8,018	752,094
SUBTOTAL: BALTIMORE METRO AREA	3,857,743	789,814	245,428	1,573,893	N/A	40,229	21,973	253,329	152,669	-	-	-	117,755	7,052,831
% - Baltimore Metro Area	55%	11%	3%	22%	N/A	0.6%	0.3%	4%	2%	-	-	-	2%	100%
Calvert County	24,362	29,843	-	-	N/A	-	-	-	-	-	-	-	23,778	77,983
Charles County	55,498	10,256	-	-	N/A	11,612	-	-	-	-	-	-	-	77,366
Frederick County	306,747	-	-	-	N/A	-	-	-	-	-	-	-	-	306,747
Montgomery County	277,881	149,033	11,205	522,018	N/A	6,488	-	-	-	16,876	-	-	9,949	993,450
Prince George's County	561,796	75,950	-	153,537	N/A	13,472	-	-	-	-	-	-	1,874	806,629
SUBTOTAL: MARYLAND SUBURBS OF DC	1,226,283	265,083	11,205	675,555	N/A	31,572	-	-	-	16,876	-	-	35,600	2,262,175
% - MD Suburbs of DC	54%	12%	0.5%	30%	N/A	1%	-	-	-	0.7%	-	-	2%	100%
Alexandria City	-	-	-	-	N/A	63,503	-	-	17,377	-	-	-	-	80,880
Arlington County	73,558	131,013	-	6,057	N/A	-	-	-	0	-	-	-	-	210,628
Fairfax County	23,074	23,638	-	3,651	N/A	5,227	-	-	23,778	-	-	-	11,299	90,668
Loudoun County	35,179	72,316	-	-	N/A	-	-	-	-	-	-	-	2,720	110,216
Prince William County	659	-	-	-	N/A	-	-	-	-	-	-	-	-	659
Stafford County	-	-	-	-	N/A	-	-	-	-	-	-	-	659	659
SUBTOTAL: VIRGINIA SUBURBS OF DC	132,470	226,968	-	9,708	N/A	68,730	-	-	41,154	-	-	-	14,679	493,709
% - VA Suburbs of DC	27%	46%	-	2%	N/A	14%	-	-	8%	-	-	-	3%	100%
District of Columbia	172,468	47,573	16,928	243,650	N/A	112,285	-	35,962	-	45,394	22,049	-	157,772	854,081
% - District of Columbia	20%	6%	2%	29%	N/A	13%	-	4%	-	5%	3%	-	18%	100%
Outlying Areas	68,294	-	-	-	N/A	6,534	-	-	-	70,579	-	-	-	145,407
Externals	1,792,223	437,264	-	22,030	N/A	-	-	8,371	6,815	-	-	-	24,210	2,290,914
TOTAL	7,249,482	1,766,702	273,561	2,524,837	N/A	259,350	21,973	297,662	200,638	132,850	22,049	-	350,016	13,099,118
% - Total	55%	13%	2%	19%	N/A	2%	0.2%	2%	2%	1%	0.2%	-	3%	100%

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note 1: "N/A" indicates that this was not an option on the airport survey for that year

Note 2: "-" indicates that no observations were recorded for this County/Region

Note 3: * "Metrobus" includes: Metrobus, MTA Bus, RTA Bus, and Fairfax Connector

Note 4: Totals may not add up to 100% due to rounding.

Table 13: Annual Originating Air Passenger Mode of Access by Jurisdiction – DCA

Origin County - DCA	Private Car	Rental Car	Taxi	TNC (Uber, Lyft, etc.)	Metrorail	Commuter Rail and Amtrak	Light Rail (BWI)	Airport Bus/Van/Limo	Hotel/Motel Courtesy Bus	Metrobus	Walked	Biked	Other	TOTAL
Anne Arundel County	59,582	26,927	24,099	12,805	5,941	-	N/A	5,819	-	-	-	-	-	135,172
Baltimore City	6,205	915	-	3,561	-	-	N/A	-	-	-	-	-	-	10,681
Baltimore County	6,971	96,240	-	2,137	-	-	N/A	-	-	-	-	-	-	105,347
Carroll County	-	-	-	-	-	-	N/A	-	-	-	-	-	-	0
Harford County	-	-	-	1,672	-	-	N/A	-	-	-	-	-	-	1,672
Howard County	22,010	5,137	-	1,282	1,009	-	N/A	-	16,212	-	-	-	-	45,650
SUBTOTAL: BALTIMORE METRO AREA	94,767	129,219	24,099	21,457	6,950	-	N/A	5,819	16,212	-	-	-	-	298,523
% - Baltimore Metro Area	32%	43%	8%	7%	2%	-	N/A	2%	5%	-	-	-	-	100%
Calvert County	25,705	-	-	-	-	-	N/A	-	-	-	-	-	-	25,705
Charles County	98,434	12,735	-	6,448	-	-	N/A	-	-	-	-	-	-	117,617
Frederick County	7,249	12,579	-	-	-	-	N/A	-	-	-	-	-	-	19,828
Montgomery County	226,919	27,888	29,345	458,440	189,259	-	N/A	2,493	-	-	-	-	-	934,344
Prince George's County	145,019	165,748	45,707	226,898	61,331	-	N/A	-	1,676	-	468	-	3,913	650,760
SUBTOTAL: MARYLAND SUBURBS OF DC	503,326	218,950	75,053	691,786	250,590	-	N/A	2,493	1,676	-	468	-	3,913	1,748,254
% - MD Suburbs of DC	29%	13%	4%	40%	14%	-	N/A	0.1%	0.1%	-	0.03%	-	0.2%	100%
Alexandria City	174,964	80,343	16,801	305,789	107,959	-	N/A	-	-	-	-	-	61,188	747,043
Arlington County	293,971	44,711	65,544	434,685	288,627	-	N/A	4,240	215,728	-	8,623	-	3,869	1,359,999
Fairfax County	628,845	247,844	24,061	732,152	164,708	-	N/A	-	-	1,028	-	-	26,530	1,825,169
Loudoun County	108,108	-	5,932	52,214	63,732	-	N/A	26,308	-	-	-	-	-	256,295
Prince William County	275,359	3,354	-	46,180	2,555	-	N/A	-	-	-	-	-	-	327,448
Stafford County	101,432	3,942	-	-	-	-	N/A	-	-	-	-	-	-	105,373
SUBTOTAL: VIRGINIA SUBURBS OF DC	1,582,679	380,194	112,338	1,571,020	627,582	-	N/A	30,548	215,728	1,028	8,623	-	91,587	4,621,327
% - VA Suburbs of DC	34%	8%	2%	34%	14%	-	N/A	1%	5%	0.02%	0.2%	-	2%	100%
District of Columbia	550,312	203,668	646,199	2,768,697	894,853	-	N/A	-	2,480	36,332	5,502	74,368	252,990	5,435,402
% - District of Columbia	10%	4%	12%	51%	16%	-	N/A	-	0.05%	1%	0.1%	1%	5%	100%
Outlying Areas	143,530	20,591	-	2,909	-	-	N/A	-	-	-	-	-	-	167,031
Externals	278,603	86,886	13,917	38,213	18,016	-	N/A	1,234	27,723	-	-	-	-	464,591
TOTAL	3,153,218	1,039,507	871,606	5,094,082	1,797,990	-	N/A	40,093	263,819	37,361	14,594	74,368	348,489	12,735,128
% - Total	25%	8%	7%	40%	14%	-	N/A	0.3%	2%	0.3%	0.1%	0.6%	3%	100%

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note 1: "N/A" indicates that this was not an option on the airport survey for that year

Note 2: "-" indicates that no observations were recorded for this County/Region

Note 3: * "Metrobus" includes: Metrobus, MTA Bus, RTA Bus, and Fairfax Connector

Note 4: Totals may not add up to 100% due to rounding.

Table 14: Annual Originating Air Passenger Mode of Access Total and by Jurisdiction – IAD

Origin County - IAD	Private Car	Rental Car	Taxi	TNC (Uber, Lyft, etc.)	Metrorail	Commuter Rail and Amtrak	Light Rail (BWI)	Airport Bus/Van/Limo	Hotel/Motel Courtesy Bus	Metrobus	Walked	Biked	Other	TOTAL
Anne Arundel County	94,503	10,299	-	3,719	-	N/A	N/A	-	-	-	-	-	-	108,521
Baltimore City	54,095	50,635	5,112	33,168	19,286	N/A	N/A	25,048	-	-	-	-	-	187,345
Baltimore County	144,420	-	22,630	10,074	-	N/A	N/A	-	-	-	-	-	-	177,124
Carroll County	54,981	-	-	-	-	N/A	N/A	-	-	-	-	-	-	54,981
Harford County	21,989	-	-	-	-	N/A	N/A	-	-	-	-	-	-	21,989
Howard County	99,650	20,079	-	27,728	-	N/A	N/A	-	-	-	-	-	-	147,457
SUBTOTAL: BALTIMORE METRO AREA	469,638	81,013	27,742	74,689	19,286	N/A	N/A	25,048	-	-	-	-	-	697,417
% - Baltimore Metro Area	67%	12%	4%	11%	3%	N/A	N/A	4%	-	-	-	-	-	100%
Calvert County	16,967	3,719	-	-	4,316	N/A	N/A	-	-	-	-	-	-	25,001
Charles County	54,009	-	-	-	-	N/A	N/A	-	-	-	-	-	-	54,009
Frederick County	70,810	32,310	9,764	12,609	-	N/A	N/A	-	-	-	-	-	54,426	179,919
Montgomery County	606,058	31,942	69,836	446,466	75,690	N/A	N/A	-	12,475	-	-	-	15,329	1,257,796
Prince George's County	111,217	15,475	26,446	55,195	58,939	N/A	N/A	-	-	-	-	-	-	267,272
SUBTOTAL: MARYLAND SUBURBS OF DC	859,061	83,446	106,045	514,271	138,944	N/A	N/A	-	12,475	-	-	-	69,755	1,783,997
% - MD Suburbs of DC	48%	5%	6%	29%	8%	N/A	N/A	-	0.7%	-	-	-	4%	100%
Alexandria City	159,749	36,207	-	80,518	46,501	N/A	N/A	-	3,481	-	-	-	5,990	332,446
Arlington County	201,516	49,068	24,984	238,547	99,363	N/A	N/A	-	-	-	-	-	-	613,477
Fairfax County	1,019,871	486,574	237,525	812,787	106,575	N/A	N/A	6,688	247,403	-	6,404	-	69,732	2,993,560
Loudoun County	914,984	126,255	50,962	232,362	3,624	N/A	N/A	65,910	95,267	-	-	-	28,282	1,517,646
Prince William County	630,815	58,191	14,532	98,355	-	N/A	N/A	-	-	-	-	-	22,917	824,809
Stafford County	24,612	-	-	5,495	-	N/A	N/A	-	-	-	-	-	-	30,108
SUBTOTAL: VIRGINIA SUBURBS OF DC	2,951,547	756,294	328,003	1,468,065	256,064	N/A	N/A	72,598	346,151	-	6,404	-	126,920	6,312,046
% - VA Suburbs of DC	47%	12%	5%	23%	4%	N/A	N/A	1%	5%	-	0.1%	-	2%	100%
District of Columbia	332,158	38,935	184,117	833,471	363,485	N/A	N/A	-	3,068	-	-	-	-	1,755,235
% - District of Columbia	19%	2%	10%	47%	21%	N/A	N/A	-	0.2%	-	-	-	-	100%
Outlying Areas	163,034	37,114	3,766	3,812	14,438	N/A	N/A	-	-	-	-	-	-	222,163
Externals	993,393	426,963	26,103	89,858	4,827	N/A	N/A	16,693	20,910	-	-	-	57,368	1,636,116
TOTAL	5,768,832	1,423,766	675,777	2,984,165	797,044	N/A	N/A	114,339	382,605	-	6,404	-	254,043	12,406,974
% - Total	46%	11%	5%	24%	6%	N/A	N/A	1%	3%	-	0.1%	-	2%	100%

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note 1: "N/A" indicates that this was not an option on the airport survey for that year

Note2: "-" indicates that no observations were recorded for this County/Region

Note 3: * "Metrobus" includes: Metrobus, MTA Bus, RTA Bus, and Fairfax Connector

Note 4: Totals may not add up to 100% due to rounding.

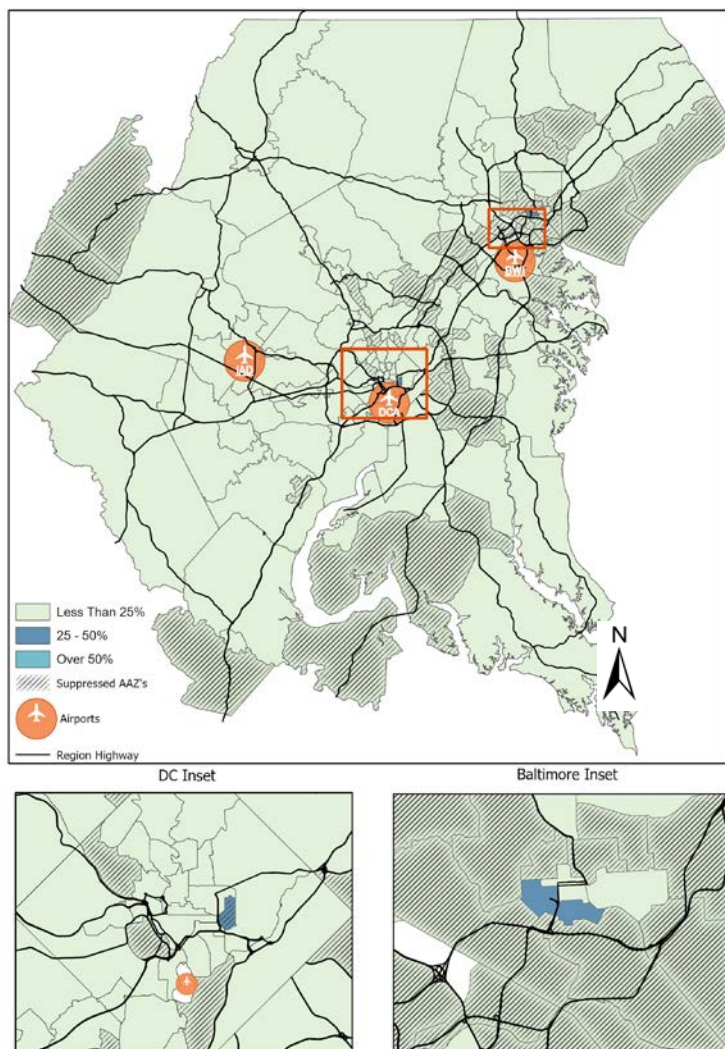


Figure 15. Percentage of Passengers Using Taxis
Source: Washington-Baltimore Regional Air Passenger Survey 2023

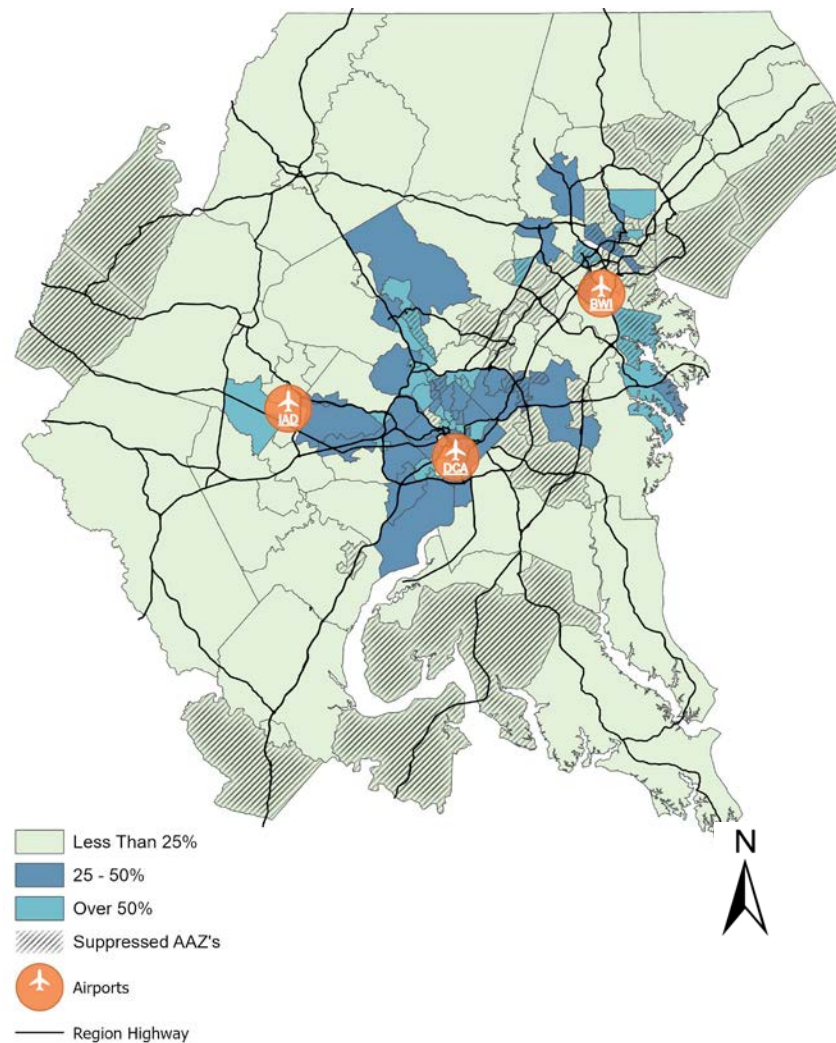


Figure 16. Percentage of Passengers Using TNCs
Source: Washington-Baltimore Regional Air Passenger Survey 2023
Note: TNC = Transportation Network Company, such as Uber or Lyft

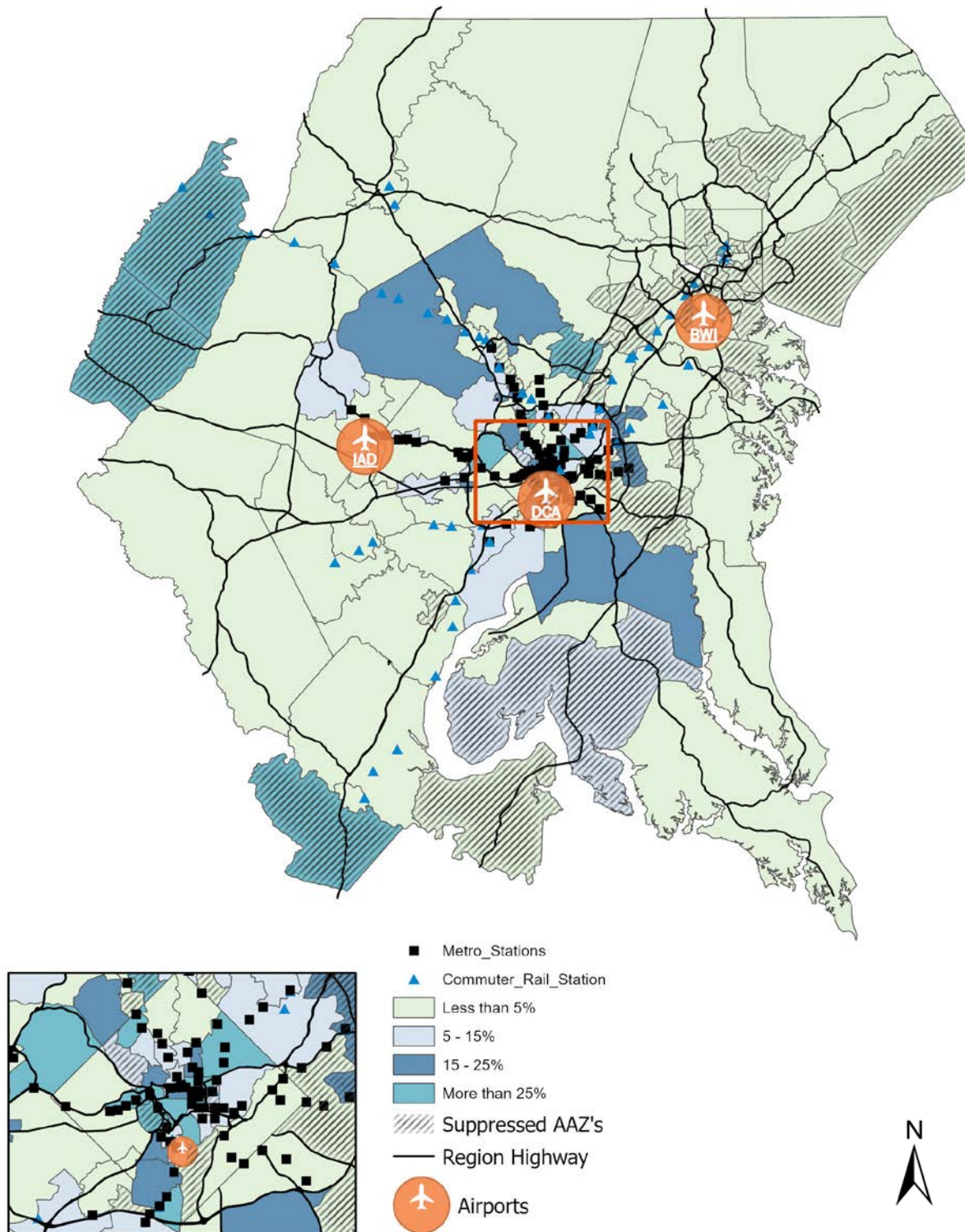


Figure 17: Percentage of Passengers Using Metrorail, Commuter Rail, Metrobus, and/or Local Bus
 Source: Washington-Baltimore Regional Air Passenger Survey 2023

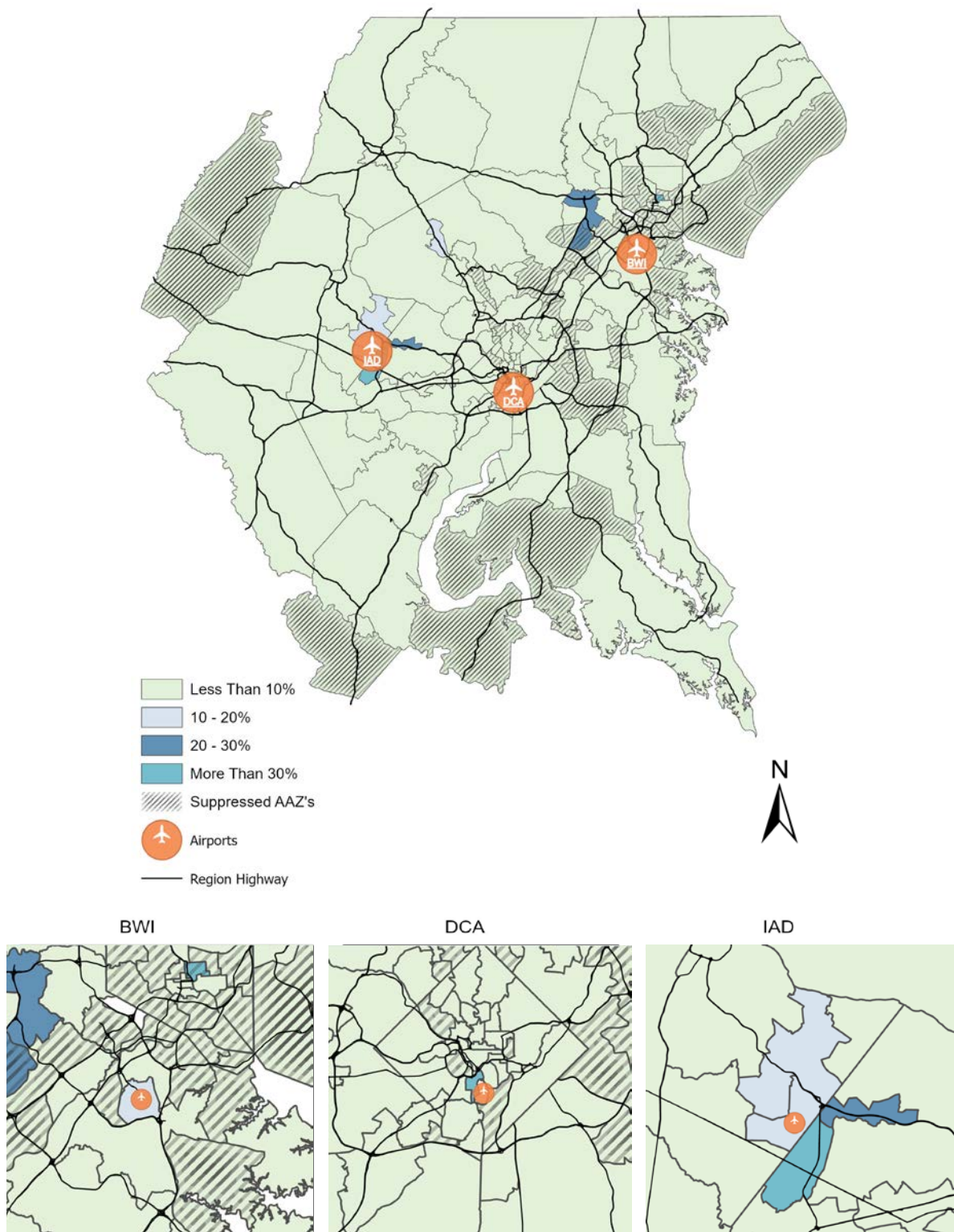


Figure 18: Percentage of Passengers Using Airport bus/van/limousine

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Household Income (Survey Question D-6)

Passenger air travel is correlated with household income levels, as shown in the 2023 General Findings Report which found that household incomes for air travelers in the Washington-Baltimore region continued to be higher than the median household income of \$121,469 for the Washington-Arlington-Alexandria-District of Columbia Metropolitan Statistical Area (MSA) in 2023. Figure 19 shows the proportion of originating air passengers with annual household incomes of \$150,000 or more for each AAZ. The areas with high concentrations of passengers reporting a household income of \$150,000 or more are widespread, with only a handful of AAZs in the region showing less than 25 percent of air passengers in this income group, which are primarily in the east and southeast Maryland Suburbs and some exurban areas.

