East of Hudson Lines
Final Report

# Metro-North <br> Origin \& Destination <br> Study 

Final
12/31/2018


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## Contents

1. Background and Objectives ..... 7
2. Methodology ..... 8
2.1 Overview ..... 8
2.2 Sampling Plan ..... 8
2.3 General Passenger Count Methodology ..... 8
2.4 General Travel Behavior Methodology ..... 9
3. Implementation of Data Collection ..... 10
3.1 Overview ..... 10
4. Data Entry, Processing and Weighting ..... 11
4.1 Count Data ..... 11
4.2 Survey Data ..... 11
4.3 Geocoding ..... 12
4.4 Survey Data Expansion ..... 12
4.5 Geographic Zones ..... 13
5. Results - Inbound ..... 14
5.1 Survey Response Rate ..... 14
5.2 Trip Purpose ..... 15
5.2.1 Weekday Riders - Trip Purpose ..... 15
5.2.2 Weekend Riders - Trip Purpose. ..... 16
5.3 Trip Origin Location ..... 17
5.3.1 AM Peak ..... 17
5.3.2 Midday Off Peak ..... 19
5.3.3 PM Reverse Peak ..... 21
5.3.4 Late Night Off Peak ..... 23
5.3.5 Weekday Total ..... 25
5.3.6 Saturday ..... 27
5.3.7 Sunday ..... 29
5.3.8 Weekend Total ..... 31
5.4 Trip Origin Type ..... 33
5.4.1 Weekday Riders - Trip Origin Type ..... 33
5.4.2 Weekend Riders - Trip Origin Type ..... 34
5.5 Inbound Origin Station ..... 35
5.5.1 Weekday Riders - Inbound Origin Station ..... 35
5.5.2 Weekend Riders - Inbound Origin Station ..... 38
5.6 Number of Minutes to Origin Station ..... 41
5.6.1 Weekday Riders - Travel Time to Origin Station. ..... 41
5.6.2 Weekend Riders - Travel Time to Origin Station. ..... 42
5.7 Inbound Access Mode to Station ..... 43
5.7.1 Weekday Riders - Inbound Access Mode ..... 43
5.7.2 Weekend Riders - Inbound Access Mode ..... 45
5.8 Inbound Transfer Station ..... 47
5.8.1 Weekday Riders - Inbound Transfer ..... 47
5.8.2 Weekend Riders - Inbound Transfer ..... 48
5.8.3 Weekday Riders - Transfer Station ..... 49
5.8.4 Weekend Riders - Transfer Station ..... 50
5.9 Inbound Destination Station ..... 51
5.9.1 Weekday Riders - Inbound Destination Station ..... 51
5.9.2 Weekend Riders - Inbound Destination Station ..... 52
5.10 Inbound Egress Mode to Final Destination ..... 53
5.10.1 Weekday Riders - Inbound Egress Mode to Final Destination ..... 53
5.10.2 Weekend Riders - Inbound Egress Mode to Final Destination ..... 55
5.10.3 Weekday Riders - Inbound Ingress Egress Mode to Final Destination - GCT Users ..... 57
5.10.4 Weekend Riders - Inbound Egress Mode to Final Destination - GCT Users. ..... 59
5.11 Number of Transportation Modes to Final Destination ..... 61
5.11.1 Weekday Riders - Number of Modes to Final Destination ..... 61
5.11.2 Weekend Riders - Number of Modes to Final Destination ..... 62
5.12 MetroCard Use ..... 63
5.12.1 Weekday Riders - MetroCard Use ..... 63
5.12.2 Weekend Riders - MetroCard Use ..... 64
5.13 Inbound Trip Destination Location ..... 65
5.13.1 AM Peak ..... 65
5.13.2 Midday Off Peak ..... 69
5.13.3 PM Reverse Peak ..... 73
5.13.4 Late Night Off Peak. ..... 77
5.13.5 Weekday Total ..... 81
5.13.6 Saturday ..... 85
5.13.7 Sunday ..... 89
5.13.8 Weekend Total ..... 93
5.14 Trip Destination Type ..... 97
5.14.1 Weekday Riders - Inbound Trip Destination Type. ..... 97
5.14.2 Weekend Riders - Inbound Trip Destination Type. ..... 98
5.15 Number of Minutes to Final Destination ..... 99
5.15.1 Weekday Riders - Travel Time to Final Destination for Inbound Trips ..... 99
5.15.2 Weekend Riders - Travel Time to Final Destination for Inbound Trips ..... 100
5.16 Ticket Type Used ..... 101
5.16.1 Weekday Riders - Ticket Type Used for Inbound Trips ..... 101
5.16.2 Weekend Riders - Ticket Type Used for Inbound Trips ..... 103
5.17 Ticket Purchase Location ..... 105
5.17.1 Weekday Riders - Ticket Purchase Location. ..... 105
5.17.2 Weekend Riders - Ticket Purchase Location. ..... 106
6. Results - Outbound ..... 107
6.1 Outbound Trip Date ..... 107
6.1.1 Weekday Riders - Outbound Trip Date ..... 107
6.1.2 Weekend Riders - Outbound Trip Date ..... 108
6.2 Use of Metro-North for Outbound Trip ..... 109
6.2.1 Weekday Riders - Use of Metro-North for Outbound Trip ..... 109
6.2.2 Weekend Riders - Use of Metro-North for Outbound Trip ..... 110
6.3 Outbound Trip Departure Time ..... 111
6.3.1 Weekday Riders - Outbound Trip Departure Time on MNR ..... 111
6.3.2 Weekend Riders - Outbound Trip Departure Time on MNR ..... 113
6.4 Use of Same Stations for Outbound Trip ..... 115
6.4.1 Weekday Riders - Same Stations for Outbound Trip on MNR ..... 115
6.4.2 Weekend Riders - Same Stations for Outbound Trip on MNR ..... 116
6.5 Outbound Origin Station - For Respondents Using Different Stations for Outbound Trip ..... 117
6.5.1 Weekday Riders - Outbound Origin Station ..... 117
6.5.2 Weekend Riders - Outbound Origin Station ..... 119
6.6 Outbound Destination Station - For Respondents Using Different Stations for Outbound Trip ..... 121
6.6.1 Weekday Riders - Outbound Destination Station. ..... 121
6.6.2 Weekend Riders - Outbound Destination Station. ..... 125
6.7 OutboundAccess Mode ..... 129
6.7.1 Weekday Riders - Outbound Access Mode. ..... 129
6.7.2 Weekend Riders - Outbound Access Mode. ..... 131
6.7.3 Weekday Riders - Outbound Access Mode - GCT Users ..... 132
6.7.4 Weekend Riders - Outbound Access Mode - GCT Users ..... 133
7. General Information ..... 134
7.1 Length of Time using Metro-North ..... 134
7.2 Work/Non-Work Travel Purpose on Metro-North . ..... 135
7.2.1 Weekday Riders - Work/Non-Work Travel Purpose ..... 135
7.2.2 Weekend Riders - Work/Non-Work Travel Purpose ..... 136
7.3 Inbound Trip Frequency ..... 137
7.3.1 Weekday Riders - Inbound Trip Frequency ..... 137
7.3.2 Weekend Riders - Inbound Trip Frequency ..... 138
7.4 Outbound Trip Frequency ..... 139
7.4.1 Weekday Riders - Outbound Trip Frequency ..... 139
7.4.2 Weekend Riders - Outbound Trip Frequency ..... 140
7.5 Typical Fare Payment Method ..... 141
7.5.1 Weekday Riders - Typical Fare Payment Method ..... 141
7.5.2 Weekend Riders - Typical Fare Payment Method ..... 142
7.6 Technologies Used in Past 30 Days. ..... 143
7.6.1 Weekday Riders - Technologies Used ..... 143
7.6.2 Weekend Riders - Technologies Used ..... 144
7.7 Licensed Driver ..... 145
7.7.1 Weekday Riders - Licensed Driver ..... 145
7.7.2 Weekend Riders - Licensed Driver ..... 146
7.8 Number of Licensed Drivers in Household ..... 147
7.8.1 Weekday Riders - Number of Licensed Drivers in Household ..... 147
7.8.2 Weekend Riders - Number of Licensed Drivers in Household ..... 148
7.9 Number of Operable Vehicles in Household ..... 149
7.9.1 Weekday Riders - Number of Operable Vehicles in Household ..... 149
7.9.2 Weekend Riders - Number of Operable Vehicles in Household. ..... 150
7.10 Vehicle Availability ..... 151
7.10.1 Weekday Riders - Vehicle Availability ..... 151
7.10.2 Weekend Riders - Vehicle Availability ..... 152
7.11 Number of Trips made into New York City by Car per Month ..... 153
7.11.1 Weekday Riders - Number of Trips Made into New York City by Car per Month ..... 153
7.11.2 Weekend Riders - Number of Trips Made into New York City by Car per Month ..... 154
7.12 Physical Disabilities ..... 155
7.13 Level of Education ..... 156
7.14 Current Employment Status ..... 157
7.14.1 Weekday Riders - Current Employment Status ..... 157
7.14.2 Weekend Riders - Current Employment Status ..... 158
7.15 Type of Job or Occupation ..... 159
7.15.1 Weekday Riders - Type of Job or Occupation. ..... 159
7.15.2 Weekend Riders - Type of Job or Occupation. ..... 160
7.16 Industry ..... 161
7.16.1 Weekday Riders - Industry ..... 161
7.16.2 Weekend Riders - Industry ..... 163
7.17 Telecommuting ..... 165
7.17.1 Weekday Riders - Telecommuting ..... 165
7.17.2 Weekend Riders - Telecommuting ..... 166
7.18 Telecommuting Frequency ..... 167
7.18.1 Weekday Riders - Telecommuting Frequency ..... 167
7.18.2 Weekend Riders - Telecommuting Frequency ..... 168
7.19 Household Size ..... 169
7.20 Number of Employed People in Household ..... 170
7.21 Household Income ..... 171
7.21.1 Weekday Riders - Household Income ..... 171
7.21.2 Weekend Riders - Household Income ..... 173
7.22 Credit or Debit Card Ownership ..... 175
7.22.1 Weekday Riders - Credit or Debit Card Ownership ..... 175
7.22.2 Weekend Riders - Credit or Debit Card Ownership ..... 176
7.23 Gender ..... 177
7.23.1 Weekday Riders - Gender. ..... 177
7.23.2 Weekend Riders - Gender ..... 178
7.24 Age ..... 179
7.24.1 Weekday Riders - Age ..... 179
7.24.2 Weekend Riders - Age ..... 180
7.25 Race/Ethnicity ..... 181
7.25.1 Weekday Riders - Hispanic/Latino/Spanish Origin ..... 181
7.25.2 Weekend Riders - Hispanic/Latino/Spanish Origin ..... 182
7.25.3 Weekday Riders - Race ..... 183
7.25.4 Weekend Riders - Race ..... 184
7.26 English Competency ..... 185
7.27 Primary Language at Home ..... 186
7.28 Birth Country ..... 187
7.29 Visited Any Businesses within Half Mile of Inbound Boarding Station (New Haven Line Only) ..... 189
7.30 Business Visited At Least Once in Past 30 Days (New Haven Line Only) ..... 190
7.31 Times Visited Business and Amount of Money Spent in Past 30 Days (New Haven Line Only) ..... 191
7.32 Business/Service Most Important to Have Near Inbound Boarding Station (Top 2) (New Haven Line Only) ..... 208
8. Appendix ..... 209
8.1 Training ..... 209
8.2 Passenger Counts ..... 209
8.2.1 Figure 1 - Sample Outbound Count Sheet ..... 210
8.2.2 Figure 2 - Counting Clicker ..... 211
8.3 Survey Questionnaire ..... 211
8.3.1 Figure 3 - Sample Inbound Count Sheet ..... 212
8.3.2 Figure 4 - Sample Questionnaire Cover ..... 214
8.3.3 Figure 5 - Hudson/Harlem Questionnaire ..... 215
8.3.4 Figure 6 - New Haven Questionnaire ..... 219
8.3.5 Figure 7 - Bronx Stations Supplemental Survey Questionnaire ..... 225
8.4 Survey Cleaning ..... 227
8.5 Geocoding ..... 227
8.6 Survey Data Expansion ..... 229

## 1. Background and Objectives

This report covers the Metropolitan Transportation Authority (MTA)’s 2014-2017 Metro-North Railroad (MNR) East of Hudson (EoH) Origin and Destination (OD) Survey, conducted by Abt Associates. MNR's EoH territory includes three lines: Hudson, Harlem and New Haven (including the Danbury, Waterbury and New Canaan branches). The study involved two processes. First, it captured train boarding and alighting figures by way of head counts. Second, it provided a more indepth travel and demographic profile of customers by way of self-reported surveys.

This OD Study was designed to provide a complete, geographically detailed representation of MNR EoH passenger travel patterns. Specifically, it will be used to augment MTA's regional transit ridership forecast models used to support development of New Starts transit projects. It will also satisfy MTA's requirements for ridership data collection to validate the performance of these models. In addition, data collected will be instrumental for compliance with Title VI reporting. Finally, the data obtained will also be used to satisfy a multitude of information needs in the day-to-day operations of MNR's EoH service.

## 2. Methodology

### 2.1 Overview

The methodology was designed to meet the objective of capturing the universe of MNR EoH passengers for station boarding/alighting counts per station and self-reported detailed travel behavior. OD data had not been collected comprehensively in the past for EoH service area. This effort was designed to provide data that informed EoH ridership patterns, and maintained consistency with OD data captured for West of Hudson (WoH) service area and other recent MTA OD surveys for commuter rail service.

### 2.2 Sampling Plan

The sampling plan called for passenger counts to be collected on every EoH train operated by MNR. Every station was included in this study. The fieldwork timeframe encompassed travel on weekdays, Saturdays, and Sundays. In order to obtain the most accurate snapshot of "typical" ridership across all MNR EoH service, weekday fieldwork was conducted on Tuesdays, Wednesdays, and Thursdays only. Mondays and Fridays were excluded from the field schedule to eliminate any biases that might be caused by residual atypical weekend travel.

Similarly, the field period did not include holiday times and summer months, which were deemed as atypical. In addition, there was no field work during severe weather, and schedules were modified when possible to minimize ridership biases that could stem from scheduled track maintenance work.

### 2.3 General Passenger Count Methodology

Passenger counts were collected onboard the universe of 1606 inbound and outbound EoH trains, including 406 on the Hudson line, 504 on the Harlem line, and 696 on the New Haven lines ( 490 New Haven main line; 115 New Canaan branch line; 52 Danbury branch line; and 39 Waterbury branch line). Generally, two field interviewers were stationed in each train car- one at each door in each car within each train set. ${ }^{1}$ At each station, the interviewers were required to count all boarding ("ons") and alighting ("offs") passengers at their respective doors. Between stations, one of the interviewers would walk through the car and count the total number of passengers seated and standing. Having the on, off, and onboard counts for whole trains provided the most complete picture of the activity within the train runs.

In addition to the head counts, inbound trains (e.g.: toward New York City) included a survey component. While one crew member was assigned to perform head counts of passengers on board between stations, their partner would be responsible for distributing surveys to newly boarded passengers. Each agent was required to return to their post at the train door to prepare for counting as the train approached the next station.

After Harlem line passenger counts were initially collected between April 2015 and April 2016, additional service to Tremont and Melrose was added to the schedule and platform counts for the new service were collected in November 2017. The additional counts collected at Tremont and Melrose

[^0]were treated as new riders. In order to merge these new boarding and alighting passengers into the existing count a new "on" assignment was imputed at an earlier station for each new alighting passenger, and a new "off" assignment was imputed at a later station for each new boarding passenger. The on and off station assignments were informed by survey data from riders using these two stations. In total 96 ONS and 152 OFFS were counted at Tremont, and 138 ONS and 248 OFFS were counted at Melrose.

### 2.4 General Travel Behavior Methodology

Concurrent with passenger counting, distribution and collection of surveys took place onboard all MNR trains to all passengers traveling inbound, towards the direction of New York City. Web and mail options were also offered to passengers who wished to fill in the survey at a later time. Each survey had a unique code that respondents had to enter in order to submit the survey responses via web. The survey instrument asked respondents about both legs of their trip when applicable (including the return trip, or corresponding outbound trip.) In addition to door counts at station stops, at least one interviewer in each car was responsible for distribution and collection of paper surveys between stations.

Restricting survey distribution to only the inbound direction was deemed the best method as it allowed for collection of most data for both legs of trip and avoided question redundancy, heavy burden on passengers, and unnecessary costs.

A supplemental effort was made towards the end of the field period to collect a smaller set of key survey information from riders boarding at select Bronx stations ${ }^{2}$ during weekday dayparts. This effort aimed to increase the sample size of station and daypart combinations for which lower numbers of completed surveys ${ }^{3}$ had been initially obtained. These Bronx stations were relatively close to New York City geographically. Riders from these stations had shorter travel times to the destination station in which to complete the full on-board questionnaire. As such, generally fewer surveys were collected on board trains for these riders comparted to riders from stations that were further away from New York City. These supplemental surveys were completed via in-person interviews on station platforms. The questionnaire was limited to the most critical questions for this effort in order to accommodate the relatively short timeframe riders have while waiting on station platforms. Appendix 8.3.5 Figure 7 (Bronx Stations Supplemental Survey Questionnaire) shows the sixteen questions included in this supplemental survey.

[^1]
## 3. Implementation of Data Collection

### 3.1 Overview

Data collection spanned from December 2014 through June 2017. As mentioned previously, a total of 1606 EoH trains were counted including 802 inbound trains that were surveyed. Over 100 in-house Abt Associates staff were mobilized to count and survey the MNR system over the duration of the study encompassing both WoH and EoH.

Each shift was staffed according to available train information such as consists size and typical ridership, with crew size based on the maximum number of interviewers needed for the largest train on a shift. Each shift was headed by a field supervisor. Shifts were designed to be as efficient as possible, minimizing both the number of deadhead (non-working) trips necessary to field all trains and the downtime between working trains. Deadheads were used to shuttle workers to initiation stations. In rare instances where no MNR service was available, such as the earliest AM Peak inbound trains, staff were shuttled out to their start location via vans.

Field supervisors were responsible for distributing field materials (pencils, surveys, count sheets, and aprons to hold counting/survey materials) to staff and collecting them at the end of the shift. Staff members were also equipped with MNR-issued ID badges, safety vests, and clickers for counting. Onboard trains, their responsibilities included taking detailed notes about train conditions and monitoring staff to ensure established protocols were being followed.

Weekly status meetings were held while field work was in session. During these meetings, Abt Associates would provide updates to the MTA/MNR on the previous week's field work, as well as discuss other items, such as upcoming deliverables or any challenges that had come up during the week. Abt Associates also kept a running train tally that tracked the week-to-week progress of field work. This train tally was provided for MTA and MNR before each weekly meeting. The field schedule was also provided to MTA/MNR for the following week.

More information about training, passenger counts, and the survey questionnaire can be found in sections 8.1 through 8.3 of the appendix.

## 4. Data Entry, Processing and Weighting

### 4.1 Count Data

All field materials were returned to Abt Associate's office where they were reviewed for accuracy and clarity. While in-field assurance checks were done by supervisors on site, each field person's count sheet was once again reviewed in detail in the home office to ensure they were consistent with the data input instructions that were outlined during field training and reinforced over time. Once the count sheets passed quality assurance guidelines, they were grouped by train and data entered.

The detailed train information provided in the entered count data was checked for accuracy and the count numbers were compared to the original counts sheets as necessary to confirm that no errors occurred during data entry. On, Off and Onboard counts were compared to and reconciled as needed on a station-by-station basis for each train.

Entered count data were compared to and adjusted as appropriate based on terminal control counts provided by MNR. MTA and MNR then reviewed counts and made suggestions for adjustments based on their knowledge of the EoH system. Once these adjustments were made, the count data were finalized.

### 4.2 Survey Data

After surveys were collected from the field, they were separated based upon their completion status into three categories:

1. Questionnaires with both origin station and destination station questions answered (regardless of completion status of the rest of the questionnaire)
2. Questionnaires with no responses in either origin station or destination station questions
3. Blank questionnaires

If both the origin station and destination station questions were answered, the survey was counted as a "completed" survey. Any questionnaires that had other information but were missing either origin or destination station were set aside to see if they could be converted into a completed status using other available information to derive the origin or destination station. This was done primarily by referencing the "top serial number" for each station on the inbound count sheet to determine the origin station where the survey was distributed. Additionally, in-house editing staff tried to determine whether the reported trip origin or trip destination was in close proximity to any of the stations on the train run. Any questionnaires for which both the origin station and destination station were not reported or could not be additionally determined, as well as all remaining blank questionnaires, were not included in further data processing. Each completed questionnaire was stamped with a unique ID and unique ID ranges were documented by train. These IDs served as an additional control measure to ensure each survey was matched correctly to the train it was surveyed on.

A web form, which was nearly identical to the web survey for respondents, was designed for data entry. This allowed Abt Associates to track the data entry progress, manage the format of the entered data, and enabled a more seamless merging of the paper responses with the respondent selfadministered web responses.

Abt Associates reviewed the entered survey data and performed any necessary cleaning before delivering the survey dataset to MTA/MNR. Adjustments were made as needed based on MTA/MNR review and comments. The survey data was delivered first in unweighted format. A fully weighted aggregate dataset was delivered after survey data expansion was fully completed.

Detailed information on the survey cleaning process can be found in Appendix 8.4.

### 4.3 Geocoding

The address information collected from the respondents was central to the OD survey and an extensive set of geocoding procedures was developed and implemented to enable mapping of the address data.

Detailed information on the geocoding process can be found in Appendix 8.5.

### 4.4 Survey Data Expansion

Expansion weights were developed for use with the OD data to allow estimation of the population quantities when using weighted procedures. This step in the survey process adjusted the results of the survey data collected to bring them more in line with what is known about the universe of riders (the count data information). For example, if $50 \%$ of the weekday survey data collected is from trips made in the AM Peak, but AM Peak trips actually represent $68.5 \%$ of all weekday trips, data expansion or weighting can be used to statistically "increase the value" of each survey record to represent the population.

These weights accounted for the number of passengers boarding and alighting at individual stations or adjacent groups of smaller stations and for the trip daypart. Representation of the weighted estimates for the boarding and alighting was achieved through weight calibration, in which the weights were adjusted in such a way that the total number of surveyed boardings and alightings, in a given daypart, for an individual station or a group of stations, matched the counts of the number of boarding \& alighting passengers provided by the field crews, as closely as possible.

The weighting protocols resulted in two levels of weights ( 0 and 1 ) and each had two trip types (unlinked and linked), for a total of four sets of weights. The level 0 weights were applied for surveys that contained both reported origin and destination stations. The level 1 weights further took into account other trip characteristics (i.e., geocoded origin and destination locations, and origin and destination location types) in addition to the criteria for the level 0 weights.

Unlinked and linked weights were then calculated for both level 0 and level 1. Unlinked trips captured each time a person boarded and alighted a train. Linked trips captured the entire journey as one trip, even if there was a transfer along the way. A person making a single journey with a transfer from one train to another would count as two unlinked trips, but only one linked trip. (All tables and analyses further in this report use Level 1 linked weights.)

