

INTERCITY BUS & RAIL TRAVEL STUDY

Final Report Overview

Eric Randall, MWCOG
Nitesh Shah, ICF

TPB Technical Committee
February 7, 2025



National Capital Region
Transportation Planning Board

Highlights from Study



Image credit: MWCOG

Amtrak ridership is nearing pre-pandemic levels with over 4.5 million trips in FY 2023, while intercity bus ridership is recovering more slowly at over 1 million trips.

The top origin-destination pairs are TPB - New York for both Amtrak (62 average daily train trips) and intercity bus (214 average daily bus trips).

Union Station in Washington, DC, is the busiest intercity stop, with 77 daily train trips and 171 daily bus trips.

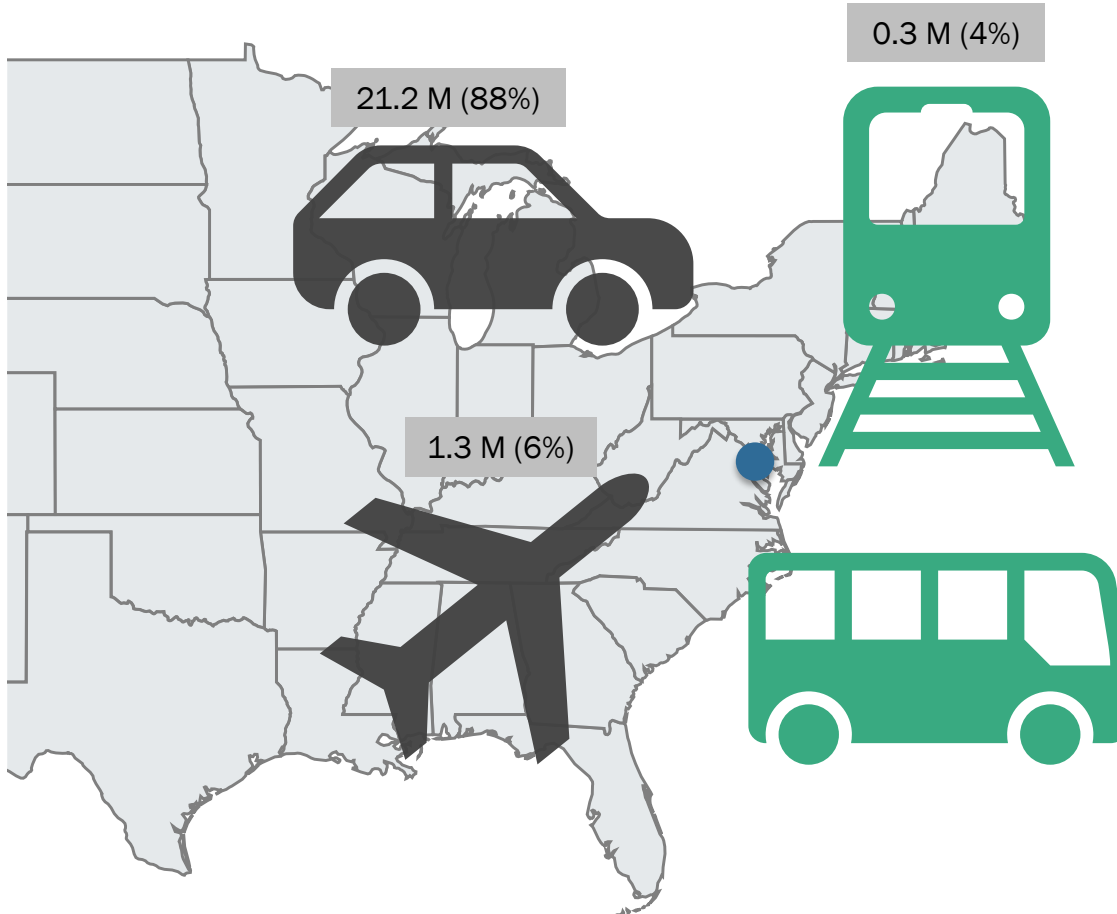
Amtrak averages 173 daily train arrivals at different stops in the region, followed by FlixBus with 60 daily bus trips.

Income and ethnicity/race strongly correlate with the choice of intercity bus and rail travel options.

Personal or leisure was the top reason for intercity trips, followed by visits to family and friends. Work/business-related travel represents a smaller share of intercity trips.



Why Study Intercity Travel?



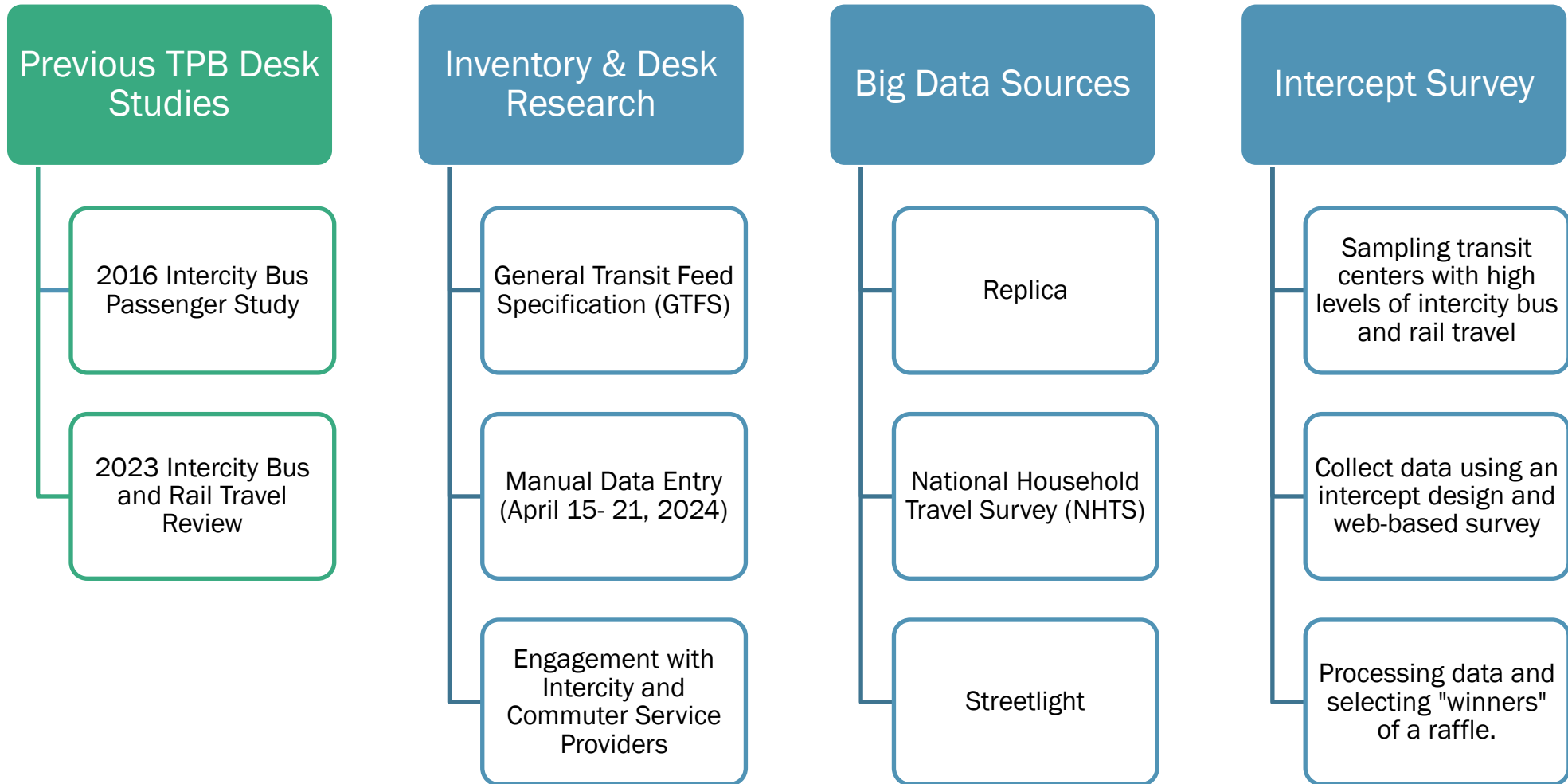
Data Source: 2022 NHTS
*Bus mode is not included in the NHTS