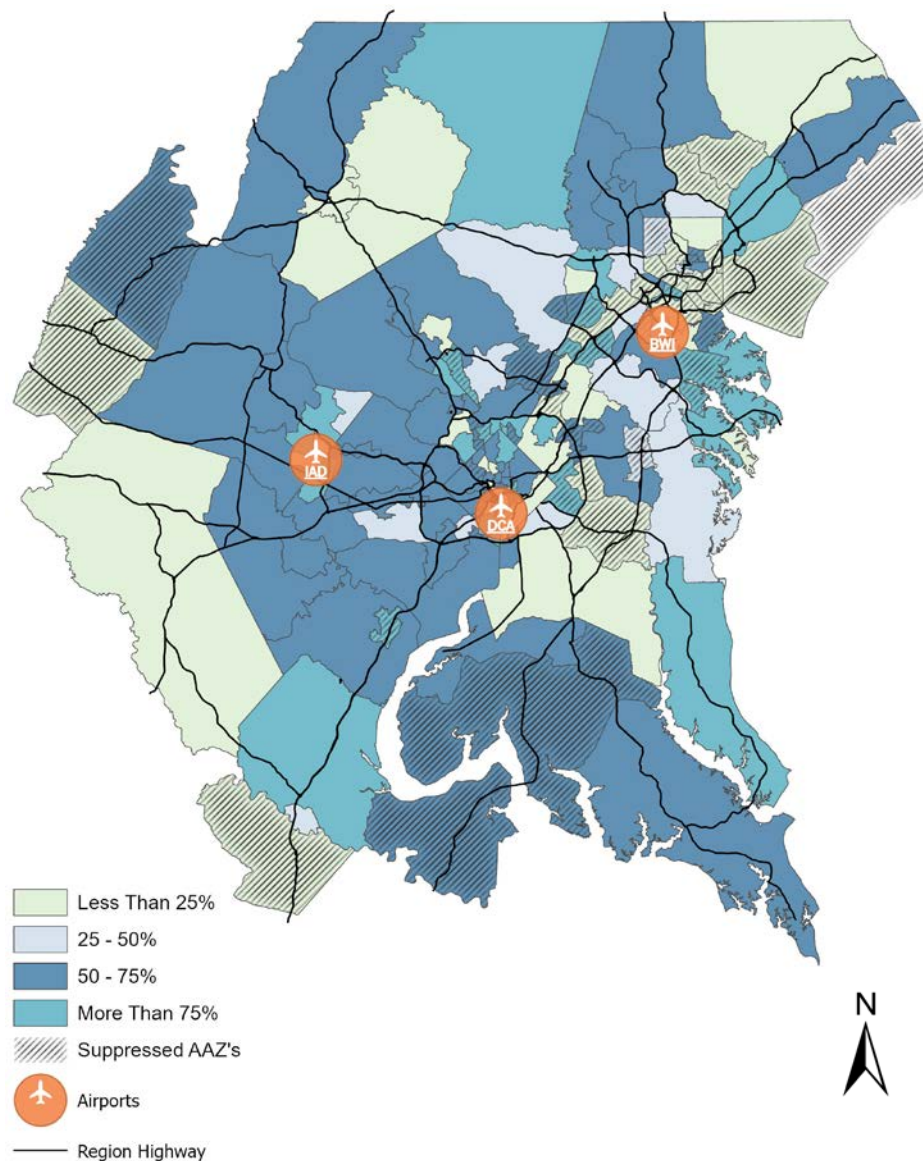


Figure 19: Annual Household Income Over \$150,000

Source: Washington-Baltimore Regional Air Passenger Survey, 2023

Departures by Time of Day (Survey Question B-4)

The distributions of passenger departures by time of day at the three airports in the Washington-Baltimore Air System Planning Region are displayed in Figures 20, 21, and 22. These diurnal time distributions are indicative of the different roles played by the airports in the aviation system throughout the region. The data does not include flights departing between 5:00 A.M. and 7:00 A.M., as surveys were not conducted during those times.

As shown in Figure 20, BWI experienced its main peak in the early afternoon, with the highest number of departures between 1:00–2:00 P.M., followed by a secondary peak from 3:00–4:00 P.M., then a noticeable dip before rebounding later in the evening. This midday focus aligns with domestic flight schedules typical of BWI.

As shown in Figure 21, DCA saw a steady buildup from morning through afternoon, reaching its peak from 3:00–4:00 P.M., followed by a sharp decline an hour later. A secondary peak occurred between 5:00–6:00 P.M. before tapering off into the evening. Overall, departures at DCA are more widely distributed throughout the day compared to IAD, reflecting the airport's substantial short-haul traffic and central location within the region.

As shown in Figure 22, IAD featured multiple peaks throughout the day—most notably from 8:00–9:00 A.M., 12:00–1:00 P.M., 5:00–7:00 P.M., and 10:00–11:00 P.M. These waves reflect long-haul international operations and the clustering of flights typical of a major connecting hub.

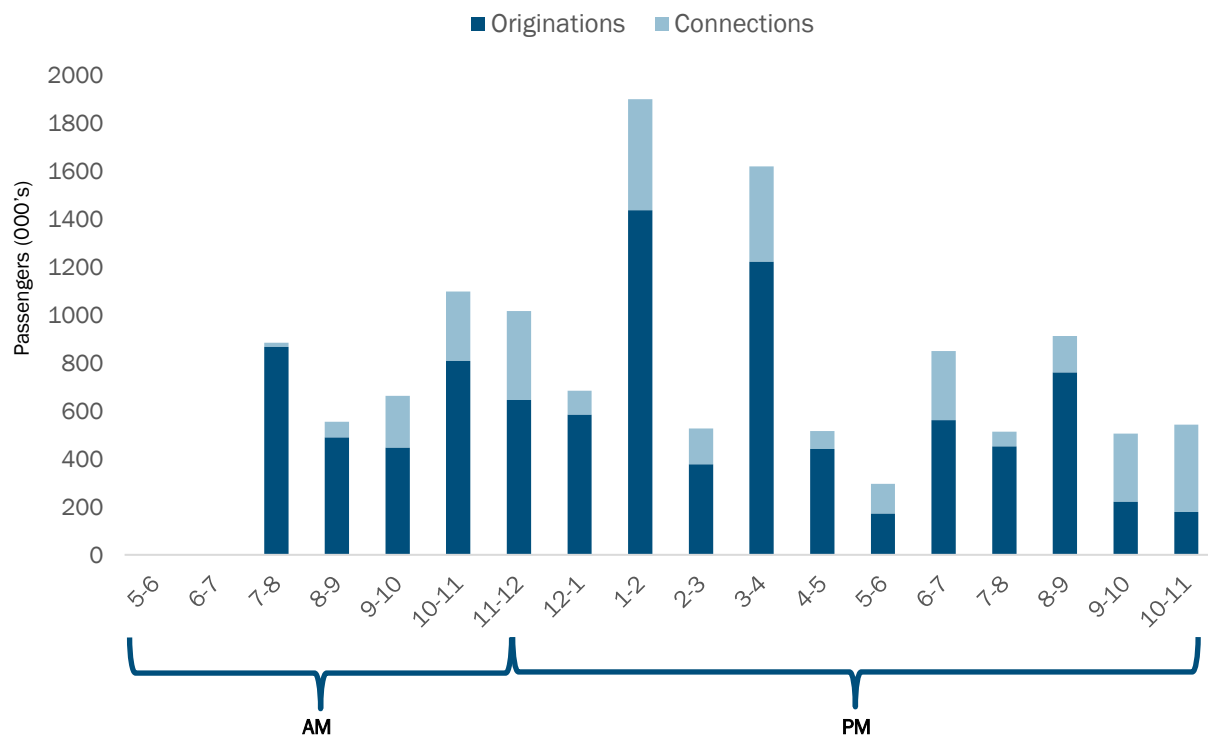


Figure 20: Diurnal Passenger Distribution at BWI

Source: Washington- Baltimore Regional Air Passenger Survey 2023

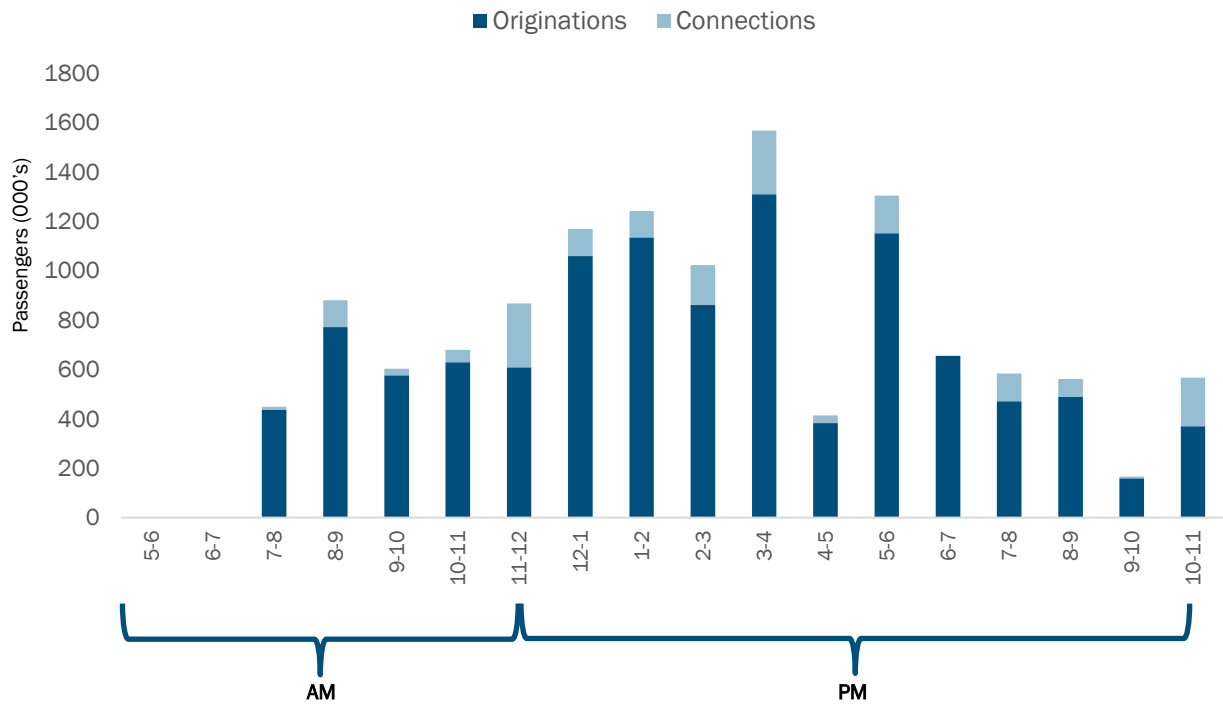


Figure 21: Diurnal Passenger Distribution at DCA

Source: Washington-Baltimore Regional Air Passenger Survey 2023

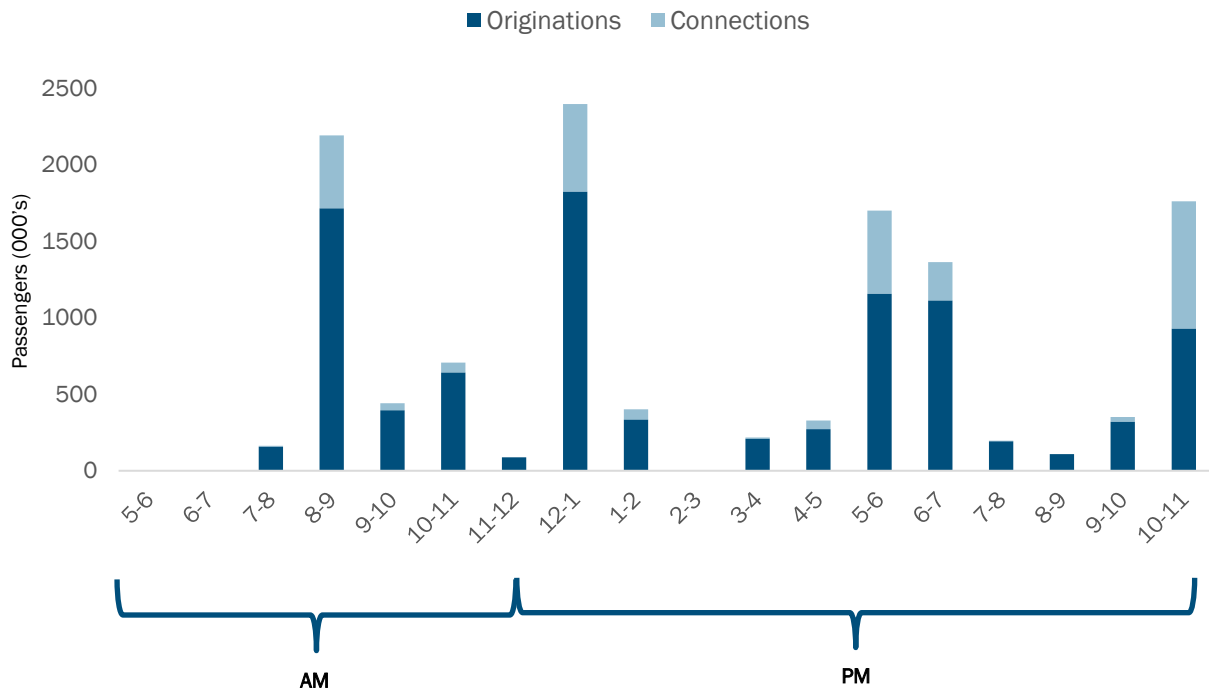


Figure 22: Diurnal Passenger Distribution at IAD

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Baltimore and Washington Subregional Cores

This section focuses on air passengers originating from the sub-regional cores of the Baltimore and Washington regions. The Washington Core is composed of the District of Columbia, Arlington County, and the City of Alexandria. The Baltimore Core consists of Baltimore City. Table 15 displays airport use by originating passengers from the Washington Core, Baltimore Core, and “All Other”, referring to the remaining AAZs within the Air System Planning region, as well as external AAZs just outside the region. Majority of the air passenger originations from the Baltimore Core traveled to BWI (92 percent). In contrast with the Baltimore Core, more Washington Core passengers traveled to airports further from their place of origin. From the Washington Core, 66 percent traveled to DCA, 24 percent to IAD and 10 percent to BWI.

Table 15: Airport Usage from Major Downtown Activity Centers (000's)

Airport Used	Baltimore Core		Washington Core		All Other		Total	
	Count	%	Count	%	Count	%	Count	%
BWI	2,191	92%	1,146	10%	9,762	40%	13,099	34%
DCA	11	0%	7,542	66%	5,182	21%	12,735	33%
IAD	187	8%	2,701	24%	9,506	39%	12,395	32%
TOTAL	2,390	100%	11,389	100%	24,450	100%	38,229	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Note 1: Washington Core includes the District of Columbia, Arlington County and the City of Alexandria. Baltimore Core includes the City of Baltimore. “All Other” includes AAZs within the Washington-Baltimore Air System Planning Region that are not part of either core, as well as external AAZ's outside the region.

Note 2: Totals may not add up to 100% due to rounding.

Business travel (for government and non-government) was the trip purpose for 29 percent of passengers from the Baltimore Core and 40 percent of passengers from the Washington Core. Business travel overall decreased in the region since the pandemic but increased in the Washington Core. Table 16 displays a breakdown of trip purpose for passengers from these centers. Business-related trips from the Washington Core are significantly higher than All Other, primarily due to the high concentration of government (federal, state, and local) and private sector employment that is located within the activity centers.

Table 16: Trip Purpose from Major Downtown Activity Centers (000's)

Trip Purpose	Baltimore Core		Washington Core		All Other		Total	
	Count	%	Count	%	Count	%	Count	%
Business (Gov't)	42	2%	1,849	16%	2,067	8%	3,958	10%
Business (Non-Gov't)	648	27%	2,755	24%	3,820	16%	7,224	19%
Vacation, Leisure or Holiday	751	31%	3,854	34%	9,366	38%	13,971	37%
Personal or Family Affairs	579	24%	1,984	17%	8,330	34%	10,892	28%
Student	336	14%	720	6%	675	3%	1,730	5%
Other	34	1%	227	2%	205	1%	466	1%
TOTAL	2,390	100%	11,389	100%	24,463	100%	38,241	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Note 1: Washington Core includes the District of Columbia, Arlington County and the City of Alexandria. Baltimore Core includes the City of Baltimore. "All Other" includes areas within the Washington-Baltimore Air System Planning Region that are not part of either core, as well as external AAZs outside the region.

Note 2: Totals may not add up to 100% due to rounding.

As presented in Table 17 below, the Baltimore Core and the Washington Core showed higher shares of air passengers originating from a hotel/motel compared with All Other, and much lower percentages leaving from a private residence. Both areas had a significant number of passengers traveling to the airport from a hotel or motel, 42 percent in the Baltimore Core and 44 percent in the Washington Core, compared with only 18 percent from All Other. Air passengers leaving from private residences followed the opposite pattern, 74 percent of passengers from All Other leaving from home, compared to 46 and 42 percent of passengers from the Baltimore and Washington Cores, respectively. Regular employment or other business locations generated 3 percent of the passengers from the Baltimore Core and 6 percent from the Washington Core.

Table 17: Trip Origin Activity from Major Downtown Activity Centers (000's)

Trip Origin	Baltimore Core		Washington Core		All Other		Total	
	Count	%	Count	%	Count	%	Count	%
Private Residence	1,104	46%	4,742	42%	18,215	74%	24,061	63%
Hotel/Motel	995	42%	5,032	44%	4,301	18%	10,328	27%
Short-Term Rental	194	8%	334	3%	489	2%	1,017	3%
Regular Employment	36	2%	264	2%	272	1%	572	1%
Other Business	26	1%	427	4%	607	2%	1,059	3%
Other	34	1%	591	5%	578	2%	1,203	3%
TOTAL	2,390	100%	11,389	100%	24,463	100%	38,241	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Note 1: Washington Core includes the District of Columbia, Arlington County and the City of Alexandria. Baltimore Core includes the City of Baltimore. "All Other" includes areas within the Washington-Baltimore Air System Planning Region that are not part of either core, as well as external AAZ's outside the region.

Note 2: Totals may not add up to 100% due to rounding.

Table 18 illustrates the mode of access breakdown for passengers traveling to the airports in 2023. TNCs were the most popular mode of transportation to airports from both the Baltimore and Washington Cores, each accounting for 43 percent each in 2023. In the Baltimore Core, TNC usage surpassed private auto usage (32 percent share) for the first time. TNCs accounted for only 19 percent in All Other.

The Washington Core had a significantly higher share of public transportation usage at 18 percent, compared to just 3 percent in the Baltimore Core and 4 percent in All Other. Taxicab usage also remained higher in the Baltimore Core (10 percent) and Washington Core (8 percent), compared to just 3 percent in All Other.

Table 18: Mode of Access from Major Downtown Activity Centers (000's)

Mode of Access	Baltimore Core		Washington Core		All Other		Total	
	N	%	N	%	N	%	N	%
Private Auto	763	32%	1,959	17%	13,450	55%	16,172	42%
Rental Auto	175	7%	632	6%	3,423	14%	4,230	11%
Taxicab	239	10%	955	8%	627	3%	1,821	5%
TNC's	1,034	43%	4,911	43%	4,657	19%	10,603	28%
Public Transportation	73	3%	2,058	18%	915	4%	3,047	8%
Airport Bus/Limousine	25	1%	40	0%	387	2%	452	1%
Other	80	3%	834	7%	1,002	4%	1,917	5%
TOTAL	2,390	100%	11,389	100%	24,463	100%	38,241	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Note 1: Washington Core includes the District of Columbia, Arlington County and the City of Alexandria. Baltimore Core includes the City of Baltimore. "All Other" includes areas within the Washington-Baltimore Air System Planning Region that are not part of either core, as well as external AAZs outside the region.

Note 2: Totals may not add up to 100% due to rounding.

Flight Destinations by Region

This section presents the distribution of departing passengers by destination region, categorized into 9 domestic regions and international destinations. These destination regions were based on the sampling methodology developed for the 2023 survey to ensure a more even distribution of destinations for each region. The percentage of passengers traveling to each destination region is detailed in Table 19 below.

Table 19: Share of Departing Passengers by Destination Region

Destination Region	%	States (United States)
South	17%	GA, NC, SC
Midwest	14%	IL, IN, IA, KS, MI, MN, MO, NE, ND, OH, SD, WI
Florida	12%	FL
South Central	10%	AR, LA, OK, TX
New England	10%	CT, MA, ME, NH, RI, VT
Mountain	7%	AZ, CO, ID, MT, NV, NM, UT, WY
West	7%	AK, CA, HI, OR, WA
Mid-Atlantic	7%	DE, MD, NJ, NY, PA, VA, WV
Southeast	3%	AL, KY, MS, TN
SUBTOTAL	86%	—
International	14%	---
TOTAL	100%	—

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note: Totals may not add up to 100% due to rounding.

The South, Midwest, and Florida regions combined received 43 percent of all departing passengers in the region. Despite encompassing only three states and 16 airports out of a total of 121 destinations, the South region accounted for 17 percent of all departing passengers, while Florida, designated as its own region, contributed 12 percent of the departing passenger volume. International travel accounted for 14 percent of all departing passengers in the region.

Table 20 shows the distribution of departing passengers by destination region and airport. At all three airports, the largest share of domestic passengers traveled to the South: 19 percent at BWI, 18 percent at DCA, and 13 percent at IAD. Meanwhile, the share of departing passengers to the Midwest represented 16 and 18 percent at BWI and DCA, respectively, but only 7 percent at IAD. Passengers heading to Florida accounted for 3 percent at IAD, compared to 18 percent at BWI and 15 percent at DCA. Conversely, departing passengers to the West region made up 13 percent of IAD's domestic passengers, but only 4 percent at both BWI and DCA. The share of international passengers at IAD was 37 percent, compared to only 5 percent at BWI and 2 percent at DCA.

Regionally, BWI and DCA together handled 92 percent of passengers flying to Florida, while IAD, representing only 24 percent of total domestic travel, accounted for 62 percent of passengers traveling to the West region. BWI and DCA had the highest share of passengers on domestic flights, and IAD had the highest share of passengers on international flights.

IAD leads in international travel, handling 84 percent of all international passengers in the region. Europe is the top international destination, representing 44 percent of all passengers on international flights, with IAD accounting for 94 percent. All flights to Asia from the region exclusively depart from IAD, highlighting its dominance in long-haul routes. At BWI, 44 percent of passengers on international flights go to North America, followed by 23 percent to Europe, while DCA exclusively serves North American destinations for international flights. Table 21 shows the complete distribution of departing passengers by international destination regions and by airport.

Table 20: Annual Departing Passengers by Destination Region and Airport

Destination Region	BWI	DCA	IAD	Region	Airport Share to Destination Region		
	%	%	%	%	BWI	DCA	IAD
South	19%	18%	13%	17%	39%	36%	26%
Midwest	16%	18%	7%	14%	39%	43%	17%
Florida	18%	15%	3%	12%	51%	41%	7%
South Central	10%	13%	8%	10%	32%	42%	26%
New England	13%	11%	4%	10%	46%	39%	15%
Mountain	9%	5%	7%	7%	43%	24%	33%
West	4%	4%	13%	7%	19%	19%	62%
Mid-Atlantic	5%	11%	5%	7%	23%	54%	22%
Southeast	3%	4%	2%	3%	32%	47%	21%
SUBTOTAL	95%	98%	63%	86%	38%	38%	24%
International	5%	2%	37%	14%	12%	4%	84%
TOTAL	100%	100%	100%	100%	34%	33%	32%

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note: Totals may not add up to 100% due to rounding.

Table 21: Annual Departing Passengers by Destination Region and Airport - International

Destination Region	BWI	DCA	IAD	Region	Airport Share to Destination Region		
	%	%	%	%	BWI	DCA	IAD
Europe	23%	0%	49%	44%	6%	0%	94%
North America	44%	100%	18%	24%	22%	16%	62%
Asia	0%	0%	21%	17%	0%	0%	100%
Other	32%	0%	12%	14%	28%	0%	72%
TOTAL	100%	100%	100%	100%	12%	4%	84%

Source: 2023 Washington-Baltimore Regional Air Passenger Survey

Note: Totals may not add up to 100% due to rounding.

APPENDIX A: SURVEY METHODOLOGY

The following is a summary of the methodology used to conduct the Washington-Baltimore Regional Air Passenger Survey 2023.