Detailed information on the survey data expansion process can be found in Appendix 8.6

### 4.5 Geographic Zones

The zones in this report are defined by Metro-North Railroad. A map of the zones can be seen below:


## 5. Results - Inbound

### 5.1 Survey Response Rate

The overall survey response rate was $39 \%$, just shy of the goal of $40 \%$. For surveys collected on weekdays the survey response rate was always the highest for AM Peak riders, and decreased throughout the later weekday dayparts. The weekday response rate was higher than the weekend response rate ( $43 \%$ vs. $34 \%$ ).

| Survey <br> Response <br> Rate by <br> Line | AM <br> Peak | Midday <br> Off <br> Peak | PM <br> Reverse <br> Peak | Late <br> Night <br> Off <br> Peak | Weekday <br> Total | Saturday | Sunday | Weekend <br> Total | Line <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hudson Line | $54.07 \%$ | $52.09 \%$ | $42.57 \%$ | $25.90 \%$ | $50.63 \%$ | $40.14 \%$ | $36.75 \%$ | $38.57 \%$ | $44.73 \%$ |
| Harlem Line | $47.98 \%$ | $43.44 \%$ | $35.24 \%$ | $30.39 \%$ | $44.42 \%$ | $33.40 \%$ | $32.05 \%$ | $32.79 \%$ | $39.15 \%$ |
| New Haven <br> Main Line + <br> Branch Lines | $43.54 \%$ | $34.37 \%$ | $31.47 \%$ | $32.59 \%$ | $39.56 \%$ | $33.48 \%$ | $33.92 \%$ | $33.68 \%$ | $36.82 \%$ |
| Total East of <br> Hudson | $47.14 \%$ | $41.01 \%$ | $34.56 \%$ | $30.84 \%$ | $43.31 \%$ | $34.84 \%$ | $33.94 \%$ | $34.44 \%$ | $39.17 \%$ |

### 5.2 Trip Purpose

### 5.2.1 Weekday Riders - Trip Purpose

The vast majority of AM Peak riders (91\%) reported commuting to or from their regular workplace as the purpose for their surveyed trip. Although regular workplace commute was also the most frequently reported response among riders in the other weekday dayparts, it was much less common than in the AM Peak (44\%-74\% depending on daypart).

| Q1. Trip <br> Purpose | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 76 | 38 | 24 | 39 | 177 |
| Total Answering | 91,866 | 21,868 | 19,235 | 9,564 | 142,534 |
| Commuting to / from regular workplace | 84,018 | 9,703 | 11,682 | 7,092 | 112,495 |
|  | 91.46\% | 44.37\% | 60.73\% | 74.15\% | 78.93\% |
| For business reasons (not to regular workplace) | 3,026 $3.29 \%$ | $\begin{array}{r} 3,224 \\ 14.74 \% \end{array}$ | $\begin{gathered} 1,388 \\ 7.21 \% \end{gathered}$ | 510 $5.34 \%$ | $\begin{gathered} 8,148 \\ 5.72 \% \end{gathered}$ |
| Personal Business (e.g., medical / visiting) | 1,253 $1.36 \%$ | 3,404 15.57\% | 1,813 9.43\% | 743 $7.76 \%$ | 7,213 5.06\% |
| Commuting to / from school | 2,507 | 2,276 | 1,396 | 560 | 6,738 |
|  | 2.73\% | 10.41\% | 7.26\% | 5.85\% | 4.73\% |
| Recreation (e.g. dinning / entertainment / vacation) | 754 $0.82 \%$ | 2,517 $11.51 \%$ | 2,595 $13.49 \%$ | 520 $5.43 \%$ | 6,386 $4.48 \%$ |
| Shopping | 96 | 398 | 86 | 30 | 611 |
|  | 0.10\% | 1.82\% | 0.45\% | 0.31\% | 0.43\% |
| Other | 211 | 345 | 277 | 110 | 943 |
|  | 0.23\% | 1.58\% | 1.44\% | 1.15\% | 0.66\% |
| Total | 91,866 | 21,868 | 19,235 | 9,564 | 142,534 |

[^2]
### 5.2.2 Weekend Riders - Trip Purpose

The most frequently mentioned trip purpose among weekend riders was recreation (38\%), followed by personal business (23\%) and commuting to/from the workplace (23\%). Recreation was the top trip purpose reported by Saturday riders (42\%), while the second most reported trip purpose was commuting to/from the workplace (24\%). Among Sunday riders, about one-third each traveled for recreation (33\%), with personal business being a close second (28\%). Consistent with regular Monday through Friday work schedules, workplace commutes were far less common trip purposes among weekend riders than weekday riders ( $23 \%$ vs. $79 \%$ ).

| Q1. Trip Purpose | Saturday | Sunday | Weekend Total ${ }^{5}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 165 | 169 | 334 |
| Total Answering | 64,360 | 56,088 | 120,448 |
| Recreation (e.g. <br> dinning / entertainment / vacation) | $\begin{array}{r} 27,128 \\ 42.15 \% \end{array}$ | $\begin{array}{r} 18,145 \\ 32.35 \% \end{array}$ | $\begin{gathered} 45,274 \\ 37.59 \% \end{gathered}$ |
| Personal Business (e.g., medical / visiting) | $\begin{array}{r} 12,429 \\ 19.31 \% \end{array}$ | $\begin{array}{r} 15,641 \\ 27.89 \% \end{array}$ | $\begin{aligned} & 28,071 \\ & 23.31 \% \end{aligned}$ |
| Commuting to / from regular workplace | $\begin{array}{r} 15,399 \\ 23.93 \% \end{array}$ | $\begin{aligned} & 12,533 \\ & 22.35 \% \end{aligned}$ | $\begin{array}{r} 27,932 \\ 23.19 \% \end{array}$ |
| For business reasons (not to regular workplace) | 2,478 $3.85 \%$ | 2,539 $4.53 \%$ | 5,017 $4.17 \%$ |
| Commuting to / from school | $\begin{array}{r} 2,479 \\ 3.85 \% \end{array}$ | $\begin{gathered} 1,893 \\ 3.38 \% \end{gathered}$ | $\begin{aligned} & 4,373 \\ & 3.63 \% \end{aligned}$ |
| Shopping | $\begin{aligned} & 2,011 \\ & 3.12 \% \end{aligned}$ | $\begin{aligned} & 1,574 \\ & \text { 2.81\% } \end{aligned}$ | $\begin{aligned} & 3,585 \\ & 2.98 \% \end{aligned}$ |
| Other | $\begin{array}{r} 2,436 \\ 3.79 \% \end{array}$ | $\begin{array}{r} 3,760 \\ 6.70 \% \end{array}$ | $\begin{array}{r} 6,197 \\ 5.14 \% \end{array}$ |
| Total | 64,360 | 56,088 | 120,448 |

[^3]
### 5.3 Trip Origin Location

The following maps show trip origins by geographic region for each daypart. Each geographic boundary reflects the boundaries of zones of interest as defined by MNR. Darker colors represent higher concentrations of origin locations.

### 5.3.1 AM Peak

NY Westchester origins were most common among AM Peak riders, making up for more than half of riders (57\%). The next most mentioned origin zone was CT Fairfield (27\%).


| Q2. County of Origin | AM Peak |
| :--- | :---: |
| Unweighted Base | 38,878 |
| Weighted Base | 91,942 |
| No Answer | 3 |
| Total Answering | 91,939 |
| NY Westchester | 52,233 |
| Total | $56.81 \%$ |
| Other Fairfield | 24,467 |
| CT New Haven | $26.61 \%$ |
| NYC Bronx | 3,535 |
|  | $3.84 \%$ |
|  | $3,26 \%$ |
|  | 3,264 |
|  | $3.55 \%$ |
|  | 2,968 |
|  | $2.69 \%$ |

### 5.3.2 Midday Off Peak

Similar to trip origin locations for AM Peak riders, NY Westchester was the most common origin area for Midday Off Peak riders, and accounted for over half of all origin zones mentioned (53\%). Also in line with AM Peak results, CT Fairfield was the next most frequently reported origin area (22\%).


| Q2. County of Origin | Midday <br> Off Peak |
| :---: | :---: |
| Unweighted Base | 7,075 |
| Weighted Base | 21,906 |
| No Answer | 5 |
| Total Answering | 21,901 |
| NY Westchester | $\begin{gathered} 11,694 \\ 53.39 \% \end{gathered}$ |
| CT Fairfield | $\begin{array}{r} 4,917 \\ 22.45 \% \end{array}$ |
| CT New Haven | $\begin{array}{r} 1,277 \\ 5.83 \% \end{array}$ |
| NYC Bronx | $\begin{gathered} 1,200 \\ 5.48 \% \end{gathered}$ |
| NY Dutchess | $\begin{gathered} 891 \\ 4.07 \% \end{gathered}$ |
| NY Putnam | $\begin{gathered} 542 \\ 2.48 \% \end{gathered}$ |
| CT Central | $\begin{gathered} 231 \\ 1.05 \% \end{gathered}$ |
| NY Orange | $\begin{gathered} 224 \\ 1.02 \% \end{gathered}$ |
| Other | $\begin{gathered} 923 \\ 4.21 \% \end{gathered}$ |
| Total | 21,901 |

### 5.3.3 PM Reverse Peak

NY Westchester origins were most common among PM Reverse Peak riders, making up for more than half of riders (59\%). The next most mentioned zone was CT Fairfield, which was reported by 24\% of riders.


| Q2. County of Origin | PM <br> Reverse <br> Peak |
| :--- | :---: |
| Unweighted Base | 4,732 |
| Weighted Base | 19,259 |
| No Answer | - |
| Total Answering | 19,259 |
| NY Westchester | 11,310 |
| Total | $58.73 \%$ |
| Other Fairfield | 4,567 |
| NYC Bronx | $23.71 \%$ |
| NY Dutchess | 904 |
| CT New Haven | $4.42 \%$ |
|  | 19,259 |

### 5.3.4 Late Night Off Peak

NY Westchester was also the most frequently reported origin zone among Late Night Off Peak riders (45\%), though at lower levels than reported by riders from earlier weekday dayparts (53-59\%). CT Fairfield was reported by one third of riders (33\%), accounting for a larger share of riders than in earlier weekday dayparts (22-27\%).


| Q2. County of Origin | Late Night Off Peak |
| :---: | :---: |
| Unweighted Base | 2,304 |
| Weighted Base | 9,603 |
| No Answer | 6 |
| Total Answering | 9,597 |
| NY Westchester | $\begin{array}{r} 4,338 \\ 45.21 \% \end{array}$ |
| CT Fairfield | $3,162$ <br> 32.95\% |
| CT New Haven | $\begin{gathered} 601 \\ 6.26 \% \end{gathered}$ |
| NY Dutchess | $\begin{gathered} 446 \\ 4.65 \% \end{gathered}$ |
| NYC Bronx | $\begin{gathered} 324 \\ 3.38 \% \end{gathered}$ |
| NY Orange | $\begin{gathered} 146 \\ 1.53 \% \end{gathered}$ |
| NY Putnam | $\begin{gathered} 128 \\ 1.33 \% \end{gathered}$ |
| Other | $\begin{gathered} 452 \\ 4.71 \% \end{gathered}$ |
| Total | 9,597 |

### 5.3.5 Weekday Total

Overall, the total share of weekday origins closely resembled the AM Peak data, since most responses were obtained in that daypart. NY Westchester made up about $56 \%$ of the total number of weekday origin zone responses with CT Fairfield following at $26 \%$.


| Q2. County of Origin | Weekday Total |
| :---: | :---: |
| Unweighted Base | 52,989 |
| Weighted Base | 142,711 |
| No Answer | 14 |
| Total Answering | 142,697 |
| NY Westchester | $\begin{gathered} 79,576 \\ 55.77 \% \end{gathered}$ |
| CT Fairfield | 37,113 <br> 26.01\% |
| CT New Haven | $6,304$ <br> 4.42\% |
| NYC Bronx | $\begin{array}{r} 5,397 \\ 3.78 \% \end{array}$ |
| NY Dutchess | $\begin{array}{r} 5,071 \\ 3.55 \% \end{array}$ |
| NY Putnam | $\begin{array}{r} 3,406 \\ 2.39 \% \end{array}$ |
| Other | $\begin{array}{r} 5,833 \\ 4.09 \% \end{array}$ |
| Total | 142,697 |

### 5.3.6 Saturday

Nearly half of Saturday trips originated in NY Westchester (49\%). CT Fairfield was next with 22\% of Saturday riders.


| Q2. County of Origin | Saturday |
| :---: | :---: |
| Unweighted Base | 16,574 |
| Weighted Base | 64,525 |
| No Answer | - |
| Total Answering | 64,525 |
| NY Westchester | $\begin{gathered} 31,934 \\ 49.49 \% \end{gathered}$ |
| CT Fairfield | $\begin{array}{r} 14,140 \\ 21.91 \% \end{array}$ |
| CT New Haven | $\begin{gathered} 5,001 \\ 7.75 \% \end{gathered}$ |
| NY Dutchess | $\begin{array}{r} 3,367 \\ 5.22 \% \end{array}$ |
| NYC Bronx | $\begin{array}{r} 2,998 \\ 4.65 \% \end{array}$ |
| NY Putnam | $\begin{aligned} & \text { 1,853 } \\ & \text { 2.87\% } \end{aligned}$ |
| CT Central | $\begin{aligned} & 1,270 \\ & 1.97 \% \end{aligned}$ |
| NY Orange | $\begin{gathered} 700 \\ 1.09 \% \end{gathered}$ |
| Other | $\begin{array}{r} 3,261 \\ 5.05 \% \end{array}$ |
| Total | 64,525 |

### 5.3.7 Sunday

A little under half of all Sunday trips started in the NY Westchester area (47\%) and one-fifth originated in CT Fairfield (20\%).


| Q2. County of Origin | Sunday |
| :---: | :---: |
| Unweighted Base | 13,748 |
| Weighted Base | 56,256 |
| No Answer | 6 |
| Total Answering | 56,251 |
| NY Westchester | $\begin{array}{r} 26,509 \\ 47.13 \% \end{array}$ |
| CT Fairfield | $\begin{array}{r} 11,365 \\ 20.20 \% \end{array}$ |
| CT New Haven | $\begin{array}{r} 4,361 \\ 7.75 \% \end{array}$ |
| NY Dutchess | $\begin{array}{r} 3,378 \\ 6.01 \% \end{array}$ |
| NYC Bronx | $\begin{gathered} 2,481 \\ 4.41 \% \end{gathered}$ |
| NY Putnam | $\begin{gathered} 1,654 \\ 2.94 \% \end{gathered}$ |
| CT Central | $\begin{gathered} 1,555 \\ 2.76 \% \end{gathered}$ |
| NY Orange | $\begin{gathered} 601 \\ 1.07 \% \end{gathered}$ |
| Other | $\begin{gathered} 4,349 \\ 7.73 \% \end{gathered}$ |
| Total | 56,251 |

### 5.3.8 Weekend Total

Similar to what was reported for weekday trips, the top two most frequently mentioned trip origin areas for weekend riders were NY Westchester (48\%) and CT Fairfield (21\%).


| Q2. County of Origin | Weekend Total |
| :---: | :---: |
| Unweighted Base | 30,322 |
| Weighted Base | 120,781 |
| No Answer | 6 |
| Total Answering | 120,776 |
| NY Westchester | $\begin{array}{r} 58,443 \\ 48.39 \% \end{array}$ |
| CT Fairfield | $\begin{aligned} & 25,505 \\ & 21.12 \% \end{aligned}$ |
| CT New Haven | $\begin{gathered} 9,363 \\ 7.75 \% \end{gathered}$ |
| NY Dutchess | $\begin{array}{r} 6,746 \\ 5.59 \% \end{array}$ |
| NYC Bronx | $\begin{array}{r} 5,480 \\ 4.54 \% \end{array}$ |
| NY Putnam | $\begin{gathered} 3,508 \\ 2.90 \% \end{gathered}$ |
| CT Central | $\begin{aligned} & 2,825 \\ & 2.34 \% \end{aligned}$ |
| NY Orange | $\begin{array}{r} 1,301 \\ 1.08 \% \end{array}$ |
| Other | $\begin{gathered} 7,607 \\ 6.30 \% \end{gathered}$ |
| Total | 120,776 |

### 5.4 Trip Origin Type

### 5.4.1 Weekday Riders - Trip Origin Type

Home was the most commonly reported trip origin type for riders in all but one weekday daypart. It accounted for nearly all (94\%) of the trip origin types in AM Peak and while still the predominant origin type, it was progressively lower in the Midday Off Peak (71\%) and Late Night Off Peak (59\%) dayparts. The exception was the PM Reverse Peak daypart, where work (49\%) overtook home (37\%) as the most prevalent origin location type. Nearly a quarter of Late Night Off Peak riders (24\%) also reported work as their trip origin location type.

| Q3. Origin Type | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | - | - | - | - | - |
| Total Answering | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| My Home | 86,733 | 15,542 | 7,044 | 5,682 | 115,000 |
|  | 94.33\% | 70.95\% | 36.57\% | 59.16\% | 80.58\% |
| My work | 1,922 | 2,659 | 9,372 | 2,257 | 16,210 |
|  | 2.09\% | 12.14\% | 48.66\% | 23.50\% | 11.36\% |
| My school | 370 | 988 | 861 | 438 | 2,657 |
|  | 0.40\% | 4.51\% | 4.47\% | 4.56\% | 1.86\% |
| Friend / | 1,796 | 1,492 | 938 | 663 | 4,889 |
| Family home | 1.95\% | 6.81\% | 4.87\% | 6.91\% | 3.43\% |
| Recreation / Tourism / Hotel | 209 | 381 | 388 | 247 | 1,225 |
|  | 0.23\% | 1.74\% | 2.01\% | 2.57\% | 0.86\% |
| Other | 913 | 844 | 656 | 316 | 2,729 |
|  | 0.99\% | 3.85\% | 3.41\% | 3.29\% | 1.91\% |
| Total | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |

[^4]
### 5.4.2 Weekend Riders - Trip Origin Type

$60 \%$ of Saturday trips and $50 \%$ of Sunday trips started from home. Although most of the other origin location types had a similar distribution across Saturday and Sunday, friend/family home trip origins were more common on Sundays than on Saturdays ( $28 \%$ vs. $16 \%$ ).

| Q3. Origin Type | Saturday | Sunday | Weekend Total ${ }^{7}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | - | - | - |
| Total Answering | 64,525 | 56,256 | 120,781 |
| My Home | 38,862 | 28,270 | 67,131 |
|  | 60.23\% | 50.25\% | 55.58\% |
| My work | 5,683 | 4,213 | 9,896 |
|  | 8.81\% | 7.49\% | 8.19\% |
| My school | 2,599 | 1,283 | 3,881 |
|  | 4.03\% | 2.28\% | 3.21\% |
| Friend / Family home | 10,238 | 16,005 | 26,243 |
|  | 15.87\% | 28.45\% | 21.73\% |
| Recreation / Tourism / Hotel | 4,928 | 4,485 | 9,412 |
|  | 7.64\% | 7.97\% | 7.79\% |
| Other | 2,217 | 2,001 | 4,218 |
|  | 3.44\% | 3.56\% | 3.49\% |
| Total | 64,525 | 56,256 | 120,781 |

[^5]
### 5.5 Inbound Origin Station

### 5.5.1 Weekday Riders - Inbound Origin Station

Respondents reported a diverse set of origin stations on weekdays, with the top six mentions each making up between $3 \%-7 \%$ of all stations. White Plains was the most reported trip origin station at $7 \%$, followed by Stamford at 5\%. New Rochelle, Scarsdale, Larchmont, and New Haven were each reported by about 3\% of weekday riders as the origin station. PM Reverse Peak riders heavily reported White Plains as their inbound origin station (16\%).

| Q5. Origin Station | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | - | - | - | - | - |
| Total Answering | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| White Plains | $\begin{gathered} 4,424 \\ 4.81 \% \end{gathered}$ | $\begin{gathered} 1,749 \\ 7.98 \% \end{gathered}$ | $\begin{gathered} 3,047 \\ 15.82 \% \end{gathered}$ | $\begin{gathered} 889 \\ 9.25 \% \end{gathered}$ | $\begin{aligned} & 10,109 \\ & 7.08 \% \end{aligned}$ |
| Stamford | $\begin{gathered} 3,989 \\ 4.34 \% \end{gathered}$ | $\begin{gathered} 1,209 \\ 5.52 \% \end{gathered}$ | $\begin{aligned} & 1,757 \\ & 9.12 \% \end{aligned}$ | $\begin{gathered} 632 \\ 6.58 \% \end{gathered}$ | $\begin{array}{r} 7,587 \\ 5.32 \% \end{array}$ |
| New Rochelle | $\begin{aligned} & 2,895 \\ & 3.15 \% \end{aligned}$ | $\begin{gathered} 808 \\ 3.69 \% \end{gathered}$ | $\begin{gathered} 829 \\ 4.30 \% \end{gathered}$ | $\begin{gathered} 432 \\ 4.50 \% \end{gathered}$ | $\begin{gathered} 4,964 \\ 3.48 \% \end{gathered}$ |
| Scarsdale | $\begin{aligned} & 3,233 \\ & 3.52 \% \end{aligned}$ | $\begin{gathered} 616 \\ 2.81 \% \end{gathered}$ | 459 $2.38 \%$ | 140 $1.46 \%$ | 4,448 $3.12 \%$ |
| Larchmont | $\begin{aligned} & 2,826 \\ & 3.07 \% \end{aligned}$ | $\begin{gathered} 418 \\ 1.91 \% \end{gathered}$ | $\begin{gathered} 428 \\ 2.22 \% \end{gathered}$ | $\begin{gathered} 237 \\ 2.47 \% \end{gathered}$ | $\begin{aligned} & 3,909 \\ & 2.74 \% \end{aligned}$ |
| New Haven | $\begin{gathered} 1,639 \\ 1.78 \% \end{gathered}$ | $\begin{gathered} 966 \\ 4.41 \% \end{gathered}$ | $\begin{gathered} 599 \\ 3.11 \% \end{gathered}$ | $\begin{gathered} 421 \\ 4.38 \% \end{gathered}$ | $\begin{aligned} & 3,625 \\ & 2.54 \% \end{aligned}$ |
| Croton-Harmon | $\begin{gathered} 2,636 \\ 2.87 \% \end{gathered}$ | $\begin{gathered} 494 \\ 2.26 \% \end{gathered}$ | $\begin{gathered} 236 \\ 1.23 \% \end{gathered}$ | $\begin{gathered} 56 \\ 0.59 \% \end{gathered}$ | $\begin{aligned} & 3,423 \\ & 2.40 \% \end{aligned}$ |
| Bridgeport | $\begin{aligned} & 2,170 \\ & 2.36 \% \end{aligned}$ | $\begin{gathered} 579 \\ 2.65 \% \end{gathered}$ | $\begin{gathered} 244 \\ 1.27 \% \end{gathered}$ | $\begin{gathered} 404 \\ 4.21 \% \end{gathered}$ | $\begin{aligned} & 3,398 \\ & 2.38 \% \end{aligned}$ |
| Greenwich | $\begin{gathered} 1,726 \\ 1.88 \% \end{gathered}$ | $\begin{gathered} 563 \\ 2.57 \% \end{gathered}$ | $\begin{gathered} 879 \\ 4.56 \% \end{gathered}$ | $\begin{gathered} 207 \\ 2.16 \% \end{gathered}$ | $\begin{aligned} & 3,375 \\ & 2.36 \% \end{aligned}$ |
| Bronxville | $\begin{aligned} & 2,059 \\ & 2.24 \% \end{aligned}$ | $\begin{gathered} 586 \\ 2.68 \% \end{gathered}$ | $\begin{gathered} 416 \\ 2.16 \% \end{gathered}$ | $\begin{gathered} 187 \\ 1.94 \% \end{gathered}$ | $\begin{gathered} 3,248 \\ \text { 2.28\% } \end{gathered}$ |
| Hartsdale | $\begin{aligned} & 2,461 \\ & 2.68 \% \end{aligned}$ | $\begin{gathered} 353 \\ 1.61 \% \end{gathered}$ | $\begin{gathered} 209 \\ 1.09 \% \end{gathered}$ | $\begin{gathered} 96 \\ 1.00 \% \end{gathered}$ | $\begin{array}{r} 3,120 \\ 2.19 \% \end{array}$ |