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Study Scope



Intercity Bus & Rail Network Snapshot



Intercity Transit Major Corridors and Destinations

Links Over 50 Cities Across 21 States

- Mostly Northeast Corridor

Service Providers

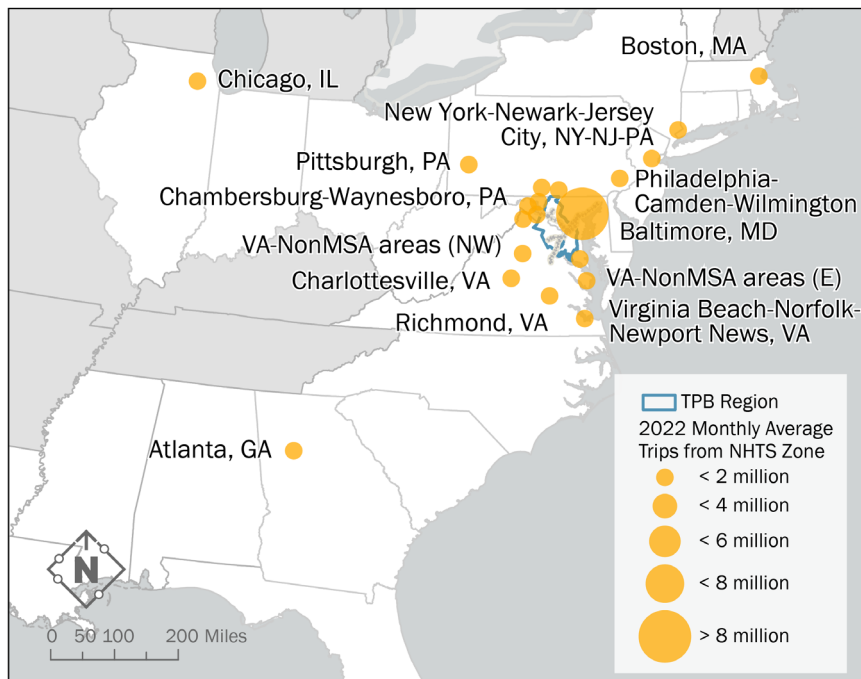
- 1 Intercity Rail
- 13 Intercity Bus
- 3 Commuter Bus
- 2 Commuter Rail

Recent or Future Service Changes

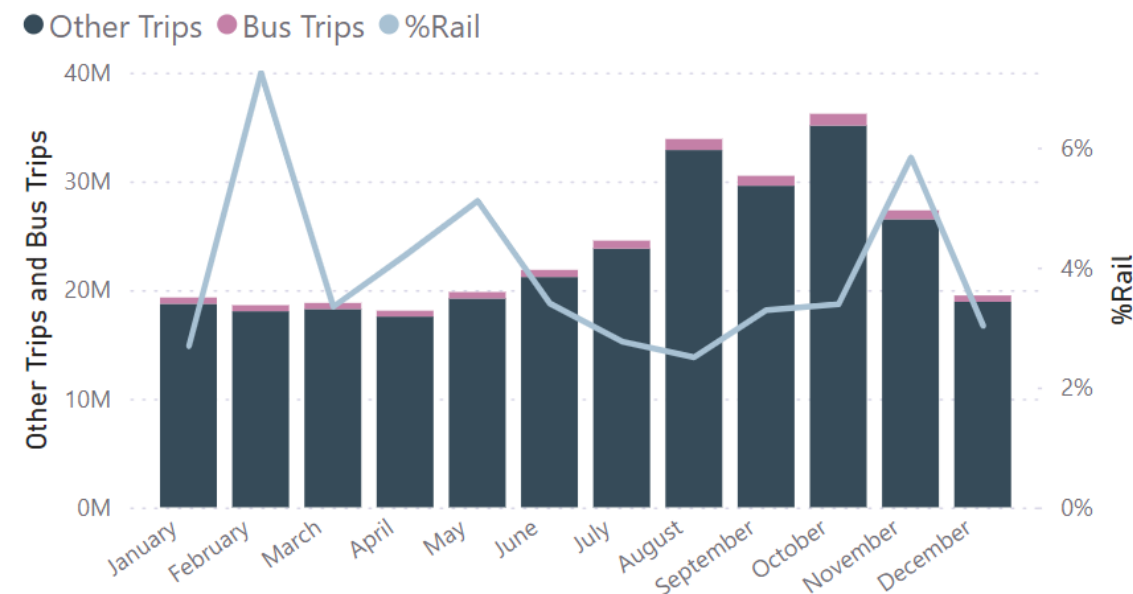
- Megabus Bankruptcy
- Virginia Breeze Expansion