CHANGES IN METHODOLOGY

Changes From Previous Surveys

Prior to 2023, the Washington-Baltimore Regional Air Passenger Survey (APS) was conducted as a paper-based intercept survey at boarding gates using a stratified sampling approach. However, in recent APS efforts, TPB observed a decline in the overall response rate and the quality of survey responses, such as partially completed or incomplete surveys, respondents less willing to provide origin information, and survey respondent burden. Additionally, paper questionnaires increased the burden for data post-processing, requiring manual input of survey responses into a digital format to conduct weighting and tabulation processes. In response to these methodological concerns, TPB conducted a comprehensive evaluation of the APS survey methods. Based on the evaluation, TPB developed a set of actionable recommendations to implement in future air passenger surveys. TPB presented a set of recommendations to the Aviation Technical Subcommittee, which included a pretest, transition to electronic data collection, incentives to participants, and reducing item nonresponse. A review of best practices of recent airport surveys was also conducted to develop these recommendations. The 2023 APS implemented these recommendations to improve the data collection process, explained in the next section.

Changes In Data Collection Process

Electronic data collection was utilized for the 2023 APS and offered several methodological advantages compared with a paper-based survey, such as incorporating skip logic and streamlining the data collection process, reducing respondent burden for passengers, and reducing the time for performing data post-processing and analysis. A web-based survey instrument was developed for each airport and was designed to allow surveys to be completed directly on mobile devices such as smartphones and tablets. The web survey included an interactive map/address interface for collection of ground access trip origin location that would allow for these locations to be mapped to Aviation Analysis Zones (AAZs). To maintain the previous participation rate, extensive adjustments were made throughout the entire process. Modifications were implemented in the survey design and sample selection to ensure the algorithm followed logical steps and included pertinent questions to maximize response rates while gathering relevant information. In the data collection phase, among many changes, a pretest was conducted to evaluate the efficacy of the new approach, gathering insights from passengers, data collectors, and COG staff. This allowed data collectors and staff to anticipate potential issues and undertake corrective measures before executing the full-scale survey. Technical details on the survey design and sampling approach can be found in Appendix A.

OPERATIONAL DATA COLLECTION

Pretest

A pretest was conducted at Washington Dulles International Airport (IAD) on April 18, 19, 28, and 30, 2023. The activities undertaken to complete the pretest were hiring, badging, training, and drawing sampled flights. During the pretest, 32 flights were surveyed, comprising 12 international and 20 domestic flights. Key insights from the pretest encompassed several critical areas:

-
- Training proved indispensable in familiarizing data collectors with airport security protocols, pre- and post-survey procedures, and strategies for handling uncooperative passengers, among other necessary aspects crucial for survey success.
 - Determining the optimal coverage time and staffing for each flight based on the total available seats per aircraft.
 - Establishing effective communication channels between data collectors and project managers.
 - Identifying the most effective method for appropriately addressing gate agents and identifying the necessary documentation to legitimize the survey.
 - Identifying passengers' preference for using personal devices over tablets for survey completion.
 - Identifying the optimal approach for efficiently submitting survey information to the dashboard, hence streamlining data entry, and enabling real-time monitoring.
-

The pretest yielded several key findings that resulted in various improvements that were implemented in the full-scale survey effort:

- **Onboarding, hiring, and badging:** Recruitment of field staff and the badging process were some of the challenging aspects of this survey. Therefore, fielding dates should be selected prior to the start of recruitment and additional time should be allocated for the badging process.
- **Training of data collectors and supervisors:** Provide additional hours to allow for a three-day training (instead of one day) to allow field staff and supervisors to undergo a more comprehensive training in the classroom and on-site at the airports.
- **Staff resources and scheduling:** Provide a more even distribution of sampled flights throughout the day, increase staffing hours to allow for earlier arrival times at the gate, and have at least two data collectors at each gate.
- **Sampling:** Increase size of field staff to allow more flexible scheduling and to minimize the overlapping of large flights to the extent possible.
- **Data collector supply and materials:** Provide supply kits to data collectors such as clipboard, hand counters, cinch bag, etc. Hand counters allowed for easier tracking of intercepted passengers.
- **Print materials:** Prioritize the use of the business card to encourage passengers to scan the QR code to take the survey on their mobile devices.
- **Questionnaire:** Modify question wording and options for certain questions to improve clarity and survey response rates.

- **Data collector protocol:** Update modules to reflect methods, tips, and tricks learned during the pretest and add skip option to quickly navigate to core questions for refusals.
- **Tablet:** Reduce the number of tablets to one per gate instead of one per data collector, as most pretest respondents opted to use their own mobile devices to take the survey.
- **Communication during fielding:** Set up group text and teams conference line to improve communications between field staff and project team.

Full-Scale Survey

In October 2023, a comprehensive full-scale survey was conducted simultaneously across the three primary airports within the Washington/Baltimore region, at Baltimore/Washington International Thurgood Marshall Airport (BWI), Ronald Reagan Washington National Airport (DCA) and Washington Dulles International Airport (IAD). Initial training sessions were conducted during the first week, from October 3 to 5, followed by the execution of the full-scale survey during the subsequent two weeks, from Sunday, October 8, to Saturday, October 21. The survey concluded with a re-survey period in the final week from October 25 to 31.

To facilitate the survey process, a team of 3 supervisors and 20 data collectors was assembled across all three airports, further supported by 5 members of the contractor project management team and 3 COG staff members. Initially, a targeted sample of 563 flights was designated for comprehensive data collection over the course of two weeks, resulting in a total of 373 flights surveyed—comprising 315 domestic and 58 international flights. Subsequently, during the re-survey period, a subset of 113 flights was identified for interview over a duration of 6 days, leading to a total of 486 flights surveyed — 417 domestic and 69 international flights. The 3-week data collection period finalized with a total of 486 flights and 18,310 passengers who initiated the survey.

Based on findings from the pretest, the following procedures were implemented throughout the phases of data collection: pre-, during, and post-collection:

Activities Before Data Collection:

Interviewer Training

The interviewer training program was a comprehensive one-day program designed to equip the data collection team with the necessary knowledge and skills to conduct the study effectively. The interviewer training program ensured a successful data collection process by covering essential topics. It familiarized the team with the study's background, individual roles and responsibilities, and standardized interview protocols. Training also addressed effective questioning techniques, leveraging airport documents, and using tablets for data collection. Finally, the program prepared the team for potential challenges encountered in the field.

Onsite Airport Training

In addition to the core training program, a half-day, on-site training session was conducted at each participating airport specifically for the personnel assigned to data collection at that location. This training aimed to familiarize the team with the airport's physical layout, including terminal locations and passenger flow patterns, as well as knowledge of the specific gate locations relevant to the data collection process. It also covered important information on security procedures, including passenger screening protocols, restricted areas within the airport, and proper conduct while navigating security checkpoints.

Activities During Data Collection:

Data Collection

- **Preparation at the Gate:** Data collectors arrived early (1.5 hours domestic, 2.5 hours international) to introduce themselves and presented their ID and a survey letter to the gate agent. This verified the survey's legitimacy and gained cooperation. They confirmed flight details and requested the agent to announce the survey twice before boarding to raise passenger awareness.
- **Passenger Interaction:** Data collectors positioned at the gate approached passengers over the age of 18 flying on the selected flight. They explained the survey and offered two options: completing it on a tablet or using a link/QR code on their personal mobile device later. This catered to passenger preferences and increased participation flexibility. A hand clicker tracked the number of passengers intercepted at the gate.
- **Wrap-up and Data Entry:** After boarding, data collectors confirmed the total number of revenue passengers with the gate agent for calculating participation rates. They thanked the agent for their assistance. Finally, within an hour of the flight's departure, data collectors entered participation data (number intercepted, number completing) into a web form.
- **Tracking and Issue Identification:** Data collectors entered key metrics after each flight, including airport, flight number, comments, number approached, and total revenue passengers. This data was automatically transmitted to a real-time PowerBI dashboard (Figure 2). The dashboard analyzed data and calculated response rates for both intercepted and revenue passengers. It tracked other metrics such as missed flights, completions (field and personal devices), and refusals. The PowerBI dashboard identified potential issues such as missed flights, operational problems (gate agent issues, schedule changes, cancellations), and areas where data collectors needed more training.

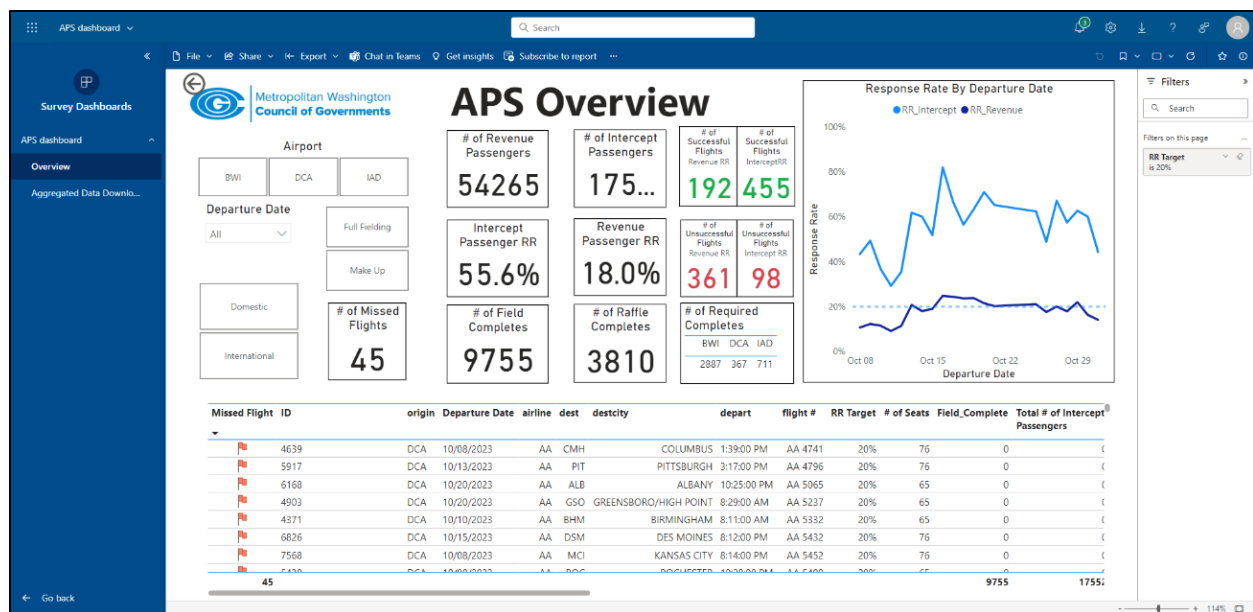


Figure 23: Data Collection Tracker - PowerBI Dashboard

Source: Metropolitan Washington Council of Governments (MWCOG)

COG staff on site

A COG staff member served as an on-site observer during data collection at the airport. Their primary function was to verify that interviewers adhered to established protocols. If any inconsistencies with protocol were observed, COG staff would promptly communicate them to the field staff, facilitating swift corrective action and ensuring the integrity and accuracy of the data collection process.

COG staff reviewing on real time data collected

COG staff closely monitored the real-time data stream throughout the data collection process. This enabled them to identify any anomalies or missing data points promptly. By analyzing participation rates and potential inconsistencies, they ensured the overall quality and effectiveness of the data collection effort.

Creation of sample for resurvey period

Real-time data monitoring played a crucial role in identifying flights that required resurveying. By analyzing participation rates and response metrics, COG staff pinpointed flights that fell below a certain threshold or experienced operational issues. This allowed for the prompt creation of a targeted sample list for the resurvey period, ensuring a complete and representative dataset.

Activities After Data Collection:

After the successful collection of data from passengers, the next crucial step involved meticulously processing the information. This processing, which were carefully reviewed in the data processing section, transformed the raw data into a usable format, enabling in-depth analysis and extraction of key insights and findings.

FACTORING THE SURVEY DATA

Since the survey was conducted in October, and not continuously throughout the calendar year, the survey data did not reflect any specific annual period. Rather, the survey as it was conducted represented a “snapshot” of passenger activity, taken during the fall travel period, which was intended to be representative of a “typical” period of air travel that is outside of the peak summer and holiday travel seasons.

The survey responses were expanded to represent annual passenger estimates by a three-step process. The survey responses obtained on each sampled flight were first factored up to the boarding count totals (revenue passengers only). This number was obtained from the gate attendant at the closing of each flight. Second, the factored survey responses were expanded to represent bi-weekly passenger totals. Finally, observed annual enplanement of regional air travel was obtained from MWAA for DCA and IAD and from MAA for BWI.

SURVEY QUESTIONNAIRE

The airports have experienced numerous changes in recent years, particularly in their procedures for baggage handling, security lanes, and boarding pass protocols. Additionally, there has been a combined effort to assess whether there has been a substantial shift in passenger travel behavior to the airport, both before and after the pandemic. These changes underscore the importance of gaining a comprehensive understanding of these evolving dynamics.

To address this need and ensure the survey data reflects state of the practice in airport surveys, new questions were added to the questionnaire in 2023, including questions about typical mode of travel pre- and post-pandemic, airport security lane used, baggage check-in preferences, and method of obtaining boarding pass.

Furthermore, the 2023 survey offered a gift card incentive to promote survey participation. Upon survey completion, participants were asked to be entered into a raffle for a chance to win a \$500 Amazon Gift Card. This strategy aimed to not only increase engagement but also cultivate a sense of interest and motivation among respondents. The incentive for this survey was a raffle for two \$500 Amazon gift cards at each of the three airports. Additionally, the reappearance of skipped questions during the raffle section served to enhance the completion rate of the questionnaire, resulting in the collection of more comprehensive data.

APPENDIX B: SURVEY MATERIALS FOR BALTIMORE/WASHINGTON INTERNATIONAL THURGOOD MARSHALL AIRPORT (BWI)

B-1 - Business Card

B-2 - 2023 Washington-Baltimore Regional Air Passenger Survey Questionnaire (BWI)

***Note:** Questions that start with "R" indicate that the answer was required to participate in the raffle.

B-3 - MAA Letter of Support

B-4- MAA Tenant Information Advisory

Appendix B-1: Business Card

Baltimore/Washington International Thurgood Marshall Airport (BWI)

2023 Washington-Baltimore Regional Air Passenger Survey	Airport: BWI
<p>We value your input! Your responses to this survey will help improve travel options to this airport. To complete the survey and be entered into a raffle for a \$500 Amazon Gift Code, please visit our URL or scan the QR Code.</p> <p>www.BWIAirSurvey.com</p> 	<p>2023 Washington-Baltimore Regional Air Passenger Survey</p> <p>Who is conducting the survey? This survey is being conducted in partnership by the Metropolitan Washington Airports Authority, Maryland Aviation Administration, and the Metropolitan Washington Council of Governments.</p> <p>Is this a customer satisfaction survey? No. The purpose of this survey is to learn about and improve travel options to the Washington-Baltimore regional airports. Your flight was randomly selected to participate in this survey.</p> <p>How long will the survey take? The survey will only take 10 minutes.</p>
<p>Participation is voluntary and answers are confidential. Thank you for your participation. Safe travels!</p>	<p>Participation is voluntary and answers are confidential. Thank you for your participation. Safe travels!</p>

Appendix B-2: 2023 Washington-Baltimore Regional Air Passenger Survey Questionnaire

Baltimore/Washington International Thurgood Marshall Airport (BWI)

You and the other passengers on your flight are invited to participate in the 2023 Washington-Baltimore Regional Air Passenger Survey. Your responses to this survey will help improve travel options to this airport.

Your participation in this survey is completely voluntary and it will take about 10 minutes of your time. As a thank you for fully completing the survey, you may choose to enter a raffle to win a \$500 gift card. All responses will be compiled together and analyzed as a group to protect your confidentiality.

This survey is being conducted in partnership between the Maryland Aviation Administration, the Metropolitan Washington Airports Authority, and the Metropolitan Washington Council of Governments.

TITLE VI NONDISCRIMINATION POLICY

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

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

Direct general questions about the survey to RegionalAirPassengerSurvey@mwccog.org, and direct technical questions about this web-based interface to Nicholas.Book@icf.com

If you consent to participate, select, “yes, I consent” below.

Yes, I consent _ Continue the survey

No _ Finish the survey

AIRLINE AND FLIGHT

R-Q1. What airline are you taking today? _ DROP DOWN

1. Air Canada
2. Allegiant Air
3. American Airlines
4. Avelo Airlines
5. British Airways
6. Other airline

R-Q2. What is the flight number?

Option 1 _ DROP DOWN

1. 8681
2. 1395
3. 1036
4. 1213
5. 2750

Option 2: My flight is not listed _ TEXT BOX

What is your flight number? _ TEXT BOX

ABOUT YOUR TRIP TODAY

R-Q-A1. How did you get to Baltimore/Washington International Marshall Airport for this trip?

1. By GROUND TRANSPORTATION (e.g., car, taxi, ride-hailing, Metro, etc.) _ Continue the survey Q-A2
2. I was on this flight when it arrived at this airport. _ Finish the survey
3. I made a connection at this airport from a DOMESTIC FLIGHT. _ Finish the survey
 - a. With which airline did you fly in today? _ Finish the survey
4. I made a connection at this airport from an INTERNATIONAL FLIGHT. _ Finish the survey
 - a. With which airline did you fly in today? _ Finish the survey

R-Q-A2. What is the final destination for your travel (following air travel and any additional connections for ground transportation)? For countries outside of the United States, delete “United States” and begin typing for a drop down list of countries and select country. _ list all countries _ DROP DOWN

1. United States _ Continue the survey Q-A2a
2. Afghanistan _ Continue the survey Q-A3
3. Albania _ Continue the survey Q-A3
4. Algeria _ Continue the survey Q-A3
5. Andorra _ Continue the survey Q-A3

Q-A2a. State/Territory _ list all State/Territory of the US _ DROP DOWN

1. Alabama (AL)
2. Alaska (AK)
3. American Samoa (AS)

Q-A2b. City _ TEXT BOX

Q-A3. What is the primary purpose of your trip?

1. Business related to the federal government (including military)
2. Business related to state or local government
3. Business that is not related to government
4. Leisure, vacation, or holiday
5. Personal or family affairs
6. Student or school related
7. Other, please specify _ TEXT BOX

B. ABOUT YOUR GROUND TRIP TO BALTIMORE/WASHINGTON INTERNATIONAL MARSHALL AIRPORT

Q-B1. To help us understand your route to the airport and plan improvements, what is the approximate location of the place you started your ground trip to this airport?

1. My home
2. Someone else's home
3. Hotel/Motel
4. Short term rental (e.g., Airbnb, VRBO)
5. My regular place of employment
6. Another place of business
7. Other, please specify _ TEXT BOX

Q-B2. What is the location of the place you started your trip today? You can also drag and drop a pin in the general area of the location on the map.

Option to search the address on google maps. _ TEXT BOX

Q-B3. What time did you begin your trip to the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM
4. 12:45 AM

Q-B4. What time did you arrive at the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM
4. 12:45 AM

R-Q-B5. INCLUDING YOURSELF, how many people who came to the airport with you are on your flight today? _ DROP DOWN

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8 or more. Type a number between 8 and 99. _ TEXT BOX

R-Q-B6. What was your primary mode of travel to this airport today?

1. Private Car _ Continue the survey Q-B6a, Q-B6b, Q-B6c, and Q-B6d
2. Rented Car _ Continue the survey Q-B6a
3. Taxi _ Continue the survey Q-B6a
4. Ride-hailing (e.g., Uber, Lyft) _ Continue the survey Q-B6a
5. Airport van/limo (e.g., SuperShuttle)
6. Hotel/Motel courtesy bus
7. Amtrak/MARC
8. Light Rail
9. Metrobus/MTA Bus/RTA Bus
10. Walked from place where your trip started today
11. Biked from place where your trip started today
12. Other, please specify _ TEXT BOX

Q-B6a. Did you carpool with someone else?

1. Yes
2. No

Q-B6b. Were you dropped off at the terminal curbside?

1. Yes
2. No

Q-B6c. Where was that vehicle parked (after drop-off)?

1. It was not parked
2. Hourly garage
3. Express parking
4. Daily garage
5. Long term parking lot A or B
6. BWI Rail Station garage
7. Valet parking
8. Off-airport private parking
9. Other, please specify _ TEXT BOX

Q-B6d. Did you plug into an Electric Vehicle (EV) charging station?

1. Yes
2. No

Q-B7. What was your MAIN reason for choosing your mode of GROUND transportation to this airport TODAY?

1. Cost
2. Reliability
3. Travel Time
4. Convenience
5. Comfort
6. Other, please specify _ TEXT BOX

C. ABOUT YOUR AIRPORT CHOICE

Q-C1. Rank the three most important reasons for choosing Baltimore/Washington International Marshall Airport for your flight today. Please drag your top 3 choices into the empty box to indicate your answers.

1. Closest airport
2. Easy road access
3. Easy access by Metrorail or public transit
4. Convenient van/limo or shuttle bus service
5. Good parking facilities
6. More convenient flight times
7. Less expensive airfare
8. Only airport with non-stop flights
9. Only airport that serves my destination
10. Frequent flyer/airline loyalty program
11. Other _ Continue the survey Q-C1a

Q-C1a. Please specify any other reasons for choosing Baltimore/Washington International Marshall Airport for your flight today. _ TEXT BOX

Q-C2. Rank the region's airports in your order of preference. Please drag your top 3 choices into the empty box to indicate your answers.

1. Washington Dulles International (IAD)
2. Reagan Washington National (DCA)
3. Baltimore/Washington International Marshall (BWI)

D. ABOUT YOURSELF

We have a few additional questions to ask which will help us improve transportation options to this airport. **It will be treated with strict confidentiality.**

Q-D1. Are you visiting the local area or do you live here?

1. Visiting the Washington-Baltimore area _ Continue the survey Q-D1a

Q-D1a. How many nights did you stay in the area? Type "0" if you arrived today. _ TEXT BOX

2. Live in the Washington-Baltimore area _ Continue the survey Q-D1b

Q-D1b. How many nights will you be away? Type "0" if you will return today. _ TEXT BOX

R-Q-D2. What is the location of your current residence? For countries outside of the United States, delete "United States" and begin typing for a drop down list of countries and select country. Country: _ list all countries _ DROP DOWN

1. United States _ Continue the survey Q-D2a, Q-D2b, Q-D2c
2. Afghanistan _ Continue the survey Q-D3
3. Albania _ Continue the survey Q-D3
4. Algeria _ Continue the survey Q-D3
5. Andorra _ Continue the survey Q-D3

Q-D2a. State/Territory _ list all State/Territory of the US _ DROP DOWN

1. Alabama (AL)
2. Alaska (AK)
3. American Samoa (AS)

Q-D2b. City _ TEXT BOX

Q-D2c. Zip Code _ TEXT BOX

These last few questions about yourself will help us improve transportation options to this airport and your answers will be de-identified and kept strictly confidential.

Q-D3. How many people live in your household, including yourself? _ DROP DOWN

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8 or more

Q-D4. Select your age group:

1. Under 18 years old _ Finish the survey
2. 18 – 24 years old
3. 25 – 34 years old
4. 35 – 44 years old
5. 45 – 54 years old
6. 55 – 64 years old
7. 65 years or older

Q-D5. What is your household's total annual income?

1. Less than \$25,000
2. \$25,000--\$49,999
3. \$50,000--\$99,999
4. \$100,000--\$149,999
5. \$150,000--\$199,999
6. \$200,000 or more

Describe your typical mode of travel to this airport:

Q-D6. Before the COVID-19 pandemic (i.e., before March 2020)?

1. Drive by yourself or with a family member, friend, etc.
2. Taxi or ride-hail (e.g., Uber, Lyft)
3. Public transit
4. Other, please specify _ TEXT BOX
5. Not applicable/do not live in the region.

Q-D7. Now and in the future?

1. Drive by yourself or with a family member, friend, etc.
2. Taxi or ride-hail (e.g., Uber, Lyft)
3. Public transit
4. Other, please specify _ TEXT BOX

Q-D8. Why has your mode of travel changed? _ TEXT BOX

E. YOUR EXPERIENCE AT THE AIRPORT

Q-E1. Which TSA security lane did you use?

1. Regular
2. TSA PreCheck
3. CLEAR
4. Priority

Q-E2. Where did you check your baggage?

1. Curbside
2. Kiosk
3. Ticket counter agent
4. Gate agent
5. Did not check baggage

Q-E3. Where did you obtain your boarding pass for your flight?

1. Mobile boarding pass from cell phone or tablet
2. Printed boarding pass at kiosk
3. Printed boarding pass from airport ticket counter
4. Printed boarding pass at home
5. Other, please specify _ TEXT BOX

Q-E4. How much did you spend on airport concessions during your visit? (Include expenses only within the airport terminal area such as food, souvenirs, spa visit, etc. Do not include expenses outside of the airport terminal area such as parking.)

1. \$0
2. \$1–\$24
3. \$25–\$49
4. \$50–\$99
5. \$100 or more

F. RAFFLE

Q-F1. Do you wish to provide contact information to be included in the raffle for the gift card?

1. Yes
2. No _ Finish the survey

Please answer the following questions to participate in the raffle.

R-Q-F2. What is the primary purpose of your trip?

1. Business related to the federal government (including military)
2. Business related to state or local government
3. Business that is not related to government
4. Leisure, vacation, or holiday
5. Personal or family affairs
6. Student or school related
7. Other, please specify _ TEXT BOX

R-Q-F3. To help us understand your route to the Airport and plan improvements, what is the approximate location of the place you started your ground trip to this airport?