[^6]| Q5. Origin Station | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tarrytown | $\begin{gathered} 1,893 \\ 2.06 \% \end{gathered}$ | $\begin{gathered} 468 \\ 2.14 \% \end{gathered}$ | $\begin{gathered} 538 \\ 2.79 \% \end{gathered}$ | $\begin{gathered} 183 \\ 1.91 \% \end{gathered}$ | $\begin{gathered} 3,083 \\ 2.16 \% \end{gathered}$ |
| Port Chester | $\begin{gathered} 1,607 \\ 1.75 \% \end{gathered}$ | $\begin{gathered} 456 \\ 2.08 \% \end{gathered}$ | $\begin{gathered} 580 \\ 3.01 \% \end{gathered}$ | $\begin{gathered} 280 \\ 2.91 \% \end{gathered}$ | $\begin{gathered} 2,923 \\ 2.05 \% \end{gathered}$ |
| Pelham | $\begin{gathered} 2,099 \\ 2.28 \% \end{gathered}$ | $\begin{gathered} 306 \\ 1.40 \% \end{gathered}$ | $\begin{gathered} 288 \\ 1.50 \% \end{gathered}$ | $\begin{gathered} 145 \\ 1.51 \% \end{gathered}$ | $\begin{array}{r} 2,839 \\ 1.99 \% \end{array}$ |
| Mamaroneck | $\begin{gathered} 1,762 \\ 1.92 \% \end{gathered}$ | $\begin{gathered} 332 \\ 1.52 \% \end{gathered}$ | $\begin{gathered} 503 \\ 2.61 \% \end{gathered}$ | $\begin{gathered} 187 \\ 1.95 \% \end{gathered}$ | $\begin{array}{r} 2,784 \\ 1.95 \% \end{array}$ |
| Beacon | $\begin{aligned} & 1,801 \\ & 1.96 \% \end{aligned}$ | $\begin{gathered} 475 \\ 2.17 \% \end{gathered}$ | 222 $1.15 \%$ | 229 $2.39 \%$ | $\begin{array}{r} 2,727 \\ 1.91 \% \end{array}$ |
| Harrison | $\begin{array}{r} 1,794 \\ 1.95 \% \end{array}$ | $\begin{gathered} 326 \\ 1.49 \% \end{gathered}$ | $\begin{gathered} 346 \\ 1.80 \% \end{gathered}$ | $\begin{gathered} 163 \\ 1.70 \% \end{gathered}$ | $\begin{gathered} 2,629 \\ 1.84 \% \end{gathered}$ |
| Westport | $\begin{gathered} 1,563 \\ 1.70 \% \end{gathered}$ | $\begin{gathered} 378 \\ 1.73 \% \end{gathered}$ | $\begin{gathered} 255 \\ 1.32 \% \end{gathered}$ | $\begin{gathered} 360 \\ 3.74 \% \end{gathered}$ | $\begin{aligned} & 2,556 \\ & 1.79 \% \end{aligned}$ |
| North White Plains | $\begin{array}{r} 1,686 \\ 1.83 \% \end{array}$ | $\begin{gathered} 350 \\ 1.60 \% \end{gathered}$ | $\begin{gathered} 366 \\ 1.90 \% \end{gathered}$ | $\begin{gathered} 83 \\ 0.87 \% \end{gathered}$ | $\begin{array}{r} 2,486 \\ 1.74 \% \end{array}$ |
| Fleetwood | $\begin{array}{r} 1,716 \\ 1.87 \% \end{array}$ | $\begin{gathered} 408 \\ 1.86 \% \end{gathered}$ | $\begin{gathered} 229 \\ 1.19 \% \end{gathered}$ | $\begin{gathered} 41 \\ 0.43 \% \end{gathered}$ | $\begin{aligned} & 2,394 \\ & 1.68 \% \end{aligned}$ |
| South Norwalk | $\begin{array}{r} 1,427 \\ 1.55 \% \end{array}$ | $\begin{gathered} 424 \\ 1.94 \% \end{gathered}$ | $\begin{gathered} 260 \\ 1.35 \% \end{gathered}$ | $\begin{gathered} 209 \\ 2.18 \% \end{gathered}$ | $\begin{aligned} & \text { 2,320 } \\ & 1.63 \% \end{aligned}$ |
| Rye | $\begin{gathered} 1,394 \\ 1.52 \% \end{gathered}$ | $\begin{gathered} 340 \\ 1.55 \% \end{gathered}$ | $\begin{gathered} 412 \\ 2.14 \% \end{gathered}$ | $\begin{gathered} 154 \\ 1.61 \% \end{gathered}$ | $\begin{aligned} & 2,300 \\ & 1.61 \% \end{aligned}$ |
| Fairfield | $\begin{aligned} & 1,392 \\ & 1.51 \% \end{aligned}$ | $\begin{gathered} 300 \\ 1.37 \% \end{gathered}$ | $\begin{gathered} 164 \\ 0.85 \% \end{gathered}$ | $\begin{gathered} 311 \\ 3.24 \% \end{gathered}$ | $\begin{gathered} \text { 2,167 } \\ 1.52 \% \end{gathered}$ |
| Chappaqua | $\begin{gathered} 1,621 \\ 1.76 \% \end{gathered}$ | $\begin{gathered} 304 \\ 1.39 \% \end{gathered}$ | $\begin{gathered} 137 \\ 0.71 \% \end{gathered}$ | $\begin{gathered} 48 \\ 0.50 \% \end{gathered}$ | $\begin{aligned} & 2,110 \\ & 1.48 \% \end{aligned}$ |
| Fairfield Metro | $\begin{aligned} & 1,546 \\ & 1.68 \% \end{aligned}$ | $\begin{gathered} 197 \\ 0.90 \% \end{gathered}$ | $\begin{gathered} 94 \\ 0.49 \% \end{gathered}$ | $\begin{gathered} 240 \\ 2.50 \% \end{gathered}$ | $\begin{gathered} 2,077 \\ 1.46 \% \end{gathered}$ |
| Crestwood | $\begin{aligned} & 1,501 \\ & 1.63 \% \end{aligned}$ | $\begin{gathered} 255 \\ 1.16 \% \end{gathered}$ | $\begin{gathered} 160 \\ 0.83 \% \end{gathered}$ | $\begin{gathered} 33 \\ 0.34 \% \end{gathered}$ | $\begin{gathered} 1,949 \\ 1.37 \% \end{gathered}$ |
| Poughkeepsie | $\begin{gathered} 965 \\ 1.05 \% \end{gathered}$ | $\begin{gathered} 486 \\ 2.22 \% \end{gathered}$ | $\begin{gathered} 290 \\ 1.51 \% \end{gathered}$ | $\begin{gathered} 199 \\ 2.07 \% \end{gathered}$ | $\begin{array}{r} 1,940 \\ 1.36 \% \end{array}$ |
| Darien | $\begin{aligned} & 1,036 \\ & 1.13 \% \end{aligned}$ | $\begin{gathered} 259 \\ 1.18 \% \end{gathered}$ | $\begin{gathered} 222 \\ 1.15 \% \end{gathered}$ | $\begin{gathered} 196 \\ 2.04 \% \end{gathered}$ | $\begin{aligned} & 1,713 \\ & 1.20 \% \end{aligned}$ |
| Tuckahoe | $\begin{aligned} & 1,200 \\ & 1.30 \% \end{aligned}$ | $\begin{gathered} 251 \\ 1.15 \% \end{gathered}$ | $\begin{gathered} 171 \\ 0.89 \% \end{gathered}$ | $\begin{gathered} 75 \\ 0.78 \% \end{gathered}$ | $\begin{gathered} 1,697 \\ 1.19 \% \end{gathered}$ |
| Mt Vernon East | $\begin{gathered} 955 \\ 1.04 \% \end{gathered}$ | $\begin{gathered} 335 \\ 1.53 \% \end{gathered}$ | $\begin{gathered} 224 \\ 1.16 \% \end{gathered}$ | $\begin{gathered} 138 \\ 1.44 \% \end{gathered}$ | $\begin{array}{r} 1,652 \\ 1.16 \% \end{array}$ |
| Stratford | $\begin{aligned} & 1,097 \\ & 1.19 \% \end{aligned}$ | $\begin{gathered} 139 \\ 0.63 \% \end{gathered}$ | $\begin{gathered} 86 \\ 0.45 \% \end{gathered}$ | $\begin{gathered} 229 \\ 2.39 \% \end{gathered}$ | $\begin{gathered} 1,551 \\ 1.09 \% \end{gathered}$ |


| Q5. Origin Station | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{8}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ossining | $\begin{aligned} & 1,003 \\ & 1.09 \% \end{aligned}$ | $\begin{gathered} 235 \\ 1.07 \% \end{gathered}$ | $\begin{gathered} 202 \\ 1.05 \% \end{gathered}$ | $\begin{gathered} 100 \\ 1.04 \% \end{gathered}$ | $\begin{aligned} & 1,540 \\ & 1.08 \% \end{aligned}$ |
| Milford | $\begin{array}{r} 1,044 \\ 1.14 \% \end{array}$ | $\begin{gathered} 222 \\ 1.02 \% \end{gathered}$ | $\begin{gathered} 88 \\ 0.46 \% \end{gathered}$ | $\begin{gathered} 111 \\ 1.15 \% \end{gathered}$ | $\begin{array}{r} 1,464 \\ 1.03 \% \end{array}$ |
| Yonkers | $\begin{gathered} 788 \\ 0.86 \% \end{gathered}$ | $\begin{gathered} 274 \\ 1.25 \% \end{gathered}$ | $\begin{gathered} 308 \\ 1.60 \% \end{gathered}$ | $\begin{gathered} 93 \\ 0.97 \% \end{gathered}$ | $\begin{gathered} 1,463 \\ 1.03 \% \end{gathered}$ |
| Hastings-On-Hudson | $\begin{gathered} 1,023 \\ 1.11 \% \end{gathered}$ | $\begin{gathered} 219 \\ 1.00 \% \end{gathered}$ | $\begin{gathered} 110 \\ 0.57 \% \end{gathered}$ | $\begin{gathered} 69 \\ 0.71 \% \end{gathered}$ | $\begin{aligned} & 1,420 \\ & 1.00 \% \end{aligned}$ |
| Dobbs Ferry | $\begin{gathered} 965 \\ 1.05 \% \end{gathered}$ | $\begin{gathered} 179 \\ 0.82 \% \end{gathered}$ | $\begin{gathered} 162 \\ 0.84 \% \end{gathered}$ | $\begin{gathered} 86 \\ 0.90 \% \end{gathered}$ | $\begin{aligned} & 1,392 \\ & 0.98 \% \end{aligned}$ |
| Peekskill | $\begin{gathered} 889 \\ 0.97 \% \end{gathered}$ | $\begin{gathered} 278 \\ 1.27 \% \end{gathered}$ | $\begin{gathered} 124 \\ 0.65 \% \end{gathered}$ | $\begin{gathered} 101 \\ 1.05 \% \end{gathered}$ | $\begin{aligned} & 1,392 \\ & 0.98 \% \end{aligned}$ |
| Noroton Heights | $\begin{array}{r} 1,067 \\ 1.16 \% \end{array}$ | $\begin{gathered} 106 \\ 0.48 \% \end{gathered}$ | $\begin{gathered} 19 \\ 0.10 \% \end{gathered}$ | $\begin{gathered} 195 \\ 2.03 \% \end{gathered}$ | $\begin{aligned} & 1,387 \\ & 0.97 \% \end{aligned}$ |
| Goldens Bridge | $\begin{array}{r} 1,096 \\ 1.19 \% \end{array}$ | $\begin{gathered} 150 \\ 0.68 \% \end{gathered}$ | $\begin{gathered} 86 \\ 0.44 \% \end{gathered}$ | $\begin{gathered} 13 \\ 0.14 \% \end{gathered}$ | $\begin{gathered} 1,344 \\ 0.94 \% \end{gathered}$ |
| Mount Kisco | $\begin{gathered} 747 \\ 0.81 \% \end{gathered}$ | $\begin{gathered} 270 \\ 1.23 \% \end{gathered}$ | $\begin{gathered} 192 \\ 1.00 \% \end{gathered}$ | $\begin{gathered} 113 \\ 1.18 \% \end{gathered}$ | $\begin{aligned} & 1,322 \\ & 0.93 \% \end{aligned}$ |
| Southeast | $\begin{gathered} 944 \\ 1.03 \% \end{gathered}$ | $\begin{gathered} 227 \\ 1.03 \% \end{gathered}$ | $\begin{gathered} 101 \\ 0.52 \% \end{gathered}$ | $\begin{gathered} 32 \\ 0.34 \% \end{gathered}$ | $\begin{gathered} 1,303 \\ 0.91 \% \end{gathered}$ |
| Pleasantville | $\begin{gathered} 735 \\ 0.80 \% \end{gathered}$ | $\begin{gathered} 209 \\ 0.95 \% \end{gathered}$ | $\begin{gathered} 254 \\ 1.32 \% \end{gathered}$ | $\begin{gathered} 102 \\ 1.06 \% \end{gathered}$ | $\begin{aligned} & 1,299 \\ & 0.91 \% \end{aligned}$ |
| Katonah | $\begin{gathered} 864 \\ 0.94 \% \end{gathered}$ | $\begin{gathered} 204 \\ 0.93 \% \end{gathered}$ | $\begin{gathered} 171 \\ 0.89 \% \end{gathered}$ | $\begin{gathered} 47 \\ 0.49 \% \end{gathered}$ | $\begin{aligned} & 1,285 \\ & 0.90 \% \end{aligned}$ |
| Brewster | $\begin{gathered} 843 \\ 0.92 \% \end{gathered}$ | $\begin{gathered} 265 \\ 1.21 \% \end{gathered}$ | $\begin{gathered} 109 \\ 0.57 \% \end{gathered}$ | $\begin{gathered} 64 \\ 0.67 \% \end{gathered}$ | $\begin{aligned} & 1,281 \\ & 0.90 \% \end{aligned}$ |
| Woodlawn | $\begin{gathered} 822 \\ 0.89 \% \end{gathered}$ | $\begin{gathered} 252 \\ 1.15 \% \end{gathered}$ | $\begin{gathered} 84 \\ 0.44 \% \end{gathered}$ | $\begin{gathered} 56 \\ 0.58 \% \end{gathered}$ | $\begin{gathered} 1,214 \\ 0.85 \% \end{gathered}$ |
| New Canaan | $\begin{gathered} 879 \\ 0.96 \% \end{gathered}$ | $\begin{gathered} 90 \\ 0.41 \% \end{gathered}$ | $\begin{gathered} 137 \\ 0.71 \% \end{gathered}$ | $\begin{gathered} 56 \\ 0.58 \% \end{gathered}$ | $\begin{gathered} 1,162 \\ 0.81 \% \end{gathered}$ |
| Irvington | $\begin{gathered} 725 \\ 0.79 \% \end{gathered}$ | $\begin{gathered} 156 \\ 0.71 \% \end{gathered}$ | $\begin{gathered} 189 \\ 0.98 \% \end{gathered}$ | $\begin{gathered} 87 \\ 0.90 \% \end{gathered}$ | $\begin{gathered} 1,156 \\ 0.81 \% \end{gathered}$ |
| Other East of Hudson Stations | $\begin{gathered} 17,397 \\ 18.92 \% \end{gathered}$ | $\begin{gathered} 3,440 \\ 15.70 \% \end{gathered}$ | $\begin{gathered} 2,273 \\ 11.80 \% \end{gathered}$ | $\begin{gathered} 1,072 \\ 11.16 \% \end{gathered}$ | $\begin{gathered} 24,180 \\ 16.94 \% \end{gathered}$ |
| Total | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |

### 5.5.2 Weekend Riders - Inbound Origin Station

Following a similar pattern as for weekday riders, many different origin stations were reported by weekend riders with no one particular station standing out. New Haven and White Plains were the two most common weekend origin stations (both at 7\%).

| Q5. Origin Station | Saturday | Sunday | Weekend Total ${ }^{9}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | - | - | - |
| Total Answering | 64,525 | 56,256 | 120,781 |
| New Haven | $\begin{gathered} 4,275 \\ 6.63 \% \end{gathered}$ | $\begin{gathered} 4,671 \\ 8.30 \% \end{gathered}$ | $\begin{gathered} 8,946 \\ 7.41 \% \end{gathered}$ |
| White Plains | $\begin{gathered} 5,001 \\ 7.75 \% \end{gathered}$ | $\begin{array}{r} 3,846 \\ 6.84 \% \end{array}$ | $\begin{gathered} 8,847 \\ 7.32 \% \end{gathered}$ |
| Stamford | $\begin{array}{r} 3,419 \\ 5.30 \% \end{array}$ | $\begin{gathered} 2,635 \\ 4.68 \% \end{gathered}$ | $\begin{array}{r} 6,054 \\ 5.01 \% \end{array}$ |
| New Rochelle | $\begin{array}{r} 2,734 \\ 4.24 \% \end{array}$ | $\begin{aligned} & 1,910 \\ & 3.40 \% \end{aligned}$ | $\begin{aligned} & 4,644 \\ & 3.85 \% \end{aligned}$ |
| Poughkeepsie | $\begin{gathered} 1,809 \\ 2.80 \% \end{gathered}$ | $\begin{aligned} & 1,870 \\ & 3.32 \% \end{aligned}$ | $\begin{aligned} & 3,679 \\ & 3.05 \% \end{aligned}$ |
| Beacon | $\begin{gathered} 1,743 \\ 2.70 \% \end{gathered}$ | $\begin{aligned} & 1,710 \\ & 3.04 \% \end{aligned}$ | $\begin{gathered} 3,453 \\ 2.86 \% \end{gathered}$ |
| Tarrytown | $\begin{aligned} & 1,498 \\ & 2.32 \% \end{aligned}$ | $\begin{aligned} & 1,858 \\ & 3.30 \% \end{aligned}$ | $\begin{gathered} 3,356 \\ 2.78 \% \end{gathered}$ |
| Bridgeport | $\begin{aligned} & 1,665 \\ & 2.58 \% \end{aligned}$ | $\begin{array}{r} 1,566 \\ 2.78 \% \end{array}$ | $\begin{aligned} & 3,231 \\ & 2.68 \% \end{aligned}$ |
| Port Chester | $\begin{aligned} & 1,600 \\ & 2.48 \% \end{aligned}$ | $\begin{gathered} 1,173 \\ 2.09 \% \end{gathered}$ | $\begin{gathered} 2,774 \\ 2.30 \% \end{gathered}$ |
| Scarsdale | $\begin{gathered} 1,432 \\ 2.22 \% \end{gathered}$ | $\begin{gathered} 1,138 \\ 2.02 \% \end{gathered}$ | $\begin{aligned} & 2,571 \\ & 2.13 \% \end{aligned}$ |
| Bronxville | $\begin{gathered} 1,310 \\ 2.03 \% \end{gathered}$ | $\begin{gathered} 926 \\ 1.65 \% \end{gathered}$ | $\begin{aligned} & 2,236 \\ & 1.85 \% \end{aligned}$ |
| Greenwich | $\begin{gathered} 1,232 \\ 1.91 \% \end{gathered}$ | $\begin{gathered} 974 \\ 1.73 \% \end{gathered}$ | $\begin{aligned} & 2,207 \\ & 1.83 \% \end{aligned}$ |
| Larchmont | $\begin{aligned} & 1,267 \\ & 1.96 \% \end{aligned}$ | $\begin{gathered} 923 \\ 1.64 \% \end{gathered}$ | $\begin{aligned} & \text { 2,191 } \\ & 1.81 \% \end{aligned}$ |

[^7]| Q5. Origin Station | Saturday | Sunday | Weekend Total ${ }^{10}$ |
| :---: | :---: | :---: | :---: |
| Mamaroneck | 1,271 | 869 | 2,141 |
|  | 1.97\% | 1.55\% | 1.77\% |
| South Norwalk | 1,178 | 912 | 2,090 |
|  | 1.83\% | 1.62\% | 1.73\% |
| Croton-Harmon | 870 | 1,146 | 2,017 |
|  | 1.35\% | 2.04\% | 1.67\% |
| Fairfield | 1,020 | 872 | 1,892 |
|  | 1.58\% | 1.55\% | 1.57\% |
| Westport | 1,018 | 851 | 1,869 |
|  | 1.58\% | 1.51\% | 1.55\% |
| Pelham | 1,049 | 777 | 1,825 |
|  | 1.63\% | 1.38\% | 1.51\% |
| Harrison | 989 | 776 | 1,765 |
|  | 1.53\% | 1.38\% | 1.46\% |
| Southeast | 895 | 834 | 1,729 |
|  | 1.39\% | 1.48\% | 1.43\% |
| Peekskill | 866 | 846 | 1,711 |
|  | 1.34\% | 1.50\% | 1.42\% |
| Rye | 976 | 712 | 1,688 |
|  | 1.51\% | 1.26\% | 1.40\% |
| Mt Vernon East | 1,024 | 626 | 1,650 |
|  | 1.59\% | 1.11\% | 1.37\% |
| Ossining | 756 | 891 | 1,647 |
|  | 1.17\% | 1.58\% | 1.36\% |
| Fordham | 1,090 | 492 | 1,582 |
|  | 1.69\% | 0.87\% | 1.31\% |
| Fairfield Metro | 857 | 636 | 1,492 |
|  | 1.33\% | 1.13\% | 1.24\% |
| Fleetwood |  | 597 | 1,483 |
|  | 1.37\% | 1.06\% | 1.23\% |
| Mount Kisco | 712 | 757 | 1,468 |
|  | 1.10\% | 1.35\% | 1.22\% |
| Milford | 830 | 636 | 1,466 |
|  | 1.29\% | 1.13\% | 1.21\% |
| Brewster | 672 | 755 | 1,427 |
|  | 1.04\% | 1.34\% | 1.18\% |

${ }^{10}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

| Q5. Origin Station | Saturday | Sunday | Weekend Total ${ }^{11}$ |
| :---: | :---: | :---: | :---: |
| North White Plains | $\begin{gathered} 810 \\ 1.26 \% \end{gathered}$ | $\begin{gathered} 596 \\ 1.06 \% \end{gathered}$ | $\begin{array}{r} 1,406 \\ 1.16 \% \end{array}$ |
| Darien | $\begin{gathered} 805 \\ 1.25 \% \end{gathered}$ | $\begin{gathered} 593 \\ 1.05 \% \end{gathered}$ | $\begin{gathered} 1,397 \\ 1.16 \% \end{gathered}$ |
| Yonkers | $\begin{gathered} 589 \\ 0.91 \% \end{gathered}$ | $\begin{gathered} 802 \\ 1.42 \% \end{gathered}$ | $\begin{array}{r} 1,390 \\ 1.15 \% \end{array}$ |
| Hartsdale | $\begin{gathered} 779 \\ 1.21 \% \end{gathered}$ | $\begin{gathered} 589 \\ 1.05 \% \end{gathered}$ | $\begin{array}{r} 1,368 \\ 1.13 \% \end{array}$ |
| Stratford | $\begin{gathered} 812 \\ 1.26 \% \end{gathered}$ | $\begin{gathered} 524 \\ 0.93 \% \end{gathered}$ | $\begin{array}{r} 1,337 \\ 1.11 \% \end{array}$ |
| Pleasantville | $\begin{gathered} 631 \\ 0.98 \% \end{gathered}$ | $\begin{gathered} 653 \\ 1.16 \% \end{gathered}$ | $\begin{array}{r} 1,284 \\ 1.06 \% \end{array}$ |
| Katonah | $\begin{gathered} 678 \\ 1.05 \% \end{gathered}$ | $\begin{gathered} 569 \\ 1.01 \% \end{gathered}$ | $\begin{aligned} & 1,247 \\ & 1.03 \% \end{aligned}$ |
| West Haven | $\begin{gathered} 757 \\ 1.17 \% \end{gathered}$ | $\begin{gathered} 484 \\ 0.86 \% \end{gathered}$ | $\begin{aligned} & 1,241 \\ & 1.03 \% \end{aligned}$ |
| Dobbs Ferry | $\begin{gathered} 516 \\ 0.80 \% \end{gathered}$ | $\begin{gathered} 694 \\ 1.23 \% \end{gathered}$ | $\begin{aligned} & 1,210 \\ & 1.00 \% \end{aligned}$ |
| Woodlawn | $\begin{gathered} 693 \\ 1.07 \% \end{gathered}$ | $\begin{gathered} 456 \\ 0.81 \% \end{gathered}$ | $\begin{aligned} & 1,150 \\ & 0.95 \% \end{aligned}$ |
| Crestwood | $\begin{gathered} 728 \\ 1.13 \% \end{gathered}$ | $\begin{gathered} 381 \\ 0.68 \% \end{gathered}$ | $\begin{gathered} 1,109 \\ 0.92 \% \end{gathered}$ |
| Chappaqua | $\begin{gathered} 534 \\ 0.83 \% \end{gathered}$ | $\begin{gathered} 479 \\ 0.85 \% \end{gathered}$ | $\begin{gathered} 1,013 \\ 0.84 \% \end{gathered}$ |
| Botanical Garden | $\begin{gathered} 478 \\ 0.74 \% \end{gathered}$ | $\begin{gathered} 524 \\ 0.93 \% \end{gathered}$ | $\begin{aligned} & 1,002 \\ & 0.83 \% \end{aligned}$ |
| New Hamburg | $\begin{gathered} 471 \\ 0.73 \% \end{gathered}$ | $\begin{gathered} 520 \\ 0.92 \% \end{gathered}$ | $\begin{gathered} 991 \\ 0.82 \% \end{gathered}$ |
| Tuckahoe | $\begin{gathered} 553 \\ 0.86 \% \end{gathered}$ | $\begin{gathered} 423 \\ 0.75 \% \end{gathered}$ | $\begin{gathered} 976 \\ 0.81 \% \end{gathered}$ |
| Other East of Hudson Stations ${ }^{12}$ | $\begin{gathered} 8,743 \\ 13.55 \% \end{gathered}$ | $\begin{gathered} 8,787 \\ 15.62 \% \end{gathered}$ | $\begin{gathered} 17,532 \\ 14.52 \% \end{gathered}$ |
| Total | 64,525 | 56,256 | 120,781 |

${ }^{11}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)
${ }^{12}$ Stations where the response is very low were rolled up into the category "Other East of Hudson Stations" and are not listed individually in the table.

### 5.6 Number of Minutes to Origin Station

### 5.6.1 Weekday Riders - Travel Time to Origin Station

The average time it took weekday riders to travel to their inbound origin station was about 11 minutes among AM Peak riders and about 15 minutes for riders in all other weekday dayparts.

| Q6. Number of Minutes <br> to Origin Station | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |

[^8]
### 5.6.2 Weekend Riders - Travel Time to Origin Station

The average travel time to the inbound origin station was higher for Sunday riders (19 minutes) than for Saturday riders (16 minutes).

| Q6. Number of Minutes to Origin Station | Saturday | Sunday | Weekend Total ${ }^{14}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 3,019 | 2,936 | 5,955 |
| Total Answering | 61,505 | 53,320 | 114,826 |
| 1-5 minutes | 17,131 | 14,240 | 31,371 |
|  | 27.85\% | 26.71\% | 27.32\% |
| 6-10 minutes | 19,472 | 15,974 | 35,446 |
|  | 31.66\% | 29.96\% | 30.87\% |
| 11-15 minutes | 9,102 | 7,271 | 16,373 |
|  | 14.80\% | 13.64\% | 14.26\% |
| 16-30 minutes | 10,106 | 9,500 | 19,606 |
|  | 16.43\% | 17.82\% | 17.07\% |
| 31 minutes or above | 5,694 | 6,335 | 12,030 |
|  | 9.26\% | 11.88\% | 10.48\% |
| Mean | 16.24 | 18.59 | 17.33 |
| Median | 9.58 | 9.69 | 9.63 |
| Total | 61,505 | 53,320 | 114,826 |

[^9]
### 5.7 Inbound Access Mode to Station ${ }^{15}$

### 5.7.1 Weekday Riders - Inbound Access Mode

About 45\% of AM Peak riders reported driving alone to the origin station and parking. This access mode became much less prevalent throughout later weekday dayparts, as walking was more prominent among riders in Midday Off Peak, PM Reverse Peak, and Late Night Off Peak (37\%, 46\%, and $38 \%$, respectively).

Please note: respondents were instructed to select all access modes that applied. As a result the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q7. Access Mode to <br> Station | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total² |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 391 | 416 | 675 | 224 | 1,707 |
| Total Answering | 91,551 | 21,490 | 18,584 | 9,379 | 141,004 |
| Drove alone and parked | 41,338 | 6,038 | 2,240 | 2,953 | 52,570 |
| Walked | $45.15 \%$ | $28.10 \%$ | $12.06 \%$ | $31.49 \%$ | $37.28 \%$ |
| Dropped off | 24,874 | 8,017 | 8,619 | 3,545 | 45,055 |
| Drove or rode with others and | $27.17 \%$ | $37.30 \%$ | $46.38 \%$ | $37.80 \%$ | $31.95 \%$ |
| parked | 15,306 | 4,043 | 3,045 | 1,521 | 23,916 |
| Bus | $16.72 \%$ | $18.81 \%$ | $16.39 \%$ | $16.22 \%$ | $16.96 \%$ |

[^10]| Q7. Access Mode to |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Station | AM Peak | Midday Off |
| :---: |
| Peak | | PM |
| :---: |
| Reverse |
| Peak |$\quad$| Late Night |
| :---: |
| Off Peak | | Weekday |
| :---: |
| Total |

### 5.7.2 Weekend Riders - Inbound Access Mode

More Saturday riders walked to the train station than Sunday riders (35\% vs. 30\%). A notable portion of all weekend riders were dropped off or drove (alone or with others) ( $27 \%, 15 \%$ and $14 \%$, respectively) to get to the origin station.