Trip Volume: 2022 NHTS NextGen OD



Average Monthly Trip Volumes by Origin Zone



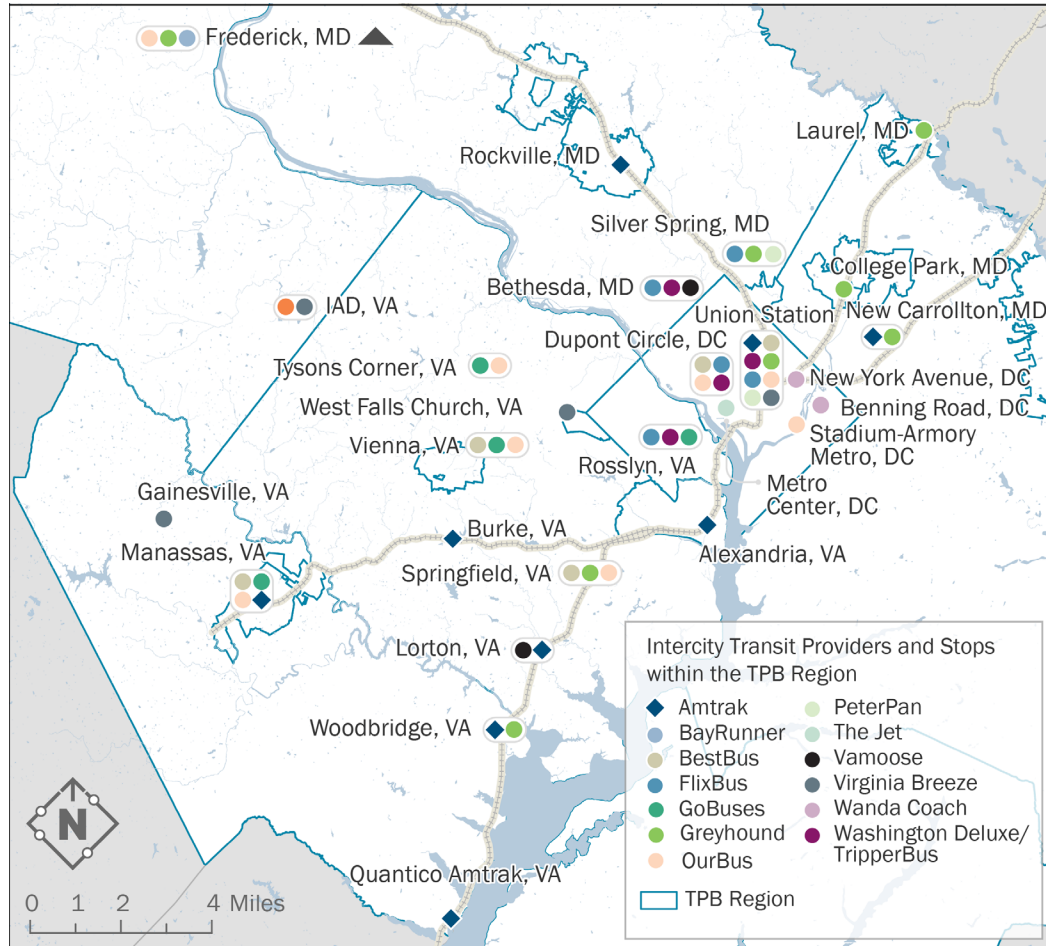
Monthly Travel Trends to the TPB Region

Key Findings

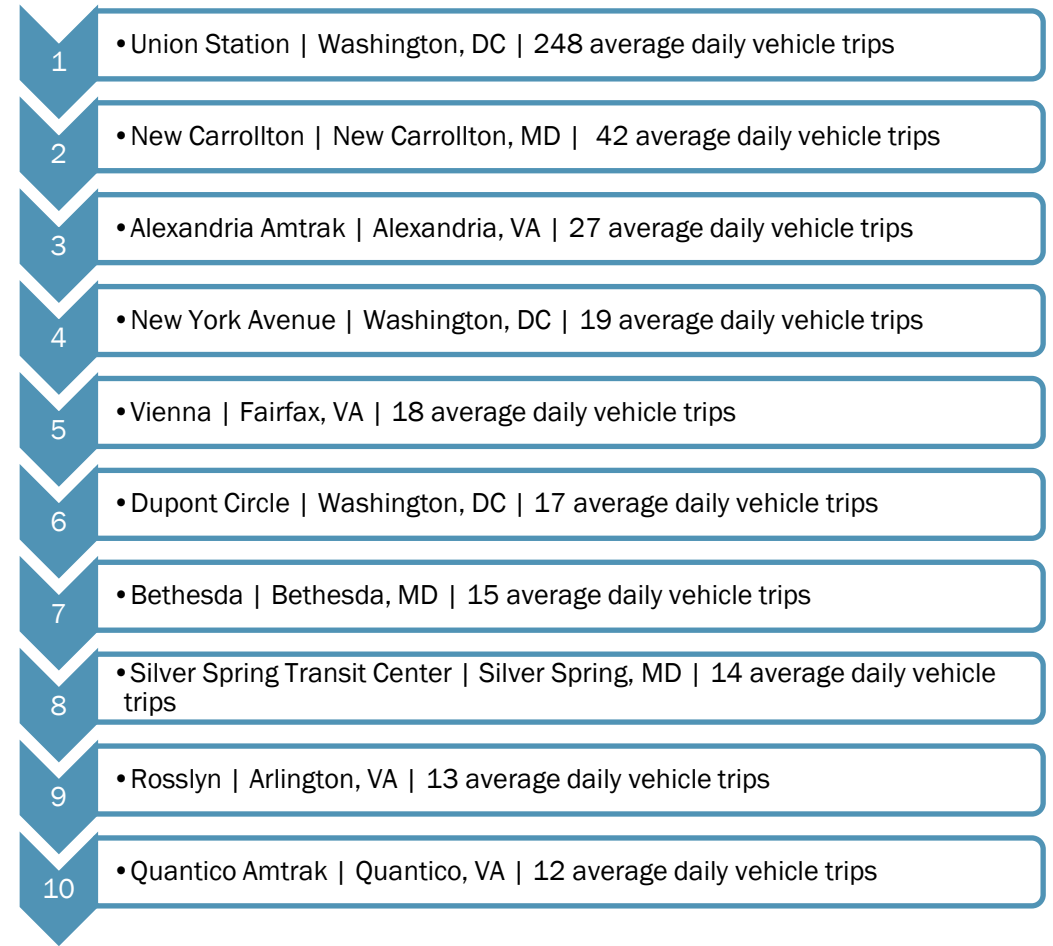
- The largest number of trips to the TPB region start and end in zones in the neighboring states of Virginia and Maryland.
- Many of the same zones are present in origin and destination, indicating a strong bidirectional travel in these regions.
- Trip volumes overall increase during the fall. Rail trips peak in February, with smaller peaks in May and November.



TPB's Intercity Travel Stops



31 Intercity Stops Within the TPB Region



Top Intercity Stops



Top Origins and Destinations

Amtrak

- 1 { TPB - New York (62 average daily train trips)
- 2 { TPB - Boston (56 average daily train trips)
- 3 { TPB - Norfolk (21 average daily train trips)
- 4 { TPB - Newport News (14 average daily train trips)
- 5 { TPB - Roanoke (11 average daily train trips)

Intercity Bus

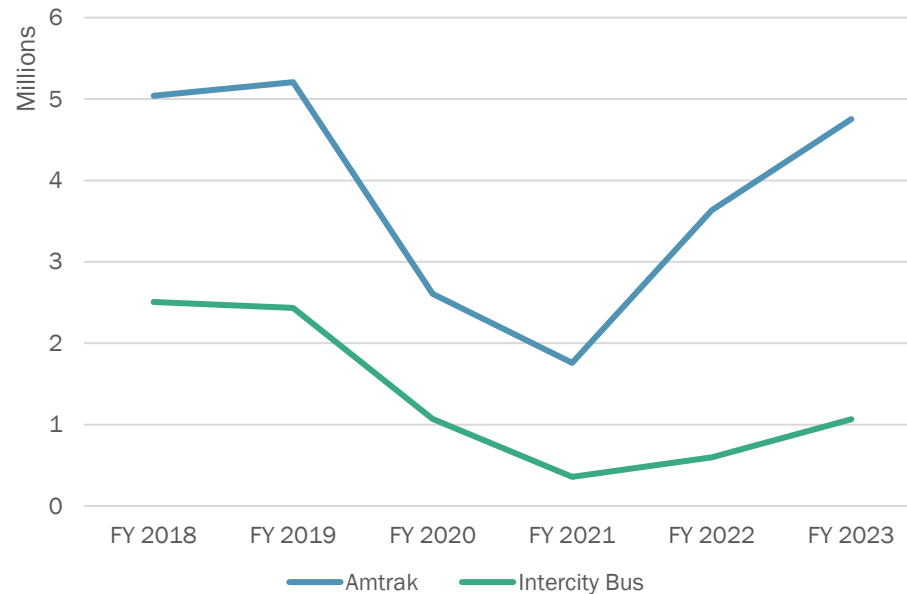
- 1 { TPB - New York (214 average daily bus trips)
- 2 { TPB - Atlanta (27 average daily bus trips)
- 3 { TPB - Richmond (12 average daily bus trips)
- 4 { TPB - Chicago (9 average daily bus trips)
- 5 { TPB - BWI (7 average daily bus trips)

Commuter Bus & Rail

- 1 { Baltimore Penn - Washington (MARC): 44 average daily train trips
- 2 { Gaithersburg - BWI Business Dist. (MTA Commuter Bus): 25 average daily bus trips
- 3 { Charlotte Hall/Waldorf - DC (MTA Commuter Bus): 24 average daily bus trips
- 4 { Annapolis - Washington DC (MTA Commuter Bus): 19 average daily bus trips
- 5 { Sunderland / Dunkirk - DC (MTA Commuter Bus): 19 average daily bus trips



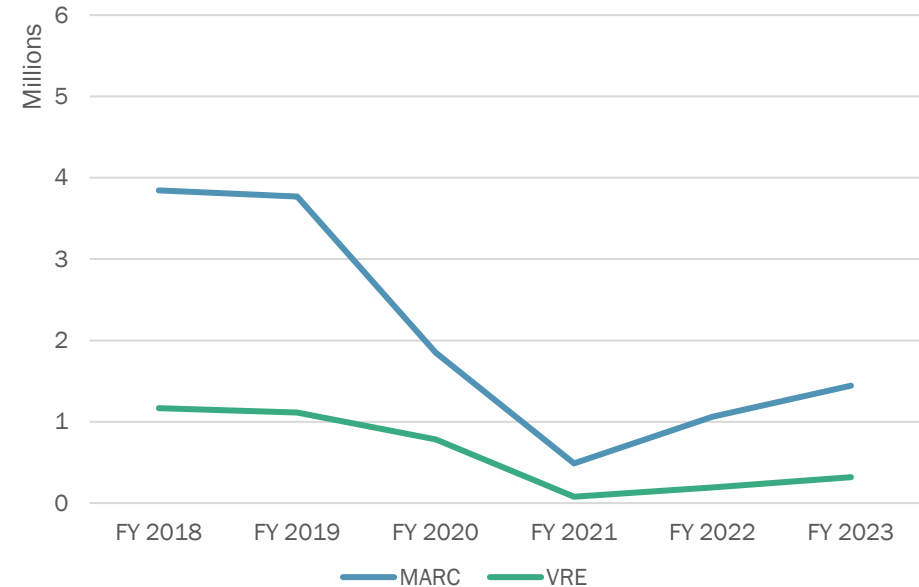
Ridership at Union Station



Intercity Service Ridership

Intercity Bus & Rail

- Amtrak is near its pre-pandemic highs
- Intercity bus ridership has been slower to recover