1. My home
2. Someone else's home
3. Hotel/Motel
4. Short term rental (e.g., Airbnb, VRBO)
5. My regular place of employment
6. Another place of business
7. Other, please specify _ TEXT BOX

R-Q-F4. What is the location of the place you started your trip today? You can also drag and drop a pin in the general area of the location on the map.

Option to search the address on google maps. _ TEXT BOX

R-Q-F5. What time did you begin your trip to the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM

R-Q-F6. What time did you arrive at the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM

If you wish to be entered into the raffle drawing, please provide contact information below:

R-Q-F7. First and Last Name _ TEXT BOX

R-Q-F8. Email _ TEXT BOX

R-Q-F9. Phone (10-digit US numbers only, no dashes or spaces) _ TEXT BOX

R-Q-F10. Please write any comments you would like to share. _ TEXT BOX

Appendix B-3: MAA Letter of Support

Baltimore/Washington International Thurgood Marshall Airport (BWI)



Wes Moore
Governor
Aruna Miller
Lieutenant Governor
Paul J. Wiedefeld
Acting Secretary
Ricky D. Smith, Sr.
Executive Director

September 26, 2023

Dear BWI Marshall Gate Agent:

The 2023 Baltimore-Washington Regional Air Passenger Survey is being conducted in partnership between the Maryland Aviation Administration (MAA), the Metropolitan Washington Airports Authority, and the Metropolitan Washington Council of Governments (MWCOG). The purpose of this survey is to help improve how people travel to/from the airports in Baltimore-Washington metropolitan area.

- The MWCOG survey will be conducted at various gates throughout the Baltimore/Washington International Thurgood Marshall Airport (BWI Marshall) the *entire month of October 2023*.

Trained survey staff will approach passengers at selected gates to invite them to participate in a survey using a handheld tablet or a personal mobile device using a QR code. The survey will take passengers about ten minutes to complete. Participation in the survey is voluntary and the responses from the survey will be only used for airport planning and regional transportation planning purposes. Passengers who do not have enough time to complete the survey before their flight will be handed a business card with the QR code.

Survey staff will arrive at the gate about 1 to 1.5 hours prior to the scheduled departure time of the flight. They will introduce themselves to the gate agents and ask them to read an announcement twice before the pre-board announcements. Survey staff will be required to complete a full day of orientation and training to ensure that proper protocols are being followed so that it is not disruptive to gate agents and passengers.

The MAA requests your cooperation in allowing survey staff to approach passengers at the gates prior to boarding for the survey period, beginning October 1st. Questions or concerns about the Regional Air Passenger Survey should be directed to the MWCOG at RegionalAirPassengerSurvey@mwkog.org. If you have any questions or need additional information, please contact me directly at sames@bwiairport.com or 410-859-7089.

Sincerely,

Shawn P. Ames, C.M.
Deputy Director, Office of Planning & Environmental Services

Enclosures

Appendix B-4: MAA Tenant Information Advisory

Baltimore/Washington International Thurgood Marshall Airport (BWI)



TENANT INFORMATION ADVISORY

Retention: November 17, 2023

September 26, 2023

23-040

AIRLINE BOARDING AREA PASSENGER SURVEYS

Beginning October 1 through October 31, the Metropolitan Washington Council of Governments (MWCOC) will survey passengers in boarding areas at BWI Marshall Airport. The Regional Air Passenger Survey is sponsored by the region's three airports (BWI, DCA, and IAD) and FAA. The surveys are performed by MWCOC staff and contract personnel. The survey effort will collect information on passenger profiles relative to local origination and mode of access. This detail is essential for airport and regional planners in monitoring trends and planning for proactive ground transportation solutions.

During the survey period MWCOC surveyors will approach agents at gates to request assistance with the following:

- Reading survey announcement over the sound system
- Reporting revenue passenger counts

Surveyors will approach passengers before the boarding process commences to conduct passenger surveys. An email will be sent this week to station managers with the desired boarding announcement.

All survey team members will be badged, but they are not expected to be wearing any vests. The point of contact is Olga Perez Pelaez at 202-962-3265. Alternatively, you may contact Shawn Ames, MAA Office of Planning, at 410-859-7089 or 410-404-3059.

**ELECTRONIC COPY
ORIGINAL ON FILE IN
AIRPORT OPERATIONS**

Gregory W. Solek
Director
Office of Airport Operations

DISTRIBUTION: B

MARYLAND AVIATION ADMINISTRATION
P. O. Box 8786, Baltimore/Washington International Airport, Maryland 21240

APPENDIX C - SURVEY MATERIALS FOR RONALD REAGAN WASHINGTON NATIONAL AIRPORT (DCA)

C-1 - Business Card

C-2 - 2023 Washington-Baltimore Regional Air Passenger Survey Questionnaire (DCA)

***Note:** Questions that start with "R" indicate that the answer was required to participate in the raffle.

C-3 - MWA Letter of Support

C-4- MWA Staff Bulletins

Appendix C-1: Business Card

Ronald Reagan Washington National Airport (DCA)

2023 Washington-Baltimore Regional Air Passenger Survey

Airport: DCA

We value your input!

Your responses to this survey will help improve travel options to this airport. To complete the survey and be entered into a raffle for a \$500 Amazon Gift Code, please visit our URL or scan the QR Code.

www.DCAAirSurvey.com



Participation is voluntary and answers are confidential.
Thank you for your participation. Safe travels!

2023 Washington-Baltimore Regional Air Passenger Survey

Airport: DCA

Who is conducting the survey?

This survey is being conducted in partnership by the Metropolitan Washington Airports Authority, Maryland Aviation Administration, and the Metropolitan Washington Council of Governments.

Is this a customer satisfaction survey?

No. The purpose of this survey is to learn about and improve travel options to the Washington-Baltimore regional airports. Your flight was randomly selected to participate in this survey.

How long will the survey take?

The survey will only take 10 minutes.

Participation is voluntary and answers are confidential.
Thank you for your participation. Safe travels!

Appendix C-2: 2023 Washington-Baltimore Regional Air Passenger Survey Questionnaire

Ronald Reagan Washington National Airport (DCA)

You and the other passengers on your flight are invited to participate in the 2023 Washington-Baltimore Regional Air Passenger Survey. Your responses to this survey will help improve travel options to this airport.

Your participation in this survey is completely voluntary and it will take about 10 minutes of your time. As a thank you for fully completing the survey, you may choose to enter a raffle to win a \$500 gift card. All responses will be compiled together and analyzed as a group to protect your confidentiality.

This survey is being conducted in partnership between the Maryland Aviation Administration, the Metropolitan Washington Airports Authority, and the Metropolitan Washington Council of Governments.

TITLE VI NONDISCRIMINATION POLICY

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

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

Direct general questions about the survey to RegionalAirPassengerSurvey@mwkog.org, and direct technical questions about this web-based interface to Nicholas.Book@icf.com

If you consent to participate, select, “yes, I consent” below.

Yes, I consent _ Continue the survey

No _ Finish the survey

AIRLINE AND FLIGHT

R-Q1. What airline are you taking today? _ DROP DOWN

1. Air Canada
2. Alaska Airlines
3. American Airlines
4. Delta Air Lines
5. Frontier Airlines
6. Jetblue

R-Q2. What is the flight number?

Option 1 _ DROP DOWN

1. 8785
2. 8822
3. 8870
4. 5
5. 7

Option 2: My flight is not listed _ TEXT BOX

What is your flight number? _ TEXT BOX

A. ABOUT YOUR TRIP TODAY

R-Q-A1. How did you get to Ronald Reagan Washington National Airport for this trip?

1. By GROUND TRANSPORTATION (e.g., car, taxi, ride-hailing, Metro, etc.) _ Continue the survey Q-A2
2. I was on this flight when it arrived at this airport. _ Finish the survey
3. I made a connection at this airport from a DOMESTIC FLIGHT. _ Finish the survey
 - a. With which airline did you fly in today? _ Finish the survey
4. I made a connection at this airport from an INTERNATIONAL FLIGHT. _ Finish the survey
 - a. With which airline did you fly in today? _ Finish the survey

R-Q-A2. What is the final destination for your travel (following air travel and any additional connections for ground transportation)? For countries outside of the United States, delete “United States” and begin typing for a drop down list of countries and select country. _ list all countries _

DROP DOWN

1. United States _ Continue the survey Q-A2a
 2. Afghanistan _ Continue the survey Q-A3
 3. Albania _ Continue the survey Q-A3
 4. Algeria _ Continue the survey Q-A3
 5. Andorra _ Continue the survey Q-A3
- Q-A2a.** State/Territory _ list all State/Territory of the US _ DROP DOWN
1. Alabama (AL)
 2. Alaska (AK)
 3. American Samoa (AS)
- Q-A2b.** City _ TEXT BOX

Q-A3. What is the primary purpose of your trip?

1. Business related to the federal government (including military)
2. Business related to state or local government
3. Business that is not related to government
4. Leisure, vacation, or holiday
5. Personal or family affairs
6. Student or school related
7. Other, please specify _ TEXT BOX

B. ABOUT YOUR GROUND TRIP TO RONALD REAGAN WASHINGTON NATIONAL AIRPORT

Q-B1. To help us understand your route to the airport and plan improvements, what is the approximate location of the place you started your ground trip to this airport?

1. My home
2. Someone else's home
3. Hotel/Motel
4. Short term rental (e.g., Airbnb, VRBO)
5. My regular place of employment
6. Another place of business
7. Other, please specify _ TEXT BOX

Q-B2. What is the location of the place you started your trip today? You can also drag and drop a pin in the general area of the location on the map.

Option to search the address on google maps. _ TEXT BOX

Q-B3. What time did you begin your trip to the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM
4. 12:45 AM

Q-B4. What time did you arrive at the airport today? _ DROP DOWN 12:00 AM

1. 12:15 AM
2. 12:30 AM
3. 12:45 AM

R-Q-B5. INCLUDING YOURSELF, how many people who came to the airport with you are on your flight today? _ DROP DOWN

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8 or more. Type a number between 8 and 99. _ TEXT BOX

R-Q-B6. What was your primary mode of travel to this airport today?

1. Private Car _ Continue the survey Q-B6a, Q-B6b, Q-B6c, and Q-B6d
2. Rented Car _ Continue the survey Q-B6a
3. Taxi _ Continue the survey Q-B6a
4. Ride-hailing (e.g., Uber, Lyft) _ Continue the survey Q-B6a
5. Airport van/limo (e.g., SuperShuttle)
6. Hotel/Motel courtesy bus
7. Metrorail
8. VRE
9. Metrobus
10. Walked from place where your trip started today
11. Biked from place where your trip started today
12. Other, please specify _ TEXT BOX

Q-B6a. Did you carpool with someone else?

1. Yes
2. No

Q-B6b. Were you dropped off at the terminal curbside?

1. Yes
2. No

Q-B6c. Where was that vehicle parked (after drop-off)?

1. It was not parked
2. Short term/hourly parking lot
3. Long term/daily parking garage
4. Long term/economy parking lot
5. Valet parking
6. Off-airport private parking
7. Other, please specify _ TEXT BOX

Q-B6d. Did you plug into an Electric Vehicle (EV) charging station?

1. Yes
2. No

Q-B7. What was your MAIN reason for choosing your mode of GROUND transportation to this airport TODAY?

1. Cost
2. Reliability
3. Travel Time
4. Convenience
5. Comfort
6. Other, please specify _ TEXT BOX

C. ABOUT YOUR AIRPORT CHOICE

Q-C1. Rank the three most important reasons for choosing Ronald Reagan Washington National Airport for your flight today. Please drag your top 3 choices into the empty box to indicate your answers.

1. Closest airport
2. Easy road access
3. Easy access by Metrorail or public transit
4. Convenient van/limo or shuttle bus service
5. Good parking facilities
6. More convenient flight times
7. Less expensive airfare
8. Only airport with non-stop flights
9. Only airport that serves my destination
10. Frequent flyer/airline loyalty program
11. Other _ Continue the survey Q-C1a

Q-C1a. Please specify any other reasons for choosing Ronald Reagan Washington National Airport for your flight today. _ TEXT BOX

Q-C2. Rank the region's airports in your order of preference. Please drag your top 3 choices into the empty box to indicate your answers.

1. Washington Dulles International (IAD)
2. Reagan Washington National (DCA)
3. Baltimore/Washington International Marshall (BWI)

D. ABOUT YOURSELF

We have a few additional questions to ask which will help us improve transportation options to this airport. **It will be treated with strict confidentiality.**

Q-D1. Are you visiting the local area or do you live here?

1. Visiting the Washington-Baltimore area _ Continue the survey Q-D1a

Q-D1a. How many nights did you stay in the area? Type "0" if you arrived today. _ TEXT BOX

2. Live in the Washington-Baltimore area _ Continue the survey Q-D1b

Q-D1b. How many nights will you be away? Type "0" if you will return today. _ TEXT BOX

R-Q-D2. What is the location of your current residence? For countries outside of the United States, delete "United States" and begin typing for a drop down list of countries and select country. Country: _ list all countries _ DROP DOWN

1. United States _ Continue the survey Q-D2a, Q-D2b, Q-D2c
2. Afghanistan _ Continue the survey Q-D3
3. Albania _ Continue the survey Q-D3
4. Algeria _ Continue the survey Q-D3
5. Andorra _ Continue the survey Q-D3

Q-D2a. State/Territory _ list all State/Territory of the US _ DROP DOWN

1. Alabama (AL)
2. Alaska (AK)
3. American Samoa (AS)

Q-D2b. City _ TEXT BOX

Q-D2c. Zip Code _ TEXT BOX

These last few questions about yourself will help us improve transportation options to this airport and your answers will be de-identified and kept strictly confidential.

Q-D3. How many people live in your household, including yourself? _ DROP DOWN

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8 or more

Q-D4. Select your age group:

1. Under 18 years old _ Finish the survey
2. 18 – 24 years old
3. 25 – 34 years old
4. 35 – 44 years old
5. 45 – 54 years old
6. 55 – 64 years old
7. 65 years or older

Q-D5. What is your household's total annual income?

1. Less than \$25,000
2. \$25,000--\$49,999
3. \$50,000--\$99,999
4. \$100,000--\$149,999
5. \$150,000--\$199,999
6. \$200,000 or more

Describe your typical mode of travel to this airport:

Q-D6. Before the COVID-19 pandemic (i.e., before March 2020)?

1. Drive by yourself or with a family member, friend, etc.
2. Taxi or ride-hail (e.g., Uber, Lyft)
3. Public transit
4. Other, please specify _ TEXT BOX
5. Not applicable/do not live in the region.

Q-D7. Now and in the future?

1. Drive by yourself or with a family member, friend, etc.
2. Taxi or ride-hail (e.g., Uber, Lyft)
3. Public transit
4. Other, please specify _ TEXT BOX

Q-D8. Why has your mode of travel changed? _ TEXT BOX

E. YOUR EXPERIENCE AT THE AIRPORT

Q-E1. Which TSA security lane did you use?

1. Regular
2. TSA PreCheck
3. CLEAR
4. Priority

Q-E2. Where did you check your baggage?

1. Curbside
2. Kiosk
3. Ticket counter agent
4. Gate agent
5. Did not check baggage

Q-E3. Where did you obtain your boarding pass for your flight?

1. Mobile boarding pass from cell phone or tablet
2. Printed boarding pass at kiosk
3. Printed boarding pass from airport ticket counter
4. Printed boarding pass at home
5. Other, please specify _ TEXT BOX

Q-E4. How much did you spend on airport concessions during your visit? (Include expenses only within the airport terminal area such as food, souvenirs, spa visit, etc. Do not include expenses outside of the airport terminal area such as parking.)

1. \$0
2. \$1–\$24
3. \$25–\$49
4. \$50–\$99
5. \$100 or more

F. RAFFLE

Q-F1. Do you wish to provide contact information to be included in the raffle for the gift card?

1. Yes
2. No _ Finish the survey

Please answer the following questions to participate in the raffle.

R-Q-F2. What is the primary purpose of your trip?

1. Business related to the federal government (including military)
2. Business related to state or local government
3. Business that is not related to government
4. Leisure, vacation, or holiday
5. Personal or family affairs
6. Student or school related
7. Other, please specify _ TEXT BOX

R-Q-F3. To help us understand your route to the Airport and plan improvements, what is the approximate location of the place you started your ground trip to this airport?

1. My home
2. Someone else's home
3. Hotel/Motel
4. Short term rental (e.g., Airbnb, VRBO)
5. My regular place of employment
6. Another place of business
7. Other, please specify _ TEXT BOX

R-Q-F4. What is the location of the place you started your trip today? You can also drag and drop a pin in the general area of the location on the map.

Option to search the address on google maps. _ TEXT BOX

R-Q-F5. What time did you begin your trip to the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM

R-Q-F6. What time did you arrive at the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM

3. 12:30 AM

If you wish to be entered into the raffle drawing, please provide contact information below:

R-Q-F7. First and Last Name _ TEXT BOX

R-Q-F8. Email _ TEXT BOX

R-Q-F9. Phone (10-digit US numbers only, no dashes or spaces) _ TEXT BOX

R-Q-F10. Please write any comments you would like to share. _ TEXT BOX

Appendix C-3: MWAA Letter of Support

Ronald Reagan Washington National Airport (DCA)

Metropolitan Washington
Airports Authority
1 Aviation Circle
Washington, DC 20001-6000



October 1, 2023

Dear DCA Gate Agent,

The 2023 Washington-Baltimore Regional Air Passenger Survey is being conducted in partnership between the Maryland Aviation Administration, the Metropolitan Washington Airports Authority, and the Metropolitan Washington Council of Governments. The purpose of this survey is to help improve how people travel to the airport.

- The pretest survey was conducted at Dulles International Airport (IAD) in April 2023
- The full-scale survey will be conducted at Dulles International Airport (IAD) and Reagan National Airport (DCA) during the entire month of October 2023

Trained survey staff will approach passengers at selected gates to invite them to participate in a survey using a handheld tablet or a personal mobile device using a QR code. The survey will take passengers about ten minutes to complete. Participation in the survey is voluntary and the responses from the survey will be only used for airport planning and regional transportation planning purposes. Passengers who do not have enough time to complete the survey before their flight will be handed a business card with the QR code.

Survey staff will arrive at the gate about 1 to 2.5 hours prior to the scheduled departure time of the flight. They will introduce themselves to the gate agents and ask them to read an announcement twice before the pre-board announcements. Survey staff will be required to complete a full day of orientation and training to ensure that proper protocols are being followed so that it is not disruptive to gate agents and passengers.

MWAA requests your cooperation in allowing survey staff to approach passengers at the gates prior to boarding for the full-scale survey period. Questions or concerns about the Regional Air Passenger Survey should be directed to the Metropolitan Washington Council of Governments at RegionalAirPassengerSurvey@mwkog.org.

If you have any questions or need additional information, please contact me at MWAA-Planning Department at 703-572-0264 or directly via Mobile at 703-981-6244.

Sincerely,

A handwritten signature in black ink, appearing to read "Glen Warren".


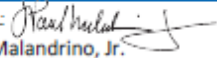
Glen Warren, PE
Airport-Landside Planner
MWAA-Planning Department

Dulles International | Reagan National | Dulles Toll Road
mwaa.com



Appendix C-4: MWAA Airport Bulletin

Ronald Reagan Washington National Airport (DCA)

AIRPORT BULLETIN			
 REAGAN NATIONAL			
2023 Baltimore – Washington Regional Air Passenger Survey			
<p>On select days between Sunday, October 8th, through Sunday, October 29th, the 2023 Baltimore – Washington Regional Air Passenger Survey is being conducted to help improve how people travel to the airport. Trained survey staff will obtain and wear a DCA badge for easy identification. They will approach passengers at selected aircraft gates to invite them to participate in a survey using a handheld tablet or a personal mobile device with a QR code.</p> <p>Participation in the survey is voluntary and the responses from the survey will be only used for airport planning and regional transportation planning purposes. Passengers who do not have enough time to complete the survey before their flight will be handed a business card with the QR code.</p> <p>The Metropolitan Washington Airports Authority requests your cooperation in allowing survey staff to approach passengers at the gates prior to boarding.</p>			
Please ensure that your employees are aware of this activity. If you have questions or need additional information, please contact the originator as indicated or the Airport Manager's Office at 703-417-8003.			
APPROVAL:  J. Paul Malandrino, Jr. Vice President and Airport Manager	PHONE: 703-417-8003	BULLETIN #: 2023-09-28	DATE: September 28, 2023

APPENDIX D - SURVEY MATERIALS FOR WASHINGTON DULLES INTERNATIONAL AIRPORT (IAD)

E-1 - Business Card

E-2 - 2023 Washington-Baltimore Regional Air Passenger Survey Questionnaire (IAD)

***Note:** Questions that start with "R" indicate that the answer was required to participate in the raffle.

E-3 - MWA Letter of Support

E-4- MWA Staff Bulletins

Appendix D-1: Business Card

Washington Dulles International Airport (IAD)

<p>2023 Washington-Baltimore Regional Air Passenger Survey</p> <p>Airport: IAD</p> <p>www.IADAirSurvey.com</p> <p>We value your input! Your responses to this survey will help improve travel options to this airport. To complete the survey and be entered into a raffle for a \$500 Amazon Gift Code, please visit our URL or scan the QR Code.</p>  <p>Participation is voluntary and answers are confidential. Thank you for your participation. Safe travels!</p>	<p>2023 Washington-Baltimore Regional Air Passenger Survey</p> <p>Airport: IAD</p> <p>Who is conducting the survey? This survey is being conducted in partnership by the Metropolitan Washington Airports Authority, Maryland Aviation Administration, and the Metropolitan Washington Council of Governments.</p> <p>Is this a customer satisfaction survey? No. The purpose of this survey is to learn about and improve travel options to the Washington-Baltimore regional airports. Your flight was randomly selected to participate in this survey.</p> <p>How long will the survey take? The survey will only take 10 minutes.</p> <p>Participation is voluntary and answers are confidential. Thank you for your participation. Safe travels!</p>
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Appendix D-2: 2023 Washington-Baltimore Regional Air Passenger Survey Questionnaire

Washington Dulles International Airport (IAD)

You and the other passengers on your flight are invited to participate in the 2023 Washington-Baltimore Regional Air Passenger Survey. Your responses to this survey will help improve travel options to this airport.

Your participation in this survey is completely voluntary and it will take about 10 minutes of your time. As a thank you for fully completing the survey, you may choose to enter a raffle to win a \$500 gift card. All responses will be compiled together and analyzed as a group to protect your confidentiality.

This survey is being conducted in partnership between the Maryland Aviation Administration, the Metropolitan Washington Airports Authority, and the Metropolitan Washington Council of Governments.

TITLE VI NONDISCRIMINATION POLICY

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

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

Direct general questions about the survey to RegionalAirPassengerSurvey@mwkog.org, and direct technical questions about this web-based interface to Nicholas.Book@icf.com

If you consent to participate, select, “yes, I consent” below.

Yes, I consent ☐ Continue the survey

No ☐ Finish the survey

AIRLINE AND FLIGHT

R-Q1. What airline are you taking today? DROP DOWN

1. Aer Lingus
2. Air Canada
3. Air France
4. Alaska Airlines
5. Allegiant Air

Other airline TEXT BOX

R-Q2. What is the flight number?

Option 1 DROP DOWN

1. 116
2. 247
3. 853
4. 8617
5. 8724

Option 2: My flight is not listed TEXT BOX

What is your flight number? TEXT BOX

A. ABOUT YOUR TRIP TODAY

R-Q-A1. How did you get to Washington Dulles International Airport for this trip?

1. By GROUND TRANSPORTATION (e.g., car, taxi, ride-hailing, Metro, etc.) _ Continue the survey Q-A2
2. I was on this flight when it arrived at this airport. _ Finish the survey
3. I made a connection at this airport from a DOMESTIC FLIGHT. _ Finish the survey
 - a. With which airline did you fly in today? _ Finish the survey
4. I made a connection at this airport from an INTERNATIONAL FLIGHT. _ Finish the survey
 - a. With which airline did you fly in today? _ Finish the survey

R-Q-A2. What is the final destination for your travel (following air travel and any additional connections for ground transportation)? For countries outside of the United States, delete “United States” and begin typing for a drop down list of countries and select country. _ list all countries _ DROP DOWN

1. United States _ Continue the survey Q-A2a
 2. Afghanistan _ Continue the survey Q-A3
 3. Albania _ Continue the survey Q-A3
 4. Algeria _ Continue the survey Q-A3
 5. Andorra _ Continue the survey Q-A3
- Q-A2a.** State/Territory _ list all State/Territory of the US _ DROP DOWN
1. Alabama (AL)
 2. Alaska (AK)
 3. American Samoa (AS)
- Q-A2b.** City _ TEXT BOX

Q-A3. What is the primary purpose of your trip?

1. Business related to the federal government (including military)
2. Business related to state or local government
3. Business that is not related to government
4. Leisure, vacation, or holiday
5. Personal or family affairs
6. Student or school related
7. Other, please specify _ TEXT BOX

B. ABOUT YOUR GROUND TRIP TO WASHINGTON DULLES INTERNATIONAL AIRPORT

Q-B1. To help us understand your route to the airport and plan improvements, what is the approximate location of the place you started your ground trip to this airport?