Please note: respondents were instructed to select all access modes that applied. As a result, the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q7. Access Mode to Station | Saturday | Sunday | Weekend Total ${ }^{17}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 889 | 893 | 1,782 |
| Total Answering | 63,636 | 55,364 | 118,999 |
| Walked | $\begin{array}{r} 21,980 \\ 34.54 \% \end{array}$ | $\begin{array}{r} 16,600 \\ 29.98 \% \end{array}$ | $\begin{array}{r} 38,580 \\ 32.42 \% \end{array}$ |
| Dropped off | $\begin{array}{r} 13,588 \\ 21.35 \% \end{array}$ | $\begin{array}{r} 18,096 \\ 32.69 \% \end{array}$ | $\begin{gathered} 31,684 \\ 26.63 \% \end{gathered}$ |
| Drove or rode with others and parked | $\begin{array}{r} 10,177 \\ 15.99 \% \end{array}$ | $\begin{array}{r} 7,366 \\ 13.31 \% \end{array}$ | $\begin{array}{r} 17,543 \\ 14.74 \% \end{array}$ |
| Drove alone and parked | $\begin{array}{r} 9,997 \\ 15.71 \% \end{array}$ | $\begin{gathered} 7,040 \\ 12.72 \% \end{gathered}$ | $\begin{array}{r} 17,037 \\ 14.32 \% \end{array}$ |
| Taxi / Car service / Uber | $\begin{gathered} 4,962 \\ 7.80 \% \end{gathered}$ | $\begin{gathered} 3,973 \\ 7.18 \% \end{gathered}$ | $\begin{gathered} 8,935 \\ 7.51 \% \end{gathered}$ |
| Bus | $\begin{array}{r} 2,686 \\ 4.22 \% \end{array}$ | $\begin{array}{r} 1,680 \\ 3.04 \% \end{array}$ | $\begin{array}{r} 4,367 \\ 3.67 \% \end{array}$ |
| Bicycle | $\begin{gathered} 607 \\ 0.95 \% \end{gathered}$ | $\begin{gathered} 302 \\ 0.55 \% \end{gathered}$ | 909 $0.76 \%$ |

[^11]| Q7. Access <br> Mode to Station | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Shore Line East | 203 | 442 | 644 |
| Amtrak | $0.32 \%$ | $0.80 \%$ | $0.54 \%$ |
| Ferry | 168 | 354 | 522 |
|  | $0.26 \%$ | $0.64 \%$ | $0.44 \%$ |
| Other | 49 | 43 | 92 |
| Total | $0.08 \%$ | $0.08 \%$ | $0.08 \%$ |

### 5.8 Inbound Transfer Station

### 5.8.1 Weekday Riders - Inbound Transfer

Only about 3\% of weekday riders reported making a transfer during their inbound trip. Percentagewise, fewer AM Peak riders made transfers (2\%) compared to riders from other weekday dayparts (4$5 \%)$.

| Q8. Made Inbound <br> Transfer | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 321 | 222 | 282 | 37 | 861 |
| Total Answering | 1,759 | 1,094 | 67,622 | 21,684 | 18,978 |
|  | $1.92 \%$ | $5.04 \%$ | $3.54 \%$ | 9,566 | 141,850 |
| Yes | 89,862 | 20,590 | 18,306 | 517 | 4,042 |
| No | $98.08 \%$ | $94.96 \%$ | $96.46 \%$ | 94,050 | 137,808 |
| Total | 91,622 | 21,684 | 18,978 | 9,566 | $97.15 \%$ |

${ }^{18}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

### 5.8.2 Weekend Riders - Inbound Transfer

6\% of weekend riders reported making a transfer during their inbound trip; this was higher than the weekday transfer rate (3\%).

| Q8. Made Inbound <br> Transfer | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 657 | 641 | 1,299 |
| Total Answering | 63,868 | 55,615 | 119,483 |
|  | 3,522 | 3,321 | 6,843 |
| Yes | $6.52 \%$ | $5.97 \%$ | $5.73 \%$ |
| No | 64,345 | 52,294 | 112,639 |
| Total | 63,868 | $94.03 \%$ | $94.27 \%$ |

${ }^{19}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

### 5.8.3 Weekday Riders - Transfer Station

Among those who transferred, Stamford was the most frequently reported transfer station for weekday riders across all dayparts (38\%). Croton-Harmon was the second most commonly reported transfer station for both AM Peak (18\%) and Late Night Off Peak riders (23\%) while Southeast was most reported among Midday Off-Peak riders (17\%). White Plains was the second most reported transfer station for only the PM Reverse peak (20\%), although it was also the second most frequently reported transfer station overall (16\%).

| Q8. Transfer Station | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{20}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 90,183 | 20,812 | 18,588 | 9,086 | 138,669 |
| Total Answering | 1,759 | 1,094 | 672 | 517 | 4,042 |
| Stamford | $\begin{gathered} 621 \\ 35.30 \% \end{gathered}$ | $\begin{gathered} 465 \\ 42.47 \% \end{gathered}$ | $\begin{gathered} 244 \\ 36.26 \% \end{gathered}$ | $\begin{gathered} 206 \\ 39.91 \% \end{gathered}$ | $\begin{gathered} 1,536 \\ 37.99 \% \end{gathered}$ |
| White Plains | $\begin{gathered} 294 \\ 16.73 \% \end{gathered}$ | $\begin{gathered} 130 \\ 11.88 \% \end{gathered}$ | $\begin{gathered} 137 \\ 20.32 \% \end{gathered}$ | $\begin{gathered} 95 \\ 18.44 \% \end{gathered}$ | $\begin{gathered} 656 \\ 16.24 \% \end{gathered}$ |
| Croton-Harmon | $\begin{gathered} 321 \\ 18.27 \% \end{gathered}$ | $\begin{gathered} 101 \\ 9.27 \% \end{gathered}$ | $\begin{gathered} 95 \\ 14.07 \% \end{gathered}$ | $\begin{gathered} 118 \\ 22.80 \% \end{gathered}$ | $\begin{gathered} 635 \\ 15.71 \% \end{gathered}$ |
| Southeast | $\begin{gathered} 60 \\ 3.42 \% \end{gathered}$ | $\begin{gathered} 182 \\ 16.61 \% \end{gathered}$ | $\begin{gathered} 52 \\ 7.70 \% \end{gathered}$ | $\begin{gathered} 42 \\ 8.13 \% \end{gathered}$ | $\begin{gathered} 336 \\ 8.31 \% \end{gathered}$ |
| South Norwalk | $\begin{gathered} 102 \\ 5.78 \% \end{gathered}$ | $\begin{gathered} 65 \\ 5.93 \% \end{gathered}$ | $\begin{gathered} 60 \\ 8.88 \% \end{gathered}$ | $\begin{gathered} 26 \\ 4.99 \% \end{gathered}$ | $\begin{gathered} 252 \\ 6.24 \% \end{gathered}$ |
| Bridgeport | $\begin{gathered} 125 \\ 7.08 \% \end{gathered}$ | $\begin{gathered} 67 \\ 6.09 \% \end{gathered}$ | $\begin{gathered} 30 \\ 4.45 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.23 \% \end{gathered}$ | $\begin{gathered} 227 \\ 5.63 \% \end{gathered}$ |
| Harlem-125th St. | $\begin{gathered} 38 \\ 2.17 \% \end{gathered}$ | $\begin{gathered} 21 \\ 1.89 \% \end{gathered}$ | $\begin{gathered} 23 \\ 3.46 \% \end{gathered}$ | $\begin{gathered} 5 \\ 1.05 \% \end{gathered}$ | $\begin{gathered} 87 \\ 2.16 \% \end{gathered}$ |
| Crestwood | $\begin{gathered} 27 \\ 1.55 \% \end{gathered}$ | $\begin{gathered} 40 \\ 3.67 \% \end{gathered}$ |  |  | $\begin{gathered} 67 \\ 1.67 \% \end{gathered}$ |
| North White Plains | $\begin{gathered} 16 \\ 0.93 \% \end{gathered}$ | $\begin{gathered} 19 \\ 1.72 \% \end{gathered}$ | $\begin{gathered} 17 \\ 2.53 \% \end{gathered}$ | $\begin{gathered} 13 \\ 2.51 \% \end{gathered}$ | $\begin{gathered} 65 \\ 1.61 \% \end{gathered}$ |
| Mt Vernon West | $\begin{gathered} 42 \\ 2.37 \% \end{gathered}$ | - | - | - | $\begin{gathered} 42 \\ 1.03 \% \end{gathered}$ |
| Other | $\begin{gathered} 122 \\ 6.89 \% \end{gathered}$ | $\begin{gathered} 22 \\ 1.98 \% \end{gathered}$ | $\begin{gathered} 21 \\ 3.10 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.16 \% \end{gathered}$ | $\begin{gathered} 170 \\ 4.17 \% \end{gathered}$ |
| Total | 1,770 | 1,111 | 677 | 518 | 4,076 |

[^12]
### 5.8.4 Weekend Riders - Transfer Station

Similar to what was reported for weekday riders, Stamford was (among those who transferred) the most frequently used transfer station for weekend riders (39\%). The second most frequently mentioned transfer station was White Plains for Saturday riders (16\%) and Southeast for Sunday riders (20\%). Croton-Harmon was also a well-represented transfer station on the weekend (12\%).

| Q8. Transfer Station | Saturday | Sunday | Weekend Total ${ }^{21}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 61,002 | 52,935 | 113,938 |
| Total Answering | 3,522 | 3,321 | 6,843 |
| Stamford | $\begin{gathered} 1,492 \\ 42.36 \% \end{gathered}$ | 1,179 35.51\% | $\begin{gathered} 2,672 \\ 39.04 \% \end{gathered}$ |
| Southeast | $\begin{gathered} 391 \\ 11.09 \% \end{gathered}$ | $\begin{gathered} 664 \\ 20.01 \% \end{gathered}$ | $\begin{gathered} 1,055 \\ 15.41 \% \end{gathered}$ |
| White Plains | $\begin{gathered} 552 \\ 15.68 \% \end{gathered}$ | $\begin{gathered} 360 \\ 10.85 \% \end{gathered}$ | $\begin{gathered} 913 \\ 13.34 \% \end{gathered}$ |
| Croton-Harmon | $\begin{gathered} 410 \\ 11.63 \% \end{gathered}$ | $\begin{gathered} 442 \\ 13.30 \% \end{gathered}$ | $\begin{gathered} 851 \\ 12.44 \% \end{gathered}$ |
| Bridgeport | $\begin{gathered} 300 \\ 8.52 \% \end{gathered}$ | $\begin{gathered} 323 \\ 9.73 \% \end{gathered}$ | $\begin{gathered} 623 \\ 9.11 \% \end{gathered}$ |
| South Norwalk | $\begin{gathered} 213 \\ 6.05 \% \end{gathered}$ | $\begin{gathered} 246 \\ 7.42 \% \end{gathered}$ | $\begin{gathered} 460 \\ 6.72 \% \end{gathered}$ |
| Harlem-125Th St. | $\begin{gathered} 98 \\ 2.78 \% \end{gathered}$ | $\begin{gathered} 45 \\ 1.36 \% \end{gathered}$ | $\begin{gathered} 143 \\ 2.09 \% \end{gathered}$ |
| North White Plains | $\begin{gathered} 58 \\ 1.64 \% \end{gathered}$ | $\begin{gathered} 35 \\ 1.04 \% \end{gathered}$ | $\begin{gathered} 92 \\ 1.35 \% \end{gathered}$ |
| Other | $\begin{gathered} 66 \\ 1.84 \% \end{gathered}$ | $\begin{gathered} 74 \\ 2.20 \% \end{gathered}$ | $\begin{gathered} 141 \\ 2.03 \% \end{gathered}$ |
| Total | 3,579 | 3,370 | 6,948 |

[^13]
### 5.9 Inbound Destination Station

### 5.9.1 Weekday Riders - Inbound Destination Station

A majority of weekday riders (82\%) reported either Grand Central or Harlem-125th St.as their final destination stations (76\% and 6\%, respectively). Grand Central was, in particular, the most prevalent inbound destination station during AM Peak (85\%).

| Q9. Destination Station | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{22}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | - | - | - | - | - |
| Total Answering | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| Grand Central | $\begin{array}{r} 78,169 \\ 85.02 \% \end{array}$ | $\begin{array}{r} 15,726 \\ 71.79 \% \end{array}$ | $\begin{gathered} 9,519 \\ 49.42 \% \end{gathered}$ | $\begin{gathered} 5,339 \\ 55.59 \% \end{gathered}$ | $\begin{aligned} & 108,753 \\ & 76.20 \% \end{aligned}$ |
| Harlem-125th St. | $\begin{array}{r} 3,845 \\ 4.18 \% \end{array}$ | $\begin{gathered} 1,617 \\ 7.38 \% \end{gathered}$ | $\begin{gathered} 2,213 \\ 11.49 \% \end{gathered}$ | $\begin{gathered} 895 \\ 9.32 \% \end{gathered}$ | $\begin{array}{r} 8,570 \\ 6.01 \% \end{array}$ |
| Fordham | $\begin{aligned} & 1,197 \\ & 1.30 \% \end{aligned}$ | $\begin{gathered} 1,088 \\ 4.97 \% \end{gathered}$ | $\begin{gathered} 2,409 \\ 12.51 \% \end{gathered}$ | $\begin{gathered} 901 \\ 9.38 \% \end{gathered}$ | $\begin{aligned} & 5,595 \\ & 3.92 \% \end{aligned}$ |
| Stamford | $\begin{gathered} 3,087 \\ 3.36 \% \end{gathered}$ | $\begin{gathered} 514 \\ 2.34 \% \end{gathered}$ | $\begin{gathered} 359 \\ 1.86 \% \end{gathered}$ | $\begin{gathered} 309 \\ 3.22 \% \end{gathered}$ | $\begin{gathered} 4,268 \\ 2.99 \% \end{gathered}$ |
| Mt Vernon East | $\begin{gathered} 177 \\ 0.19 \% \end{gathered}$ | $\begin{gathered} 164 \\ 0.75 \% \end{gathered}$ | $\begin{gathered} 523 \\ 2.72 \% \end{gathered}$ | $\begin{gathered} 248 \\ 2.58 \% \end{gathered}$ | $\begin{gathered} 1,111 \\ 0.78 \% \end{gathered}$ |
| Other | $\begin{array}{r} 5,469 \\ 5.95 \% \end{array}$ | $\begin{gathered} 2,797 \\ 12.77 \% \end{gathered}$ | $\begin{gathered} 4,238 \\ 22.01 \% \end{gathered}$ | $\begin{gathered} 1,914 \\ 19.93 \% \end{gathered}$ | $\begin{gathered} 14,416 \\ 10.10 \% \end{gathered}$ |
| Total | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |

[^14]
### 5.9.2 Weekend Riders - Inbound Destination Station

Grand Central and Harlem-125th St. were the two most frequently mentioned inbound destination stations during the weekend ( $67 \%$ and $10 \%$, respectively), but respondents also reported other destination stations, as compared to weekday respondents.

| Q9. Destination Station | Saturday | Sunday | Weekend Total ${ }^{23}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | - | - | - |
| Total Answering | 64,525 | 56,256 | 120,781 |
| Grand Central | $\begin{gathered} 42,677 \\ 66.14 \% \end{gathered}$ | $\begin{array}{r} 38,099 \\ 67.72 \% \end{array}$ | $\begin{gathered} 80,777 \\ 66.88 \% \end{gathered}$ |
| Harlem-125th St. | $\begin{gathered} 5,763 \\ 8.93 \% \end{gathered}$ | $\begin{gathered} 6,058 \\ 10.77 \% \end{gathered}$ | $\begin{aligned} & 11,820 \\ & 9.79 \% \end{aligned}$ |
| Fordham | $\begin{gathered} 4,291 \\ 6.65 \% \end{gathered}$ | $\begin{gathered} 3,056 \\ 5.43 \% \end{gathered}$ | $\begin{gathered} 7,348 \\ 6.08 \% \end{gathered}$ |
| Stamford | $\begin{aligned} & 1,484 \\ & 2.30 \% \end{aligned}$ | $\begin{array}{r} 873 \\ 1.55 \% \end{array}$ | $\begin{aligned} & 2,357 \\ & 1.95 \% \end{aligned}$ |
| Mt Vernon East | $\begin{gathered} 795 \\ 1.23 \% \end{gathered}$ | $\begin{gathered} 640 \\ 1.14 \% \end{gathered}$ | $\begin{aligned} & 1,435 \\ & 1.19 \% \end{aligned}$ |
| White Plains | $\begin{gathered} 629 \\ 0.97 \% \end{gathered}$ | $\begin{gathered} 718 \\ 1.28 \% \end{gathered}$ | $\begin{aligned} & 1,347 \\ & 1.12 \% \end{aligned}$ |
| New Rochelle | $\begin{gathered} 829 \\ 1.29 \% \end{gathered}$ | $\begin{gathered} 498 \\ 0.89 \% \end{gathered}$ | $\begin{array}{r} 1,328 \\ 1.10 \% \end{array}$ |
| Marble Hill | $\begin{gathered} 522 \\ 0.81 \% \end{gathered}$ | $\begin{array}{r} 502 \\ 0.89 \% \end{array}$ | $\begin{gathered} 1,024 \\ 0.85 \% \end{gathered}$ |
| Yonkers | $\begin{gathered} 423 \\ 0.66 \% \end{gathered}$ | $\begin{gathered} 556 \\ 0.99 \% \end{gathered}$ | $\begin{gathered} 979 \\ 0.81 \% \end{gathered}$ |
| Other East of Hudson Stations ${ }^{24}$ | $\begin{gathered} 7,112 \\ 11.02 \% \end{gathered}$ | 5,260 $9.35 \%$ | 12,367 $10.24 \%$ |
| Total | 64,525 | 56,256 | 120,781 |

${ }^{23}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM

- 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)
${ }^{24}$ Stations where the response is very low were rolled up into the category "Other East of Hudson Stations" and are not listed individually in the table.


### 5.10 Inbound Egress Mode to Final Destination

### 5.10.1 Weekday Riders - Inbound Egress Mode to Final Destination ${ }^{25}$

The two most common egress modes for weekday riders were walking and subway, collectively making up about $94 \%$ ( $59 \%$ and $34 \%$, respectively) of total mentions.

Please note: respondents were instructed to select all modes that applied. As a result, the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q10. Egress Mode from Final Destination Station | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{26}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 265 | 172 | 132 | 64 | 632 |
| Total Answering | 91,677 | 21,734 | 19,127 | 9,540 | 142,079 |
| Walk | $\begin{aligned} & 59,320 \\ & 64.70 \% \end{aligned}$ | $\begin{gathered} 11,636 \\ 53.54 \% \end{gathered}$ | $\begin{gathered} 8,602 \\ 44.97 \% \end{gathered}$ | $\begin{gathered} 4,658 \\ 48.82 \% \end{gathered}$ | $\begin{gathered} 84,215 \\ 59.27 \% \end{gathered}$ |
| Subway | $\begin{aligned} & 30,165 \\ & 32.90 \% \end{aligned}$ | $\begin{gathered} 7,991 \\ 36.77 \% \end{gathered}$ | $\begin{array}{r} 7,265 \\ 37.98 \% \end{array}$ | $\begin{gathered} 3,306 \\ 34.66 \% \end{gathered}$ | $\begin{gathered} 48,728 \\ 34.30 \% \end{gathered}$ |
| Bus | $\begin{aligned} & 2,725 \\ & 2.97 \% \end{aligned}$ | $\begin{gathered} 1,403 \\ 6.45 \% \end{gathered}$ | $\begin{gathered} 2,577 \\ 13.47 \% \end{gathered}$ | $\begin{gathered} 1,139 \\ 11.94 \% \end{gathered}$ | $\begin{array}{r} 7,844 \\ 5.52 \% \end{array}$ |
| Taxi / Car service / Uber | $\begin{gathered} 2,613 \\ 2.85 \% \end{gathered}$ | $\begin{array}{r} 1,800 \\ 8.28 \% \end{array}$ | $\begin{array}{r} 1,545 \\ 8.07 \% \end{array}$ | $\begin{gathered} 999 \\ 10.47 \% \end{gathered}$ | $\begin{array}{r} 6,956 \\ 4.90 \% \end{array}$ |
| Picked Up | $\begin{gathered} 637 \\ 0.69 \% \end{gathered}$ | $\begin{gathered} 428 \\ 1.97 \% \end{gathered}$ | $\begin{gathered} 836 \\ 4.37 \% \end{gathered}$ | $\begin{gathered} 253 \\ 2.66 \% \end{gathered}$ | $\begin{array}{r} 2,154 \\ 1.52 \% \end{array}$ |
| Drive alone | $\begin{gathered} 265 \\ 0.29 \% \end{gathered}$ | $\begin{gathered} 166 \\ 0.76 \% \end{gathered}$ | $\begin{gathered} 186 \\ 0.97 \% \end{gathered}$ | $\begin{gathered} 56 \\ 0.59 \% \end{gathered}$ | $\begin{gathered} 672 \\ 0.47 \% \end{gathered}$ |

[^15]| Q10. Egress Mode from <br> Final Destination Station | AM Peak | Midday Off <br> Peak | PM Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total $^{26}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Drive or ride with others | 196 | 122 | 149 | 30 | 497 |
|  | $0.21 \%$ | $0.56 \%$ | $0.78 \%$ | $0.32 \%$ | $0.35 \%$ |
| Other | 1,875 | 293 | 349 | 172 | 2,689 |
| Total | $2.05 \%$ | $1.35 \%$ | $1.82 \%$ | $1.81 \%$ | $1.89 \%$ |

### 5.10.2 Weekend Riders - Inbound Egress Mode to Final Destination ${ }^{27}$

Walking and subway were also the most common egress modes on weekends ( $42 \%$ and $41 \%$, respectively), though the percentage using subway was higher on weekends compared to weekdays ( $41 \%$ vs. $34 \%$ ). The Taxi/Car Service/Uber egress mode was also more prevalent on weekends compared to weekdays ( $15 \%$ vs $5 \%$ ).

Please note: respondents were instructed to select all modes that applied. As a result, the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q10. Egress Mode from <br> Final Destination Station | Saturday | Sunday | Weekend <br> Tota2 |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 345 | 314 | 659 |
| Total Answering | 64,180 | 55,943 | 120,122 |
|  | 28,783 | 21,651 | 50,434 |
| Walk | $44.85 \%$ | $38.70 \%$ | $41.99 \%$ |
| Subway | 25,036 | 24,217 | 49,253 |
| Taxi / Car service / Uber | $39.01 \%$ | $43.29 \%$ | $41.00 \%$ |
| Bus | 9,380 | 9,057 | 18,437 |
| Picked up | $14.62 \%$ | $16.19 \%$ | $15.35 \%$ |
| Drive or ride with others | 4,338 | 3,982 | 8,320 |
|  | $6.76 \%$ | $7.12 \%$ | $6.93 \%$ |
|  | 1,492 | 1,334 | 2,826 |
|  | $2.32 \%$ | $2.38 \%$ | $2.35 \%$ |
|  | 535 | 472 | 1,007 |

[^16]| Q10. Egress Mode from <br> Final Destination Station | Saturday | Sunday | Weekend <br> Total ${ }^{28}$ |
| :--- | :---: | :---: | :---: |
| Drive alone | 330 | 271 | 601 |
| Other | $0.51 \%$ | $0.48 \%$ | $0.50 \%$ |
| Total | 868 | 784 | 1,652 |

### 5.10.3 Weekday Riders - Inbound Ingress Egress Mode to Final Destination - GCT Users

For the subset of weekday riders who alighted at Grand Central Terminal (GCT), a large majority reported walking or using the subway to get to their final destination ( $61 \%$ and $39 \%$, respectively). Subway was reported more than walk by PM Reverse Peak riders (56\% vs 39\%) and Late Night Off Peak riders (48\% vs 46\%)

Please note: respondents were instructed to select all modes that applied. As a result, the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q10. Egress Mode from Final Destination Station - GCT Users | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{29}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 33,696 | 5,693 | 2,846 | 1,579 | 43,814 |
| Weighted Base | 78,169 | 15,726 | 9,519 | 5,339 | 108,753 |
| No Answer | 160 | 60 | 10 | 17 | 248 |
| Total Answering | 78,009 | 15,666 | 9,509 | 5,321 | 108,505 |
| Walk | 51,973 | 8,423 | 3,740 | 2,432 | 66,568 |
|  | 66.62\% | 53.77\% | 39.33\% | 45.71\% | 61.35\% |
| Subway | 27,545 | 6,866 | 5,368 | 2,554 | 42,334 |
|  | 35.31\% | 43.83\% | 56.46\% | 47.99\% | 39.02\% |
| Taxi / Car service / Uber | 1,498 | 1,071 | 728 | 428 | 3,725 |
|  | 1.92\% | 6.84\% | 7.65\% | 8.05\% | 3.43\% |
| Bus | 672 | 297 | 392 | 147 | 1508 |
|  | 0.86\% | 1.90\% | 4.12\% | 2.77\% | 1.39\% |
| Picked up | 125 | 91 | 92 | 28 | 336 |
|  | 0.16\% | 0.58\% | 0.97\% | 0.53\% | 0.31\% |
| Drive alone | 146 | 99 | 36 | 19 | 300 |
|  | 0.19\% | 0.63\% | 0.38\% | 0.35\% | 0.28\% |
| Drive or ride with others | 58 | 41 | 29 | - | 128 |
|  | 0.07\% | 0.26\% | 0.31\% | - | 0.12\% |

[^17]| Q10. Egress Mode from <br> Final Destination <br> Station - GCT Users | AM Peak | Midday Off <br> Peak | PM Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total29 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Other | 803 | 154 | 203 | 105 | 1265 |
| Total | $1.03 \%$ | $0.98 \%$ | $2.14 \%$ | $1.97 \%$ | $1.17 \%$ |

### 5.10.4 Weekend Riders - Inbound Egress Mode to Final Destination - GCT Users

Subway and walking were the two most commonly used egress modes for the subset of weekend riders who alighted at Grand Central Terminal ( $52 \%$ and $40 \%$, respectively), though subway use was way higher on weekends compared to weekdays ( $52 \%$ vs. $39 \%$ ).