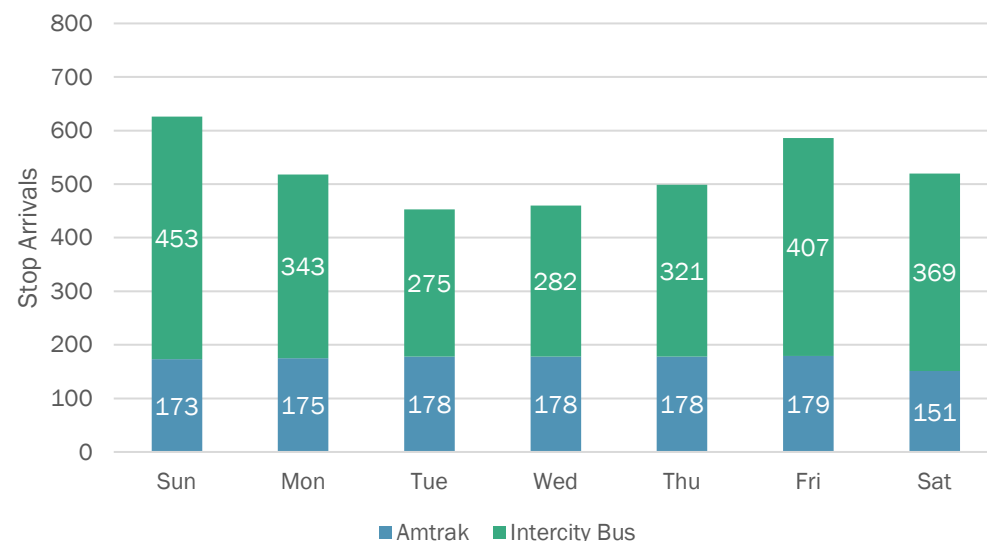
Commuter Service Ridership

Commuter Rail

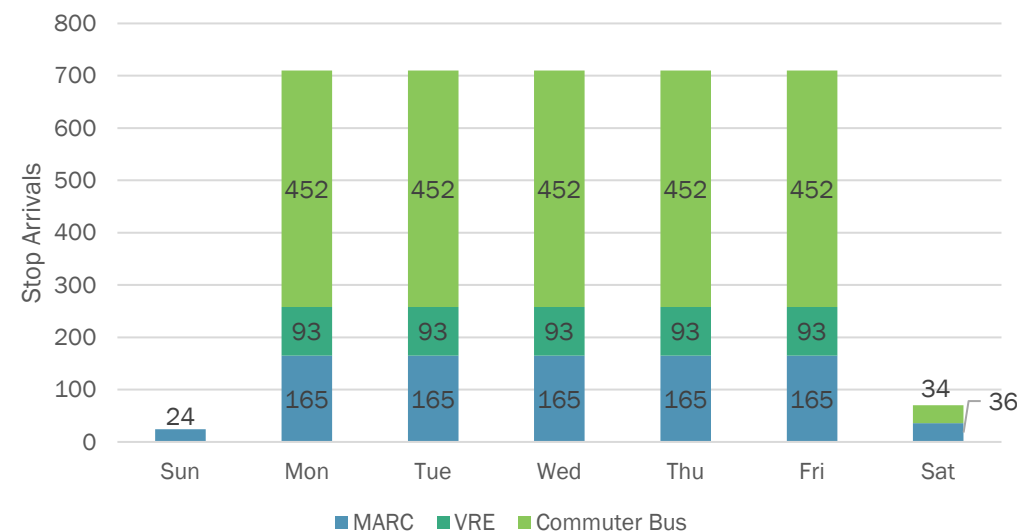
- Services have been slower to recover than Amtrak



Regional Trip Patterns



Daily Vehicle Trips – Amtrak & Intercity Bus



Daily Vehicle Trips – MARC, VRE & Commuter Bus

Holiday Week Stop Arrivals by Provider

Provider	Average Week	Memorial Day	July 4 th	Labor Day	Thanksgiving	Christmas
Amtrak	1,212	1,184	1,212	1,212	1,217	1,217
BayRunner	104	104	104	104	104	104
FlixBus	416	418	443	458	470	472
Greyhound	406	406	406	406	406	406
PeterPan	185	185	185	117	--	--

^[1] Virginia Breeze is excluded from this analysis as the GTFS feed is expired and does not line up with the holiday periods examined.



Intercept Survey - Methods



Image credit: MWCOG



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Location

- In-person intercept survey conducted primarily at major transit hubs throughout the TPB. region, with a special focus on Union Station.

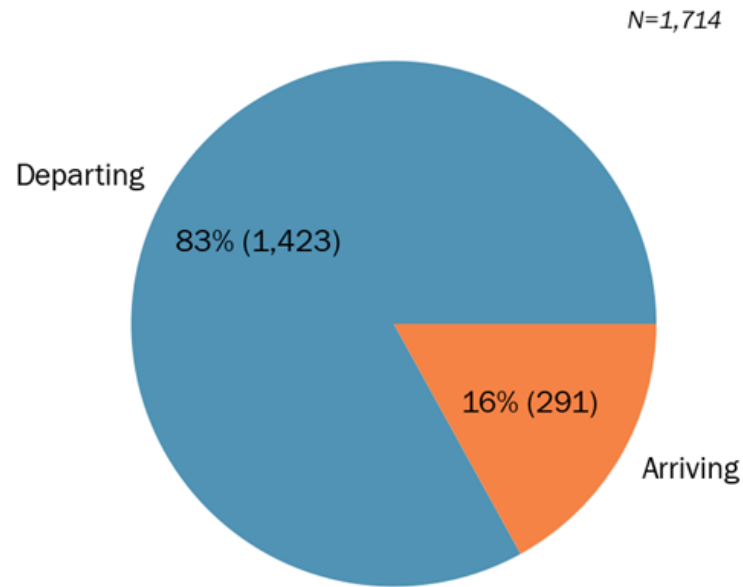
Survey Details

- 5-minute questionnaire about trip origin, destination and other details.
- Two options to take the survey:
 - Tablets handed out by interviewers
 - Postcards with QR codes
- All eligible respondents were entered into a raffle to win a \$100 Amazon gift codes.

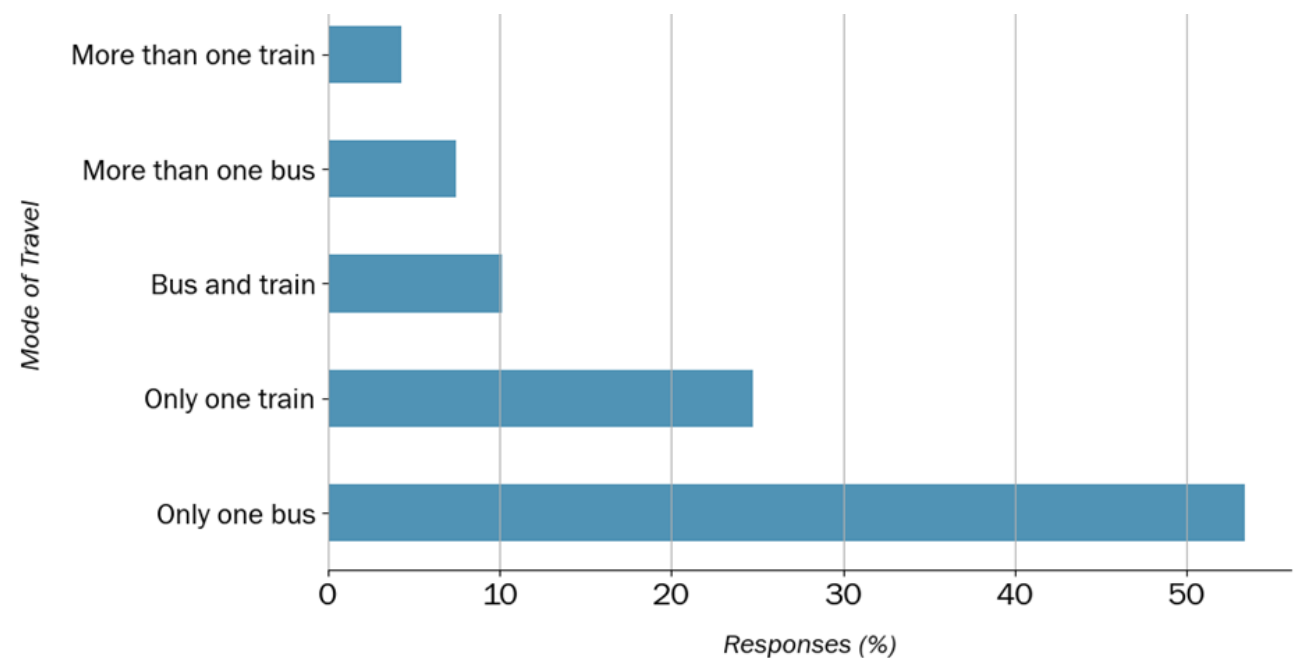
Timeline & Responses

- Fielded over four weeks in September and October 2024.
- Achieved a total of 1,708 completes.