1. My home
2. Someone else's home
3. Hotel/Motel
4. Short term rental (e.g., Airbnb, VRBO)
5. My regular place of employment
6. Another place of business
7. Other, please specify _ TEXT BOX

Q-B2. What is the location of the place you started your trip today? You can also drag and drop a pin in the general area of the location on the map. Please select “Lookup Address” or your answer will not be saved.

Option to search the address on google maps. _ TEXT BOX

Q-B3. What time did you begin your trip to the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM
4. 12:45 AM

Q-B4. What time did you arrive at the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM
4. 12:45 AM

R-Q-B5. INCLUDING YOURSELF, how many people who came to the airport with you are on your flight today? _ DROP DOWN

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8 or more. Type a number between 8 and 99. _ TEXT BOX

R-Q-B6. What was your primary mode of travel to this airport today?

1. Private Car _ Continue the survey Q-B6a, Q-B6b, Q-B6c, and Q-B6d
2. Rented Car _ Continue the survey Q-B6a
3. Taxi _ Continue the survey Q-B6a
4. Ride-hailing (e.g., Uber, Lyft) _ Continue the survey Q-B6a
5. Airport van/limo (e.g., SuperShuttle)
6. Hotel/Motel courtesy bus
7. Metrorail (Silver Line)
8. Metrobus/Fairfax Connector
9. Walked from place where your trip started today
10. Biked from place where your trip started today
11. Other, please specify _ TEXT BOX

R-Q-B6. What was your primary mode of travel to this airport today?

1. Private Car _ Continue the survey Q-B6a, Q-B6b, Q-B6c, and Q-B6d
2. Rented Car _ Continue the survey Q-B6a
3. Taxi _ Continue the survey Q-B6a
4. Ride-hailing (e.g., Uber, Lyft) _ Continue the survey Q-B6a
5. Airport van/limo (e.g., SuperShuttle)
6. Hotel/Motel courtesy bus
7. Metrorail (Silver Line)
8. Metrobus/Fairfax Connector
9. Walked from place where your trip started today
10. Biked from place where your trip started today
11. Other, please specify _ TEXT BOX

Q-B6a. Did you carpool with someone else?

1. Yes
2. No

Q-B6b. Were you dropped off at the terminal curbside?

1. Yes
2. No

Q-B6c. Where was that vehicle parked (after drop-off)?

1. It was not parked
2. Short term/hourly parking lot
3. Long term/daily parking garage
4. Long term/economy parking lot
5. Valet parking
6. Off-airport private parking
7. Other, please specify _ TEXT BOX

Q-B6d. Did you plug into an Electric Vehicle (EV) charging station?

1. Yes
2. No

Q-B7. What was your MAIN reason for choosing your mode of GROUND transportation to this airport TODAY?

1. Cost
2. Reliability
3. Travel Time
4. Convenience
5. Comfort
6. Other, please specify _ TEXT BOX

C. ABOUT YOUR AIRPORT CHOICE

Q-C1. Rank the three most important reasons for choosing Washington Dulles International Airport for your flight today. Please drag your top 3 choices into the empty box to indicate your answers.

1. Closest airport
2. Easy road access
3. Easy access by Metrorail or public transit
4. Convenient van/limo or shuttle bus service

5. Good parking facilities
6. More convenient flight times
7. Less expensive airfare
8. Only airport with non-stop flights
9. Only airport that serves my destination
10. Frequent flyer/airline loyalty program
11. Other _ Continue the survey Q-C1a

Q-C1a. Please specify any other reasons for choosing Washington Dulles International Airport for your flight today. _ TEXT BOX

Q-C2. Rank the region's airports in your order of preference. Please drag your top 3 choices into the empty box to indicate your answers.

1. Washington Dulles International (IAD)
2. Reagan Washington National (DCA)
3. Baltimore/Washington International Marshall (BWI)

D. ABOUT YOURSELF

We have a few additional questions to ask which will help us improve transportation options to this airport. **It will be treated with strict confidentiality.**

Q-D1. Are you visiting the local area or do you live here?

1. Visiting the Washington-Baltimore area _ Continue the survey Q-D1a

Q-D1a. How many nights did you stay in the area? Type "0" if you arrived today. _ TEXT BOX

2. Live in the Washington-Baltimore area _ Continue the survey Q-D1b

Q-D1b. How many nights will you be away? Type "0" if you will return today. _ TEXT BOX

R-Q-D2. What is the location of your current residence? For countries outside of the United States, delete "United States" and begin typing for a drop down list of countries and select country. Country: _ list all countries _ DROP DOWN

1. United States _ Continue the survey Q-D2a, Q-D2b, Q-D2c
2. Afghanistan _ Continue the survey Q-D3
3. Albania _ Continue the survey Q-D3
4. Algeria _ Continue the survey Q-D3
5. Andorra _ Continue the survey Q-D3

Q-D2a. State/Territory _ list all State/Territory of the US _ DROP DOWN

1. Alabama (AL)
2. Alaska (AK)
3. American Samoa (AS)

Q-D2b. City _ TEXT BOX

Q-D2c. Zip Code _ TEXT BOX

These last few questions about yourself will help us improve transportation options to this airport and your answers will be de-identified and kept strictly confidential.

Q-D3. How many people live in your household, including yourself? _ DROP DOWN

1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8 or more

Q-D4. Select your age group:

1. Under 18 years old _ Finish the survey
2. 18 – 24 years old
3. 25 – 34 years old
4. 35 – 44 years old
5. 45 – 54 years old
6. 55 – 64 years old
7. 65 years or older

Q-D5. What is your household's total annual income?

1. Less than \$25,000
2. \$25,000--\$49,999
3. \$50,000--\$99,999
4. \$100,000--\$149,999
5. \$150,000--\$199,999
6. \$200,000 or more

Describe your typical mode of travel to this airport:

Q-D6. Before the COVID-19 pandemic (i.e., before March 2020)?

1. Drive by yourself or with a family member, friend, etc.
2. Taxi or ride-hail (e.g., Uber, Lyft)
3. Public transit
4. Other, please specify _ TEXT BOX
5. Not applicable/do not live in the region.

Q-D7. Now and in the future?

1. Drive by yourself or with a family member, friend, etc.
2. Taxi or ride-hail (e.g., Uber, Lyft)
3. Public transit
4. Other, please specify _ TEXT BOX

Q-D8. Why has your mode of travel changed? _ TEXT BOX

E. YOUR EXPERIENCE AT THE AIRPORT

Q-E1. Which TSA security lane did you use?

1. Regular
2. TSA PreCheck
3. CLEAR
4. Priority

Q-E2. Where did you check your baggage?

1. Curbside
2. Kiosk
3. Ticket counter agent
4. Gate agent
5. Did not check baggage

Q-E3. Where did you obtain your boarding pass for your flight?

1. Mobile boarding pass from cell phone or tablet
2. Printed boarding pass at kiosk
3. Printed boarding pass from airport ticket counter
4. Printed boarding pass at home
5. Other, please specify _ TEXT BOX

Q-E4. How much did you spend on airport concessions during your visit? (Include expenses only within the airport terminal area such as food, souvenirs, spa visit, etc. Do not include expenses outside of the airport terminal area such as parking.)

1. \$0
2. \$1–\$24
3. \$25–\$49
4. \$50–\$99
5. \$100 or more

F. RAFFLE

Q-F1. Do you wish to provide contact information to be included in the raffle for the gift card?

1. Yes
2. No _ Finish the survey

Please answer the following questions to participate in the raffle.

R-Q-F2. What is the primary purpose of your trip?

1. Business related to the federal government (including military)
2. Business related to state or local government
3. Business that is not related to government
4. Leisure, vacation, or holiday
5. Personal or family affairs
6. Student or school related
7. Other, please specify _ TEXT BOX

R-Q-F3. To help us understand your route to the Airport and plan improvements, what is the approximate location of the place you started your ground trip to this airport?

1. My home
2. Someone else's home
3. Hotel/Motel
4. Short term rental (e.g., Airbnb, VRBO)
5. My regular place of employment
6. Another place of business
7. Other, please specify _ TEXT BOX

R-Q-F4. What is the location of the place you started your trip today? You can also drag and drop a pin in the general area of the location on the map.

Option to search the address on google maps. _ TEXT BOX

R-Q-F5. What time did you begin your trip to the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM

R-Q-F6. What time did you arrive at the airport today? _ DROP DOWN

1. 12:00 AM
2. 12:15 AM
3. 12:30 AM

If you wish to be entered into the raffle drawing, please provide contact information below:

R-Q-F7. First and Last Name _ TEXT BOX

R-Q-F8. Email _ TEXT BOX

R-Q-F9. Phone (10-digit US numbers only, no dashes or spaces) _ TEXT BOX

R-Q-F10. Please write any comments you would like to share. _ TEXT BOX

Appendix D-3: MWAA Letter of Support

Washington Dulles International Airport (IAD)

Metropolitan Washington
Airports Authority
1 Aviation Circle
Washington, DC 20001-6000



October 1, 2023

Dear IAD Gate Agent,

The 2023 Washington-Baltimore Regional Air Passenger Survey is being conducted in partnership between the Maryland Aviation Administration, the Metropolitan Washington Airports Authority, and the Metropolitan Washington Council of Governments. The purpose of this survey is to help improve how people travel to the airport.

- The pretest survey was conducted at Dulles International Airport (IAD) in April 2023
- **The full-scale survey will be conducted at Dulles International Airport (IAD) and Reagan National Airport (DCA) during the entire month of October 2023**

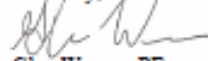
Trained survey staff will approach passengers at selected gates to invite them to participate in a survey using a handheld tablet or a personal mobile device using a QR code. The survey will take passengers about ten minutes to complete. Participation in the survey is voluntary and the responses from the survey will be only used for airport planning and regional transportation planning purposes. Passengers who do not have enough time to complete the survey before their flight will be handed a business card with the QR code.

Survey staff will arrive at the gate about 1 to 2.5 hours prior to the scheduled departure time of the flight. They will introduce themselves to the gate agents and ask them to read an announcement twice before the pre-board announcements. Survey staff will be required to complete a full day of orientation and training to ensure that proper protocols are being followed so that it is not disruptive to gate agents and passengers.

MWAA requests your cooperation in allowing survey staff to approach passengers at the gates prior to boarding for the pretest and full-scale survey periods. Questions or concerns about the Regional Air Passenger Survey should be directed to the Metropolitan Washington Council of Governments at RegionalAirPassengerSurvey@mwacog.org.

If you have any questions or need additional information, please contact me at MWAA-Planning Department at 703-572-0264 or directly via Mobile at 703-981-6244.

Sincerely,


Glen Warren, PE
Airport-Landside Planner
MWAA-Planning Department

Dulles International | Reagan National | Dulles Toll Road
mwaa.com



Appendix D-4: MWAA Airport Bulletin

Washington Dulles International Airport (IAD)

AIRPORT BULLETIN			
 DULLES INTERNATIONAL			
2023 Washington-Baltimore Regional Air Passenger Survey			
<p>On select days between Sunday, October 1, through Tuesday, October 31, the 2023 Washington-Baltimore Regional Air Passenger Survey is being conducted to help improve how people travel to the airport. Trained survey staff will approach passengers at selected aircraft gates to invite them to participate in a survey using a handheld tablet or a personal mobile device with a QR code.</p> <p>Participation in the survey is voluntary and the responses from the survey will be only used for airport planning and regional transportation planning purposes. Passengers who do not have enough time to complete the survey before their flight will be handed a business card with the QR code.</p> <p>The Metropolitan Washington Airports Authority requests your cooperation in allowing survey staff to approach passengers at the gates prior to boarding.</p>			
Please ensure that your employees are aware of this activity. If you have questions or need additional information, please contact the originator as indicated or the Airport Operations Office at 703-572-2730			
APPROVAL: Richard Golinowski Vice President and Airport Manager	 PHONE: 703-572-2710	BULLETIN #: 10-05-2023	DATE: October 5, 2023

APPENDIX E: LIST OF AVIATION ANALYSIS ZONES

Table 22: Aviation Analysis Zone System

No.	Jurisdiction	Regional District	No. of AAZ's	AAZ's Range	No. of TAZ's
1	District of Columbia	DC	20	1 - 20	393
2	Arlington County	Virginia Suburbs	9	21 - 29	141
3	Alexandria City	Virginia Suburbs	4	30 - 33	65
4	Fairfax County	Virginia Suburbs	14	34 - 47	549
5	Montgomery County	Maryland Suburbs	21	48 - 68	376
6	Prince George's County	Maryland Suburbs	14	69 - 82	635
7	Prince William County	Virginia Suburbs	6	83 - 88	376
8	Loudoun County	Virginia Suburbs	5	89 - 94	282
9	Frederick County	Maryland Suburbs	3	95 - 97	130
10	Carroll County	Baltimore Metro	1	98	58
11	Howard County	Baltimore Metro	9	99 - 107	68
12	Anne Arundel County	Baltimore Metro	14	108 - 121	98
13	Calvert County	Maryland Suburbs	1	122	47
14	St. Mary's County	Outlying Areas	1	123	75
15	Charles County	Maryland Suburbs	2	124 - 125	113
16	King George County	Outlying Areas	1	126	25
17	Spotsylvania County	Outlying Areas	1	127	62
18	Fredericksburg City	Outlying Areas	1	128	14
19	Stafford County	Virginia Suburbs	1	129	90
20	Fauquier County	Outlying Areas	1	130	50
21	Clarke County	Outlying Areas	1	131	9
22	Jefferson County	Outlying Areas	1	132	13
23	Baltimore City	Baltimore Metro	13	133 - 145	217
24	Baltimore County	Baltimore Metro	13	146 - 158	342
25	Harford County	Baltimore Metro	3	159 - 161	140
Total Washington/Baltimore Air System Planning Area			160		4,368
26	External Maryland	Externals	1	162	NA
27	External Virginia	Externals	1	163	NA
28	External West Virginia	Externals	1	164	NA
29	Pennsylvania	Externals	1	165	NA
30	Delaware	Externals	1	166	NA
31	New Jersey	Externals	1	167	NA
32	Other	Externals	1	999	NA
Total Externals			7	NA	NA
Grand Total			167		

Source: Washington-Baltimore Region Air Passenger Survey 2023

Note: Baltimore metro is short for "Baltimore Metropolitan Area", Maryland Suburbs is short for "Maryland Suburbs of DC", Virginia Suburbs is short for "Virginia Suburbs of DC", DC is short for "District of Columbia"

Table 23: Aviation Analysis Zone System Names

AAZ	Jurisdiction	Place Name
1	District of Columbia	The Mall
2		The White House, Federal Triangle, Foggy Bottom
3		Franklin Square, Mt. Vernon, Gallery Place
4		Dupont Circle, Adams Morgan
5		Georgetown
6		Cleveland Park
7		Foxhall, Sutton Place, Cathedral Heights, Senate Heights, Glover Park, Foxhall Village, Canal View
8		Tenleytown, American University
9		Westover Place, Embassy Park, Wesley Heights, McLean Gardens
10		Chevy Chase, Friendship Heights, Western Rock Creek Park
11		Colonial Village, Rock Creek Gardens, Shepherd Park, Walter Reed, Takoma, Petworth, Hampshire Knolls, Crestwood, Eastern Rock Creek Park
12		Mount Pleasant, North Adams Morgan
13		Shaw, Howard University
14		Riggs Park, Michigan Park, Catholic University, Brookland, Fort Lincoln, Langdon, Brentwood, Edgewood, Eckington, Washington Hospital Center
15		The Capitol
16		National Arboretum, Gallaudet University, Trinidad, Lincoln Park, Eastern Market, Capitol South, Navy Yard, Stadium Armory
17		Anacostia, Benning, Fort Dupont, Capitol View, Deanwood, Capitol Heights
18		L'Enfant Plaza, Federal Center SW, Waterfront
19		Buzzard Point
20		Joint Base Anacostia Bolling (JBAB)
21	Arlington County, VA	Ronald Reagan Washington National Airport
22		Pentagon City, Crystal City
23		The Ridge, Forest Hills Commons, Avalon Bay
24		Arlington National Cemetery, The Pentagon
25		Rosslyn
26		Clarendon, Colonial Village
27		East Falls Church, North Arlington
28		Ballston, Buckingham, Glencarlyn, Barcroft
29		Shirlington
30	Alexandria City, VA	Beverly Hills, Potomac Yards, Braddock Hgts, Timber Branch Park, Rosemont, Quaker Hill, Ivy Hill
31		Old Town, Alexandria
32		Cameron Park, Eisenhower Avenue
33		Landmark
34	Fairfax County, VA	Falls Church, Fairview Park, Annandale, Lincoln
35		Shirley/Edsall Industrial Park, Springfield, Franconia, Kingstowne, Fort Belvoir Proving Ground, Newington
36		Huntington, Rose Hill, Hybla Valley, Fort Hunt, Mount Vernon, Woodlawn, Fort Belvoir, Lorton, Mason Neck
37		Lorton
38		Ravensthorpe, Burke, Fairfax Station, Burke Center, George Mason University
39		Merrifield

Source: Washington-Baltimore Region Air Passenger Survey 2023

Table 23 Continued

AAZ	Jurisdiction	Place Name
40	Fairfax County, VA	Centerville, Sully Station, Clifton
41		Fair Oaks, Fairfax City
42		Chantilly
43		Reston, Franklin Farm, Vienna
44		Woodland Park, Dulles Technology Center
45		Herndon, Great Falls
46		Tysons Corner
47		McLean
48	Montgomery County, MD	Glen Echo
49		Cabin John, Oakmont
50		Medical Center
51		Chevy Chase
52		Bethesda
53		Rock Spring, White Flint
54		West I-270 Rockville
55		Gaithersburg, Washington Grove
56		Germantown
57		Potomac
58		Dickerson, Barnesville, Poolesville, Dawsonville, Quince Orchard, Darnestown, North Potomac
59		Damascus, Cedar Grove, Woodfield, Clarksburg, Laytonsville, Brookeville
60		Montgomery Village
61		East I-270 Rockville
62		Aspen Hill, Layhill, Norbeck, Olney
63		Cloverly, Colesville, Spencerville, Burtonsville, Fairland
64		Glenmont, White Oak, Wheaton, Four Corners, Hillandale, Forest Glen
65		North Chevy Chase
66		Forest Glen Park, North Silver Spring
67		Downtown Silver Spring
68		Takoma Park
69	Prince George's County, MD	Langley Park, Adelphi, Chillum, Hyattsville, Mount Rainer, Brentwood, Cottage City, Bladensburg, Edmonston, Berwyn Heights, Cheverly
70		College Park, University Park, University of Maryland
71		Beltsville
72		Calverton
73		Laurel, Montpelier
74		Greenbelt, Goddard Space Center, New Carrollton
75		North Bowie, Woodmore, Kettering
76		Bowie
77		Glenarden, Kentland
78		Seat Pleasant, Fairmount Heights, Capitol Heights, District Heights, Forestville
79		Andrews Air Force Base, Melwood, Woodyard, Upper Marlboro, Croom, Marlton
80		Hillcrest Heights, Morningside, Suitland, Temple Hills, Forest Heights
81		National Harbor
82		Friendly, Camp Springs, Clinton, Tantallon, Piscataway, Brandywine, Accokeek, Cedarville, Baden, Westwood, Eagle Harbor, Nottingham

Source: Washington-Baltimore Region Air Passenger Survey 2023

Table 23 Continued

AAZ	Jurisdiction	Place Name
83	Prince William County, VA	Woodbridge, Dumfries
84		Woodbridge, Potomac Mills
85		Dale City, Occoquan, Lake Ridge, Quantico Marine Corps Base
86		Nokesville, Lake Jackson, Gainesville, Haymarket
87		Manassas, Manassas Park
88		Sudley, Manassas Battle Field, Haymarket
89	Loudoun County, VA	South Riding, Arcola
90		Washington Dulles International Airport
91		Cascades, Sugarland Run, Lowes Island
92		Sterling Park, Sterling, Dulles, Ashburn
93		Leesburg, Ashburn
94		Lovettsville, Hillsboro, Round Hill, Purcellville, Hamilton, Lucketts, Bluemont, Philomont, Saint Louis, Western Loudoun
95	Frederick County, MD	Woodsboro, Libertytown, Oldfield, New Market, Urbana, Point of Rocks, Walkesville, Mount Airy
96		City of Frederick
97		Thurmont, Emmitsburg, Myersville, Middletown, Burkittsville, Brunswick
98	Carroll County, MD	Carroll County, MD
99	Howard County, MD	Lisbon, Cooksville, Glenwood, Glenelg, West Friendship, Dayton, Highland, Clarksville
100		North Ellicott City
101		South Ellicott City
102		Village of River Hill (Columbia)
103		Village of Harpers Choice, Village of Hickory Ridge, Simpsonville, Village of Wilde Lake, Village of Dorseys Search
104		Village of Oakland Mills, Village of Owen Brown, Village of Kings Contrivance, Village of Long Reach
105		Scaggsville, Dickinson, Laurel, Savage
106		Village of Kings Contrivance, Columbia Gateway
107		Elkridge, Dorsey
108	Anne Arundel County, MD	Laurel, Odenton, Piney Orchard, Woodwardville, Gambrills, Crofton, Jessup
109		Jessup, Severn, Arundel Mills
110		Dorsey
111		Baltimore/Washington International Thurgood Marshall Airport
112		Linthicum
113		North Linthicum
114		Glen Burnie
115		Glen Burnie, Harundale
116		Harundale
117		Lake Shore, Gibson Island, Arnold, Cape Saint Claire, US Naval Station
118		Severna Park
119		Annapolis
120		Heritage Harbor, Edgewater, Woodland Beach, Mayo, Highland Beach
121		Crofton, Davidsonville, Harwood, Lothian, Bayard, Owensville, Gallesville, Shady Side, Tracys Landing, Deale, Churchton, Friendship
122	Calvert County, MD	Calvert County
123	St. Mary's County, MD	St. Mary's County

Source: Washington-Baltimore Region Air Passenger Survey 2023

Table 23 Continued

AAZ	Jurisdiction	Place Name
124	Charles County, MD	Pinefield, Waldorf, Cedarville, Indian Head, Glaymont, Marbury, Bryans Road, St. Charles
125		White Plains, Pomfret, La Plata, Doncaster, Pisgah, Ironsides, Port Tobacco, Bryantown, Hughesville, Benedict, Nanjemoy, Welcome, Bel Alton, Faulkner, Charlotte Hall, Mechanicsville, Newburg
126	King George County, VA	King George County
127	Spotsylvania County, VA	Northern Spotsylvania County
128	Fredericksburg City, VA	City of Fredericksburg
129	Stafford County, VA	Stafford County
130	Fauquier County, VA	Fauquier County
131	Clarke County, VA	Clarke County
132	Jefferson County, WV	Jefferson County
133	Baltimore City, MD	Downtown Inner Harbor
134		Locust Point, Oriole Park at Camden Yards, M&T Bank Stadium
135		Canton Waterfront
136		Brooklyn, Cherry Hill, Loudon Park
137		Arlington, Pimlico, Gwynns Falls Park, Park Heights, North West Baltimore
138		Walbrook, Rosemont, Druid Hill Park
139		University of MD Baltimore-area
140		Hampden
141		Roland Park, Govans, Hamilton, Waverly, Herring Run Park, Belair-Edison
142		Collington Square
143		Mount Vernon
144		Lafayette Courts, Little Italy, Inner Harbor East, Fells Point, Washington Hill, Butchers Hill
145		East Baltimore
146	Baltimore County, MD	Halethorpe
147		North Arbutus
148		Arbutus
149		Catonsville, Westview Park, Woodlawn
150		Upperco, Boring, Reisterstown, Glyndon, Snowy
151		Garrison, Owings Mills, Pikesville, Randallstown, Woodlawn
152		Freeland, Maryland Line, Middletown, Gunpowder Falls, Butler, Belfast, Cooperstown, Dover
153		Stevenson, Brooklandville
154		Lutherville, Cockeysville, Timonium, Carney
155		Towson, Parkville
156		Long Green, Glen Park, Baldwin, Fork
157		Fullerton, Perry Hall, Bradshaw, Rosedale, Middle River, White Marsh
158		Essex, Dundalk, Sparrows Point, Edgemere, East Baltimore County
159	Harford County, MD	Norrisville, Whiteford, Cardiff, Pylesville, Broad Creek, Dublin, Jarrettsville, Forest Hill, Darlington
160		Bel Air, Churchville, Fountain Green, Creswell, Level, Aberdeen, Havre De Grace, Joppatowne
161		Aberdeen Proving Ground