Please note: respondents were instructed to select all modes that applied. As a result, the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q10. Egress Mode from Final Destination Station - GCT Users | Saturday | Sunday | Weekend Total ${ }^{30}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 12,737 | 10,329 | 23,066 |
| Weighted Base | 42,677 | 38,099 | 80,777 |
| No Answer | 150 | 113 | 264 |
| Total Answering | 42,527 | 37,986 | 80,513 |
| Subway | $\begin{array}{r} 21,077 \\ 49.56 \% \end{array}$ | $\begin{array}{r} 20,476 \\ 53.90 \% \end{array}$ | $\begin{gathered} 41,553 \\ 51.61 \% \end{gathered}$ |
| Walk | $\begin{gathered} 18,077 \\ 42.51 \% \end{gathered}$ | $\begin{aligned} & 13,744 \\ & 36.18 \% \end{aligned}$ | $\begin{gathered} 31,821 \\ 39.52 \% \end{gathered}$ |
| Taxi / Car service / Uber | $\begin{array}{r} 5,792 \\ 13.62 \% \end{array}$ | $\begin{gathered} 5,338 \\ 14.05 \% \end{gathered}$ | $\begin{array}{r} 11,130 \\ 13.82 \% \end{array}$ |
| Bus | $\begin{gathered} 797 \\ 1.87 \% \end{gathered}$ | $\begin{gathered} 899 \\ 2.37 \% \end{gathered}$ | $\begin{array}{r} 1,696 \\ 2.11 \% \end{array}$ |
| Picked up | $\begin{gathered} 293 \\ 0.69 \% \end{gathered}$ | $\begin{gathered} 328 \\ 0.86 \% \end{gathered}$ | $\begin{gathered} 621 \\ 0.77 \% \end{gathered}$ |
| Drive or ride with others | $\begin{gathered} 233 \\ 0.55 \% \end{gathered}$ | $\begin{gathered} 231 \\ 0.61 \% \end{gathered}$ | $\begin{gathered} 465 \\ 0.58 \% \end{gathered}$ |
| Drive alone | $\begin{gathered} 146 \\ 0.34 \% \end{gathered}$ | $\begin{gathered} 118 \\ 0.31 \% \end{gathered}$ | $\begin{gathered} 264 \\ 0.33 \% \end{gathered}$ |

[^18]| Other | 509 | 538 | 1,047 |
| :--- | :---: | :---: | :---: |
|  | $1.20 \%$ | $1.42 \%$ | $1.30 \%$ |
| Total | 46,925 | 41,672 | $\mathbf{8 8 , 5 9 7}$ |

### 5.11 Number of Transportation Modes to Final Destination

### 5.11.1 Weekday Riders - Number of Modes to Final Destination

A large majority (88\%) of inbound weekday riders either used one mode of transportation (29\%) or zero modes of transportation (59\%) after exiting their last train to reach their final destination on weekdays. (If they only walked to their final destination, then they used zero modes.)

| Q11. Number of Transportation Modes to Final Destination | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{31}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 2,279 | 1,104 | 1,070 | 363 | 4,816 |
| Total Answering | 89,663 | 20,802 | 18,189 | 9,240 | 137,895 |
| 0 | $\begin{gathered} 56,427 \\ 62.93 \% \end{gathered}$ | $\begin{array}{r} 11,076 \\ 53.24 \% \end{array}$ | $\begin{gathered} 8,568 \\ 47.11 \% \end{gathered}$ | $\begin{gathered} 4,823 \\ 52.19 \% \end{gathered}$ | $\begin{array}{r} 80,894 \\ 58.66 \% \end{array}$ |
| 1 | $\begin{array}{r} 24,302 \\ 27.10 \% \end{array}$ | $\begin{gathered} 6,878 \\ 33.07 \% \end{gathered}$ | $\begin{gathered} 6,256 \\ 34.39 \% \end{gathered}$ | $\begin{gathered} 2,887 \\ 31.24 \% \end{gathered}$ | $\begin{gathered} 40,323 \\ 29.24 \% \end{gathered}$ |
| 2 | $\begin{array}{r} 7,940 \\ 8.86 \% \end{array}$ | $\begin{gathered} 2,474 \\ 11.89 \% \end{gathered}$ | $\begin{gathered} 2,894 \\ 15.91 \% \end{gathered}$ | $\begin{gathered} 1,330 \\ 14.39 \% \end{gathered}$ | $\begin{gathered} 14,638 \\ 10.62 \% \end{gathered}$ |
| 3 | $\begin{gathered} 633 \\ 0.71 \% \end{gathered}$ | $\begin{gathered} 244 \\ 1.17 \% \end{gathered}$ | $\begin{gathered} 307 \\ 1.69 \% \end{gathered}$ | $\begin{gathered} 124 \\ 1.34 \% \end{gathered}$ | $\begin{aligned} & 1,308 \\ & 0.95 \% \end{aligned}$ |
| 4 | $\begin{gathered} 126 \\ 0.14 \% \end{gathered}$ | $\begin{gathered} 58 \\ 0.28 \% \end{gathered}$ | $\begin{gathered} 65 \\ 0.36 \% \end{gathered}$ | $\begin{gathered} 36 \\ 0.39 \% \end{gathered}$ | $\begin{gathered} 285 \\ 0.21 \% \end{gathered}$ |
| 5 or more | $\begin{gathered} 236 \\ 0.26 \% \end{gathered}$ | $\begin{gathered} 71 \\ 0.34 \% \end{gathered}$ | $\begin{gathered} 99 \\ 0.54 \% \end{gathered}$ | $\begin{gathered} 41 \\ 0.45 \% \end{gathered}$ | $\begin{gathered} 448 \\ 0.32 \% \end{gathered}$ |
| Total | 89,663 | 20,802 | 18,189 | 9,240 | 137,895 |

[^19]
### 5.11.2 Weekend Riders - Number of Modes to Final Destination

Similar to what was reported for weekday riders, most weekend riders reported using one or zero modes of transportation to reach their final destination after exiting their last train ( $81 \%$ in total; $34 \%$ for one mode and $47 \%$ for zero modes).

| Q11. Number of Modes to Final Destination | Saturday | Sunday | Weekend Total ${ }^{32}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 2,201 | 1,775 | 3,976 |
| Total Answering | 62,324 | 54,482 | 116,806 |
| 0 | $\begin{gathered} 30,747 \\ 49.33 \% \end{gathered}$ | $\begin{gathered} 24,614 \\ 45.18 \% \end{gathered}$ | 55,362 <br> 47.40\% |
| 1 | $\begin{array}{r} 20,765 \\ 33.32 \% \end{array}$ | $\begin{array}{r} 18,528 \\ 34.01 \% \end{array}$ | $\begin{array}{r} 39,293 \\ 33.64 \% \end{array}$ |
| 2 | $\begin{gathered} 9,347 \\ 15.00 \% \end{gathered}$ | $\begin{array}{r} 10,111 \\ 18.56 \% \end{array}$ | $\begin{gathered} 19,458 \\ 16.66 \% \end{gathered}$ |
| 3 | $\begin{gathered} 819 \\ 1.31 \% \end{gathered}$ | $\begin{gathered} 824 \\ 1.51 \% \end{gathered}$ | $\begin{aligned} & 1,643 \\ & 1.41 \% \end{aligned}$ |
| 4 | $\begin{gathered} 192 \\ 0.31 \% \end{gathered}$ | $\begin{gathered} 128 \\ 0.23 \% \end{gathered}$ | $\begin{gathered} 319 \\ 0.27 \% \end{gathered}$ |
| 5 or more | $\begin{gathered} 454 \\ 0.73 \% \end{gathered}$ | $\begin{gathered} 277 \\ 0.51 \% \end{gathered}$ | $\begin{gathered} 731 \\ 0.63 \% \end{gathered}$ |
| Total | 62,324 | 54,482 | 116,806 |

${ }^{32}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

### 5.12 MetroCard Use

### 5.12.1 Weekday Riders - MetroCard Use

$39 \%$ of weekday riders reported using a MetroCard on their way to their final destination, while $61 \%$ reported that they did not use a MetroCard. Of the group using MetroCard's, most of them used a Regular Pay-Per- Ride MetroCard (23\% of all weekday riders).

| Q12. MetroCard Use | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{33}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 3,013 | 1,234 | 1,073 | 495 | 5,815 |
| Total Answering | 88,929 | 20,672 | 18,187 | 9,108 | 136,896 |
| No | 57,624 | 11,797 | 9,097 | 5,120 | 83,638 |
|  | 64.80\% | 57.07\% | 50.02\% | 56.22\% | 61.10\% |
| Yes, I will use a MetroCard | 31,304 | 8,875 | 9,090 | 3,989 | 53,257 |
|  | 35.20\% | 42.93\% | 49.98\% | 43.80\% | 38.90\% |
| Regular Pay-Per- Ride | 19,546 | 5,651 | 4,736 | 1,919 | 31,853 |
| MetroCard | 21.98\% | 27.34\% | 26.04\% | 21.06\% | 23.27\% |
| Less than \$5.50 | 1,165 | 725 | 636 | 227 | 2,752 |
|  | 1.31\% | 3.51\% | 3.49\% | 2.49\% | 2.01\% |
| \$5.50 or more | 15,661 | 4,099 | 3,275 | 1,354 | 24,389 |
|  | 17.61\% | 19.83\% | 18.01\% | 14.87\% | 17.82\% |
| Did not specify | 2,721 | 828 | 826 | 338 | 4,712 |
|  | 3.06\% | 4.00\% | 4.54\% | 3.71\% | 3.44\% |
| Unlimited Ride MetroCard | 9,814 | 2,333 | 3,799 | 1,810 | 17,755 |
|  | 11.04\% | 11.29\% | 20.89\% | 19.87\% | 12.97\% |
| Other MetroCard | 1,944 | 891 | 555 | 260 | 3,649 |
|  | 2.19\% | 4.31\% | 3.05\% | 2.85\% | 2.67\% |
| Total | 88,929 | 20,672 | 18,187 | 9,108 | 136,896 |

[^20]
### 5.12.2 Weekend Riders - MetroCard Use

Slightly less than half of weekend riders (48\%) reported using a MetroCard on their way to their final destination. The MetroCard was more commonly used by weekend riders compared to weekday riders (48\% vs. 39\%, respectively).

| Q12. MetroCard Use | Saturday | Sunday | Weekend Total ${ }^{34}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 2,833 | 2,388 | 5,221 |
| Total Answering | 61,692 | 53,869 | 115,560 |
| No | 33,549 | 26,798 | 60,347 |
|  | 54.38\% | 49.75\% | 52.22\% |
| Yes, I will use a MetroCard | 28,143 | 27,071 | 55,214 |
|  | 45.62\% | 50.25\% | 47.78\% |
| Regular Pay-Per- Ride | 17,761 | 14,534 | 32,295 |
| MetroCard | 28.79\% | 26.98\% | 27.95\% |
| Less than \$5.50 | 3,270 | 2,473 | 5,743 |
|  | 5.30\% | 4.59\% | 4.97\% |
| \$5.50 or more | 11,718 | 9,776 | 21,495 |
|  | 19.00\% | 18.15\% | 18.60\% |
| Did not specify | 2,772 | 2,285 | 5,057 |
|  | 4.49\% | 4.24\% | 4.38\% |
| Unlimited Ride MetroCard | 8,812 | 10,667 | 19,479 |
|  | 14.28\% | 19.80\% | 16.86\% |
| Other MetroCard | 1,570 | 1,870 | 3,440 |
|  | 2.55\% | 3.47\% | 2.98\% |
| Total | 61,692 | 53,869 | 115,560 |

[^21] - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

### 5.13 Inbound Trip Destination Location

The following maps show trip destinations by geographic region. Each geographic boundary reflects the boundaries of zones of interest as defined by MNR. Darker colors represent higher concentrations of destination locations.

### 5.13.1 AM Peak

More than one-third of AM Peak riders (37\%) either traveled to East 42-59 St (22\%) or West 42-59 St (15\%). Downtown Manhattan was also a commonly reported destination location (15\%). A total of $76 \%$ of AM Peak riders traveled to a destination in the Manhattan CBD area (south of 60th Street).



| Q13. Destination Location | AM Peak |
| :---: | :---: |
| Unweighted Base | 38,878 |
| Weighted Base | 91,942 |
| No Answer | 5 |
| Total Answering | 91,937 |
| NYC East 42-59 St | $\begin{array}{r} 20,069 \\ 21.83 \% \end{array}$ |
| NYC West 42-59 St | $\begin{aligned} & 13,733 \\ & 14.94 \% \end{aligned}$ |
| NYC Downtown Manhattan | $\begin{array}{r} 13,412 \\ 14.59 \% \end{array}$ |
| CT Fairfield | $\begin{array}{r} 5,331 \\ 5.80 \% \end{array}$ |
| NYC West Pabt | $\begin{gathered} 4,964 \\ 5.40 \% \end{gathered}$ |
| NYC East Penn Station | $\begin{gathered} 4,844 \\ 5.27 \% \end{gathered}$ |
| NYC West Penn Station | $\begin{gathered} 4,033 \\ 4.39 \% \end{gathered}$ |
| NYC East Pabt | $\begin{gathered} 3,498 \\ 3.80 \% \end{gathered}$ |
| NYC East 59-74 St | $\begin{aligned} & 2,329 \\ & 2.53 \% \end{aligned}$ |
| NYC Bronx | $\begin{array}{r} 2,295 \\ 2.50 \% \end{array}$ |
| NY Westchester | $\begin{aligned} & 2,214 \\ & 2.41 \% \end{aligned}$ |
| NYC East Upper Valley | $\begin{array}{r} 2,162 \\ 2.35 \% \end{array}$ |


| Q13. Destination <br> Location | AM Peak |
| :--- | :---: |
| NYC West Upper Valley | 1,876 |
| NYC Upper Manhattan | $2.04 \%$ |
| Above Central Park | 1,700 |
| NYC Lower Valley | $1.85 \%$ |
| NYC Upper East | 1,575 |
| Total | $1.71 \%$ |
| NYC Queens | 1,568 |
| NYC West 59-74 St | $1.71 \%$ |
| NYC Brooklyn | 1,242 |
|  | $1.35 \%$ |

### 5.13.2 Midday Off Peak

Midday Off Peak riders reported Downtown Manhattan as their final destination location the most (15\%). NYC East 42-59 St (12\%) and NYC West 42-59 St (9\%) were the next two most mentioned destination areas. A total of $57 \%$ of Midday Off Peak riders traveled to a destination in the Manhattan CBD area (south of 60th Street).



| Q13. Destination Location | Midday <br> Off Peak |
| :---: | :---: |
| Unweighted Base | 7,075 |
| Weighted Base | 21,906 |
| No Answer | - |
| Total Answering | 21,906 |
| NYC Downtown Manhattan | $\begin{gathered} 3,191 \\ 14.57 \% \end{gathered}$ |
| NYC East 42-59 St | $\begin{array}{r} 2,585 \\ 11.80 \% \end{array}$ |
| NYC West 42-59 St | $\begin{gathered} 2,057 \\ 9.39 \% \end{gathered}$ |
| NYC Bronx | $\begin{gathered} 1,603 \\ 7.32 \% \end{gathered}$ |
| NY Westchester | $\begin{array}{r} 1,562 \\ 7.13 \% \end{array}$ |
| CT Fairfield | $\begin{aligned} & 1,302 \\ & 5.94 \% \end{aligned}$ |
| NYC East Penn Station | $\begin{gathered} 915 \\ 4.18 \% \end{gathered}$ |
| NYC West Penn Station | $\begin{gathered} 756 \\ 3.45 \% \end{gathered}$ |
| NYC East 59-74 St | $\begin{gathered} 748 \\ 3.42 \% \end{gathered}$ |
| NYC Upper Manhattan Above Central Park | $\begin{gathered} 747 \\ 3.41 \% \end{gathered}$ |
| NYC West Pabt | $\begin{gathered} 733 \\ 3.35 \% \end{gathered}$ |
| NYC East Upper Valley | $\begin{gathered} 709 \\ 3.24 \% \end{gathered}$ |


| Q13. Destination <br> Location | Midday <br> Off Peak |
| :--- | :---: |
| NYC Brooklyn | 631 |
| NYC West Upper Valley | $2.88 \%$ | | NYC Upper East |
| :--- |
| NYC East Pabt |
| Total |
| NYC Upper West |
| NYCr West 59-74 St |
| NYC Queens |
| Nower Valley |
| $2.82 \%$ |

### 5.13.3 PM Reverse Peak

Slightly under one-third of final destinations in the PM Reverse Peak were focused in either the NYC Bronx (16\%) or NY Westchester (14\%) areas. A total of 33\% of PM Reverse Peak riders traveled to a destination in the Manhattan CBD area (south of 60th Street).



| Q13. Destination Location | PM Reverse Peak |
| :---: | :---: |
| Unweighted Base | 4,732 |
| Weighted Base | 19,259 |
| No Answer | - |
| Total Answering | 19,259 |
| NYC Bronx | $\begin{array}{r} 3,062 \\ 15.90 \% \end{array}$ |
| NY Westchester | $\begin{array}{r} 2,759 \\ 14.32 \% \end{array}$ |
| NYC Downtown Manhattan | $\begin{array}{r} 1,610 \\ 8.36 \% \end{array}$ |
| NYC Upper Manhattan Above Central Park | $\begin{array}{r} 1,107 \\ 5.75 \% \end{array}$ |
| NYC Brooklyn | $\begin{gathered} 1,032 \\ 5.36 \% \end{gathered}$ |
| CT Fairfield | $\begin{array}{r} 1,020 \\ 5.29 \% \end{array}$ |
| NYC East 42-59 St | $\begin{gathered} 976 \\ 5.07 \% \end{gathered}$ |
| NYC Queens | $\begin{gathered} 964 \\ 5.00 \% \end{gathered}$ |
| NYC West 42-59 St | $\begin{gathered} 951 \\ 4.94 \% \end{gathered}$ |
| NYC Upper East | $\begin{gathered} 902 \\ 4.68 \% \end{gathered}$ |
| NYC East Penn Station | $\begin{gathered} 717 \\ 3.72 \% \end{gathered}$ |
| NYC East Upper Valley | $\begin{gathered} 556 \\ 2.89 \% \end{gathered}$ |


| Q13. Destination Location | PM Reverse Peak |
| :---: | :---: |
|  | 444 |
| NYC Upper West |  |
| NYC East 59-74 St | 392 |
|  | 2.04\% |
| NYC West Penn Station | 379 |
|  | 1.97\% |
| NYC West Upper Valley | 369 |
|  | 1.91\% |
| NYC West 59-74 St | 275 |
|  | 1.43\% |
| NYC East Pabt | 247 |
|  | 1.28\% |
| NYC West Pabt | 247 |
|  | 1.28\% |
| NYC Lower Valley | 242 |
|  | 1.26\% |
| Other | 1,008 |
|  |  |
|  | 5.23\% |
| Total | 19,259 |

### 5.13.4 Late Night Off Peak

The top three most commonly reported destination locations for Late Night Off Peak riders were NYC Bronx (15\%), NY Westchester (11\%), and NYC Downtown Manhattan (10\%). Also represented were the NYC east and west sides of 42-59 St (9\% each). A total of 41\% of Late Night Off Peak riders traveled to a destination in the Manhattan CBD area (south of 60th Street).



| Q13. Destination Location | Late Night Off Peak |
| :---: | :---: |
| Unweighted Base | 2,304 |
| Weighted Base | 9,603 |
| No Answer | - |
| Total Answering | 9,603 |
| NYC Bronx | $\begin{array}{r} 1,468 \\ 15.29 \% \end{array}$ |
| NY Westchester | $\begin{array}{r} 1,083 \\ 11.28 \% \end{array}$ |
| NYC Downtown Manhattan | $\begin{gathered} 968 \\ 10.08 \% \end{gathered}$ |
| NYC East 42-59 St | $\begin{gathered} 854 \\ 8.89 \% \end{gathered}$ |
| NYC West 42-59 St | $\begin{gathered} 839 \\ 8.74 \% \end{gathered}$ |
| CT Fairfield | $\begin{gathered} 596 \\ 6.20 \% \end{gathered}$ |
| NYC Upper Manhattan Above Central Park | $\begin{gathered} 502 \\ 5.23 \% \end{gathered}$ |
| NYC Brooklyn | $\begin{gathered} 438 \\ 4.56 \% \end{gathered}$ |
| NYC Queens | $\begin{gathered} 395 \\ 4.11 \% \end{gathered}$ |
| NYC East Upper Valley | $\begin{gathered} 256 \\ 2.67 \% \end{gathered}$ |
| NYC West Pabt | $\begin{gathered} 233 \\ 2.43 \% \end{gathered}$ |
| NYC East Penn Station | $\begin{gathered} 221 \\ 2.30 \% \end{gathered}$ |


| Q13. Destination Location | Late Night Off Peak |
| :---: | :---: |
| NYC Upper East | 213 |
|  | 2.22\% |
| NYC West Penn Station | 209 |
|  | 2.17\% |
| NYC East 59-74 St | 192 |
|  | 2.00\% |
| NYC East Pabt | 144 |
|  | 1.50\% |
| NYC Upper West | 137 |
|  | 1.42\% |
| NYC West Upper Valley | 114 |
|  | 1.19\% |
| NYC West 59-74 St | 110 |
|  | 1.15\% |
| NJ Hudson County | 97 |
|  | 1.01\% |
| Other | 535 |
|  | 5.57\% |
| Total | 9,603 |

### 5.13.5 Weekday Total

Overall, NYC East 42-59 St was the most commonly reported destination location among weekday riders (17\%), followed by NYC Downtown Manhattan (13\%), and NYC West 42-59 St (12\%). A total of $65 \%$ of weekday riders traveled to a destination in the Manhattan CBD area (south of 60th Street).



| Q13. Destination Location | Weekday Total |
| :---: | :---: |
| Unweighted Base | 52,989 |
| Weighted Base | 142,711 |
| No Answer | 5 |
| Total Answering | 142,706 |
| NYC East 42-59 St | $\begin{aligned} & 24,484 \\ & 17.16 \% \end{aligned}$ |
| NYC Downtown Manhattan | $\begin{aligned} & 19,182 \\ & 13.44 \% \end{aligned}$ |
| NYC West 42-59 St | $\begin{array}{r} 17,580 \\ 12.32 \% \end{array}$ |
| NYC Bronx | $\begin{gathered} 8,428 \\ 5.91 \% \end{gathered}$ |
| CT Fairfield | $\begin{gathered} 8,248 \\ 5.78 \% \end{gathered}$ |
| NY Westchester | $\begin{gathered} 7,618 \\ 5.34 \% \end{gathered}$ |
| NYC East Penn Station | $\begin{gathered} 6,696 \\ 4.69 \% \end{gathered}$ |
| NYC West Pabt | $\begin{aligned} & 6,177 \\ & 4.33 \% \end{aligned}$ |
| NYC West Penn Station | $\begin{array}{r} 5,377 \\ 3.77 \% \end{array}$ |
| NYC East Pabt | $\begin{aligned} & 4,419 \\ & 3.10 \% \end{aligned}$ |
| NYC Upper Manhattan Above Central Park | $\begin{aligned} & 4,055 \\ & 2.84 \% \end{aligned}$ |
| NYC East Upper Valley | $\begin{gathered} 3,684 \\ 2.58 \% \end{gathered}$ |


| Q13. Destination Location | Weekday Total |
| :---: | :---: |
| NYC East 59-74 St | 3,662 |
|  | 2.57\% |
| NYC Upper East | 3,297 |
|  | 2.31\% |
| NYC Queens | 3,071 |
|  | 2.15\% |
| NYC Brooklyn | 3,016 |
|  | 2.11\% |
| NYC West Upper Valley | 2,977 |
|  | 2.09\% |
| NYC Lower Valley | 2,337 |
|  | 1.64\% |
| NYC Upper West | 1,977 |
|  | 1.39\% |
| NYC West 59-74 St | 1,652 |
|  | 1.16\% |
| Other | 4,770 |
|  | 3.34\% |
| Total | 142,706 |

### 5.13.6 Saturday

Saturday riders traveled to NYC Downtown Manhattan the most (19\%) followed by NYC Bronx and NY Westchester ( $9 \%$ each). A total of $48 \%$ of Saturday riders traveled to a destination in the Manhattan CBD area (south of 60th Street).