Intercept Survey – Travel Direction & Mode



Travel Direction



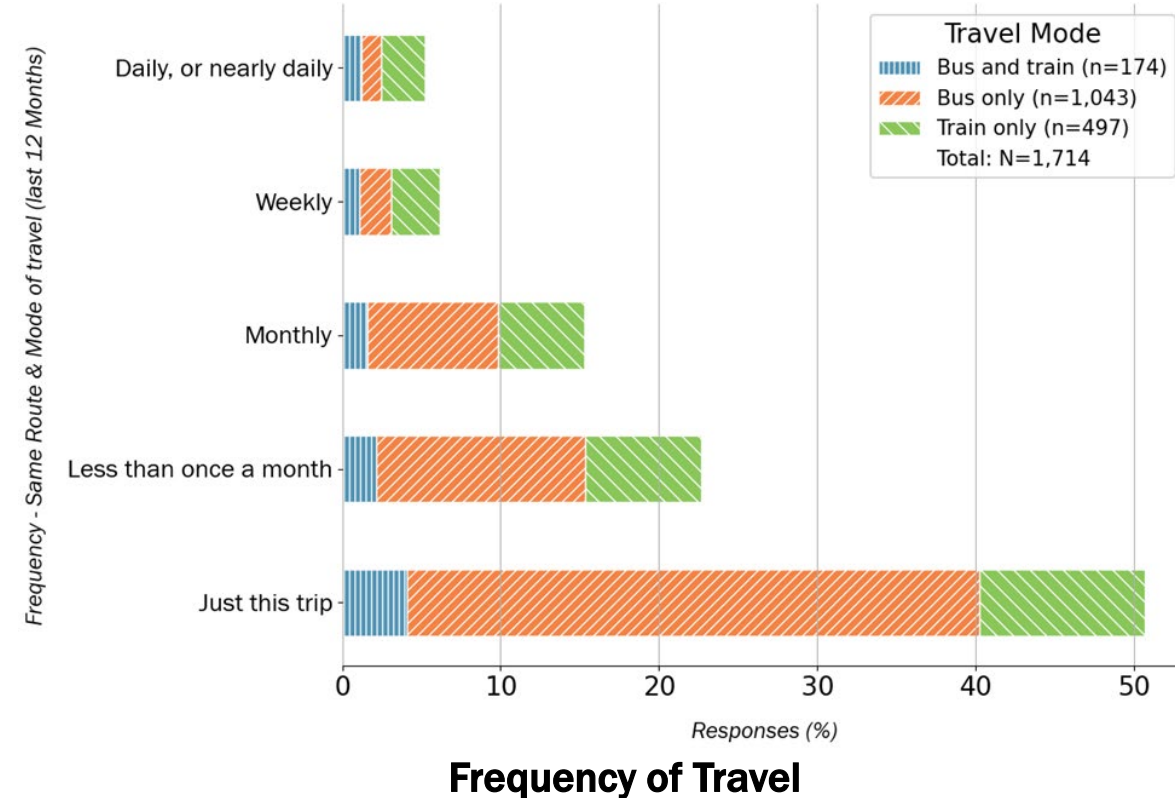
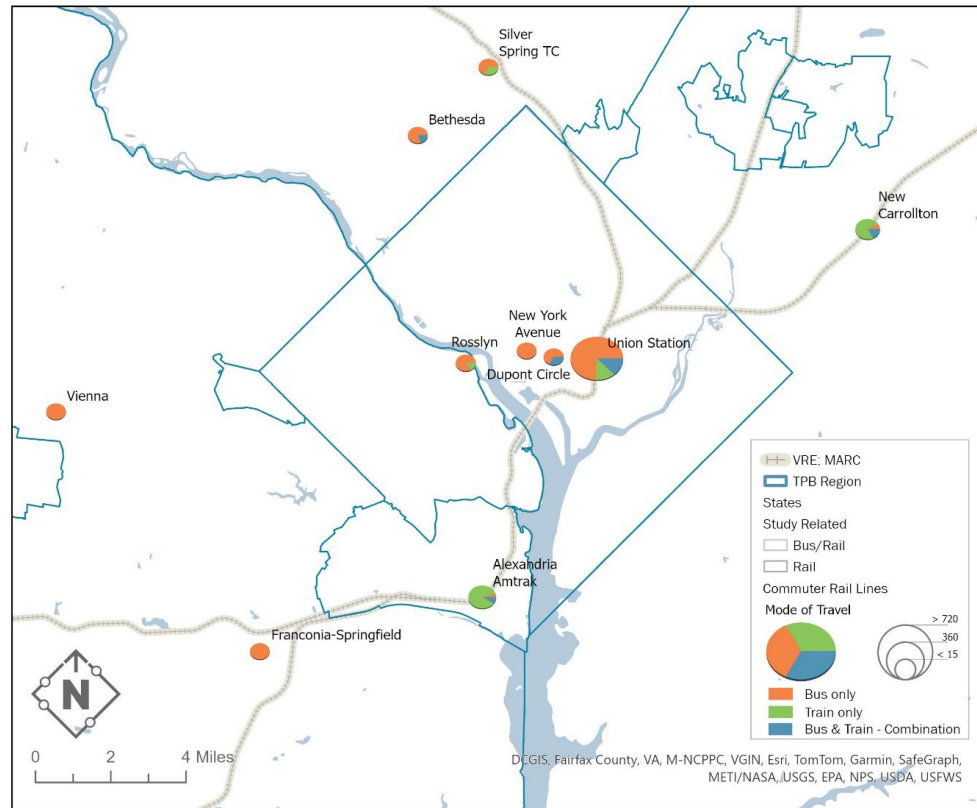
Mode Choice

Key Findings

- Of the participants, 83 percent completed the survey before leaving the D.C. region, while 17 percent completed it after arriving in the region.
- More than 50 percent reported using only one bus for their intercity travel, and around 25 percent reported using only one train.