Source: Washington-Baltimore Region Air Passenger Survey 2023

APPENDIX F: AIR PASSENGER ORIGINATIONS BY AAZ

Table 24: 2023 Washington-Baltimore Air Passenger Originations by AAZ

AAZ	BWI		DCA		IAD		REGION	
	Count	%	Count	%	Count	%	Count	%
1	71,294	62%	24,478	21%	19,207	17%	114,978	100%
2	134,908	10%	920,293	67%	313,735	23%	1,368,936	100%
3	204,438	10%	1,531,957	74%	333,927	16%	2,070,322	100%
4	64,924	5%	1,023,180	79%	199,631	16%	1,287,735	100%
5	0	0%	139,898	85%	25,549	15%	165,447	100%
6	11,612	3%	232,245	68%	96,611	28%	340,467	100%
7	0	0%	16,510	86%	2,629	14%	19,139	100%
8	77,147	41%	78,402	42%	32,317	17%	187,866	100%
9	0	0%	41,555	100%	0	0%	41,555	100%
10	61,102	32%	41,732	22%	88,492	46%	191,325	100%
11	55,824	15%	64,367	18%	244,705	67%	364,895	100%
12	0	0%	145,804	72%	57,681	28%	203,485	100%
13	3,426	2%	112,583	60%	70,603	38%	186,612	100%
14	61,009	21%	189,974	65%	42,835	15%	293,818	100%
15	0	0%	70,621	88%	9,844	12%	80,465	100%
16	13,211	3%	300,769	79%	68,174	18%	382,154	100%
17	26,114	26%	39,849	40%	33,197	33%	99,160	100%
18	57,477	14%	304,788	76%	38,345	10%	400,611	100%
19	11,595	5%	156,242	64%	77,754	32%	245,591	100%
20	0	0%	156	100%	0	0%	156	100%
22	128,594	23%	421,968	74%	18,492	3%	569,054	100%
23	2,419	6%	33,660	88%	1,965	5%	38,043	100%
24	0	0%	23,900	100%	0	0%	23,900	100%
25	0	0%	143,090	63%	82,443	37%	225,533	100%
26	36,827	4%	529,246	64%	255,047	31%	821,120	100%
27	0	0%	54,799	34%	106,061	66%	160,860	100%
28	42,789	18%	113,306	48%	78,311	33%	234,406	100%
29	0	0%	40,030	36%	71,158	64%	111,188	100%
30	0	0%	75,658	47%	86,238	53%	161,896	100%
31	80,880	10%	527,299	65%	198,575	25%	806,753	100%
32	0	0%	76,347	92%	6,702	8%	83,048	100%
33	0	0%	67,740	62%	40,932	38%	108,672	100%
34	0	0%	193,771	62%	119,772	38%	313,543	100%
35	23,778	7%	246,573	74%	63,350	19%	333,701	100%
36	10,278	3%	243,293	64%	128,837	34%	382,408	100%
37	0	0%	145,815	48%	157,696	52%	303,511	100%
38	0	0%	70,789	31%	156,608	69%	227,397	100%
39	11,299	6%	151,192	77%	32,912	17%	195,403	100%

AAZ	BWI		DCA		IAD		REGION	
	Count	%	Count	%	Count	%	Count	%
40	0	0%	35,617	10%	338,754	90%	374,371	100%
41	6,456	2%	240,479	56%	179,609	42%	426,543	100%
42	0	0%	0	0%	235,415	100%	235,415	100%
43	5,227	1%	224,686	25%	654,014	74%	883,928	100%
44	23,252	4%	47,389	9%	457,030	87%	527,672	100%
45	10,378	4%	9,707	4%	248,746	93%	268,831	100%
46	0	0%	87,377	58%	64,561	42%	151,938	100%
47	0	0%	128,480	45%	156,256	55%	284,736	100%
48	12,562	20%	33,087	53%	17,333	28%	62,981	100%
49	0	0%	68,046	82%	15,057	18%	83,103	100%
50	0	0%	74,485	91%	7,543	9%	82,028	100%
51	6,056	32%	12,811	68%	0	0%	18,867	100%
52	204,458	48%	124,447	29%	100,352	23%	429,257	100%
53	58,844	33%	47,751	26%	73,912	41%	180,507	100%
54	26,714	13%	91,247	45%	85,493	42%	203,454	100%
55	39,896	23%	27,514	16%	108,205	62%	175,615	100%
56	30,853	43%	10,525	15%	30,511	42%	71,889	100%
57	11,792	7%	84,884	47%	83,751	46%	180,427	100%
58	53,253	18%	29,082	10%	211,509	72%	293,844	100%
59	60,408	41%	23,387	16%	63,850	43%	147,645	100%
60	5,927	4%	40,284	24%	121,474	72%	167,685	100%
61	2,443	5%	1,234	2%	48,032	93%	51,709	100%
62	45,099	35%	15,148	12%	69,579	54%	129,826	100%
63	26,542	27%	38,544	40%	32,414	33%	97,499	100%
64	54,980	29%	48,677	26%	82,788	44%	186,445	100%
65	6,057	14%	9,837	23%	26,417	62%	42,311	100%
66	18,777	21%	54,955	61%	16,833	19%	90,566	100%
67	191,091	59%	79,729	25%	51,867	16%	322,686	100%
68	137,699	82%	18,673	11%	10,875	7%	167,247	100%
69	278,774	75%	48,959	13%	45,199	12%	372,932	100%
70	69,822	53%	39,645	30%	21,114	16%	130,580	100%
71	5,635	44%	3,942	31%	3,156	25%	12,733	100%
72	0	0%	156	100%	0	0%	156	100%
73	167,381	85%	9,257	5%	20,098	10%	196,736	100%
74	59,294	61%	13,527	14%	24,556	25%	97,378	100%
75	44,713	57%	25,344	32%	8,598	11%	78,654	100%
76	33,950	61%	2,018	4%	19,637	35%	55,605	100%
77	26,519	47%	30,252	53%	0	0%	56,771	100%
78	1,549	2%	57,924	87%	7,075	11%	66,549	100%
79	89,134	77%	2,576	2%	24,601	21%	116,312	100%
80	0	0%	129,976	99%	1,965	1%	131,941	100%
81	21,082	9%	151,298	68%	51,161	23%	223,541	100%

AAZ	BWI		DCA		IAD		REGION	
	Count	%	Count	%	Count	%	Count	%
82	8,776	5%	135,887	74%	40,110	22%	184,773	100%
83	0	0%	81,952	47%	92,291	53%	174,243	100%
84	0	0%	6,799	22%	24,713	78%	31,512	100%
85	659	0%	201,234	70%	86,229	30%	288,122	100%
86	0	0%	8,428	4%	213,811	96%	222,238	100%
87	0	0%	19,074	5%	369,097	95%	388,171	100%
88	0	0%	9,961	20%	38,668	80%	48,629	100%
89	0	0%	40,446	28%	103,811	72%	144,257	100%
90	0	0%	11,878	5%	218,334	95%	230,212	100%
91	0	0%	8,089	4%	195,209	96%	203,298	100%
92	72,316	14%	16,802	3%	411,010	82%	500,128	100%
93	37,900	8%	88,544	18%	376,603	75%	503,047	100%
94	0	0%	90,535	30%	212,680	70%	303,215	100%
95	104,906	70%	6,240	4%	38,462	26%	149,608	100%
96	185,083	76%		0%	59,236	24%	244,319	100%
97	16,758	15%	13,588	12%	82,221	73%	112,567	100%
98	192,115	78%		0%	54,981	22%	247,096	100%
99	186,286	88%	1,282	1%	24,175	11%	211,744	100%
100	117,870	75%	10,476	7%	29,436	19%	157,783	100%
101	71,687	99%	1,009	1%	0	0%	72,696	100%
102	0	0%	10,125	100%	0	0%	10,125	100%
103	53,727	89%	6,545	11%	0	0%	60,272	100%
104	39,868	58%	16,212	24%	12,677	18%	68,757	100%
105	81,773	71%	0	0%	33,804	29%	115,577	100%
106	97,057	100%	0	0%	0	0%	97,057	100%
107	103,827	69%	0	0%	47,364	31%	151,191	100%
108	377,810	79%	26,064	5%	75,285	16%	479,160	100%
109	273,299	99%	3,485	1%		0%	276,784	100%
110	135,880	96%		0%	5,830	4%	141,710	100%
111	55,380	90%	5,941	10%	0	0%	61,321	100%
112	599,277	99%	6,844	1%	0	0%	606,122	100%
113	2,940	100%	0	0%	0	0%	2,940	100%
114	5,442	100%	0	0%	0	0%	5,442	100%
115	199,010	100%	0	0%	0	0%	199,010	100%
116	5,134	100%	0	0%	0	0%	5,134	100%
117	242,502	98%	5,819	2%	0	0%	248,321	100%
118	90,431	70%	38,200	30%	0	0%	128,631	100%
119	277,276	84%	43,525	13%	7,792	2%	328,593	100%
120	43,319	97%		0%	1,419	3%	44,737	100%
121	117,674	83%	5,294	4%	18,195	13%	141,163	100%
122	77,983	61%	25,705	20%	25,001	19%	128,689	100%
123	61,224	80%	6,781	9%	8,583	11%	76,588	100%

AAZ	BWI		DCA		IAD		REGION	
	Count	%	Count	%	Count	%	Count	%
124	40,261	24%	91,357	53%	39,350	23%	170,968	100%
125	37,105	48%	26,260	34%	14,659	19%	78,024	100%
126	0	0%		0%	12,258	100%	12,258	100%
127	0	0%	6,287	17%	31,686	83%	37,973	100%
128	0	0%	25,414	41%	36,867	59%	62,281	100%
129	659	0%	105,373	77%	30,108	22%	136,140	100%
130	0	0%	128,549	51%	124,865	49%	253,415	100%
131	70,579	90%	0	0%	7,904	10%	78,483	100%
132	13,604	100%	0	0%	0	0%	13,604	100%
133	577,141	98%	1,984	0%	6,853	1%	585,977	100%
134	335,579	86%	0	0%	56,794	14%	392,373	100%
135	51,071	82%	0	0%	11,122	18%	62,193	100%
136	21,543	27%	1,751	2%	57,683	71%	80,977	100%
137	31,924	92%	2,732	8%	0	0%	34,657	100%
138	7,790	100%	0	0%	0	0%	7,790	100%
139	102,609	90%	0	0%	11,351	10%	113,960	100%
140	110,350	100%	0	0%	0	0%	110,350	100%
141	294,347	94%	0	0%	17,804	6%	312,151	100%
142	10,446	100%	0	0%	0	0%	10,446	100%
143	65,035	89%	2,493	3%	5,718	8%	73,245	100%
144	526,264	96%	1,721	0%	20,021	4%	548,006	100%
145	57,379	100%	0	0%		0%	57,379	100%
146	1,666	8%	0	0%	20,079	92%	21,745	100%
148	13,379	100%	0	0%		0%	13,379	100%
149	72,249	80%	0	0%	17,892	20%	90,140	100%
150	50,459	89%	0	0%	6,136	11%	56,595	100%
151	229,717	100%	0	0%	0	0%	229,717	100%
152	62,092	68%	29,144	32%	0	0%	91,236	100%
153	130,136	67%	36,468	19%	28,178	14%	194,782	100%
154	89,226	100%	0	0%	0	0%	89,226	100%
155	229,709	100%	0	0%	0	0%	229,709	100%
156	21,176	26%	0	0%	61,290	74%	82,465	100%
157	74,708	48%	39,735	26%	41,321	27%	155,764	100%
158	34,289	94%	0	0%	2,229	6%	36,518	100%
159	89,797	98%	1,672	2%	0	0%	91,469	100%
160	380,929	95%	0	0%	21,989	5%	402,918	100%
161	12,239	100%	0	0%	0	0%	12,239	100%
999	2,290,914	52%	464,591	11%	1,636,116	37%	4,391,622	100%
TOTAL	13,099,118	34%	12,735,128	33%	12,406,974	32%	38,241,220	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

APPENDIX G: AIR PASSENGER ORIGINATIONS HOME AND NON-HOME BY AAZ

Table 25: 2023 Air Passenger Originations Home and Non-Home by AAZ

AAZ	Home		Non-Home		TOTAL	
	Count	%	Count	%	Count	%
1	11,479	10%	103,499	90%	114,978	100%
2	551,259	40%	817,677	60%	1,368,936	100%
3	282,650	14%	1,787,672	86%	2,070,322	100%
4	298,254	23%	989,481	77%	1,287,735	100%
5	64,585	39%	100,862	61%	165,447	100%
6	154,654	45%	185,813	55%	340,467	100%
7	17,254	90%	1,885	10%	19,139	100%
8	96,455	51%	91,411	49%	187,866	100%
9	25,460	61%	16,096	39%	41,555	100%
10	187,131	98%	4,195	2%	191,325	100%
11	353,288	97%	11,608	3%	364,895	100%
12	172,328	85%	31,158	15%	203,485	100%
13	116,899	63%	69,713	37%	186,612	100%
14	191,361	65%	102,457	35%	293,818	100%
15	14,981	19%	65,484	81%	80,465	100%
16	228,493	60%	153,661	40%	382,154	100%
17	91,920	93%	7,240	7%	99,160	100%
18	79,137	20%	321,474	80%	400,611	100%
19	98,017	40%	147,573	60%	245,591	100%
20	156	100%	0	0%	156	100%
22	108,851	19%	460,203	81%	569,054	100%
23	16,630	44%	21,413	56%	38,043	100%
24	0	0%	23,900	100%	23,900	100%
25	111,415	49%	114,118	51%	225,533	100%
26	429,695	52%	391,425	48%	821,120	100%
27	145,940	91%	14,920	9%	160,860	100%
28	152,065	65%	82,341	35%	234,406	100%
29	52,402	47%	58,786	53%	111,188	100%
30	110,805	68%	51,091	32%	161,896	100%
31	487,585	60%	319,168	40%	806,753	100%
32	13,565	16%	69,483	84%	83,048	100%
33	77,197	71%	31,474	29%	108,672	100%
34	221,776	71%	91,767	29%	313,543	100%
35	217,512	65%	116,189	35%	333,701	100%
36	272,776	71%	109,632	29%	382,408	100%
37	287,138	95%	16,373	5%	303,511	100%
38	145,585	64%	81,812	36%	227,397	100%

AAZ	Home		Non-Home		TOTAL	
	Count	%	Count	%	Count	%
39	84,479	43%	110,924	57%	195,403	100%
40	311,844	83%	62,527	17%	374,371	100%
41	299,700	70%	126,843	30%	426,543	100%
42	73,238	31%	162,177	69%	235,415	100%
43	724,393	82%	159,535	18%	883,928	100%
44	215,924	41%	311,748	59%	527,672	100%
45	225,611	84%	43,220	16%	268,831	100%
46	61,092	40%	90,846	60%	151,938	100%
47	166,259	58%	118,477	42%	284,736	100%
48	49,096	78%	13,885	22%	62,981	100%
49	53,816	65%	29,287	35%	83,103	100%
50	75,716	92%	6,313	8%	82,028	100%
51	12,811	68%	6,056	32%	18,867	100%
52	203,983	48%	225,274	52%	429,257	100%
53	112,955	63%	67,552	37%	180,507	100%
54	173,119	85%	30,335	15%	203,454	100%
55	114,874	65%	60,740	35%	175,615	100%
56	66,447	92%	5,442	8%	71,889	100%
57	139,750	77%	40,677	23%	180,427	100%
58	290,377	99%	3,467	1%	293,844	100%
59	144,672	98%	2,973	2%	147,645	100%
60	164,679	98%	3,006	2%	167,685	100%
61	51,709	100%	0	0%	51,709	100%
62	107,599	83%	22,227	17%	129,826	100%
63	97,499	100%	0	0%	97,499	100%
64	166,868	89%	19,577	11%	186,445	100%
65	32,708	77%	9,602	23%	42,311	100%
66	86,499	96%	4,067	4%	90,566	100%
67	285,356	88%	37,331	12%	322,686	100%
68	167,247	100%	0	0%	167,247	100%
69	259,301	70%	113,631	30%	372,932	100%
70	80,204	61%	50,376	39%	130,580	100%
71	8,791	69%	3,942	31%	12,733	100%
72	156	100%	0	0%	156	100%
73	196,736	100%	0	0%	196,736	100%
74	71,392	73%	25,986	27%	97,378	100%
75	78,186	99%	468	1%	78,654	100%
76	51,718	93%	3,887	7%	55,605	100%
77	49,907	88%	6,864	12%	56,771	100%
78	60,458	91%	6,090	9%	66,549	100%
79	99,406	85%	16,905	15%	116,312	100%
80	22,862	17%	109,079	83%	131,941	100%

AAZ	Home		Non-Home		TOTAL	
	Count	%	Count	%	Count	%
81	24,451	11%	199,090	89%	223,541	100%
82	107,253	58%	77,520	42%	184,773	100%
83	160,580	92%	13,663	8%	174,243	100%
84	31,512	100%	0	0%	31,512	100%
85	288,122	100%	0	0%	288,122	100%
86	210,420	95%	11,818	5%	222,238	100%
87	286,900	74%	101,271	26%	388,171	100%
88	48,629	100%	0	0%	48,629	100%
89	102,724	71%	41,533	29%	144,257	100%
90	95,207	41%	135,005	59%	230,212	100%
91	75,486	37%	127,812	63%	203,298	100%
92	249,904	50%	250,224	50%	500,128	100%
93	461,230	92%	41,817	8%	503,047	100%
94	300,148	99%	3,067	1%	303,215	100%
95	142,933	96%	6,675	4%	149,608	100%
96	206,019	84%	38,300	16%	244,319	100%
97	112,567	100%	0	0%	112,567	100%
98	217,408	88%	29,689	12%	247,096	100%
99	210,461	99%	1,282	1%	211,744	100%
100	105,455	67%	52,328	33%	157,783	100%
101	48,292	66%	24,403	34%	72,696	100%
102	10,125	100%	0	0%	10,125	100%
103	37,059	61%	23,213	39%	60,272	100%
104	52,545	76%	16,212	24%	68,757	100%
105	95,499	83%	20,079	17%	115,577	100%
106	85,330	88%	11,726	12%	97,057	100%
107	109,723	73%	41,468	27%	151,191	100%
108	361,546	75%	117,613	25%	479,160	100%
109	234,095	85%	42,689	15%	276,784	100%
110	4,108	3%	137,602	97%	141,710	100%
111	43,768	71%	17,553	29%	61,321	100%
112	59,045	10%	547,077	90%	606,122	100%
113	2,940	100%	0	0%	2,940	100%
114	0	0%	5,442	100%	5,442	100%
115	186,398	94%	12,612	6%	199,010	100%
116	5,134	100%	0	0%	5,134	100%
117	160,807	65%	87,514	35%	248,321	100%
118	128,631	100%	0	0%	128,631	100%
119	100,126	30%	228,467	70%	328,593	100%
120	17,889	40%	26,848	60%	44,737	100%
121	136,693	97%	4,469	3%	141,163	100%
122	100,934	78%	27,755	22%	128,689	100%

AAZ	Home		Non-Home		TOTAL	
	Count	%	Count	%	Count	%
123	72,315	94%	4,272	6%	76,588	100%
124	160,768	94%	10,200	6%	170,968	100%
125	51,765	66%	26,260	34%	78,024	100%
126	12,258	100%	0	0%	12,258	100%
127	37,973	100%	0	0%	37,973	100%
128	22,315	36%	39,967	64%	62,281	100%
129	124,946	92%	11,194	8%	136,140	100%
130	231,188	91%	22,227	9%	253,415	100%
131	78,483	100%	0	0%	78,483	100%
132	13,604	100%	0	0%	13,604	100%
133	300,426	51%	285,551	49%	585,977	100%
134	118,313	30%	274,060	70%	392,373	100%
135	50,563	81%	11,629	19%	62,193	100%
136	46,380	57%	34,597	43%	80,977	100%
137	32,985	95%	1,672	5%	34,657	100%
138	7,790	100%	0	0%	7,790	100%
139	51,528	45%	62,432	55%	113,960	100%
140	110,350	100%	0	0%	110,350	100%
141	84,139	27%	228,012	73%	312,151	100%
142	10,446	100%	0	0%	10,446	100%
143	5,718	8%	67,527	92%	73,245	100%
144	244,418	45%	303,588	55%	548,006	100%
145	41,277	72%	16,102	28%	57,379	100%
146	1,666	8%	20,079	92%	21,745	100%
148	13,379	100%	0	0%	13,379	100%
149	90,140	100%	0	0%	90,140	100%
150	48,291	85%	8,304	15%	56,595	100%
151	222,555	97%	7,162	3%	229,717	100%
152	86,380	95%	4,855	5%	91,236	100%
153	189,614	97%	5,167	3%	194,782	100%
154	74,083	83%	15,143	17%	89,226	100%
155	222,327	97%	7,382	3%	229,709	100%
156	82,465	100%	0	0%	82,465	100%
157	110,308	71%	45,456	29%	155,764	100%
158	36,518	100%	0	0%	36,518	100%
159	89,797	98%	1,672	2%	91,469	100%
160	402,918	100%	0	0%	402,918	100%
161	12,239	100%	0	0%	12,239	100%
999	3,424,534	78%	967,088	22%	4,391,622	100%
TOTAL	24,061,395	63%	14,179,825	37%	38,241,220	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

APPENDIX H: AIR PASSENGER ORIGINATIONS WORK AND NON-WORK PURPOSE BY AAZ

Table 26: Air Passenger Originations Work and Non-Work Purpose by AAZ

AAZ	Work		Non-Work		TOTAL	
	Count	%	Count	%	Count	%
1	29,015	25%	85,963	75%	114,978	100%
2	562,196	41%	806,739	59%	1,368,936	100%
3	1,174,948	57%	895,374	43%	2,070,322	100%
4	622,551	48%	665,184	52%	1,287,735	100%
5	26,383	16%	139,063	84%	165,447	100%
6	138,268	41%	202,200	59%	340,467	100%
7	4,986	26%	14,153	74%	19,139	100%
8	32,989	18%	154,876	82%	187,866	100%
9	18,176	44%	23,379	56%	41,555	100%
10	26,397	14%	164,929	86%	191,325	100%
11	59,068	16%	305,828	84%	364,895	100%
12	52,882	26%	150,604	74%	203,485	100%
13	99,121	53%	87,490	47%	186,612	100%
14	72,111	25%	221,707	75%	293,818	100%
15	71,974	89%	8,490	11%	80,465	100%
16	100,687	26%	281,467	74%	382,154	100%
17	18,665	19%	80,495	81%	99,160	100%
18	57,778	14%	342,833	86%	400,611	100%
19	88,255	36%	157,335	64%	245,591	100%
20	0	0%	156	100%	156	100%
22	340,381	60%	228,674	40%	569,054	100%
23	2,147	6%	35,896	94%	38,043	100%
24	0	0%	23,900	100%	23,900	100%
25	70,291	31%	155,243	69%	225,533	100%
26	322,306	39%	498,814	61%	821,120	100%
27	78,141	49%	82,719	51%	160,860	100%
28	55,337	24%	179,069	76%	234,406	100%
29	17,715	16%	93,472	84%	111,188	100%
30	67,027	41%	94,869	59%	161,896	100%
31	291,178	36%	515,575	64%	806,753	100%
32	48,715	59%	34,333	41%	83,048	100%
33	55,271	51%	53,400	49%	108,672	100%
34	72,721	23%	240,821	77%	313,543	100%
35	50,165	15%	283,536	85%	333,701	100%
36	19,318	5%	363,089	95%	382,408	100%
37	66,556	22%	236,955	78%	303,511	100%
38	37,964	17%	189,433	83%	227,397	100%

AAZ	Work		Non-Work		TOTAL	
	Count	%	Count	%	Count	%
39	57,546	29%	137,857	71%	195,403	100%
40	102,125	27%	272,246	73%	374,371	100%
41	66,473	16%	360,070	84%	426,543	100%
42	25,466	11%	209,949	89%	235,415	100%
43	207,357	23%	676,571	77%	883,928	100%
44	243,511	46%	284,161	54%	527,672	100%
45	64,285	24%	204,547	76%	268,831	100%
46	87,648	58%	64,290	42%	151,938	100%
47	85,707	30%	199,029	70%	284,736	100%
48	6,284	10%	56,697	90%	62,981	100%
49	41,875	50%	41,228	50%	83,103	100%
50	13,856	17%	68,172	83%	82,028	100%
51	0	0%	18,867	100%	18,867	100%
52	84,583	20%	344,674	80%	429,257	100%
53	54,836	30%	125,671	70%	180,507	100%
54	37,985	19%	165,469	81%	203,454	100%
55	68,721	39%	106,894	61%	175,615	100%
56	15,608	22%	56,281	78%	71,889	100%
57	85,379	47%	95,048	53%	180,427	100%
58	42,835	15%	251,008	85%	293,844	100%
59	64,458	44%	83,186	56%	147,645	100%
60	12,673	8%	155,012	92%	167,685	100%
61	29,265	57%	22,443	43%	51,709	100%
62	0	0%	129,826	100%	129,826	100%
63	0	0%	97,499	100%	97,499	100%
64	36,480	20%	149,965	80%	186,445	100%
65	12,575	30%	29,735	70%	42,311	100%
66	33,218	37%	57,348	63%	90,566	100%
67	88,732	27%	233,955	73%	322,686	100%
68	2,903	2%	164,344	98%	167,247	100%
69	60,849	16%	312,083	84%	372,932	100%
70	94,670	72%	35,910	28%	130,580	100%
71	9,577	75%	3,156	25%	12,733	100%
72	0	0%	156	100%	156	100%
73	56,334	29%	140,402	71%	196,736	100%
74	42,892	44%	54,486	56%	97,378	100%
75	57,913	74%	20,741	26%	78,654	100%
76	0	0%	55,605	100%	55,605	100%
77	11,136	20%	45,635	80%	56,771	100%
78	3,463	5%	63,086	95%	66,549	100%
79	36,270	31%	80,042	69%	116,312	100%
80	46,901	36%	85,041	64%	131,941	100%