| Q13. Destination Location | Saturday |
| :---: | :---: |
| Unweighted Base | 16,574 |
| Weighted Base | 64,525 |
| No Answer | - |
| Total Answering | 64,525 |
| NYC Downtown Manhattan | $\begin{aligned} & 12,031 \\ & 18.65 \% \end{aligned}$ |
| NYC Bronx | $\begin{array}{r} 5,952 \\ 9.22 \% \end{array}$ |
| NY Westchester | $\begin{array}{r} 5,873 \\ 9.10 \% \end{array}$ |
| NYC West 42-59 St | $\begin{array}{r} 4,465 \\ 6.92 \% \end{array}$ |
| NYC East 42-59 St | $\begin{array}{r} 3,708 \\ 5.75 \% \end{array}$ |
| NYC Brooklyn | $\begin{gathered} 3,486 \\ 5.40 \% \end{gathered}$ |
| CT Fairfield | $\begin{array}{r} 3,395 \\ 5.26 \% \end{array}$ |
| NYC Upper Manhattan Above Central Park | $\begin{gathered} 2,593 \\ 4.02 \% \end{gathered}$ |
| NYC Queens | $\begin{array}{r} 2,398 \\ 3.72 \% \end{array}$ |
| NYC Upper East | $\begin{array}{r} 2,367 \\ 3.67 \% \end{array}$ |
| NYC East Upper Valley | $\begin{array}{r} 2,143 \\ 3.32 \% \end{array}$ |
| NYC Upper West | $\begin{array}{r} 2,098 \\ 3.25 \% \end{array}$ |


| Q13. Destination <br> Location | Saturday |
| :---: | :---: |
| NYC West Penn Station | 2,007 |
| NYC West Upper Valley | $3.11 \%$ |
| NYC Lower Valley | 1,805 |
| NYC East Penn Station | $2.80 \%$ |
| Total | 1,393 |
| NYC West Pabt | $2.16 \%$ |
| NYCer West 59-74 St | 1,383 |
| NYC East 59-74 St | $2.14 \%$ |

### 5.13.7 Sunday

Similar to Saturday riders, Sunday riders also indicated NYC Downtown Manhattan as their destination location the most (14\%). NY Westchester was the next most common destination (9\%). A total of $44 \%$ of Sunday riders traveled to a destination in the Manhattan CBD area (south of 60th Street).



| Q13. Destination Location | Sunday |
| :---: | :---: |
| Unweighted Base | 13,748 |
| Weighted Base | 56,256 |
| No Answer | - |
| Total Answering | 56,256 |
| NYC Downtown Manhattan | $\begin{gathered} 8,053 \\ 14.32 \% \end{gathered}$ |
| NY Westchester | $\begin{array}{r} 4,964 \\ 8.82 \% \end{array}$ |
| NYC Brooklyn | $\begin{gathered} 4,267 \\ 7.58 \% \end{gathered}$ |
| NYC Bronx | $\begin{gathered} 4,218 \\ 7.50 \% \end{gathered}$ |
| NYC West 42-59 St | $\begin{array}{r} 3,549 \\ 6.31 \% \end{array}$ |
| NYC East 42-59 St | $\begin{array}{r} 3,199 \\ 5.69 \% \end{array}$ |
| NYC Queens | $\begin{array}{r} 2,893 \\ 5.14 \% \end{array}$ |
| NYC Upper East | $\begin{array}{r} 2,828 \\ 5.03 \% \end{array}$ |
| NYC Upper Manhattan Above Central Park | $\begin{array}{r} 2,479 \\ 4.41 \% \end{array}$ |
| CT Fairfield | $\begin{array}{r} 2,361 \\ 4.20 \% \end{array}$ |
| NYC Upper West | $\begin{array}{r} 2,008 \\ 3.57 \% \end{array}$ |
| NYC East Upper Valley | $\begin{array}{r} 2,003 \\ 3.56 \% \end{array}$ |


| Q13. Destination <br> Location | Sunday |
| :---: | :---: |
| NYC West Penn Station | 1,783 |
| NYC East Penn Station | $3.17 \%$ |
| NYC West Upper Valley | 1,773 |
| NYC East 59-74 St | $3.15 \%$ |
| Total | 1,563 |
| NYC West Pabt | $2.78 \%$ |
| NYC West 59-74 St | 1,460 |
| NYC East Pabt | $2.59 \%$ |
|  | 1,125 |
|  | $2.00 \%$ |

### 5.13.8 Weekend Total

Overall, the top three most frequently reported weekend destination locations were NYC Downtown Manhattan (17\%), NY Westchester (9\%), and NYC Bronx (8\%). A total of $46 \%$ of weekend riders traveled to a destination in the Manhattan CBD area (south of 60th Street).



| Q13. Destination Location | Weekend Total |
| :---: | :---: |
| Unweighted Base | 30,322 |
| Weighted Base | 120,781 |
| No Answer | - |
| Total Answering | 120,781 |
| NYC Downtown Manhattan | $\begin{aligned} & 20,085 \\ & 16.63 \% \end{aligned}$ |
| NY Westchester | $\begin{aligned} & 10,837 \\ & 8.97 \% \end{aligned}$ |
| NYC Bronx | $\begin{aligned} & 10,170 \\ & 8.42 \% \end{aligned}$ |
| NYC West 42-59 St | $\begin{array}{r} 8,013 \\ 6.63 \% \end{array}$ |
| NYC Brooklyn | $\begin{gathered} 7,753 \\ 6.42 \% \end{gathered}$ |
| NYC East 42-59 St | $\begin{array}{r} 6,907 \\ 5.72 \% \end{array}$ |
| CT Fairfield | $\begin{gathered} 5,755 \\ 4.77 \% \end{gathered}$ |
| NYC Queens | $\begin{gathered} 5,291 \\ 4.38 \% \end{gathered}$ |
| NYC Upper East | $\begin{aligned} & 5,196 \\ & 4.30 \% \end{aligned}$ |
| NYC Upper Manhattan Above Central Park | $\begin{gathered} 5,072 \\ 4.20 \% \end{gathered}$ |
| NYC East Upper Valley | $\begin{array}{r} 4,146 \\ 3.43 \% \end{array}$ |
| NYC Upper West | $\begin{array}{r} 4,106 \\ 3.40 \% \end{array}$ |


| Q13. Destination Location | Weekend Total |
| :---: | :---: |
| NYC West Penn Station | 3,790 |
|  | 3.14\% |
| NYC West Upper Valley | 3,369 |
|  | 2.79\% |
| NYC East Penn Station | 3,156 |
|  | 2.61\% |
| NYC East 59-74 St | 2,720 |
|  | 2.25\% |
| NYC Lower Valley | 2,504 |
|  | 2.07\% |
| NYC West Pabt | 2,480 |
|  | 2.05\% |
| NYC West 59-74 St | 2,158 |
|  | 1.79\% |
| NYC East Pabt | 1,206 |
|  | 1.00\% |
| Other | 6,067 |
|  | 5.02\% |
| Total | 120,781 |

### 5.14 Trip Destination Type

### 5.14.1 Weekday Riders - Inbound Trip Destination Type

A vast majority of AM Peak riders (91\%) reported traveling to their workplace. More PM Reverse Peak riders reported traveling to their home than their workplace ( $56 \%$ vs $15 \%$ ).

| Q14. Destination Type | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{35}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | - | - | - | - | - |
| Total Answering | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| My Work | 83,569 | 9,428 | 2,941 | 4,904 | 100,841 |
|  | 90.89\% | 43.04\% | 15.27\% | 51.06\% | 70.66\% |
| My Home | 2,179 | 3,376 | 10,696 | 3,498 | 19,749 |
|  | 2.37\% | 15.41\% | 55.53\% | 36.42\% | 13.84\% |
| Recreation / | 938 | 2,944 | 2,766 | 290 | 6,938 |
| Tourism / Hotel | 1.02\% | 13.44\% | 14.36\% | 3.02\% | 4.86\% |
| My school | 2,545 | 1,705 | 768 | 145 | 5,163 |
|  | 2.77\% | 7.79\% | 3.99\% | 1.51\% | 3.62\% |
| Friend / Family home | 457 | 1,373 | 1,066 | 604 | 3,499 |
|  | 0.50\% | 6.27\% | 5.54\% | 6.28\% | 2.45\% |
| Other | 2,254 | 3,080 | 1,023 | 164 | 6,520 |
|  | 2.45\% | 14.06\% | 5.31\% | 1.70\% | 4.57\% |
| Total | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |

[^22]
### 5.14.2 Weekend Riders - Inbound Trip Destination Type

Recreational destination locations were more common for Saturday riders when compared to Sunday riders (34\% vs $25 \%$ ). Sunday riders reported their home as the destination location more frequently than Saturday riders ( $40 \%$ vs $22 \%$ ); these were likely to be weekend travelers returning home.

| Q14. Destination <br> Type | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | - | - | - |
| Total Answering | 64,525 | 56,256 | 120,781 |
| My Home | 14,420 | 22,269 | 36,688 |
| Recreation / Tourism / | $22.35 \%$ | $39.58 \%$ | $30.38 \%$ |
| Hotel | $34.20 \%$ | 13,820 | 35,886 |
| My Work | 11,601 | $24.57 \%$ | $29.71 \%$ |
| Total | $17.98 \%$ | 8,834 | 20,435 |
| Friend / Family home | 9,778 | $15.70 \%$ | $16.92 \%$ |
| My school | $15.15 \%$ | 6,063 | 15,841 |
|  | 2,047 | $10.78 \%$ | $13.12 \%$ |
|  | $3,17 \%$ | 1,608 | 3,655 |
|  | $2,86 \%$ | $3,03 \%$ |  |

[^23]
### 5.15 Number of Minutes to Final Destination

### 5.15.1 Weekday Riders - Travel Time to Final Destination for Inbound Trips

Over half of all weekday riders (58\%) indicated a travel time of 15 min or less to get from their last Metro-North station to their final destination. Among all weekday riders, the average travel time was 21 minutes.

| Q15. Number of Minutes to Final Destination | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{37}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 2,800 | 1,493 | 1,225 | 374 | 5,892 |
| Total Answering | 89,142 | 20,413 | 18,035 | 9,230 | 136,819 |
| 1-5 minutes | 14,617 | 2,477 | 1,737 | 1,000 | 19,831 |
|  | 16.40\% | 12.13\% | 9.63\% | 10.84\% | 14.49\% |
| 6-10 minutes | 23,450 | 4,175 | 3,310 | 1,843 | 32,778 |
|  | 26.31\% | 20.45\% | 18.35\% | 19.96\% | 23.96\% |
| 11-15 minutes | 18,446 | 3,862 | 3,349 | 1,679 | 27,336 |
|  | 20.69\% | 18.92\% | 18.57\% | 18.19\% | 19.98\% |
| 16-30 minutes | 23,538 | 6,635 | 6,038 | 3,001 | 39,212 |
|  | 26.40\% | 32.50\% | 33.48\% | 32.52\% | 28.66\% |
| 31 minutes or above | 9,090 | 3,265 | 3,600 | 1,707 | 17,662 |
|  | 10.20\% | 16.00\% | 19.96\% | 18.49\% | 12.91\% |
| Mean | 18.69 | 23.6 | 25.06 | 24.87 | 20.68 |
| Median | 14.23 | 14.91 | 19.16 | 17.92 | 14.5 |
| Total | 89,142 | 20,413 | 18,035 | 9,230 | 136,819 |

[^24]
### 5.15.2 Weekend Riders - Travel Time to Final Destination for Inbound Trips

Compared to weekday riders, weekend riders had longer travel times to their final destinations (only $43 \%$ were 15 minutes or less compared to $58 \%$ for weekday riders; average of 27 minutes vs. 21 for weekday riders).

| Q15. Number of Minutes to Final Destination | Saturday | Sunday | Weekend Total ${ }^{38}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 4,295 | 3,157 | 7,451 |
| Total Answering | 60,230 | 53,100 | 113,330 |
| 1-5 minutes | 5,031 | 3,740 | 8,771 |
|  | 8.35\% | 7.04\% | 7.74\% |
| 6-10 minutes | 10,890 | 8,974 | 19,864 |
|  | 18.08\% | 16.90\% | 17.53\% |
| 11-15 minutes | 11,095 | 9,432 | 20,527 |
|  | 18.42\% | 17.76\% | 18.11\% |
| 16-30 minutes | 21,255 | 18,810 | 40,065 |
|  | 35.29\% | 35.42\% | 35.35\% |
| 31 minutes or above | 11,960 | 12,143 | 24,103 |
|  | 19.86\% | 22.87\% | 21.27\% |
| Mean | 25.88 | 28.24 | 26.99 |
| Median | 19.24 | 19.44 | 19.33 |
| Total | 60,230 | 53,100 | 113,330 |

[^25] - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

### 5.16 Ticket Type Used

### 5.16.1 Weekday Riders - Ticket Type Used for Inbound Trips

Across all dayparts, weekday riders most frequently reported using Monthly tickets (64\% among all weekday riders; range of $29 \%$ for Midday Off Peak riders to $80 \%$ for AM Peak riders). The second most commonly reported ticket type used was the Ten Trip ticket for AM Peak riders (8\%), the Round Trip ticket for Midday Off Peak and PM Reverse Peak riders (27\% and 20\%, respectively), and the One Way ticket for Late Night Off Peak riders (18\%).

| Q16. Ticket Type Used | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total ${ }^{39}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 898 | 643 | 541 | 256 | 2,338 |
| Total Answering | 91,044 | 21,263 | 18,718 | 9,347 | 140,373 |
| Monthly | 72,615 | 6,071 | 7,020 | 4,476 | 90,183 |
|  | 79.76\% | 28.55\% | 37.51\% | 47.89\% | 64.25\% |
| With Uniticket | 9,353 | 878 | 1,437 | 732 | 12,399 |
|  | 10.27\% | 4.13\% | 7.67\% | 7.83\% | 8.83\% |
| Without Uniticket | 52,472 | 4,015 | 4,196 | 2,907 | 63,589 |
|  | 57.63\% | 18.88\% | 22.42\% | 31.10\% | 45.30\% |
| Round Trip | 4,989 | 5,734 | 3,762 | 1,439 | 15,923 |
|  | 5.48\% | 26.97\% | 20.10\% | 15.39\% | 11.34\% |
| Peak/Intermediate | 3,678 | 1,252 | 942 | 452 | 6,324 |
|  | 4.04\% | 5.89\% | 5.03\% | 4.84\% | 4.51\% |
| Off-Peak | 812 | 3,454 | 2,420 | 849 | 7,535 |
|  | 0.89\% | 16.25\% | 12.93\% | 9.08\% | 5.37\% |
| Senior/Disabled | 308 | 829 | 271 | 41 | 1,450 |
|  | 0.34\% | 3.90\% | 1.45\% | 0.44\% | 1.03\% |
| Ten Trip | 7,094 | 3,973 | 2,957 | 959 | 14,982 |
|  | 7.79\% | 18.68\% | 15.80\% | 10.26\% | 10.67\% |
| Peak/Intermediate | 5,777 | 592 | 574 | 321 | 7,264 |
|  | 6.35\% | 2.78\% | 3.07\% | 3.43\% | 5.17\% |

[^26]| Q16. Ticket Type Used | AM Peak | Midday Off Peak |  | Late Night Off Peak | Weekday Total ${ }^{39}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Off-Peak | 747 | 2,536 | 1,959 | 580 | 5,821 |
|  | 0.82\% | 11.92\% | 10.46\% | 6.21\% | 4.15\% |
| Senior/Disabled | 332 | 704 | 330 | 25 | 1,392 |
|  | 0.36\% | 3.31\% | 1.76\% | 0.27\% | 0.99\% |
| One Way | 3,835 | 4,760 | 3,639 | 1,660 | 13,894 |
|  | 4.21\% | 22.38\% | 19.44\% | 17.76\% | 9.90\% |
| Peak/Intermediate | 2,833 | 695 | 820 | 429 | 4,776 |
|  | 3.11\% | 3.27\% | 4.38\% | 4.59\% | 3.40\% |
| Off-Peak | 683 | 3,379 | 2,351 | 1,063 | 7,477 |
|  | 0.75\% | 15.89\% | 12.56\% | 11.37\% | 5.33\% |
| Senior/Disabled | 167 | 463 | 278 | 57 | 965 |
|  | 0.18\% | 2.18\% | 1.48\% | 0.61\% | 0.69\% |
| Weekly | 1,832 | 458 | 1,124 | 597 | 4,011 |
|  | 2.01\% | 2.16\% | 6.01\% | 6.38\% | 2.86\% |
| With Uniticket | 250 | 123 | 177 | 152 | 703 |
|  | 0.28\% | 0.58\% | 0.95\% | 1.63\% | 0.50\% |
| Without Uniticket | 1,200 | 223 | 628 | 273 | 2,324 |
|  | 1.32\% | 1.05\% | 3.35\% | 2.92\% | 1.66\% |
| Other | 680 | 267 | 217 | 216 | 1,381 |
|  | 0.75\% | 1.26\% | 1.16\% | 2.32\% | 0.98\% |
| Total | 169,656 | 40,406 | 35,100 | 17,229 | 262,391 |

### 5.16.2 Weekend Riders - Ticket Type Used for Inbound Trips

Saturday and Sunday riders most frequently reported using Round Trip tickets (39\% and 36\%, respectively), with many riders also reporting use of One Way tickets ( $27 \%$ and $34 \%$, respectively) and Monthly tickets ( $19 \%$ and $14 \%$, respectively).

| Q16. Ticket Type Used | Saturday | Sunday | Weekend Total ${ }^{40}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 875 | 774 | 1,650 |
| Total Answering | 63,650 | 55,482 | 119,132 |
| Round Trip | 24,920 | 20,039 | 44,959 |
|  | 39.15\% | 36.12\% | 37.74\% |
| Peak/Intermediate | 2,005 | 1,844 | 3,849 |
|  | 3.15\% | 3.32\% | 3.23\% |
| Off-Peak | 19,989 | 15,505 | 35,493 |
|  | 31.40\% | 27.95\% | 29.79\% |
| Senior/Disabled | 1,860 | 1,880 | 3,740 |
|  | 2.92\% | 3.39\% | 3.14\% |
| One Way | 17,077 | 18,863 | 35,940 |
|  | 26.83\% | 34.00\% | 30.17\% |
| Peak/Intermediate | 2,006 | 1,736 | 3,742 |
|  | 3.15\% | 3.13\% | 3.14\% |
| Off-Peak | 13,087 | 15,190 | 28,278 |
|  | 20.56\% | 27.38\% | 23.74\% |
| Senior/Disabled | 986 | 1,098 | 2,084 |
|  | 1.55\% | 1.98\% | 1.75\% |
| Monthly | 12,053 | 7,925 | 19,978 |
|  | 18.94\% | 14.28\% | 16.77\% |
| With Uniticket | 2,361 | 1,697 | 4,058 |
|  | 3.71\% | 3.06\% | 3.41\% |
| Without Uniticket | 7,142 | 4,684 | 11,826 |
|  | 11.22\% | 8.44\% | 9.93\% |

${ }^{40}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

| Q16. Ticket Type Used | Saturday | Sunday | Weekend Total ${ }^{40}$ |
| :---: | :---: | :---: | :---: |
| Ten Trip | 6,699 | 6,462 | 13,161 |
|  | 10.52\% | 11.65\% | 11.05\% |
| Peak/Intermediate | 896 | 772 | 1,668 |
|  | 1.41\% | 1.39\% | 1.40\% |
| Off-Peak | 4,788 | 4,641 | 9,429 |
|  | 7.52\% | 8.36\% | 7.92\% |
| Senior/Disabled | 792 | 824 | 1,616 |
|  | 1.25\% | 1.48\% | 1.36\% |
| Weekly | 1,647 | 1,091 | 2,738 |
|  | 2.59\% | 1.97\% | 2.30\% |
| With Uniticket | 432 | 292 | 723 |
|  | 0.68\% | 0.53\% | 0.61\% |
| Without Uniticket | 755 | 484 | 1,240 |
|  | 1.19\% | 0.87\% | 1.04\% |
| Other | 1,254 | 1,102 | 2,355 |
|  | 1.97\% | 1.99\% | 1.98\% |
| Total | 120,749 | 106,129 | 226,878 |

### 5.17 Ticket Purchase Location

### 5.17.1 Weekday Riders - Ticket Purchase Location

Ticket vending machines were by far the most frequently reported ticket purchase location among weekday riders across all dayparts ( $63 \%$ overall; between $58 \%$ and $73 \%$, depending on daypart). Mail\&Ride purchases were the next most common for AM Peak and Late Night Off Peak riders (24\% and $13 \%$, respectively) while the ticket window was the second most frequently reported location for Midday Off Peak and PM Reverse Peak riders ( $15 \%$ and $16 \%$, respectively).

| Q17. Ticket Purchase Location | AM Peak | Midday Off Peak |  | Late Night Off Peak | Weekday Total ${ }^{41}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 1,213 | 767 | 552 | 289 | 2,820 |
| Total Answering | 90,729 | 21,139 | 18,708 | 9,315 | 139,890 |
| Ticket Vending Machine | 52,319 | 15,500 | 13,733 | 6,466 | 88,018 |
|  | 57.67\% | 73.33\% | 73.41\% | 69.42\% | 62.92\% |
| Mail\&Ride | 21,901 | 1,103 | 806 | 1,214 | 25,023 |
|  | 24.14\% | 5.22\% | 4.31\% | 13.03\% | 17.89\% |
| Ticket Window | 9,514 | 3,273 | 3,076 | 1,055 | 16,918 |
|  | 10.49\% | 15.48\% | 16.44\% | 11.32\% | 12.09\% |
| Webticket (via Internet) | 3,599 | 534 | 593 | 290 | 5,015 |
|  | 3.97\% | 2.52\% | 3.17\% | 3.11\% | 3.59\% |
| Mobile Device | 2,280 | 107 | 90 | 33 | 2,510 |
|  | 2.51\% | 0.51\% | 0.48\% | 0.35\% | 1.79\% |
| On-board Train | 390 | 400 | 222 | 76 | 1,089 |
|  | 0.43\% | 1.89\% | 1.19\% | 0.81\% | 0.78\% |
| Other | 725 | 221 | 189 | 182 | 1,317 |
|  | 0.80\% | 1.05\% | 1.01\% | 1.95\% | 0.94\% |
| Total | 90,729 | 21,139 | 18,708 | 9,315 | 139,890 |

[^27]
### 5.17.2 Weekend Riders - Ticket Purchase Location

Ticket vending machines were even more commonly reported purchase locations for weekend riders compared to weekday riders ( $77 \%$ vs. $63 \%$ ). Ticket windows were the next most frequently represented purchase locations for weekend riders (12\%).

| Q17. Ticket Purchase Location | Saturday | Sunday | Weekend Total ${ }^{42}$ |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 899 | 798 | 1,697 |
| Total Answering | 63,626 | 55,458 | 119,084 |
| Ticket Vending Machine | 48,673 | 42,667 | 91,340 |
|  | 76.50\% | 76.94\% | 76.70\% |
| Ticket Window | 8,010 | 6,708 | 14,718 |
|  | 12.59\% | 12.10\% | 12.36\% |
| Mail\&Ride | 1,902 | 1,250 | 3,152 |
|  | 2.99\% | 2.25\% | 2.65\% |
| Mobile Device | 1,216 | 1,739 | 2,956 |
|  | 1.91\% | 3.14\% | 2.48\% |
| Webticket (via Internet) | 1,606 | 1,261 | 2,867 |
|  | 2.52\% | 2.27\% | 2.41\% |
| On-board Train | 1,559 | 1,302 | 2,861 |
|  | 2.45\% | 2.35\% | 2.40\% |
| Other | 660 | 530 | 1,190 |
|  | 1.04\% | 0.96\% | 1.00\% |
| Total | 63,626 | 55,458 | 119,084 |

[^28]
## 6. Results - Outbound 4344

### 6.1 Outbound Trip Date

### 6.1.1 Weekday Riders - Outbound Trip Date

Almost all AM Peak riders (97\%) reported that they have (or will have) completed the other half of their trip on the same day as their inbound trip. Same day outbound travel was also a widespread response among riders from the other weekday dayparts (80\%-85\%, depending on daypart).

| Q18. Outbound Trip <br> Date | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 4,040 | 2,607 | 2,660 | 1,215 | 10,522 |
| Total Answering | 87,902 | 19,299 | 16,599 | 8,389 | 132,189 |
|  | 85,388 | 16,387 | 13,314 | 6,875 | 121,963 |
| Same Day | $97.14 \%$ | $84.91 \%$ | $80.21 \%$ | $81.96 \%$ | $92.26 \%$ |
| Different Day | 1,119 | 1,711 | 1,973 | 1,084 | 5,888 |
| I Will (Did) Not Make an | $1.27 \%$ | $8.87 \%$ | $11,89 \%$ | $12.92 \%$ | $4.45 \%$ |
| Outbound Trip | 1,396 | 1,201 | 1,312 | 430 | 4,338 |
| Total | $1.59 \%$ | $6.22 \%$ | $7.90 \%$ | $5.12 \%$ | $3.28 \%$ |

[^29]
### 6.1.2 Weekend Riders - Outbound Trip Date

Outbound trip days for Saturday riders differed slightly from those of Sunday riders. A little over three-quarters (76\%) of Saturday riders reported taking their outbound trip on the same day as their inbound trip, compared to $63 \%$ of Sunday riders. Conversely, different day outbound travel was reported by a larger share of Sunday riders compared to Saturday riders ( $27 \%$ vs. $17 \%$, respectively).

| Q18. Outbound Trip <br> Date | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 9,083 | 8,121 | 17,204 |
| Total Answering | 55,442 | 48,136 | 103,577 |
|  | 41,991 | 30,466 | 72,456 |
| Same Day | $75.74 \%$ | $63.29 \%$ | $69.95 \%$ |
| Different Day | 9,409 | 12,960 | 22,370 |
| I Will (Did) Not Make an | $16.97 \%$ | $26.92 \%$ | $21.60 \%$ |
| Outbound Trip | 4,042 | 4,710 | 8,751 |
| Total | $7.29 \%$ | $9.78 \%$ | $8.45 \%$ |