Intercept Survey – Stations & Frequency of Travel

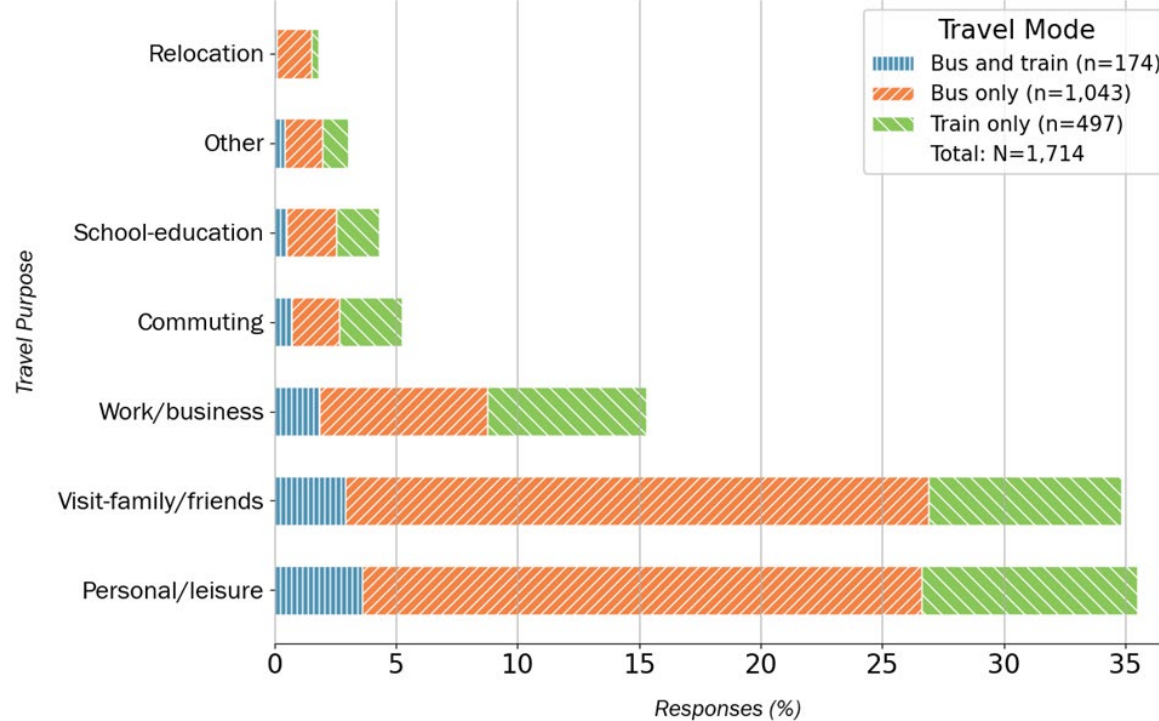


Key Findings

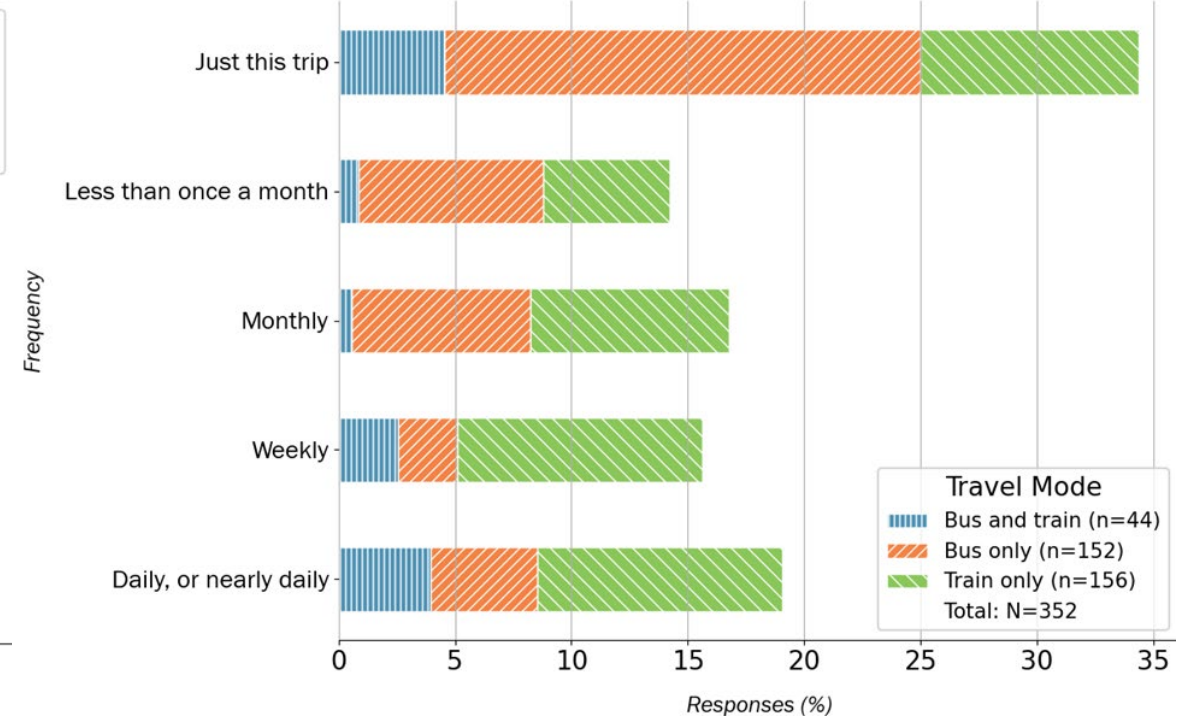
- Over 70% of responses were recorded at Union Station, mainly indicating bus travel.
- More than half of respondents said this was their only intercity trip, with bus travelers being the majority.



Intercept Survey – Travel Purpose



Travel Purpose



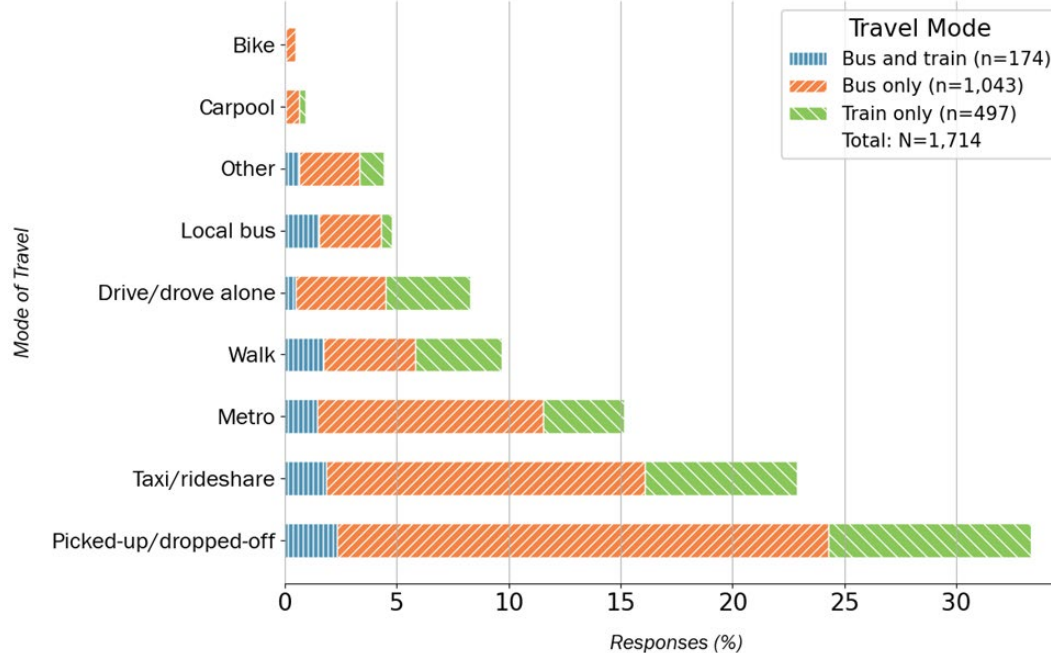
Frequency of Commuting or Work/Business Trips

Key Findings

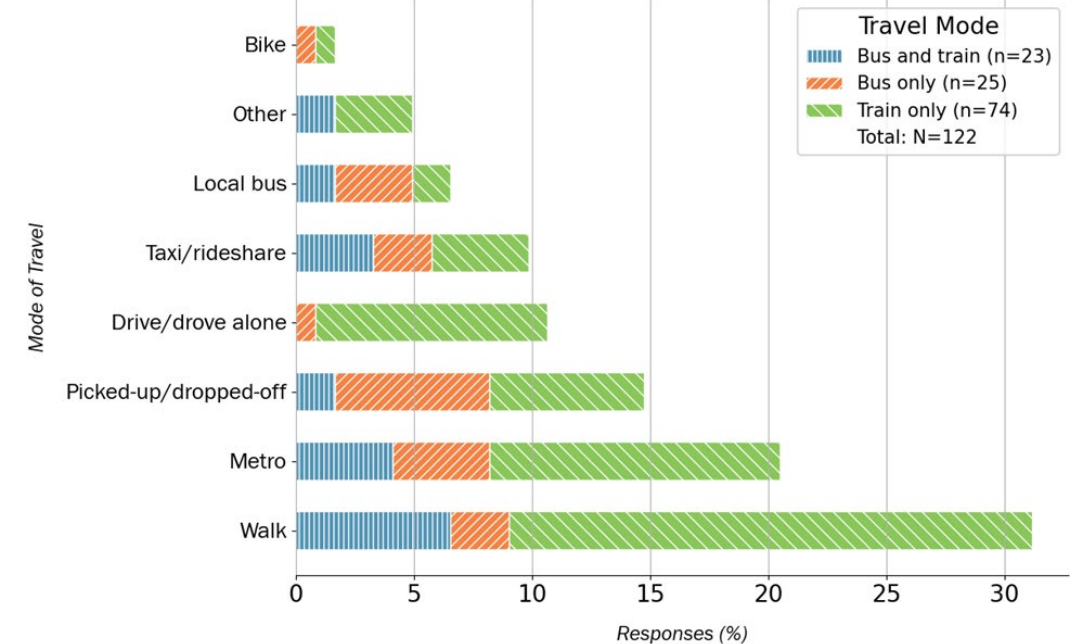
- Most intercity travel was for leisure or visiting family/friends (>70%), primarily by bus.
- One-time work/business trips were mainly by bus, while frequent trips were by train.