AAZ	Work		Non-Work		TOTAL	
	Count	%	Count	%	Count	%
81	113,879	51%	109,662	49%	223,541	100%
82	28,546	15%	156,227	85%	184,773	100%
83	37,974	22%	136,269	78%	174,243	100%
84	6,826	22%	24,686	78%	31,512	100%
85	11,214	4%	276,909	96%	288,122	100%
86	98,787	44%	123,451	56%	222,238	100%
87	90,904	23%	297,267	77%	388,171	100%
88	1,066	2%	47,563	98%	48,629	100%
89	24,493	17%	119,763	83%	144,257	100%
90	24,832	11%	205,380	89%	230,212	100%
91	26,778	13%	176,520	87%	203,298	100%
92	143,377	29%	356,751	71%	500,128	100%
93	143,684	29%	359,363	71%	503,047	100%
94	9,177	3%	294,038	97%	303,215	100%
95	9,329	6%	140,279	94%	149,608	100%
96	31,981	13%	212,337	87%	244,319	100%
97	19,054	17%	93,513	83%	112,567	100%
98	105,365	43%	141,732	57%	247,096	100%
99	45,523	21%	166,220	79%	211,744	100%
100	57,797	37%	99,986	63%	157,783	100%
101	25,268	35%	47,428	65%	72,696	100%
102	10,125	100%	0	0%	10,125	100%
103	36,629	61%	23,644	39%	60,272	100%
104	0	0%	68,757	100%	68,757	100%
105	24,101	21%	91,476	79%	115,577	100%
106	25,191	26%	71,866	74%	97,057	100%
107	36,725	24%	114,466	76%	151,191	100%
108	52,019	11%	427,141	89%	479,160	100%
109	21,798	8%	254,986	92%	276,784	100%
110	60,099	42%	81,611	58%	141,710	100%
111	5,941	10%	55,380	90%	61,321	100%
112	392,480	65%	213,642	35%	606,122	100%
113	0	0%	2,940	100%	2,940	100%
114	0	0%	5,442	100%	5,442	100%
115	0	0%	199,010	100%	199,010	100%
116	0	0%	5,134	100%	5,134	100%
117	19,897	8%	228,424	92%	248,321	100%
118	6,057	5%	122,574	95%	128,631	100%
119	37,157	11%	291,436	89%	328,593	100%
120	11,253	25%	33,484	75%	44,737	100%
121	13,948	10%	127,215	90%	141,163	100%
122	11,909	9%	116,780	91%	128,689	100%

AAZ	Work		Non-Work		TOTAL	
	Count	%	Count	%	Count	%
123	50,635	66%	25,952	34%	76,588	100%
124	67,188	39%	103,780	61%	170,968	100%
125	26,260	34%	51,765	66%	78,024	100%
126	0	0%	12,258	100%	12,258	100%
127	31,686	83%	6,287	17%	37,973	100%
128	24,750	40%	37,531	60%	62,281	100%
129	36,314	27%	99,826	73%	136,140	100%
130	20,805	8%	232,610	92%	253,415	100%
131	72,808	93%	5,674	7%	78,483	100%
132	0	0%	13,604	100%	13,604	100%
133	130,203	22%	455,775	78%	585,977	100%
134	160,894	41%	231,479	59%	392,373	100%
135	17,265	28%	44,928	72%	62,193	100%
136	25,650	32%	55,327	68%	80,977	100%
137	18,226	53%	16,431	47%	34,657	100%
138	2,567	33%	5,223	67%	7,790	100%
139	18,143	16%	95,818	84%	113,960	100%
140	0	0%	110,350	100%	110,350	100%
141	19,804	6%	292,347	94%	312,151	100%
142	0	0%	10,446	100%	10,446	100%
143	32,779	45%	40,466	55%	73,245	100%
144	264,320	48%	283,686	52%	548,006	100%
145	0	0%	57,379	100%	57,379	100%
146	0	0%	21,745	100%	21,745	100%
148	5,635	42%	7,744	58%	13,379	100%
149	20,941	23%	69,199	77%	90,140	100%
150	0	0%	56,595	100%	56,595	100%
151	40,655	18%	189,062	82%	229,717	100%
152	3,786	4%	87,450	96%	91,236	100%
153	21,911	11%	172,870	89%	194,782	100%
154	15,143	17%	74,083	83%	89,226	100%
155	1,217	1%	228,492	99%	229,709	100%
156	18,077	22%	64,389	78%	82,465	100%
157	14,194	9%	141,570	91%	155,764	100%
158	6,663	18%	29,855	82%	36,518	100%
159	41,498	45%	49,971	55%	91,469	100%
160	100,527	25%	302,391	75%	402,918	100%
161	12,239	100%	0	0%	12,239	100%
999	1,093,359	25%	3,298,263	75%	4,391,622	100%
TOTAL	11,181,400	29%	27,059,820	71%	38,241,220	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

APPENDIX I: AIR PASSENGER ORIGINATIONS MODE OF ACCESS BY AAZ – PART 1

Table 27: Air Passenger Originations Mode of Access by AAZ - Part 1

AAZ	Private Car		Rental Car		Taxi		TNC (Uber, Lyft, etc.)		Metrorail		Commuter Rail and Amtrak		Light Rail (BWI)	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
1	0	0%	0	0%	0	0%	18,415	16%	25,270	22%	0	0%	0	0%
2	156,466	11%	37,801	3%	152,171	11%	578,689	42%	235,939	17%	12,741	1%	0	0%
3	123,076	6%	114,391	6%	166,661	8%	1,067,133	52%	511,234	25%	3,140	0%	0	0%
4	46,539	4%	51,116	4%	271,418	21%	677,774	53%	158,388	12%	17,981	1%	0	0%
5	8,419	5%	0	0%	19,997	12%	103,473	63%	28,055	17%	0	0%	0	0%
6	53,427	16%	12,673	4%	28,448	8%	203,886	60%	22,294	7%	0	0%	0	0%
7	12,132	63%	0	0%	0	0%	4,378	23%	2,629	14%	0	0%	0	0%
8	32,717	17%	5,932	3%	1,358	1%	81,467	43%	9,075	5%	57,316	31%	0	0%
9	11,517	28%	0	0%	0	0%	25,052	60%	4,986	12%	0	0%	0	0%
10	112,783	59%	0	0%	2,861	1%	73,716	39%	1,966	1%	0	0%	0	0%
11	132,298	36%	13,708	4%	25,355	7%	174,160	48%	13,556	4%	0	0%	0	0%
12	69,995	34%	0	0%	35,523	17%	68,206	34%	29,762	15%	0	0%	0	0%
13	24,735	13%	0	0%	26,702	14%	91,611	49%	43,565	23%	0	0%	0	0%
14	40,980	14%	7,201	2%	2,573	1%	85,111	29%	56,559	19%	20,097	7%	0	0%
15	0	0%	0	0%	33,015	41%	38,960	48%	8,490	11%	0	0%	0	0%
16	83,837	22%	31,184	8%	0	0%	222,188	58%	40,867	11%	1,009	0%	0	0%
17	56,487	57%	3,354	3%	2,576	3%	36,743	37%	0	0%	0	0%	0	0%
18	59,565	15%	9,646	2%	64,579	16%	131,288	33%	44,386	11%	0	0%	0	0%
19	29,966	12%	3,168	1%	14,008	6%	163,411	67%	21,319	9%	0	0%	0	0%
20	0	0%	0	0%	0	0%	156	100%	0	0%	0	0%	0	0%
22	75,220	13%	135,818	24%	5,941	1%	97,876	17%	38,234	7%	0	0%	0	0%
23	21,075	55%	4,384	12%	0	0%	2,530	7%	6,481	17%	0	0%	0	0%
24	0	0%	12,896	54%	0	0%	0	0%	11,005	46%	0	0%	0	0%

AAZ	Private Car		Rental Car		Taxi		TNC (Uber, Lyft, etc.)		Metrorail		Commuter Rail and Amtrak		Light Rail (BWI)	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
25	34,057	15%	38,751	17%	5,137	2%	80,443	36%	67,146	30%	0	0%	0	0%
26	188,219	23%	22,616	3%	67,742	8%	268,279	33%	261,342	32%	0	0%	0	0%
27	110,735	69%	967	1%	3,120	2%	46,037	29%	0	0%	0	0%	0	0%
28	96,324	41%	9,361	4%	8,588	4%	116,352	50%	3,782	2%	0	0%	0	0%
29	43,415	39%	0	0%	0	0%	67,772	61%	0	0%	0	0%	0	0%
30	71,683	44%	26,415	16%	0	0%	38,725	24%	25,073	15%	0	0%	0	0%
31	249,335	31%	49,210	6%	3,246	0%	232,929	29%	126,485	16%	63,503	8%	0	0%
32	5,477	7%	25,953	31%	0	0%	48,715	59%	2,903	3%	0	0%	0	0%
33	8,218	8%	14,971	14%	13,554	12%	65,938	61%	0	0%	0	0%	0	0%
34	96,849	31%	43,055	14%	2,573	1%	151,721	48%	2,629	1%	0	0%	0	0%
35	151,664	45%	20,355	6%	0	0%	102,578	31%	35,326	11%	0	0%	0	0%
36	111,141	29%	9,446	2%	91,599	24%	147,630	39%	22,592	6%	0	0%	0	0%
37	208,551	69%	23,696	8%	8,815	3%	52,418	17%	10,031	3%	0	0%	0	0%
38	117,969	52%	71,297	31%	0	0%	34,472	15%	1,608	1%	0	0%	0	0%
39	11,164	6%	18,723	10%	0	0%	124,043	63%	30,173	15%	0	0%	0	0%
40	223,343	60%	62,527	17%	24,170	6%	50,265	13%	8,624	2%	0	0%	0	0%
41	193,884	45%	18,502	4%	0	0%	163,124	38%	23,474	6%	0	0%	0	0%
42	9,978	4%	54,096	23%	17,631	7%	50,167	21%	0	0%	0	0%	0	0%
43	292,530	33%	250,781	28%	44,541	5%	246,551	28%	8,624	1%	5,227	1%	0	0%
44	59,738	11%	116,173	22%	7,147	1%	176,681	33%	31,358	6%	0	0%	0	0%
45	127,900	48%	7,482	3%	52,526	20%	53,502	20%	9,672	4%	0	0%	0	0%
46	36,101	24%	19,617	13%	5,518	4%	88,653	58%	2,049	1%	0	0%	0	0%
47	30,979	11%	42,307	15%	7,067	2%	106,785	38%	85,122	30%	0	0%	0	0%
48	4,370	7%	0	0%	6,284	10%	38,442	61%	13,885	22%	0	0%	0	0%
49	12,328	15%	0	0%	3,913	5%	66,862	80%	0	0%	0	0%	0	0%
50	0	0%	2,040	2%	7,543	9%	60,163	73%	12,282	15%	0	0%	0	0%
51	6,799	36%	6,056	32%	0	0%	6,012	32%	0	0%	0	0%	0	0%
52	138,846	32%	77,587	18%	12,067	3%	179,646	42%	15,982	4%	5,128	1%	0	0%
53	37,453	21%	0	0%	764	0%	109,752	61%	32,538	18%	0	0%	0	0%

AAZ	Private Car		Rental Car		Taxi		TNC (Uber, Lyft, etc.)		Metrorail		Commuter Rail and Amtrak		Light Rail (BWI)	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
54	63,098	31%	2,175	1%	7,543	4%	100,325	49%	21,959	11%	0	0%	0	0%
55	94,096	54%	17,132	10%	0	0%	64,387	37%	0	0%	0	0%	0	0%
56	26,630	37%	17,981	25%	5,442	8%	9,361	13%	0	0%	0	0%	0	0%
57	77,209	43%	11,898	7%	5,261	3%	69,967	39%	13,598	8%	0	0%	0	0%
58	176,687	60%	16,043	5%	5,441	2%	33,146	11%	62,527	21%	0	0%	0	0%
59	61,991	42%	0	0%	5,763	4%	40,826	28%	6,799	5%	0	0%	0	0%
60	67,107	40%	3,006	2%	3,881	2%	93,692	56%	0	0%	0	0%	0	0%
61	2,443	5%	0	0%	0	0%	48,032	93%	1,234	2%	0	0%	0	0%
62	78,228	60%	19,989	15%	0	0%	28,239	22%	3,371	3%	0	0%	0	0%
63	36,967	38%	0	0%	21,989	23%	6,841	7%	31,702	33%	0	0%	0	0%
64	117,054	63%	16,003	9%	3,573	2%	42,519	23%	5,761	3%	0	0%	0	0%
65	18,622	44%	0	0%	0	0%	12,575	30%	11,114	26%	0	0%	0	0%
66	32,815	36%	0	0%	0	0%	49,742	55%	8,009	9%	0	0%	0	0%
67	58,116	18%	8,076	3%	20,921	6%	210,023	65%	24,190	7%	1,360	0%	0	0%
68	0	0%	10,875	7%	0	0%	156,372	93%	0	0%	0	0%	0	0%
69	185,722	50%	14,667	4%	0	0%	126,079	34%	38,159	10%	8,304	2%	0	0%
70	48,703	37%	6,537	5%	0	0%	64,227	49%	11,114	9%	0	0%	0	0%
71	5,635	44%	7,098	56%	0	0%	0	0%	0	0%	0	0%	0	0%
72	156	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
73	157,338	80%	22,598	11%	0	0%	16,800	9%	0	0%	0	0%	0	0%
74	28,614	29%	21,634	22%	0	0%	25,108	26%	22,022	23%	0	0%	0	0%
75	41,799	53%	0	0%	0	0%	36,387	46%	0	0%	0	0%	0	0%
76	51,718	93%	3,887	7%	0	0%	0	0%	0	0%	0	0%	0	0%
77	33,383	59%	0	0%	0	0%	13,351	24%	10,037	18%	0	0%	0	0%
78	58,851	88%	4,541	7%	1,608	2%	1,549	2%	0	0%	0	0%	0	0%
79	99,523	86%	13,586	12%	0	0%	3,202	3%	0	0%	0	0%	0	0%
80	12,617	10%	64,878	49%	30,832	23%	23,614	18%	0	0%	0	0%	0	0%
81	7,531	3%	78,598	35%	34,934	16%	90,196	40%	3,202	1%	5,168	2%	0	0%
82	86,441	47%	19,150	10%	4,779	3%	35,118	19%	35,735	19%	0	0%	0	0%

AAZ	Private Car		Rental Car		Taxi		TNC (Uber, Lyft, etc.)		Metrorail		Commuter Rail and Amtrak		Light Rail (BWI)	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
83	158,274	91%	3,354	2%	0	0%	12,616	7%	0	0%	0	0%	0	0%
84	27,888	88%	0	0%	0	0%	3,624	12%	0	0%	0	0%	0	0%
85	223,974	78%	0	0%	0	0%	64,148	22%	0	0%	0	0%	0	0%
86	182,140	82%	2,051	1%	0	0%	20,198	9%	2,555	1%	0	0%	0	0%
87	272,436	70%	56,140	14%	13,466	3%	38,507	10%	0	0%	0	0%	0	0%
88	42,122	87%	0	0%	1,066	2%	5,441	11%	0	0%	0	0%	0	0%
89	52,230	36%	0	0%	5,776	4%	86,250	60%	0	0%	0	0%	0	0%
90	47,032	20%	22,871	10%	13,079	6%	52,557	23%	0	0%	0	0%	0	0%
91	195,722	96%	3,042	1%	0	0%	4,534	2%	0	0%	0	0%	0	0%
92	205,257	41%	123,451	25%	19,286	4%	63,443	13%	8,134	2%	0	0%	0	0%
93	274,209	55%	46,139	9%	18,754	4%	77,792	15%	55,598	11%	0	0%	0	0%
94	283,821	94%	3,067	1%	0	0%	0	0%	3,624	1%	0	0%	0	0%
95	143,474	96%	0	0%	0	0%	6,134	4%	0	0%	0	0%	0	0%
96	212,009	87%	32,310	13%	0	0%	0	0%	0	0%	0	0%	0	0%
97	29,324	26%	12,579	11%	9,764	9%	6,475	6%	0	0%	0	0%	0	0%
98	247,096	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
99	208,443	98%	2,019	1%	0	0%	1,282	1%	0	0%	0	0%	0	0%
100	65,662	42%	0	0%	0	0%	50,239	32%	0	0%	0	0%	0	0%
101	46,419	64%	20,045	28%	0	0%	5,223	7%	1,009	1%	0	0%	0	0%
102	10,125	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
103	18,507	31%	5,137	9%	0	0%	36,629	61%	0	0%	0	0%	0	0%
104	43,368	63%	0	0%	0	0%	9,177	13%	0	0%	0	0%	0	0%
105	95,499	83%	20,079	17%	0	0%	0	0%	0	0%	0	0%	0	0%
106	85,330	88%	11,726	12%	0	0%	0	0%	0	0%	0	0%	0	0%
107	107,966	71%	21,828	14%	0	0%	13,379	9%	0	0%	0	0%	0	0%
108	383,565	80%	50,592	11%	35,625	7%	9,378	2%	0	0%	0	0%	0	0%
109	202,335	73%	20,891	8%	0	0%	45,174	16%	0	0%	0	0%	0	0%
110	0	0%	44,062	31%	0	0%	33,385	24%	0	0%	0	0%	0	0%
111	41,790	68%	0	0%	0	0%	0	0%	5,941	10%	0	0%	0	0%

AAZ	Private Car		Rental Car		Taxi		TNC (Uber, Lyft, etc.)		Metrorail		Commuter Rail and Amtrak		Light Rail (BWI)	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
112	151,288	25%	251,993	42%	0	0%	21,753	4%	0	0%	0	0%	0	0%
113	2,940	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
114	0	0%	5,442	100%	0	0%	0	0%	0	0%	0	0%	0	0%
115	176,421	89%	22,589	11%	0	0%	0	0%	0	0%	0	0%	0	0%
116	5,134	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
117	135,091	54%	6,663	3%	0	0%	19,897	8%	0	0%	0	0%	0	0%
118	50,455	39%	0	0%	0	0%	78,176	61%	0	0%	0	0%	0	0%
119	97,861	30%	87,711	27%	0	0%	143,021	44%	0	0%	0	0%	0	0%
120	7,444	17%	13,401	30%	0	0%	23,892	53%	0	0%	0	0%	0	0%
121	127,215	90%	4,469	3%	0	0%	9,478	7%	0	0%	0	0%	0	0%
122	67,034	52%	33,562	26%	0	0%	0	0%	4,316	3%	0	0%	0	0%
123	72,315	94%	4,272	6%	0	0%	0	0%	0	0%	0	0%	0	0%
124	149,992	88%	14,529	8%	0	0%	6,448	4%	0	0%	0	0%	0	0%
125	57,950	74%	8,463	11%	0	0%	0	0%	0	0%	11,612	15%	0	0%
126	5,258	43%	7,000	57%	0	0%	0	0%	0	0%	0	0%	0	0%
127	23,066	61%	468	1%	0	0%	0	0%	14,438	38%	0	0%	0	0%
128	31,868	51%	23,738	38%	3,766	6%	2,909	5%	0	0%	0	0%	0	0%
129	126,044	93%	3,942	3%	0	0%	5,495	4%	0	0%	0	0%	0	0%
130	227,376	90%	22,227	9%	0	0%	3,812	2%	0	0%	0	0%	0	0%
131	7,904	10%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
132	7,070	52%	0	0%	0	0%	0	0%	0	0%	6,534	48%	0	0%
133	185,062	32%	19,183	3%	130,856	22%	194,580	33%	0	0%	0	0%	13,586	2%
134	46,150	12%	37,508	10%	105,017	27%	176,970	45%	19,286	5%	0	0%	363	0%
135	50,563	81%	3,578	6%	0	0%	8,051	13%	0	0%	0	0%	0	0%
136	20,918	26%	9,548	12%	0	0%	25,463	31%	0	0%	0	0%	0	0%
137	28,267	82%	0	0%	0	0%	6,390	18%	0	0%	0	0%	0	0%
138	7,790	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
139	9,865	9%	3,651	3%	3,140	3%	57,075	50%	0	0%	40,229	35%	0	0%
140	71,433	65%	6,056	5%	0	0%	32,862	30%	0	0%	0	0%	0	0%

AAZ	Private Car		Rental Car		Taxi		TNC (Uber, Lyft, etc.)		Metrorail		Commuter Rail and Amtrak		Light Rail (BWI)	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
141	77,442	25%	13,326	4%	0	0%	221,383	71%	0	0%	0	0%	0	0%
142	0	0%	10,446	100%	0	0%	0	0%	0	0%	0	0%	0	0%
143	32,723	45%	7,744	11%	0	0%	2,493	3%	0	0%	0	0%	0	0%
144	189,305	35%	63,930	12%	0	0%	294,771	54%	0	0%	0	0%	0	0%
145	43,107	75%	0	0%	0	0%	14,272	25%	0	0%	0	0%	0	0%
146	20,079	92%	0	0%	0	0%	1,666	8%	0	0%	0	0%	0	0%
148	5,635	42%	0	0%	0	0%	7,744	58%	0	0%	0	0%	0	0%
149	90,140	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
150	47,264	84%	0	0%	0	0%	9,331	16%	0	0%	0	0%	0	0%
151	102,661	45%	7,162	3%	0	0%	84,240	37%	0	0%	0	0%	0	0%
152	46,455	51%	34,542	38%	0	0%	8,304	9%	0	0%	0	0%	1,935	2%
153	128,551	66%	39,663	20%	22,630	12%	3,938	2%	0	0%	0	0%	0	0%
154	62,557	70%	15,143	17%	0	0%	11,526	13%	0	0%	0	0%	0	0%
155	125,804	55%	96,600	42%	0	0%	1,217	1%	0	0%	0	0%	6,088	3%
156	82,465	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
157	106,437	68%	43,319	28%	0	0%	6,008	4%	0	0%	0	0%	0	0%
158	36,518	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
159	89,797	98%	0	0%	0	0%	1,672	2%	0	0%	0	0%	0	0%
160	392,969	98%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
161	12,239	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
999	3,064,220	70%	951,113	22%	40,020	1%	150,101	3%	22,842	1%	0	0%	0	0%
TOTAL	16,171,531	42%	4,229,975	11%	1,820,944	5%	10,603,084	28%	2,595,034	7%	259,350	1%	21,973	0%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

APPENDIX J: AIR PASSENGER ORIGINATIONS MODE OF ACCESS BY AAZ – PART 2

Table 28: Air Passenger Originations Mode of Access by AAZ - Part 2

AAZ	Airport Bus/Van/Limo		Hotel/Motel Courtesy Bus		Metrobus		Walked		Biked		Other	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
1	0	0%	0	0%	0	0%	0	0%	0	0%	71,294	62%
2	0	0%	764	0%	0	0%	0	0%	0	0%	194,364	14%
3	35,962	2%	1,716	0%	21,616	1%	22,049	1%	0	0%	3,344	0%
4	0	0%	0	0%	0	0%	0	0%	60,650	5%	3,869	0%
5	0	0%	0	0%	0	0%	5,502	3%	0	0%	0	0%
6	0	0%	0	0%	8,973	3%	0	0%	0	0%	10,767	3%
7	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
8	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
9	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
10	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
11	0	0%	0	0%	0	0%	0	0%	0	0%	5,819	2%
12	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
13	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
14	0	0%	0	0%	51,138	17%	0	0%	0	0%	30,159	10%
15	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
16	0	0%	3,068	1%	0	0%	0	0%	0	0%	0	0%
17	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
18	0	0%	0	0%	0	0%	0	0%	0	0%	91,147	23%
19	0	0%	0	0%	0	0%	0	0%	13,718	6%	0	0%
20	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
22	4,240	1%	199,232	35%	0	0%	8,623	2%	0	0%	3,869	1%
23	0	0%	3,574	9%	0	0%	0	0%	0	0%	0	0%
24	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
25	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
26	0	0%	12,921	2%	0	0%	0	0%	0	0%	0	0%
27	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
28	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
29	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
30	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
31	0	0%	20,857	3%	0	0%	0	0%	0	0%	61,188	8%
32	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
33	0	0%	0	0%	0	0%	0	0%	0	0%	5,990	6%
34	6,688	2%	3,624	1%	0	0%	6,404	2%	0	0%	0	0%
35	0	0%	23,778	7%	0	0%	0	0%	0	0%	0	0%
36	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
37	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
38	0	0%	2,051	1%	0	0%	0	0%	0	0%	0	0%
39	0	0%	0	0%	0	0%	0	0%	0	0%	11,299	6%

AAZ	Airport Bus/Van/Limo		Hotel/Motel Courtesy Bus		Metrobus		Walked		Biked		Other	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
40	0	0%	0	0%	0	0%	0	0%	0	0%	5,443	1%
41	0	0%	0	0%	1,028	0%	0	0%	0	0%	26,530	6%
42	0	0%	103,544	44%	0	0%	0	0%	0	0%	0	0%
43	0	0%	0	0%	0	0%	0	0%	0	0%	35,675	4%
44	0	0%	136,575	26%	0	0%	0	0%	0	0%	0	0%
45	0	0%	1,610	1%	0	0%	0	0%	0	0%	16,138	6%
46	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
47	0	0%	0	0%	0	0%	0	0%	0	0%	12,475	4%
48	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
49	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
50	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
51	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
52	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
53	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
54	0	0%	0	0%	0	0%	0	0%	0	0%	8,354	4%
55	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
56	0	0%	12,475	17%	0	0%	0	0%	0	0%	0	0%
57	2,493	1%	0	0%	0	0%	0	0%	0	0%	0	0%
58	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
59	0	0%	0	0%	16,876	11%	0	0%	0	0%	15,390	10%
60	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
61	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
62	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
63	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
64	0	0%	0	0%	0	0%	0	0%	0	0%	1,534	1%
65	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
66	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
67	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
68	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
69	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
70	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
71	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
72	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
73	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
74	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
75	0	0%	0	0%	0	0%	468	1%	0	0%	0	0%
76	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
77	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
78	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
79	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
80	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
81	0	0%	0	0%	0	0%	0	0%	0	0%	3,913	2%
82	0	0%	1,676	1%	0	0%	0	0%	0	0%	1,874	1%