### 6.2 Use of Metro-North for Outbound Trip ${ }^{45}$

### 6.2.1 Weekday Riders - Use of Metro-North for Outbound Trip

Nearly all weekday riders (97\%) reported using Metro-North for their outbound trip. AM Peak riders had the highest share of riders who reported using Metro-North for their outbound trip ( $98 \%$ vs. 94$95 \%$ for riders from other weekday dayparts).

| Q19. Used Metro-North <br> for Outbound Trip | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 36,731 | 5,985 | 3,850 | 1,972 | 48,538 |
| Weighted Base | 86,507 | 18,098 | 15,287 | 7,959 | 127,851 |
| No Answer | 2,078 | 861 | 765 | 290 | 3,994 |
| Total Answering | 84,429 | 17,237 | 14,522 | 7,669 | 123,857 |
|  | 83,102 | 16,335 | 13,769 | 7,240 | 120,446 |
|  | $98.43 \%$ | $94.77 \%$ | $94.82 \%$ | $94.41 \%$ | $97.25 \%$ |
|  | 1,327 | 902 | 753 | 428 | 3,410 |
| Total | $1.57 \%$ | $5.23 \%$ | $5.18 \%$ | $5.59 \%$ | $2.75 \%$ |

[^30]
### 6.2.2 Weekend Riders - Use of Metro-North for Outbound Trip

Although the percentage was higher for weekday riders, most weekend riders also reported using Metro-North for their outbound trip ( $92 \%$ vs. $97 \%$ for weekday riders). Saturday and Sunday riders reported identical percentages for Metro-North outbound usage (both 92\%).

| Q19. Used Metro-North <br> for Outbound Trip | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 13,595 | 10,905 | 24,500 |
| Weighted Base | 51,400 | 43,426 | 94,826 |
| No Answer | 3,408 | 2,634 | 6,043 |
| Total Answering | 47,992 | 40,792 | 88,783 |
|  | 44,349 | 37,649 | 81,998 |
| Yes | $92.41 \%$ | $92.30 \%$ | $92.36 \%$ |
| No | 3,643 | 3,142 | 6,785 |
| Total | $7.59 \%$ | $7.70 \%$ | $7.64 \%$ |

### 6.3 Outbound Trip Departure Time ${ }^{46}$

### 6.3.1 Weekday Riders - Outbound Trip Departure Time on MNR

Consistent with typical workday hours, a majority (69\%) of AM Peak riders reported making their corresponding outbound MNR trip between 5 PM and 7 PM. A notable portion of Midday Off Peak and Late Night Off Peak riders ( $26 \%$ and $36 \%$, respectively) also reported outbound MNR travel within that same period. A little half of PM Reverse Peak riders (55\%) reported the departure time for their outbound MNR trip occurring between 6 AM and 10 AM, with the 7 AM hour block having the highest percentage (25\%).

| Q19. Outbound Trip Departure Time | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 35,326 | 5,455 | 3,454 | 1,822 | 46,057 |
| Weighted Base | 83,102 | 16,335 | 13,769 | 7,240 | 120,446 |
| No Answer | 16,070 | 5,548 | 3,479 | 1,725 | 26,822 |
| Total Answering | 67,032 | 10,787 | 10,290 | 5,515 | 93,624 |
| 12:00 AM - 4:59 AM | 137 | 316 | 210 | 136 | 799 |
|  | 0.20\% | 2.93\% | 2.04\% | 2.47\% | 0.85\% |
| 5:00 AM - 5:59 AM | 166 | 97 | 166 | 65 | 494 |
|  | 0.25\% | 0.90\% | 1.62\% | 1.18\% | 0.53\% |
| 6:00 AM - 6:59 AM | 327 | 290 | 909 | 138 | 1,664 |
|  | 0.49\% | 2.69\% | 8.83\% | 2.49\% | 1.78\% |
| 7:00 AM - 7:59 AM | 417 | 306 | 2,601 | 339 | 3,664 |
|  | 0.62\% | 2.84\% | 25.28\% | 6.15\% | 3.91\% |
| 8:00 AM - 8:59 AM | 193 | 308 | 1,686 | 359 | 2,545 |
|  | 0.29\% | 2.85\% | 16.38\% | 6.50\% | 2.72\% |
| 9:00 AM - 9:59 AM | 84 | 258 | 513 | 128 | 983 |
|  | 0.13\% | 2.39\% | 4.98\% | 2.32\% | 1.05\% |
| 10:00 AM - 10:59 AM | 74 | 208 | 201 | 127 | 610 |
|  | 0.11\% | 1.93\% | 1.96\% | 2.30\% | 0.65\% |

[^31]| Q19. Outbound Trip Departure Time | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 11:00 AM - 11:59 AM | 129 | 171 | 154 | 156 | 610 |
|  | 0.19\% | 1.58\% | 1.50\% | 2.83\% | 0.65\% |
| 12:00 PM - 12:59 PM | 181 | 208 | 124 | 91 | 603 |
|  | 0.27\% | 1.93\% | 1.21\% | 1.65\% | 0.64\% |
| 1:00 PM - 1:59 PM | 378 | 318 | 124 | 183 | 1,004 |
|  | 0.56\% | 2.95\% | 1.21\% | 3.32\% | 1.07\% |
| 2:00 PM - 2:59 PM | 861 | 384 | 148 | 272 | 1,665 |
|  | 1.28\% | 3.56\% | 1.43\% | 4.93\% | 1.78\% |
| 3:00 PM - 3:59 PM | 2,015 | 584 | 147 | 436 | 3,182 |
|  | 3.01\% | 5.41\% | 1.43\% | 7.91\% | 3.40\% |
| 4:00 PM - 4:59 PM | 6,036 | 698 | 307 | 477 | 7,517 |
|  | 9.00\% | 6.47\% | 2.98\% | 8.64\% | 8.03\% |
| 5:00 PM - 5:59 PM | 25,148 | 1,274 | 581 | 1,308 | 28,311 |
|  | 37.52\% | 11.81\% | 5.65\% | 23.71\% | 30.24\% |
| 6:00 PM - 6:59 PM | 21,426 | 1,601 | 407 | 680 | 24,114 |
|  | 31.96\% | 14.84\% | 3.96\% | 12.33\% | 25.76\% |
| 7:00 PM - 7:59 PM | 6,293 | 926 | 229 | 203 | 7,650 |
|  | 9.39\% | 8.59\% | 2.22\% | 3.68\% | 8.17\% |
| 8:00 PM - 8:59 PM | 1,888 | 955 | 332 | 149 | 3,323 |
|  | 2.82\% | 8.85\% | 3.22\% | 2.70\% | 3.55\% |
| 9:00 PM - 9:59 PM | 750 | 687 | 496 | 80 | 2,014 |
|  | 1.12\% | 6.37\% | 4.82\% | 1.45\% | 2.15\% |
| 10:00 PM - 10:59 PM | 369 | 653 | 529 | 126 | 1,677 |
|  | 0.55\% | 6.06\% | 5.14\% | 2.29\% | 1.79\% |
| 11:00 PM - 11:59 PM | 160 | 545 | 426 | 63 | 1,194 |
|  | 0.24\% | 5.05\% | 4.14\% | 1.14\% | 1.28\% |
| Total | 67,032 | 10,787 | 10,290 | 5,515 | 93,624 |

### 6.3.2 Weekend Riders - Outbound Trip Departure Time on MNR

The time periods for weekend riders' outbound trips on MNR were more diversely spread when compared to those of weekday riders. One-fifth ( $20 \%$ ) of weekend riders, however, reported an outbound trip on MNR departing between 5PM and 7PM.


| Q19. Outbound Trip Departure Time | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| 3:00 PM - 3:59 PM | 1,430 | 1,738 | 3,168 |
|  | 5.56\% | 7.18\% | 6.35\% |
| 4:00 PM - 4:59 PM | 1,653 | 2,004 | 3,657 |
|  | 6.43\% | 8.27\% | 7.32\% |
| 5:00 PM - 5:59 PM | 2,315 | 2,792 | 5,107 |
|  | 9.01\% | 11.52\% | 10.23\% |
| 6:00 PM - 6:59 PM | 2,178 | 2,591 | 4,769 |
|  | 8.47\% | 10.70\% | 9.55\% |
| 7:00 PM - 7:59 PM | 1,518 | 1,902 | 3,420 |
|  | 5.91\% | 7.85\% | 6.85\% |
| 8:00 PM - 8:59 PM | 1,595 | 1,450 | 3,045 |
|  | 6.21\% | 5.99\% | 6.10\% |
| 9:00 PM - 9:59 PM | 1,143 | 1,078 | 2,221 |
|  | 4.45\% | 4.45\% | 4.45\% |
| 10:00 PM - 10:59 PM | 1,702 | 892 | 2,594 |
|  | 6.62\% | 3.68\% | 5.20\% |
| 11:00 PM - 11:59 PM | 1,967 | 695 | 2,663 |
|  | 7.65\% | 2.87\% | 5.33\% |
| Total | 25,702 | 24,225 | 49,927 |

### 6.4 Use of Same Stations for Outbound Trip ${ }^{47}$

### 6.4.1 Weekday Riders - Same Stations for Outbound Trip on MNR

A large majority of weekday riders (97\%) reported using the same stations for their outbound trip on MNR as for their inbound trip. Aside from the AM Peak, where $2 \%$ of riders reported using a different station for their outbound trip, about $5 \%-6 \%$ of riders across the other weekday dayparts reported using a different station for their outbound MNR trip.

| Q20. Same Stations for <br> Outbound Trip | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 35,326 | 5,455 | 3,454 | 1,822 | 46,057 |
| Weighted Base | 83,102 | 16,335 | 13,769 | 7,240 | 120,446 |
| No Answer | 841 | 319 | 296 | 127 | 1,583 |
| Total Answering | 82,261 | 16,016 | 13,473 | 7,114 | 118,863 |
| Yes | 80,418 | 15,208 | 12,687 | 6,703 | 115,015 |
| No | $97.76 \%$ | $94.95 \%$ | $94.17 \%$ | $94.23 \%$ | $96.76 \%$ |
| Total | 1,843 | 808 | 786 | 410 | 3,848 |

[^32]
### 6.4.2 Weekend Riders - Same Stations for Outbound Trip on MNR

Nearly the same percentage of Saturday riders (94\%) reported using the same stations for their outbound MNR trip as for their inbound trip, compared to Sunday riders (93\%).

| Q20. Same Stations for <br> Outbound Trip | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 11,867 | 9,524 | 21,391 |
| Weighted Base | 44,349 | 37,649 | 81,998 |
| No Answer | 969 | 797 | 1,766 |
| Total Answering | 43,380 | 36,852 | 80,232 |
|  | 40,893 | 34,149 | 75,042 |
| Yes | $94.27 \%$ | $92.67 \%$ | $93.53 \%$ |
| No | 2,487 | 2,703 | 5,190 |
| Total | $5.73 \%$ | $7.33 \%$ | $6.47 \%$ |

### 6.5 Outbound Origin Station - For Respondents Using Different Stations for Outbound Trip ${ }^{48}$

### 6.5.1 Weekday Riders - Outbound Origin Station

Roughly $70 \%$ of all weekday riders who reported using different stations for their outbound trip on MNR stated that they used Grand Central (59\%) or Harlem-125 ${ }^{\text {th }}$ St. (11\%) as the origin station.

| Q21. Origin Station for Outbound Trip | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 735 | 252 | 183 | 80 | 1,250 |
| Weighted Base | 1,843 | 808 | 786 | 410 | 3,848 |
| No Answer | 421 | 217 | 226 | 93 | 956 |
| Total Answering | 1,423 | 591 | 560 | 317 | 2,892 |
| Grand Central | $928$ <br> 65.23\% |  | $\begin{gathered} 261 \\ 46.66 \% \end{gathered}$ | $150$ <br> 47.37\% | $1,701$ <br> 58.81\% |
| Harlem-125th St. | $\begin{gathered} 143 \\ 10.05 \% \end{gathered}$ | $\begin{gathered} 83 \\ 13.98 \% \end{gathered}$ | $\begin{gathered} 51 \\ 9.04 \% \end{gathered}$ | $\begin{gathered} 53 \\ 16.73 \% \end{gathered}$ | $\begin{gathered} 329 \\ 11.39 \% \end{gathered}$ |
| Fordham | $\begin{gathered} 43 \\ 3.01 \% \end{gathered}$ | $\begin{gathered} 14 \\ 2.42 \% \end{gathered}$ | $\begin{gathered} 52 \\ 9.20 \% \end{gathered}$ | $\begin{gathered} 25 \\ 7.87 \% \end{gathered}$ | $\begin{gathered} 134 \\ 4.63 \% \end{gathered}$ |
| Marble Hill | $\begin{gathered} 28 \\ 1.96 \% \end{gathered}$ | $\begin{gathered} 6 \\ 0.93 \% \end{gathered}$ | $\begin{gathered} 12 \\ 2.15 \% \end{gathered}$ | $\begin{gathered} 16 \\ 4.95 \% \end{gathered}$ | $\begin{gathered} 61 \\ 2.11 \% \end{gathered}$ |
| Stamford | $\begin{gathered} 24 \\ 1.67 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.62 \% \end{gathered}$ | $\begin{gathered} 7 \\ 1.28 \% \end{gathered}$ | $\begin{gathered} 12 \\ 3.82 \% \end{gathered}$ | $\begin{gathered} 47 \\ 1.62 \% \end{gathered}$ |
| New Rochelle | $\begin{gathered} 15 \\ 1.05 \% \end{gathered}$ | - | $\begin{gathered} 31 \\ 5.62 \% \end{gathered}$ | - | $\begin{gathered} 46 \\ 1.60 \% \end{gathered}$ |
| Greenwich | $\begin{gathered} 18 \\ 1.27 \% \end{gathered}$ | $\begin{gathered} 13 \\ 2.27 \% \end{gathered}$ | $\begin{gathered} 8 \\ 1.37 \% \end{gathered}$ | - | $\begin{gathered} 39 \\ 1.35 \% \end{gathered}$ |
| White Plains | $\begin{gathered} 8 \\ 0.53 \% \end{gathered}$ | $\begin{gathered} 2 \\ 0.40 \% \end{gathered}$ | $\begin{gathered} 18 \\ 3.19 \% \end{gathered}$ | $\begin{gathered} 4 \\ 1.11 \% \end{gathered}$ | $\begin{gathered} 31 \\ 1.08 \% \end{gathered}$ |
| Williams Bridge | $\begin{gathered} 10 \\ 0.73 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.58 \% \end{gathered}$ | $\begin{gathered} 12 \\ 2.17 \% \end{gathered}$ | - | $\begin{gathered} 26 \\ 0.89 \% \end{gathered}$ |

[^33]\(\left.$$
\begin{array}{|l|c|c|c|c|c|}\hline \begin{array}{l}\text { Q21. Origin Station } \\
\text { for Outbound Trip }\end{array} & \text { AM Peak } & \begin{array}{c}\text { Midday Off } \\
\text { Peak }\end{array} & \begin{array}{c}\text { PM } \\
\text { Reverse } \\
\text { Peak }\end{array} & \begin{array}{c}\text { Late Night } \\
\text { Off Peak }\end{array} & \begin{array}{c}\text { Weekday } \\
\text { Total }\end{array}
$$ <br>
Botanical Garden \& 20 \& 5 \& - \& - \& 24 <br>

Melrose \& 1.38 \% \& 0.77 \% \& - \& - \& 0.84 \%\end{array}\right]\)| (15 |
| :--- |

${ }^{49}$ Stations where the response is very low were rolled up into the category "Other East of Hudson Stations" and are not listed individually in the table.

### 6.5.2 Weekend Riders - Outbound Origin Station

Similar to weekday riders, Grand Central (59\%) and Harlem-125 th St. (15\%) were the two most commonly mentioned outbound origin station on MNR for weekend riders.

| Q21. Origin |  |  | Sunday |
| :--- | :---: | :---: | :---: |
| Station for <br> Outbound Trip | Saturday | Weekend |  |
| Total |  |  |  |


| Q21. Origin <br> Station for <br> Outbound Trip | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Greenwich | 11 | 9 | 20 |
| Other East of | $0.65 \%$ | $0.44 \%$ | $0.54 \%$ |
| Hudson Stations ${ }^{50}$ | 200 | 217 | 412 |
| Total | $11.47 \%$ | $10.84 \%$ | $11.00 \%$ |

${ }^{50}$ Stations where the response is very low were rolled up into the category "Other East of Hudson Stations" and are not listed individually in the table.

### 6.6 Outbound Destination Station - For Respondents Using Different Stations for Outbound Trip ${ }^{51}$

### 6.6.1 Weekday Riders - Outbound Destination Station

A very assorted set of outbound destination stations were reported by weekday riders who stated that they used a different set of MNR stations for their outbound trip. White Plains made up $8 \%$ of all reported destination stations for outbound trips, and after that, no outbound destination station was reported by more than $4 \%$ of weekday riders.

| Q21. Destination Station for Outbound Trip | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 735 | 252 | 183 | 80 | 1,250 |
| Weighted Base | 1,843 | 808 | 786 | 410 | 3,848 |
| No Answer | 610 | 321 | 391 | 165 | 1,487 |
| Total Answering | 1,233 | 487 | 395 | 245 | 2,360 |
| White Plains | $\begin{gathered} 96 \\ 7.78 \% \end{gathered}$ | $\begin{gathered} 25 \\ 5.06 \% \end{gathered}$ | $\begin{gathered} 60 \\ 15.20 \% \end{gathered}$ | $\begin{gathered} 7 \\ 2.96 \% \end{gathered}$ | $\begin{gathered} 188 \\ 7.96 \% \end{gathered}$ |
| Scarsdale | $\begin{gathered} 54 \\ 4.41 \% \end{gathered}$ | $\begin{gathered} 23 \\ 4.63 \% \end{gathered}$ | $\begin{gathered} 14 \\ 3.44 \% \end{gathered}$ | $\begin{gathered} 10 \\ 3.98 \% \end{gathered}$ | $\begin{gathered} 100 \\ 4.25 \% \end{gathered}$ |
| Bronxville | $\begin{gathered} 36 \\ 2.96 \% \end{gathered}$ | $\begin{gathered} 30 \\ 6.20 \% \end{gathered}$ | - | $\begin{gathered} 23 \\ 9.35 \% \end{gathered}$ | $\begin{gathered} 90 \\ 3.80 \% \end{gathered}$ |
| Tarrytown | $\begin{gathered} 35 \\ 2.83 \% \end{gathered}$ | $\begin{gathered} 12 \\ 2.42 \% \end{gathered}$ | $\begin{gathered} 10 \\ 2.51 \% \end{gathered}$ | $\begin{gathered} 15 \\ 5.98 \% \end{gathered}$ | $\begin{gathered} 71 \\ 3.02 \% \end{gathered}$ |
| Larchmont | $\begin{gathered} 50 \\ 4.07 \% \end{gathered}$ | $\begin{gathered} 13 \\ 2.60 \% \end{gathered}$ | - | - | $\begin{gathered} 63 \\ 2.66 \% \end{gathered}$ |
| Fleetwood | $\begin{gathered} 48 \\ 3.89 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.74 \% \end{gathered}$ | $\begin{gathered} 8 \\ 2.10 \% \end{gathered}$ | - | $\begin{gathered} 60 \\ 2.54 \% \end{gathered}$ |
| Stamford | $\begin{gathered} 27 \\ 2.21 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.24 \% \end{gathered}$ | $\begin{gathered} 9 \\ 2.31 \% \end{gathered}$ | $\begin{gathered} 15 \\ 5.99 \% \end{gathered}$ | $\begin{gathered} 57 \\ 2.42 \% \end{gathered}$ |
| Grand Central | $\begin{gathered} 20 \\ 1.65 \% \end{gathered}$ | $\begin{gathered} 15 \\ 2.99 \% \end{gathered}$ | $\begin{gathered} 12 \\ 2.97 \% \end{gathered}$ | $\begin{gathered} 10 \\ 3.91 \% \end{gathered}$ | $\begin{gathered} 56 \\ 2.38 \% \end{gathered}$ |
| New Haven | $\begin{gathered} 25 \\ 1.99 \% \end{gathered}$ | $\begin{gathered} 13 \\ 2.72 \% \end{gathered}$ | $\begin{gathered} 11 \\ 2.85 \% \end{gathered}$ | $\begin{gathered} 5 \\ 2.02 \% \end{gathered}$ | $\begin{gathered} 54 \\ 2.29 \% \end{gathered}$ |
| Mamaroneck | $\begin{gathered} 31 \\ 2.53 \% \end{gathered}$ | $\begin{gathered} 17 \\ 3.57 \% \end{gathered}$ |  | $\begin{gathered} 5 \\ 1.86 \% \end{gathered}$ | $\begin{gathered} 53 \\ 2.25 \% \end{gathered}$ |

[^34]| Q21. Destination Station for Outbound Trip | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| New Rochelle | $\begin{gathered} 38 \\ 3.12 \% \end{gathered}$ | $\begin{gathered} 12 \\ 2.42 \% \end{gathered}$ |  |  | $\begin{gathered} 50 \\ 2.13 \% \end{gathered}$ |
| Yonkers | $\begin{gathered} 19 \\ 1.51 \% \end{gathered}$ | $\begin{gathered} 15 \\ 3.15 \% \end{gathered}$ | $\begin{gathered} 5 \\ 1.34 \% \end{gathered}$ | $\begin{gathered} 10 \\ 4.04 \% \end{gathered}$ | $\begin{gathered} 49 \\ 2.08 \% \end{gathered}$ |
| Rye | $\begin{gathered} 22 \\ 1.75 \% \end{gathered}$ | $\begin{gathered} 7 \\ 1.45 \% \end{gathered}$ | $\begin{gathered} 17 \\ 4.31 \% \end{gathered}$ |  | $\begin{gathered} 46 \\ 1.93 \% \end{gathered}$ |
| Beacon | $\begin{gathered} 22 \\ 1.78 \% \end{gathered}$ | $\begin{gathered} 7 \\ 1.52 \% \end{gathered}$ | $\begin{gathered} 4 \\ 1.07 \% \end{gathered}$ | $\begin{gathered} 12 \\ 4.72 \% \end{gathered}$ | $\begin{gathered} 45 \\ 1.91 \% \end{gathered}$ |
| North White Plains | $\begin{gathered} 12 \\ 0.96 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.55 \% \end{gathered}$ | $\begin{gathered} 15 \\ 3.92 \% \end{gathered}$ | $\begin{gathered} 10 \\ 3.90 \% \end{gathered}$ | $\begin{gathered} 40 \\ 1.68 \% \end{gathered}$ |
| Tuckahoe | $\begin{gathered} 30 \\ 2.42 \% \end{gathered}$ | $\begin{gathered} 9 \\ 1.89 \% \end{gathered}$ | - | - | 39 $1.65 \%$ |
| Dobbs Ferry | $\begin{gathered} 14 \\ 1.11 \% \end{gathered}$ | $\begin{gathered} 10 \\ 2.01 \% \end{gathered}$ | $\begin{gathered} 8 \\ 1.97 \% \end{gathered}$ | $\begin{gathered} 8 \\ 3.08 \% \end{gathered}$ | $\begin{gathered} 39 \\ 1.65 \% \end{gathered}$ |
| Hartsdale | $\begin{gathered} 34 \\ 2.76 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.86 \% \end{gathered}$ |  |  | $\begin{gathered} 38 \\ 1.62 \% \end{gathered}$ |
| Mt Vernon East | $\begin{gathered} 10 \\ 0.78 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.70 \% \end{gathered}$ | $\begin{gathered} 16 \\ 4.11 \% \end{gathered}$ | $\begin{gathered} 9 \\ 3.47 \% \end{gathered}$ | $\begin{gathered} 38 \\ 1.60 \% \end{gathered}$ |
| Croton-Harmon | $\begin{gathered} 26 \\ 2.08 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.55 \% \end{gathered}$ | $\begin{gathered} 9 \\ 2.27 \% \end{gathered}$ |  | $\begin{gathered} 37 \\ 1.58 \% \end{gathered}$ |
| Irvington | $\begin{gathered} 15 \\ 1.23 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.14 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.56 \% \end{gathered}$ | $\begin{gathered} 9 \\ 3.79 \% \end{gathered}$ | $\begin{gathered} 36 \\ 1.53 \% \end{gathered}$ |
| Poughkeepsie | $\begin{gathered} 15 \\ 1.23 \% \end{gathered}$ | $\begin{gathered} 14 \\ 2.80 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.62 \% \end{gathered}$ | - | $\begin{gathered} 35 \\ 1.49 \% \end{gathered}$ |
| Crestwood | $\begin{gathered} 25 \\ 2.05 \% \end{gathered}$ | - | $\begin{gathered} 3 \\ 0.80 \% \end{gathered}$ | $\begin{gathered} 7 \\ 2.68 \% \end{gathered}$ | $\begin{gathered} 35 \\ 1.48 \% \end{gathered}$ |
| Pleasantville | $\begin{gathered} 7 \\ 0.58 \% \end{gathered}$ | $\begin{gathered} 25 \\ 5.15 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.68 \% \end{gathered}$ |  | $\begin{gathered} 35 \\ 1.48 \% \end{gathered}$ |
| Greenwich | $\begin{gathered} 8 \\ 0.69 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.63 \% \end{gathered}$ | $\begin{gathered} 18 \\ 4.53 \% \end{gathered}$ | $\begin{gathered} 5 \\ 2.20 \% \end{gathered}$ | $\begin{gathered} 35 \\ 1.48 \% \end{gathered}$ |
| Harrison | $\begin{gathered} 16 \\ 1.33 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.63 \% \end{gathered}$ | $\begin{gathered} 10 \\ 2.56 \% \end{gathered}$ | $\begin{gathered} 5 \\ 2.08 \% \end{gathered}$ | $\begin{gathered} 35 \\ 1.47 \% \end{gathered}$ |
| Peekskill | $\begin{gathered} 19 \\ 1.51 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.25 \% \end{gathered}$ | $\begin{gathered} 10 \\ 2.51 \% \end{gathered}$ |  | $\begin{gathered} 35 \\ 1.47 \% \end{gathered}$ |
| Cortlandt | $\begin{gathered} 13 \\ 1.04 \% \end{gathered}$ | $\begin{gathered} 13 \\ 2.66 \% \end{gathered}$ | $\begin{gathered} 8 \\ 1.97 \% \end{gathered}$ |  | $\begin{gathered} 34 \\ 1.42 \% \end{gathered}$ |
| Pelham | $\begin{gathered} 24 \\ 1.99 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.90 \% \end{gathered}$ | $\begin{gathered} 4 \\ 1.06 \% \end{gathered}$ |  | $\begin{gathered} 33 \\ 1.40 \% \end{gathered}$ |
| Harlem-125Th St. | $\begin{gathered} 4 \\ 0.35 \% \end{gathered}$ | $\begin{gathered} 2 \\ 0.50 \% \end{gathered}$ | $\begin{gathered} 15 \\ 3.82 \% \end{gathered}$ | $\begin{gathered} 7 \\ 2.94 \% \end{gathered}$ | $\begin{gathered} 29 \\ 1.23 \% \end{gathered}$ |