Intercept Survey – First and Last Mile



First and Last Mile



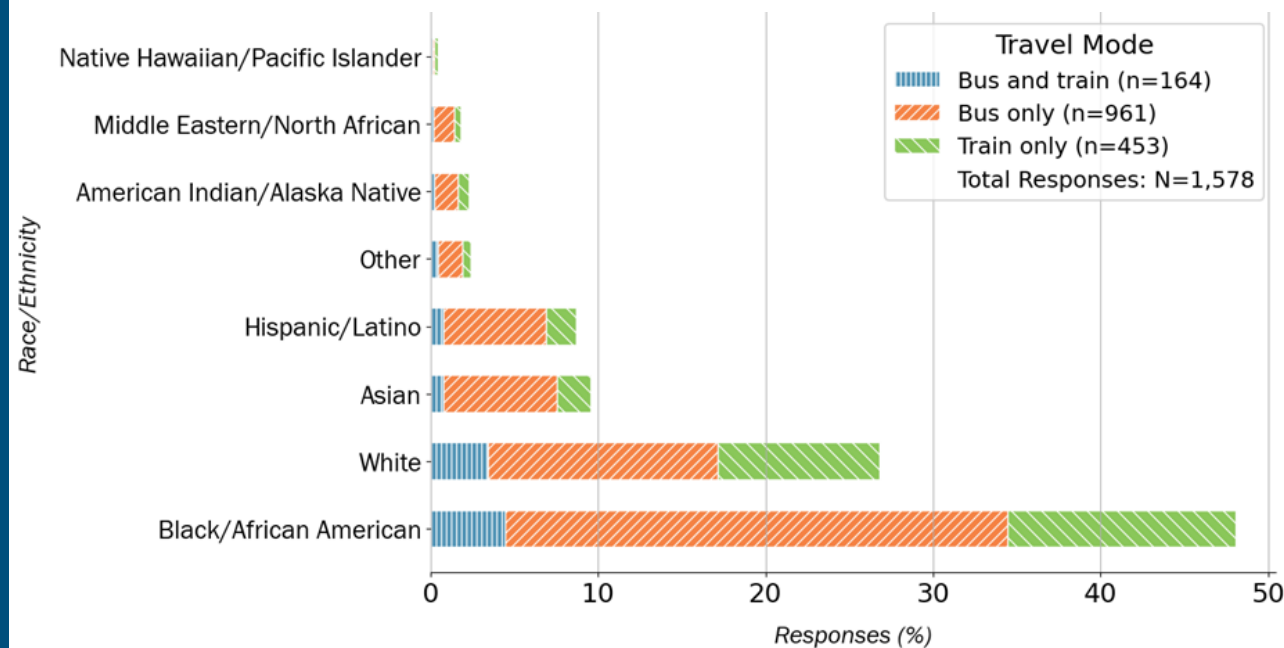
First and Last Mile Among Frequent (Daily, or Nearly Daily, and Weekly) Commuters

Key Findings

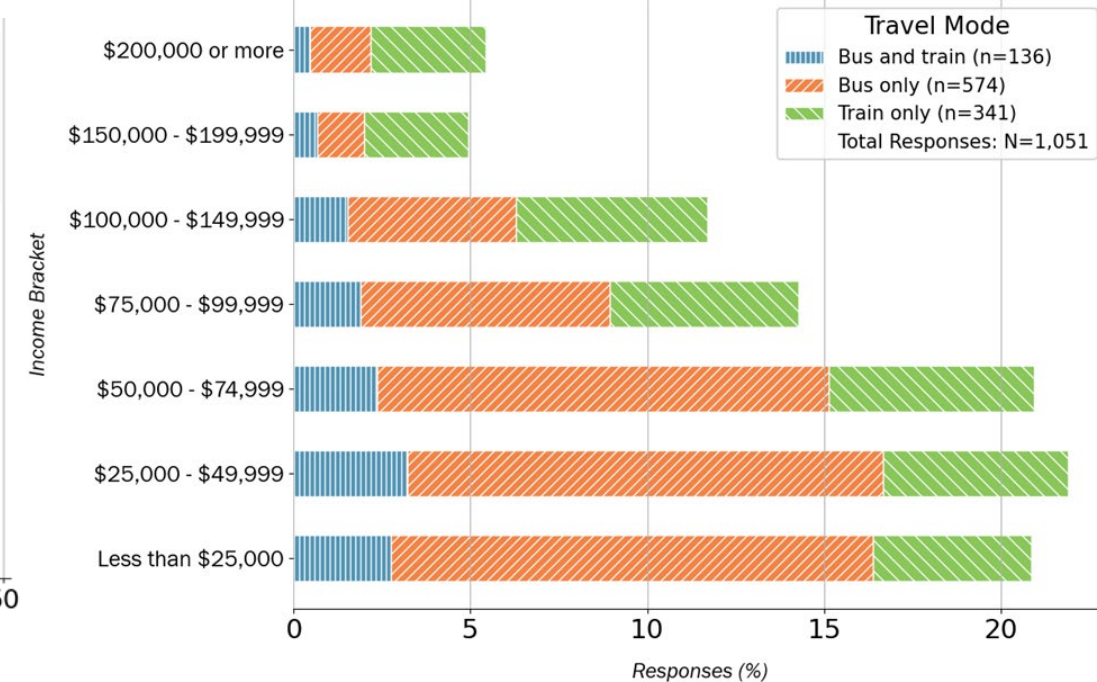
- The main ways to access intercity stations were pickup and drop-off, taxis, and ride-shares. Many also used the metro and local buses.
- Despite a small sample size, many intercity commuters walked or took the metro to reach stations.



Intercept Survey – Sociodemographic



Race/Ethnicity



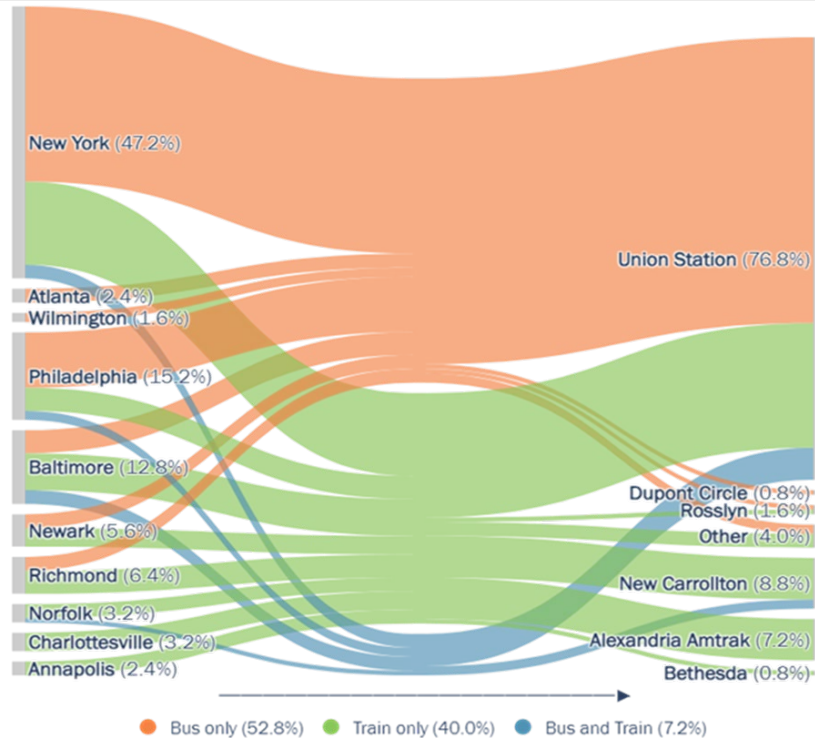
Household Income (Pre-tax 2023)

Key Findings

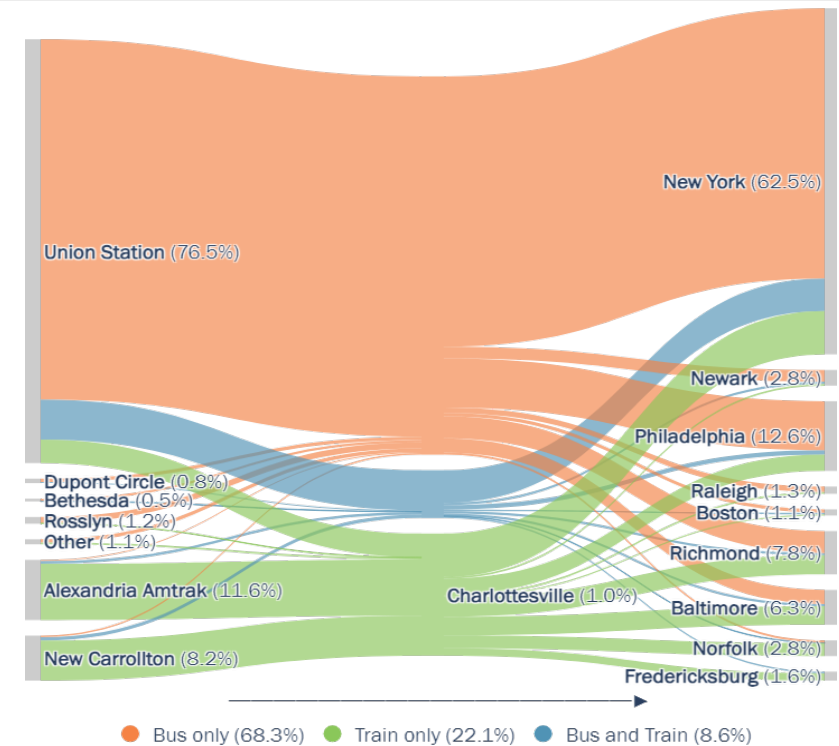
- Hispanic/Latino, Asian, and Black/African American respondents used buses more frequently than White respondents.
- Lower-income groups primarily used buses for intercity travel, while higher-income travelers favored trains.