AAZ	Airport Bus/Van/Limo		Hotel/Motel Courtesy Bus		Metrobus		Walked		Biked		Other	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
83	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
84	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
85	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
86	0	0%	0	0%	0	0%	0	0%	0	0%	15,294	7%
87	0	0%	0	0%	0	0%	0	0%	0	0%	7,623	2%
88	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
89	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
90	59,361	26%	35,312	15%	0	0%	0	0%	0	0%	0	0%
91	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
92	6,988	1%	59,955	12%	0	0%	0	0%	0	0%	13,614	3%
93	25,869	5%	0	0%	0	0%	0	0%	0	0%	4,686	1%
94	0	0%	0	0%	0	0%	0	0%	0	0%	12,702	4%
95	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
96	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
97	0	0%	0	0%	0	0%	0	0%	0	0%	54,426	48%
98	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
99	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100	0	0%	41,882	27%	0	0%	0	0%	0	0%	0	0%
101	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
102	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
103	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
104	0	0%	16,212	24%	0	0%	0	0%	0	0%	0	0%
105	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
106	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
107	0	0%	0	0%	0	0%	0	0%	0	0%	8,018	5%
108	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
109	0	0%	8,384	3%	0	0%	0	0%	0	0%	0	0%
110	33,441	24%	0	0%	0	0%	0	0%	0	0%	30,822	22%
111	0	0%	11,612	19%	0	0%	0	0%	0	0%	1,978	3%
112	117,655	19%	56,758	9%	0	0%	0	0%	0	0%	6,675	1%
113	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
114	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
115	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
116	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
117	86,670	35%	0	0%	0	0%	0	0%	0	0%	0	0%
118	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
119	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
120	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
121	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
122	0	0%	0	0%	0	0%	0	0%	0	0%	23,778	18%
123	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
124	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
125	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%

AAZ	Airport Bus/Van/Limo		Hotel/Motel Courtesy Bus		Metrobus		Walked		Biked		Other	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
126	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
127	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
128	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
129	0	0%	0	0%	0	0%	0	0%	0	0%	659	0%
130	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
131	0	0%	0	0%	70,579	90%	0	0%	0	0%	0	0%
132	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
133	0	0%	0	0%	0	0%	0	0%	0	0%	42,710	7%
134	0	0%	3,747	1%	0	0%	0	0%	0	0%	3,331	1%
135	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
136	25,048	31%	0	0%	0	0%	0	0%	0	0%	0	0%
137	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
138	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
139	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
140	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
141	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
142	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
143	0	0%	30,286	41%	0	0%	0	0%	0	0%	0	0%
144	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
145	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
146	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
148	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
149	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
150	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
151	21,382	9%	0	0%	0	0%	0	0%	0	0%	14,272	6%
152	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
153	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
154	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
155	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
156	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
157	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
158	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
159	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
160	0	0%	0	0%	0	0%	0	0%	0	0%	9,949	2%
161	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
999	26,299	1%	55,448	1%	0	0%	0	0%	0	0%	81,578	2%
TOTAL	452,094	1%	847,062	2%	170,210	0%	43,046	0%	74,368	0%	952,548	2%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

APPENDIX K: AIR PASSENGER ORIGINATIONS RESIDENT STATUS BY AAZ

Table 29: Air Passenger Originations Resident Status by AAZ

AAZ	Resident		Non-Resident		TOTAL	
	Count	%	Count	%	Count	%
1	8,574	7%	106,405	93%	114,978	100%
2	373,664	27%	993,328	73%	1,366,992	100%
3	239,497	12%	1,830,825	88%	2,070,322	100%
4	266,379	21%	1,018,425	79%	1,284,803	100%
5	41,089	25%	124,358	75%	165,447	100%
6	60,507	18%	279,960	82%	340,467	100%
7	2,629	14%	16,510	86%	19,139	100%
8	145,015	77%	42,850	23%	187,866	100%
9	23,500	57%	18,055	43%	41,555	100%
10	166,722	87%	24,603	13%	191,325	100%
11	276,933	76%	87,962	24%	364,895	100%
12	143,937	71%	57,877	29%	201,813	100%
13	117,681	63%	68,930	37%	186,612	100%
14	121,382	41%	172,436	59%	293,818	100%
15	18,334	23%	62,130	77%	80,465	100%
16	129,830	34%	252,325	66%	382,154	100%
17	81,365	82%	17,795	18%	99,160	100%
18	40,651	10%	359,960	90%	400,611	100%
19	95,049	39%	150,541	61%	245,591	100%
20	0	0%	156	100%	156	100%
22	87,585	15%	481,469	85%	569,054	100%
23	12,246	32%	25,797	68%	38,043	100%
24	0	0%	23,900	100%	23,900	100%
25	68,520	30%	157,013	70%	225,533	100%
26	357,241	44%	463,879	56%	821,120	100%
27	147,992	92%	12,868	8%	160,860	100%
28	122,160	52%	112,245	48%	234,406	100%
29	49,336	44%	61,851	56%	111,188	100%
30	95,224	59%	66,672	41%	161,896	100%
31	320,771	40%	485,982	60%	806,753	100%
32	13,565	16%	69,483	84%	83,048	100%
33	72,175	66%	36,497	34%	108,672	100%
34	130,413	42%	183,130	58%	313,543	100%
35	133,235	41%	191,105	59%	324,340	100%
36	279,541	73%	102,866	27%	382,408	100%
37	218,908	72%	84,603	28%	303,511	100%
38	127,733	56%	99,664	44%	227,397	100%
39	63,017	32%	132,386	68%	195,403	100%
40	217,196	58%	157,175	42%	374,371	100%

AAZ	Resident		Non-Resident		TOTAL	
	Count	%	Count	%	Count	%
41	204,706	48%	221,837	52%	426,543	100%
42	68,729	29%	166,686	71%	235,415	100%
43	456,023	52%	427,905	48%	883,928	100%
44	112,982	21%	414,689	79%	527,672	100%
45	144,055	54%	124,776	46%	268,831	100%
46	65,016	43%	86,923	57%	151,938	100%
47	197,600	69%	87,136	31%	284,736	100%
48	34,119	54%	28,862	46%	62,981	100%
49	60,844	73%	22,259	27%	83,103	100%
50	71,773	87%	10,255	13%	82,028	100%
51	6,012	32%	12,855	68%	18,867	100%
52	164,287	38%	264,970	62%	429,257	100%
53	114,721	64%	65,786	36%	180,507	100%
54	122,052	60%	81,401	40%	203,454	100%
55	135,455	77%	40,160	23%	175,615	100%
56	45,088	63%	26,801	37%	71,889	100%
57	108,311	60%	72,115	40%	180,427	100%
58	257,825	89%	30,578	11%	288,403	100%
59	130,213	88%	17,432	12%	147,645	100%
60	161,373	96%	6,313	4%	167,685	100%
61	44,757	87%	6,952	13%	51,709	100%
62	88,335	68%	41,491	32%	129,826	100%
63	67,468	69%	30,031	31%	97,499	100%
64	124,803	67%	61,642	33%	186,445	100%
65	28,317	67%	13,994	33%	42,311	100%
66	74,783	83%	15,783	17%	90,566	100%
67	255,411	79%	67,276	21%	322,686	100%
68	164,754	99%	2,493	1%	167,247	100%
69	254,694	68%	118,238	32%	372,932	100%
70	81,214	62%	49,366	38%	130,580	100%
71	8,791	100%	0	0%	8,791	100%
72	156	100%	0	0%	156	100%
73	163,447	83%	33,289	17%	196,736	100%
74	71,392	73%	25,986	27%	97,378	100%
75	76,520	97%	2,134	3%	78,654	100%
76	32,773	59%	22,832	41%	55,605	100%
77	49,907	88%	6,864	12%	56,771	100%
78	60,458	91%	6,090	9%	66,549	100%
79	102,725	88%	13,586	12%	116,312	100%
80	17,725	13%	114,216	87%	131,941	100%
81	3,354	2%	220,187	98%	223,541	100%
82	77,000	42%	107,773	58%	184,773	100%
83	148,932	85%	25,311	15%	174,243	100%
84	6,826	22%	24,686	78%	31,512	100%

AAZ	Resident		Non-Resident		TOTAL	
	Count	%	Count	%	Count	%
85	264,236	92%	23,886	8%	288,122	100%
86	212,564	96%	9,674	4%	222,238	100%
87	266,511	69%	121,660	31%	388,171	100%
88	22,591	46%	26,038	54%	48,629	100%
89	144,257	100%	0	0%	144,257	100%
90	100,858	44%	129,354	56%	230,212	100%
91	59,413	29%	143,885	71%	203,298	100%
92	214,591	44%	275,258	56%	489,849	100%
93	412,469	82%	90,578	18%	503,047	100%
94	191,384	63%	111,831	37%	303,215	100%
95	142,933	96%	6,675	4%	149,608	100%
96	191,222	78%	53,096	22%	244,319	100%
97	28,725	26%	83,842	74%	112,567	100%
98	225,749	91%	21,347	9%	247,096	100%
99	208,443	98%	3,301	2%	211,744	100%
100	98,780	63%	59,003	37%	157,783	100%
101	38,378	66%	20,045	34%	58,423	100%
102	10,125	100%	0	0%	10,125	100%
103	35,651	59%	24,622	41%	60,272	100%
104	49,045	71%	19,712	29%	68,757	100%
105	112,383	97%	3,195	3%	115,577	100%
106	85,330	88%	11,726	12%	97,057	100%
107	80,090	53%	71,101	47%	151,191	100%
108	102,606	21%	376,554	79%	479,160	100%
109	224,221	81%	52,563	19%	276,784	100%
110	3,099	2%	138,611	98%	141,710	100%
111	35,692	58%	25,629	42%	61,321	100%
112	82,942	14%	523,180	86%	606,122	100%
113	2,940	100%	0	0%	2,940	100%
114	0	0%	5,442	100%	5,442	100%
115	141,689	71%	57,321	29%	199,010	100%
116	5,134	100%	0	0%	5,134	100%
117	56,696	23%	191,624	77%	248,321	100%
118	13,093	10%	115,538	90%	128,631	100%
119	52,569	16%	276,025	84%	328,593	100%
120	2,386	6%	39,156	94%	41,542	100%
121	119,851	85%	21,312	15%	141,163	100%
122	41,076	32%	87,613	68%	128,689	100%
123	69,807	91%	6,781	9%	76,588	100%
124	102,454	60%	68,514	40%	170,968	100%
125	55,860	72%	22,165	28%	78,024	100%
126	5,258	43%	7,000	57%	12,258	100%
127	31,686	83%	6,287	17%	37,973	100%
128	10,417	17%	51,865	83%	62,281	100%

AAZ	Resident		Non-Resident		TOTAL	
	Count	%	Count	%	Count	%
129	62,798	46%	73,342	54%	136,140	100%
130	77,011	31%	172,592	69%	249,603	100%
131	2,229	3%	76,254	97%	78,483	100%
132	7,070	52%	6,534	48%	13,604	100%
133	229,743	39%	356,234	61%	585,977	100%
134	41,437	11%	350,936	89%	392,373	100%
135	28,389	46%	33,803	54%	62,193	100%
136	46,380	57%	34,597	43%	80,977	100%
137	26,595	77%	8,061	23%	34,657	100%
138	2,567	33%	5,223	67%	7,790	100%
139	61,393	54%	52,567	46%	113,960	100%
140	57,971	53%	52,380	47%	110,350	100%
141	68,298	22%	243,853	78%	312,151	100%
142	0	0%	10,446	100%	10,446	100%
143	5,718	8%	67,527	92%	73,245	100%
144	217,904	40%	330,101	60%	548,006	100%
145	41,277	72%	16,102	28%	57,379	100%
146	1,666	8%	20,079	92%	21,745	100%
148	13,379	100%	0	0%	13,379	100%
149	74,038	82%	16,102	18%	90,140	100%
150	45,096	80%	11,499	20%	56,595	100%
151	144,317	63%	85,400	37%	229,717	100%
152	54,759	60%	36,477	40%	91,236	100%
153	185,781	95%	9,001	5%	194,782	100%
154	62,557	70%	26,669	30%	89,226	100%
155	108,881	47%	120,828	53%	229,709	100%
156	82,465	100%	0	0%	82,465	100%
157	72,566	61%	45,456	39%	118,022	100%
158	36,518	100%	0	0%	36,518	100%
159	84,574	92%	6,895	8%	91,469	100%
160	364,922	91%	37,996	9%	402,918	100%
161	12,239	100%	0	0%	12,239	100%
999	1,180,866	28%	3,069,857	72%	4,250,723	100%
TOTAL	17,391,934	46%	20,613,797	54%	38,005,731	100%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

APPENDIX L: AIR PASSENGER ORIGINATIONS BY JURISDICTION

Table 30: Air Passenger Originations by Jurisdiction

Jurisdiction	BWI		DCA		IAD		REGION	
	Count	%	Count	%	Count	%	Count	%
Alexandria City	80,880	7%	747,043	64%	332,446	29%	1,160,369	100%
Anne Arundel County	2,425,374	91%	135,172	5%	108,521	4%	2,669,067	100%
Arlington County	210,628	10%	1,359,999	62%	613,477	28%	2,184,104	100%
Baltimore City	2,191,478	92%	10,681	0%	187,345	8%	2,389,504	100%
Baltimore County	1,008,806	78%	105,347	8%	177,124	14%	1,291,277	100%
Calvert County	77,983	61%	25,705	20%	25,001	19%	128,689	100%
Carroll County	192,115	78%	0	0%	54,981	22%	247,096	100%
Charles County	77,366	31%	117,617	47%	54,009	22%	248,992	100%
Fredericksburg City	0	0%	25,414	41%	36,867	59%	62,281	100%
Clarke County	70,579	90%	0	0%	7,904	10%	78,483	100%
District of Columbia	854,081	11%	5,435,402	68%	1,755,235	22%	8,044,717	100%
Fairfax County	90,668	2%	1,825,169	37%	2,993,560	61%	4,909,396	100%
Fauquier County	0	0%	128,549	51%	124,865	49%	253,415	100%
Frederick County	306,747	61%	19,828	4%	179,919	36%	506,494	100%
Harford County	482,965	95%	1,672	0%	21,989	4%	506,626	100%
Howard County	752,094	80%	45,650	5%	147,457	16%	945,202	100%
Jefferson County	13,604	100%	0	0%	0	0%	13,604	100%
King George County	0	0%	0	0%	12,258	100%	12,258	100%
Loudoun County	110,216	6%	256,295	14%	1,517,646	81%	1,884,157	100%
Montgomery County	993,450	31%	934,344	29%	1,257,796	39%	3,185,590	100%
Prince George's County	806,629	47%	650,760	38%	267,272	15%	1,724,661	100%
Prince William County	659	0%	327,448	28%	824,809	72%	1,152,916	100%
Spotsylvania County	0	0%	6,287	17%	31,686	83%	37,973	100%
St. Mary's County	61,224	80%	6,781	9%	8,583	11%	76,588	100%
Stafford County	659	0%	105,373	77%	30,108	22%	136,140	100%
Externals	2,290,914	52%	464,591	11%	1,636,116	37%	4,391,622	100%
Total	13,099,118	34%	12,735,128	33%	10,770,858	28%	38,241,220	96%

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Table 31: Air Passenger Originations Home and Non-Home by Jurisdiction

Jurisdiction	BWI		DCA		IAD		REGION		
	Home	Non-Home	Home	Non-Home	Home	Non-Home	Home	Non-Home	Total
Alexandria City	80,880	0	335,766	411,277	272,506	59,940	689,152	471,217	1,160,369
Anne Arundel County	1,323,060	1,102,314	91,465	43,707	26,655	81,866	1,441,181	1,227,886	2,669,067
Arlington County	29,823	180,806	596,065	763,934	391,110	222,368	1,016,997	1,167,107	2,184,104
Baltimore City	1,020,866	1,170,611	4,533	6,149	78,934	108,411	1,104,333	1,285,171	2,389,504
Baltimore County	956,140	52,665	64,542	40,805	157,045	20,079	1,177,728	113,549	1,291,277
Calvert County	53,947	24,037	25,705	0	21,283	3,719	100,934	27,755	128,689
Carroll County	162,427	29,689	0	0	54,981	0	217,408	29,689	247,096
Charles County	71,439	5,927	87,085	30,532	54,009	0	212,533	36,459	248,992
Fredericksburg City	0	0	6,654	18,761	15,661	21,206	22,315	39,967	62,281
Clarke County	70,579	0	0	0	7,904	0	78,483	0	78,483
District of Columbia	272,598	581,482	1,803,144	3,632,258	960,016	795,218	3,035,759	5,008,958	8,044,717
Fairfax County	47,288	43,379	1,196,438	628,731	2,063,601	929,959	3,307,327	1,602,069	4,909,396
Fauquier County	0	0	128,549	0	102,638	22,227	231,188	22,227	253,415
Frederick County	300,072	6,675	19,828	0	141,619	38,300	461,519	44,974	506,494
Harford County	482,965	0	0	1,672	21,989	0	504,954	1,672	506,626
Howard County	636,191	115,903	22,010	23,640	96,288	51,169	754,490	190,712	945,202
Jefferson County	13,604	0	0	0	0	0	13,604	0	13,604
King George County	0	0	0	0	12,258	0	12,258	0	12,258
Loudoun County	37,900	72,316	211,144	45,151	1,035,656	481,990	1,284,699	599,457	1,884,157
Montgomery County	753,835	239,615	717,943	216,401	1,126,002	131,793	2,597,781	587,809	3,185,590
Prince George's County	632,794	173,835	287,430	363,330	190,599	76,673	1,110,823	613,837	1,724,661
Prince William County	659	0	317,358	10,090	708,146	116,662	1,026,163	126,753	1,152,916
Spotsylvania County	0	0	6,287	0	31,686	0	37,973	0	37,973
St. Mary's County	61,224	0	2,508	4,272	8,583	0	72,315	4,272	76,588
Stafford County	659	0	94,179	11,194	30,108	0	124,946	11,194	136,140
Externals	1,841,762	449,153	303,481	161,110	1,279,291	356,825	3,424,534	967,088	4,391,622
TOTAL	8,850,713	4,248,405	6,322,114	6,413,014	8,888,568	3,518,406	24,061,395	14,179,825	38,241,220

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Table 32: Air Passenger Originations Work and Non-Work by Jurisdiction

Jurisdiction	BWI		DCA		IAD		REGION		
	Work	Non-Work	Work	Non-Work	Work	Non-Work	Work	Non-Work	Total
Alexandria City	0	80,880	369,407	377,636	92,785	239,661	462,192	698,177	1,160,369
Anne Arundel County	561,750	1,863,624	49,292	85,880	9,607	98,914	620,649	2,048,418	2,669,067
Arlington County	134,652	75,976	514,808	845,191	236,858	376,619	886,317	1,297,787	2,184,104
Baltimore City	653,001	1,538,476	7,209	3,472	29,640	157,704	689,851	1,699,653	2,389,504
Baltimore County	144,285	864,521	0	105,347	3,938	173,186	148,222	1,143,054	1,291,277
Calvert County	5,635	72,348	2,555	23,150	3,719	21,283	11,909	116,780	128,689
Carroll County	62,334	129,781	0	0	43,030	11,951	105,365	141,732	247,096
Charles County	5,635	71,731	50,203	67,414	37,610	16,400	93,448	155,545	248,992
Fredericksburg City	0	0	18,761	6,654	5,990	30,877	24,750	37,531	62,281
Clarke County	70,579	0	0	0	2,229	5,674	72,808	5,674	78,483
District of Columbia	182,386	671,694	2,559,399	2,876,003	514,667	1,240,568	3,256,451	4,788,266	8,044,717
Fairfax County	0	90,668	325,237	1,499,932	861,607	2,131,953	1,186,843	3,722,553	4,909,396
Fauquier County	0	0	0	128,549	20,805	104,060	20,805	232,610	253,415
Frederick County	22,066	284,681	12,579	7,249	25,720	154,199	60,364	446,130	506,494
Harford County	154,264	328,701	0	1,672	0	21,989	154,264	352,362	506,626
Howard County	182,178	569,916	10,125	35,525	69,056	78,401	261,360	683,842	945,202
Jefferson County	0	13,604	0	0	0	0	0	13,604	13,604
King George County	0	0	0	0	0	12,258	0	12,258	12,258
Loudoun County	0	110,216	91,285	165,010	281,057	1,236,590	372,341	1,511,815	1,884,157
Montgomery County	95,116	898,334	336,568	597,776	300,581	957,214	732,266	2,453,324	3,185,590
Prince George's County	253,109	553,520	255,667	395,094	53,652	213,620	562,428	1,162,233	1,724,661
Prince William County	0	659	36,384	291,064	210,386	614,422	246,771	906,145	1,152,916
Spotsylvania County	0	0	0	6,287	31,686	0	31,686	6,287	37,973
St. Mary's County	40,229	20,995	4,272	2,508	6,134	2,449	50,635	25,952	76,588
Stafford County	0	659	25,324	80,050	10,990	19,117	36,314	99,826	136,140
Externals	787,263	1,503,652	78,028	386,563	228,068	1,408,048	1,093,359	3,298,263	4,391,622
TOTAL	3,354,483	9,744,635	4,747,102	7,988,026	3,079,815	9,327,159	11,181,400	27,059,820	38,241,220

Source: Washington-Baltimore Regional Air Passenger Survey 2023

Table 33: Air Passenger Originations Resident Status by Jurisdiction

Jurisdiction	BWI		DCA		IAD		REGION		Total
	Resident	Non-Resident	Resident	Non-Resident	Resident	Non-Resident	Resident	Non-Resident	
Alexandria City	44,918	35,962	256,502	490,542	200,316	132,131	501,735	658,634	1,160,369
Anne Arundel County	802,314	1,619,865	32,932	102,240	7,672	100,849	842,918	1,822,954	2,665,872
Arlington County	27,404	183,224	517,140	842,859	300,537	312,940	845,081	1,339,023	2,184,104
Baltimore City	763,839	1,427,639	2,812	7,870	61,023	126,322	827,673	1,561,830	2,389,504
Baltimore County	719,282	289,524	43,439	61,908	119,303	20,079	882,023	371,511	1,253,534
Calvert County	15,372	62,612	25,705	0	0	25,001	41,076	87,613	128,689
Carroll County	181,653	10,462	0	0	44,096	10,885	225,749	21,347	247,096
Charles County	53,408	23,958	50,897	66,720	54,009	0	158,314	90,679	248,992
Fredericksburg City	0	0	2,333	23,081	8,084	28,783	10,417	51,865	62,281
Clarke County	0	70,579	0	0	2,229	5,674	2,229	76,254	78,483
District of Columbia	311,335	542,746	1,240,021	4,190,778	801,383	951,908	2,352,739	5,685,432	8,038,171
Fairfax County	25,228	65,440	908,610	916,558	1,485,315	1,498,884	2,419,154	2,480,882	4,900,035
Fauquier County	0	0	641	127,908	76,370	44,684	77,011	172,592	249,603
Frederick County	284,605	22,142	7,249	12,579	71,026	108,893	362,881	143,613	506,494
Harford County	461,735	21,230	0	1,672	0	21,989	461,735	44,891	506,626
Howard County	565,212	172,610	21,611	24,040	131,402	16,055	718,224	212,705	930,929
Jefferson County	7,070	6,534	0	0	0	0	7,070	6,534	13,604
King George County	0	0	0	0	5,258	7,000	5,258	7,000	12,258
Loudoun County	37,900	72,316	115,123	141,171	969,948	537,419	1,122,971	750,906	1,873,877
Montgomery County	644,588	348,862	562,421	371,924	1,053,692	198,662	2,260,701	919,448	3,180,149
Prince George's County	589,771	216,858	250,595	396,223	159,790	107,482	1,000,157	720,563	1,720,719
Prince William County	659	0	278,037	49,411	642,965	181,843	921,662	231,254	1,152,916
Spotsylvania County	0	0	0	6,287	31,686	0	31,686	6,287	37,973
St. Mary's County	61,224	0	0	6,781	8,583	0	69,807	6,781	76,588
Stafford County	659	0	32,031	73,342	30,108	0	62,798	73,342	136,140
Externals	667,761	1,522,091	113,060	348,525	400,045	1,199,241	1,180,866	3,069,857	4,250,723
TOTAL	6,265,937	6,714,652	4,461,158	8,262,419	6,664,839	5,636,726	17,391,934	20,613,797	38,005,731

Source: Washington-Baltimore Regional Air Passenger Survey 2023



National Capital Region
Transportation Planning Board

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