Intercept Survey – Geographic Distribution of Trips



Arrivals



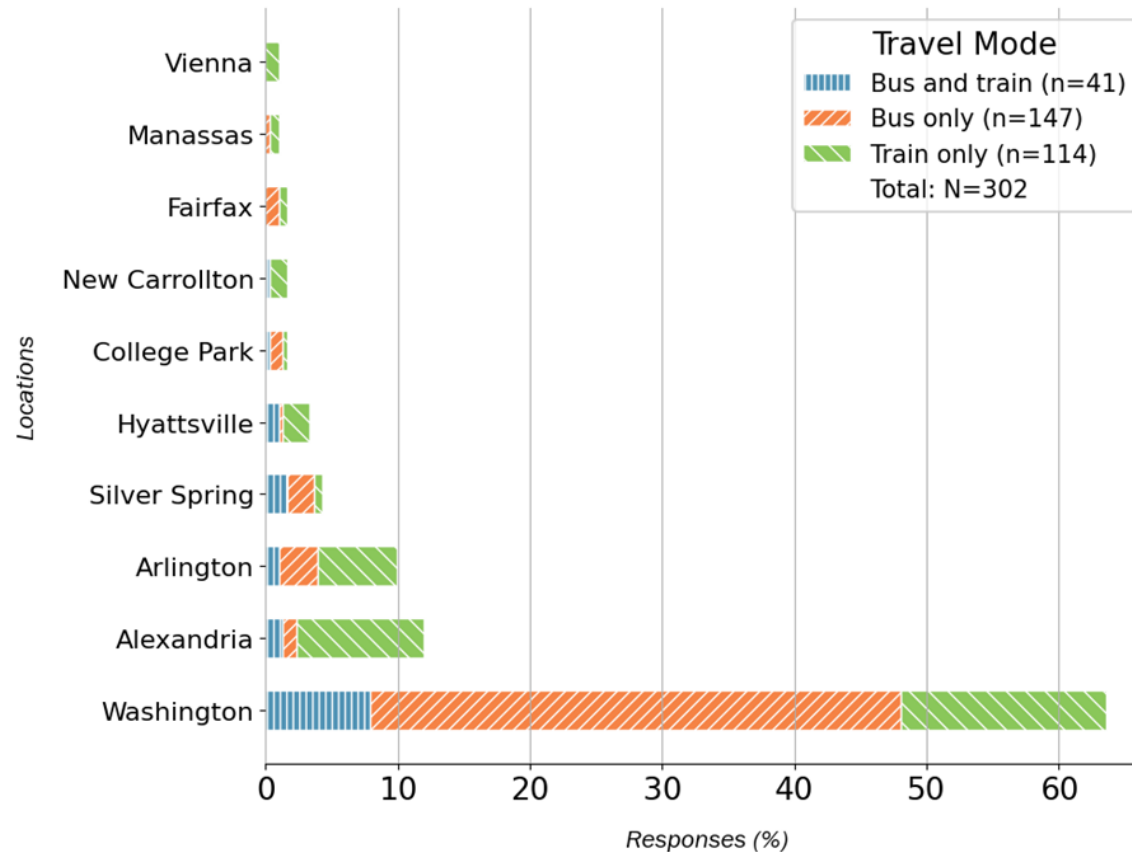
Departures

Key Findings

- New York was the city with the most origin/destination, and Union Station was the most common station.
- Most respondents used buses exclusively, with more using them for departures than arrivals.



Intercept Survey – Origin or Destination in the NCR



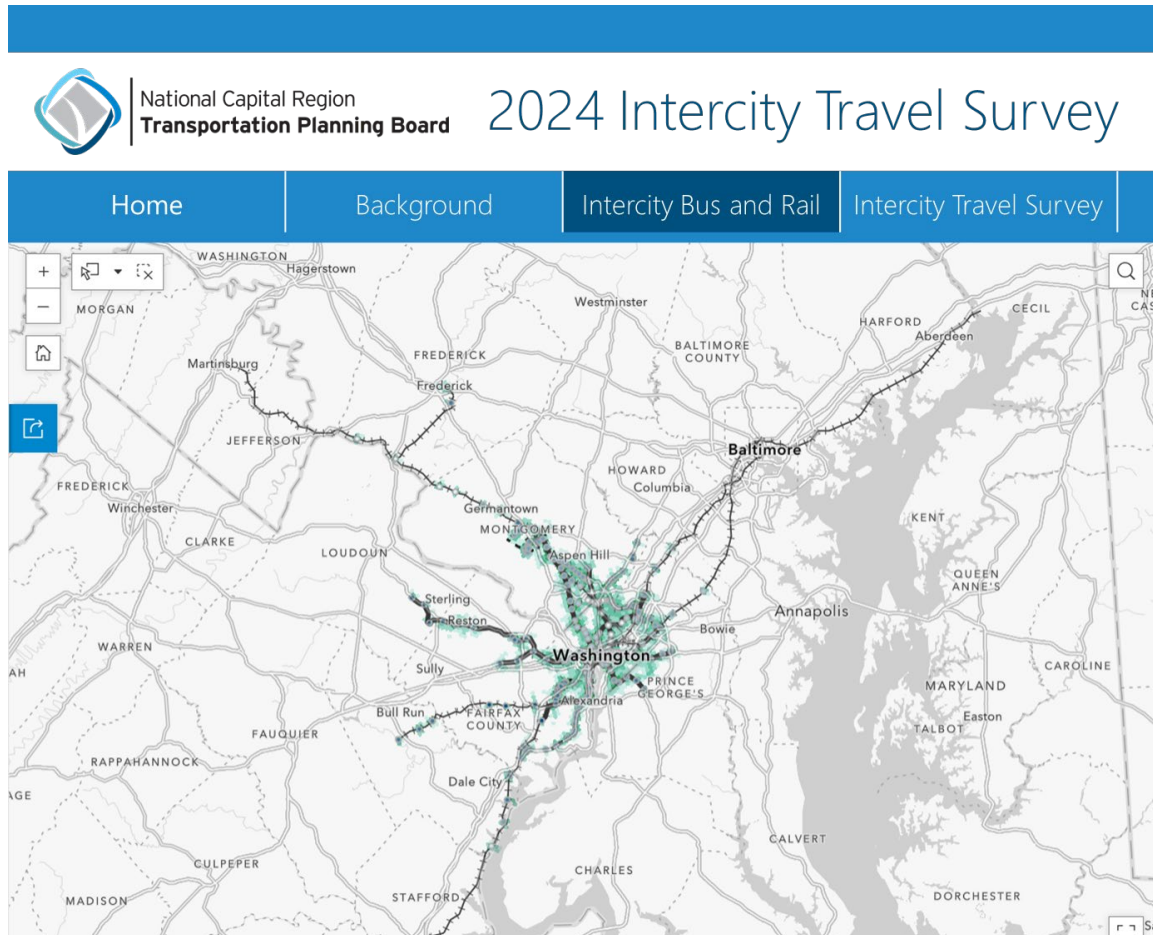
Starting or Destination Locations

Key Findings

- Washington, D.C., reported the highest share of trips among all cities.
- Most respondents used buses, followed by trains.
- The train is a common mode of intercity travel for cities with access to Amtrak stations, such as Alexandria, Arlington, and New Carrollton.



Web Map



<https://tpb-intercity-travel-survey-mwcog.hub.arcgis.com/>

Interactive web map

- Highlights travel trends and services available

Data Included

- Intercity and Commuter services
- Service by provider, route, location
- Intercept survey

Data Dashboards

- Visualizations and tables
- Demographics and travel volumes
- Travel survey information

Recommendations



**Promote Bus and
Rail for Intercity
Travel Options**



Equity Consideration



**Intercity Bus and
Rail Performance
Measures**



**Station
Improvements**



**Enhance First and
Last Mile
Connectivity**



**Invest in Rail
Infrastructure**



**Diversify Intercity
Service Providers
and Modes**



Eric Randall

TPB Transportation Engineer

(202) 962-3254

erandall@mwkog.org

Nitesh Shah

Project Manager, ICF

(703) 236-5613

Nitesh.Shah@icf.com

mwkog.org/tpb

Metropolitan Washington Council of Governments

777 North Capitol Street NE, Suite 300

Washington, DC 20002

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