| Q21. Destination Station for Outbound Trip | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mount Kisco | $\begin{gathered} 13 \\ 1.03 \% \end{gathered}$ | $\begin{gathered} 14 \\ 2.88 \% \end{gathered}$ | $\begin{gathered} 2 \\ 0.46 \% \end{gathered}$ |  | $\begin{gathered} 29 \\ 1.21 \% \end{gathered}$ |
| Ossining | $\begin{gathered} 9 \\ 0.71 \% \end{gathered}$ | $\begin{gathered} 9 \\ 1.92 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.90 \% \end{gathered}$ | $\begin{gathered} 6 \\ 2.62 \% \end{gathered}$ | $\begin{gathered} 28 \\ 1.19 \% \end{gathered}$ |
| Bridgeport | $\begin{gathered} 16 \\ 1.30 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.76 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.52 \% \end{gathered}$ | $\begin{gathered} 2 \\ 0.89 \% \end{gathered}$ | $\begin{gathered} 28 \\ 1.18 \% \end{gathered}$ |
| Port Chester | $\begin{gathered} 14 \\ 1.17 \% \end{gathered}$ |  | $\begin{gathered} 8 \\ 2.14 \% \end{gathered}$ | $\begin{gathered} 4 \\ 1.49 \% \end{gathered}$ | $\begin{gathered} 27 \\ 1.13 \% \end{gathered}$ |
| Chappaqua | $\begin{gathered} 9 \\ 0.75 \% \end{gathered}$ | $\begin{gathered} 10 \\ 2.11 \% \end{gathered}$ | $\begin{gathered} 7 \\ 1.68 \% \end{gathered}$ |  | $\begin{gathered} 26 \\ 1.11 \% \end{gathered}$ |
| Katonah | $\begin{gathered} 22 \\ 1.75 \% \end{gathered}$ | $\begin{gathered} 2 \\ 0.50 \% \end{gathered}$ | - | $\begin{gathered} 1 \\ 0.56 \% \end{gathered}$ | $\begin{gathered} 25 \\ 1.08 \% \end{gathered}$ |
| Mt Vernon West | $\begin{gathered} 10 \\ 0.78 \% \end{gathered}$ | $\begin{gathered} 11 \\ 2.22 \% \end{gathered}$ | $\begin{gathered} 5 \\ 1.22 \% \end{gathered}$ |  | $\begin{gathered} 25 \\ 1.07 \% \end{gathered}$ |
| Cold Spring | $\begin{gathered} 14 \\ 1.16 \% \end{gathered}$ | $\begin{gathered} 9 \\ 1.85 \% \end{gathered}$ |  |  | $\begin{gathered} 23 \\ 0.99 \% \end{gathered}$ |
| Hastings-On-Hudson | $\begin{gathered} 18 \\ 1.48 \% \end{gathered}$ | - | $\begin{gathered} 5 \\ 1.28 \% \end{gathered}$ |  | $\begin{gathered} 23 \\ 0.99 \% \end{gathered}$ |
| Milford | $\begin{gathered} 8 \\ 0.67 \% \end{gathered}$ | $\begin{gathered} 7 \\ 1.40 \% \end{gathered}$ | $\begin{gathered} 5 \\ 1.17 \% \end{gathered}$ | $\begin{gathered} 3 \\ 1.15 \% \end{gathered}$ | $\begin{gathered} 23 \\ 0.95 \% \end{gathered}$ |
| Goldens Bridge | $\begin{gathered} 17 \\ 1.35 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.82 \% \end{gathered}$ | - | - | $\begin{gathered} 21 \\ 0.88 \% \end{gathered}$ |
| Fordham | $\begin{gathered} 5 \\ 0.39 \% \end{gathered}$ | - | $\begin{gathered} 4 \\ 0.94 \% \end{gathered}$ | $\begin{gathered} 12 \\ 4.81 \% \end{gathered}$ | $\begin{gathered} 20 \\ 0.86 \% \end{gathered}$ |
| New Canaan | $\begin{gathered} 2 \\ 0.17 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.72 \% \end{gathered}$ | $\begin{gathered} 8 \\ 2.03 \% \end{gathered}$ | $\begin{gathered} 7 \\ 2.72 \% \end{gathered}$ | $\begin{gathered} 20 \\ 0.86 \% \end{gathered}$ |
| Stratford | $\begin{gathered} 15 \\ 1.23 \% \end{gathered}$ | - | - | $\begin{gathered} 5 \\ 1.87 \% \end{gathered}$ | $\begin{gathered} 20 \\ 0.84 \% \end{gathered}$ |
| Brewster | $\begin{gathered} 9 \\ 0.72 \% \end{gathered}$ | $\begin{gathered} 8 \\ 1.62 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.74 \% \end{gathered}$ |  | $\begin{gathered} 20 \\ 0.83 \% \end{gathered}$ |
| Hawthorne | $\begin{gathered} 12 \\ 0.94 \% \end{gathered}$ | - | - | $\begin{gathered} 7 \\ 2.79 \% \end{gathered}$ | $\begin{gathered} 18 \\ 0.78 \% \end{gathered}$ |
| Scarborough | $\begin{gathered} 4 \\ 0.30 \% \end{gathered}$ | $\begin{gathered} 5 \\ 1.01 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.80 \% \end{gathered}$ | $\begin{gathered} 6 \\ 2.62 \% \end{gathered}$ | $\begin{gathered} 18 \\ 0.77 \% \end{gathered}$ |
| Waterbury | $\begin{gathered} 9 \\ 0.70 \% \end{gathered}$ | $\begin{gathered} 9 \\ 1.93 \% \end{gathered}$ | - |  | $\begin{gathered} 18 \\ 0.76 \% \end{gathered}$ |
| Purdy's | $\begin{gathered} 4 \\ 0.31 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.17 \% \end{gathered}$ | $\begin{gathered} 8 \\ 2.03 \% \end{gathered}$ |  | $\begin{gathered} 18 \\ 0.74 \% \end{gathered}$ |
| Woodlawn | $\begin{gathered} 17 \\ 1.38 \% \end{gathered}$ | - | - | - | $\begin{gathered} 17 \\ 0.72 \% \end{gathered}$ |


| Q21. Destination <br> Station for Outbound <br> Trip | AM Peak | Midday Off <br> Peak | PM Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Ludlow |  |  |  |  |  |
| Noroton Heights | 2 | - | 6 | 9 | 17 |
| Croton Falls | $0.19 \%$ | - | $1.44 \%$ | $-59 \%$ |  |

[^35]
### 6.6.2 Weekend Riders - Outbound Destination Station

Similar to weekday riders, weekend riders mentioned a variety of different outbound destination stations. White Plains was also the most frequently reported destination station for weekend riders (9\%) followed by New Haven (6\%).

| Q21. Destination Station for Outbound Trip | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 563 | 683 | 1,246 |
| Weighted Base | 2,487 | 2,703 | 5,190 |
| No Answer | 1,147 | 1,127 | 2,274 |
| Total Answering | 1,340 | 1,576 | 2,916 |
| White Plains | $\begin{gathered} 136 \\ 10.16 \% \end{gathered}$ | $\begin{gathered} 114 \\ 7.22 \% \end{gathered}$ | $\begin{gathered} 250 \\ 8.57 \% \end{gathered}$ |
| New Haven | $\begin{gathered} 72 \\ 5.37 \% \end{gathered}$ | $\begin{gathered} 98 \\ 6.23 \% \end{gathered}$ | $\begin{gathered} 170 \\ 5.84 \% \end{gathered}$ |
| Southeast | $\begin{gathered} 41 \\ 3.09 \% \end{gathered}$ | $\begin{gathered} 50 \\ 3.16 \% \end{gathered}$ | $\begin{gathered} 91 \\ 3.13 \% \end{gathered}$ |
| Grand Central | $\begin{gathered} 41 \\ 3.08 \% \end{gathered}$ | $\begin{gathered} 40 \\ 2.57 \% \end{gathered}$ | $\begin{gathered} 82 \\ 2.81 \% \end{gathered}$ |
| Yonkers | $\begin{gathered} 18 \\ 1.32 \% \end{gathered}$ | $\begin{gathered} 63 \\ 4.01 \% \end{gathered}$ | $\begin{gathered} 81 \\ 2.77 \% \end{gathered}$ |
| Peekskill | $\begin{gathered} 29 \\ 2.16 \% \end{gathered}$ | $\begin{gathered} 50 \\ 3.18 \% \end{gathered}$ | $\begin{gathered} 79 \\ 2.71 \% \end{gathered}$ |
| Poughkeepsie | $\begin{gathered} 27 \\ 2.00 \% \end{gathered}$ | $\begin{gathered} 51 \\ 3.23 \% \end{gathered}$ | $\begin{gathered} 78 \\ 2.66 \% \end{gathered}$ |
| Croton-Harmon | $\begin{gathered} 37 \\ 2.74 \% \end{gathered}$ | $\begin{gathered} 36 \\ 2.27 \% \end{gathered}$ | $\begin{gathered} 73 \\ 2.49 \% \end{gathered}$ |
| Tarrytown | $\begin{gathered} 30 \\ 2.25 \% \end{gathered}$ | $\begin{gathered} 32 \\ 2.03 \% \end{gathered}$ | $\begin{gathered} 62 \\ 2.13 \% \end{gathered}$ |
| South Norwalk | $\begin{gathered} 39 \\ 2.91 \% \end{gathered}$ | $\begin{gathered} 21 \\ 1.33 \% \end{gathered}$ | $\begin{gathered} 60 \\ 2.06 \% \end{gathered}$ |
| Beacon | $\begin{gathered} 24 \\ 1.79 \% \end{gathered}$ | $\begin{gathered} 36 \\ 2.28 \% \end{gathered}$ | $\begin{gathered} 60 \\ 2.06 \% \end{gathered}$ |
| Mount Kisco | $\begin{gathered} 31 \\ 2.28 \% \end{gathered}$ | $\begin{gathered} 23 \\ 1.45 \% \end{gathered}$ | $\begin{gathered} 53 \\ 1.83 \% \end{gathered}$ |
| Stamford | $\begin{gathered} 19 \\ 1.41 \% \end{gathered}$ | $\begin{gathered} 34 \\ 2.16 \% \end{gathered}$ | $\begin{gathered} 53 \\ 1.81 \% \end{gathered}$ |
| Harlem-125Th St. | $\begin{gathered} 18 \\ 1.33 \% \end{gathered}$ | $\begin{gathered} 34 \\ 2.14 \% \end{gathered}$ | $\begin{gathered} 51 \\ 1.76 \% \end{gathered}$ |


| Q21. Destination Station for Outbound Trip | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Bronxville | $\begin{gathered} 37 \\ 2.74 \% \end{gathered}$ | $\begin{gathered} 13 \\ 0.81 \% \end{gathered}$ | $\begin{gathered} 50 \\ 1.70 \% \end{gathered}$ |
| Ossining | $\begin{gathered} 21 \\ 1.57 \% \end{gathered}$ | $\begin{gathered} 25 \\ 1.60 \% \end{gathered}$ | $\begin{gathered} 46 \\ 1.58 \% \end{gathered}$ |
| Fleetwood | $\begin{gathered} 42 \\ 3.15 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.24 \% \end{gathered}$ | $\begin{gathered} 46 \\ 1.58 \% \end{gathered}$ |
| Chappaqua | $\begin{gathered} 24 \\ 1.78 \% \end{gathered}$ | $\begin{gathered} 21 \\ 1.33 \% \end{gathered}$ | $\begin{gathered} 45 \\ 1.54 \% \end{gathered}$ |
| Harrison | $\begin{gathered} 18 \\ 1.32 \% \end{gathered}$ | $\begin{gathered} 27 \\ 1.70 \% \end{gathered}$ | $\begin{gathered} 45 \\ 1.53 \% \end{gathered}$ |
| Katonah | $\begin{gathered} 10 \\ 0.74 \% \end{gathered}$ | $\begin{gathered} 35 \\ 2.19 \% \end{gathered}$ | $\begin{gathered} 44 \\ 1.52 \% \end{gathered}$ |
| Fordham | $\begin{gathered} 35 \\ 2.58 \% \end{gathered}$ | $\begin{gathered} 10 \\ 0.63 \% \end{gathered}$ | $\begin{gathered} 44 \\ 1.52 \% \end{gathered}$ |
| Irvington | $\begin{gathered} 19 \\ 1.39 \% \end{gathered}$ | $\begin{gathered} 25 \\ 1.59 \% \end{gathered}$ | $\begin{gathered} 44 \\ 1.50 \% \end{gathered}$ |
| Scarsdale | $\begin{gathered} 12 \\ 0.90 \% \end{gathered}$ | $\begin{gathered} 31 \\ 1.98 \% \end{gathered}$ | $\begin{gathered} 43 \\ 1.48 \% \end{gathered}$ |
| Dobbs Ferry | $\begin{gathered} 19 \\ 1.40 \% \end{gathered}$ | $\begin{gathered} 23 \\ 1.47 \% \end{gathered}$ | $\begin{gathered} 42 \\ 1.44 \% \end{gathered}$ |
| Mamaroneck | $\begin{gathered} 14 \\ 1.02 \% \end{gathered}$ | $\begin{gathered} 28 \\ 1.78 \% \end{gathered}$ | $\begin{gathered} 42 \\ 1.43 \% \end{gathered}$ |
| Crestwood | $\begin{gathered} 15 \\ 1.10 \% \end{gathered}$ | $\begin{gathered} 27 \\ 1.70 \% \end{gathered}$ | $\begin{gathered} 42 \\ 1.43 \% \end{gathered}$ |
| Cold Spring | $\begin{gathered} 28 \\ 2.07 \% \end{gathered}$ | $\begin{gathered} 13 \\ 0.85 \% \end{gathered}$ | $\begin{gathered} 41 \\ 1.41 \% \end{gathered}$ |
| Hastings-On-Hudson | $\begin{gathered} 29 \\ 2.13 \% \end{gathered}$ | $\begin{gathered} 12 \\ 0.79 \% \end{gathered}$ | $\begin{gathered} 41 \\ 1.41 \% \end{gathered}$ |
| Purdy's | $\begin{gathered} 9 \\ 0.67 \% \end{gathered}$ | $\begin{gathered} 31 \\ 1.94 \% \end{gathered}$ | $\begin{gathered} 40 \\ 1.36 \% \end{gathered}$ |
| New Rochelle | $\begin{gathered} 22 \\ 1.62 \% \end{gathered}$ | $\begin{gathered} 17 \\ 1.10 \% \end{gathered}$ | $\begin{gathered} 39 \\ 1.34 \% \end{gathered}$ |
| Pleasantville | $\begin{gathered} 20 \\ 1.52 \% \end{gathered}$ | $\begin{gathered} 19 \\ 1.18 \% \end{gathered}$ | $\begin{gathered} 39 \\ 1.34 \% \end{gathered}$ |
| Pelham | $\begin{gathered} 33 \\ 2.46 \% \end{gathered}$ | $\begin{gathered} 5 \\ 0.33 \% \end{gathered}$ | $\begin{gathered} 38 \\ 1.31 \% \end{gathered}$ |
| Stratford | $\begin{gathered} 10 \\ 0.78 \% \end{gathered}$ | $\begin{gathered} 27 \\ 1.72 \% \end{gathered}$ | $\begin{gathered} 38 \\ 1.29 \% \end{gathered}$ |
| Westport | 6 563 | $\begin{gathered} 31 \\ 683 \end{gathered}$ | $\begin{gathered} 37 \\ 1,246 \end{gathered}$ |


| Q21. Destination Station for Outbound Trip | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Hartsdale | $\begin{gathered} 36 \\ 1.24 \% \end{gathered}$ | $\begin{gathered} 21 \\ 1.58 \% \end{gathered}$ | $\begin{gathered} 15 \\ 0.94 \% \end{gathered}$ |
| Tuckahoe | $\begin{gathered} 35 \\ 1.21 \% \end{gathered}$ | $\begin{gathered} 20 \\ 1.46 \% \end{gathered}$ | $\begin{gathered} 16 \\ 1.00 \% \end{gathered}$ |
| Wassaic | $\begin{gathered} 35 \\ 1.21 \% \end{gathered}$ | $\begin{gathered} 7 \\ 0.49 \% \end{gathered}$ | $\begin{gathered} 29 \\ 1.82 \% \end{gathered}$ |
| Greenwich | $\begin{gathered} 34 \\ 1.15 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.28 \% \end{gathered}$ | $\begin{gathered} 30 \\ 1.89 \% \end{gathered}$ |
| Larchmont | $\begin{gathered} 33 \\ 1.14 \% \end{gathered}$ | $\begin{gathered} 20 \\ 1.52 \% \end{gathered}$ | $\begin{gathered} 13 \\ 0.82 \% \end{gathered}$ |
| Fairfield Metro | $\begin{gathered} 31 \\ 1.08 \% \end{gathered}$ | $\begin{gathered} 26 \\ 1.96 \% \end{gathered}$ | $\begin{gathered} 5 \\ 0.33 \% \end{gathered}$ |
| New Hamburg | $\begin{gathered} 30 \\ 1.05 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.31 \% \end{gathered}$ | $\begin{gathered} 26 \\ 1.67 \% \end{gathered}$ |
| Brewster | $\begin{gathered} 30 \\ 1.03 \% \end{gathered}$ | $\begin{gathered} 14 \\ 1.06 \% \end{gathered}$ | $\begin{gathered} 16 \\ 1.01 \% \end{gathered}$ |
| Darien | $\begin{gathered} 30 \\ 1.03 \% \end{gathered}$ | $\begin{gathered} 15 \\ 1.09 \% \end{gathered}$ | $\begin{gathered} 15 \\ 0.97 \% \end{gathered}$ |
| Garrison | $\begin{gathered} 27 \\ 0.93 \% \end{gathered}$ | $\begin{gathered} 15 \\ 1.15 \% \end{gathered}$ | $\begin{gathered} 12 \\ 0.73 \% \end{gathered}$ |
| Milford | $\begin{gathered} 26 \\ 0.90 \% \end{gathered}$ | $\begin{gathered} 14 \\ 1.02 \% \end{gathered}$ | $\begin{gathered} 13 \\ 0.81 \% \end{gathered}$ |
| Croton Falls | $\begin{gathered} 25 \\ 0.85 \% \end{gathered}$ | $\begin{gathered} 3 \\ 0.21 \% \end{gathered}$ | $\begin{gathered} 22 \\ 1.39 \% \end{gathered}$ |
| New Canaan | $\begin{gathered} 25 \\ 0.84 \% \end{gathered}$ | $\begin{gathered} 11 \\ 0.80 \% \end{gathered}$ | $\begin{gathered} 14 \\ 0.88 \% \end{gathered}$ |
| Hm Valley-Wingdale | $\begin{gathered} 23 \\ 0.78 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.31 \% \end{gathered}$ | $\begin{gathered} 19 \\ 1.18 \% \end{gathered}$ |
| Mt Vernon East | $\begin{gathered} 22 \\ 0.75 \% \end{gathered}$ | $\begin{gathered} 10 \\ 0.74 \% \end{gathered}$ | $\begin{gathered} 12 \\ 0.75 \% \end{gathered}$ |
| Breakneck Ridge | $\begin{gathered} 21 \\ 0.72 \% \end{gathered}$ | $\begin{gathered} 9 \\ 0.71 \% \end{gathered}$ | $\begin{gathered} 11 \\ 0.73 \% \end{gathered}$ |
| North White Plains | $\begin{gathered} 20 \\ 0.68 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.29 \% \end{gathered}$ | $\begin{gathered} 16 \\ 1.01 \% \end{gathered}$ |
| Waterbury | $\begin{gathered} 16 \\ 0.56 \% \end{gathered}$ | $\begin{gathered} 11 \\ 0.80 \% \end{gathered}$ | $\begin{gathered} 6 \\ 0.37 \% \end{gathered}$ |
| Bridgeport | $\begin{gathered} 16 \\ 0.55 \% \end{gathered}$ | $\begin{gathered} 2 \\ 0.15 \% \end{gathered}$ | $\begin{gathered} 14 \\ 0.88 \% \end{gathered}$ |
| Green's Farms | $\begin{gathered} 16 \\ 0.54 \% \end{gathered}$ | $\begin{gathered} 6 \\ 0.48 \% \end{gathered}$ | $\begin{gathered} 9 \\ 0.59 \% \end{gathered}$ |


| Q21. Destination Station for <br> Outbound Trip | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Philipse Manor | 16 | 10 | 5 |
| Fairfield | $0.53 \%$ | $0.77 \%$ | $0.33 \%$ |
|  | 15 | 6 | 9 |
| Total | $0.51 \%$ | $0.48 \%$ | $0.55 \%$ |

${ }^{53}$ Stations where the response is very low were rolled up into the category "Other East of Hudson Stations" and are not listed individually in the table.

### 6.7 Outbound Access Mode 54555657

### 6.7.1 Weekday Riders - Outbound Access Mode

Across all weekday dayparts, the most frequently mentioned access modes to get to the outbound trip origin station were walking (60\%) and subway (36\%).

Please note: respondents were instructed to select all modes that applied. As a result, the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q21. Access <br> Mode for <br> Outbound Trip | AM Peak | Midday Off <br> Peak | PM Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 35,326 | 5,455 | 3,454 | 1,822 | 46,057 |
| Weighted Base | 83,102 | 16,335 | 13,769 | 7,240 | 120,446 |
| No Answer | 1,552 | 567 | 597 | 225 | 2,940 |
| Total Answering | 81,550 | 15,768 | 13,173 | 7,016 | 117,506 |
| Walk | 52,931 | 8,468 | 5,802 | 3,405 | 70,606 |
| Subway | $64.91 \%$ | $53.70 \%$ | $44.04 \%$ | $48.54 \%$ | $60.09 \%$ |
| Bus | 37,506 | 6,268 | 5,560 | 2,720 | 42,055 |
| Taxi/Car | 2,182 | $39.75 \%$ | $42.21 \%$ | $38.77 \%$ | $35.79 \%$ |
| Service/Uber | $2.68 \%$ | $5.64 \%$ | 1,616 | 838 | 5,525 |
| Picked Up | 2,040 | 1,112 | $12.27 \%$ | $11.95 \%$ | $4.70 \%$ |
|  | $740 \%$ | $7.05 \%$ | 602 | 573 | 4,626 |

${ }^{54}$ Only respondents who indicated that they would use Metro-North for their outbound trip qualified for this question.
${ }^{55}$ Respondents were allowed to report multiple access modes. As a result, the tables in this section can add up to more than $100 \%$.
${ }^{56}$ Respondents who used different Metro-North stations on the outbound trip were presented with a more limited set of outbound access modes (compared to the list of access modes available for selection for the inbound trip).
${ }^{57}$ Outbound access mode information was pulled from Q21 if respondent used different outbound stations than inbound ones. If respondent used the same stations both outbound and inbound, Q10 inbound egress mode information was pulled as the equivalent for the outbound access mode information.

| Q21. Access <br> Mode for <br> Outbound Trip | AM Peak | Midday Off <br> Peak | PM Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Drive alone | 226 | 121 | 145 | 38 | 529 |
| Drive or ride with | $0.28 \%$ | $0.76 \%$ | $1.10 \%$ | $0.53 \%$ | $0.45 \%$ |

### 6.7.2 Weekend Riders - Outbound Access Mode

The origin station access mode for outbound trips differed slightly between Saturday and Sunday riders. Walking was the most frequently reported origin station access mode by Saturday riders (44\%) with subway slightly behind (43\%). Sunday riders reported subway more (47\%) and walking less (38\%).

Please note: respondents were instructed to select all modes that applied. As a result, the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q21. Access Mode for Outbound Trip | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 11,867 | 9,524 | 21,391 |
| Weighted Base | 44,349 | 37,649 | 81,998 |
| No Answer | 1,848 | 1,541 | 3,389 |
| Total Answering | 42,501 | 36,108 | 78,609 |
| Subway | $\begin{gathered} 18,288 \\ 43.03 \% \end{gathered}$ | $\begin{gathered} 16,890 \\ 46.78 \% \end{gathered}$ | 35,178 <br> 44.75\% |
| Walk | $\begin{gathered} 18,829 \\ 44.30 \% \end{gathered}$ | $\begin{gathered} 13,896 \\ 38.48 \% \end{gathered}$ | $\begin{array}{r} 32,725 \\ 41.63 \% \end{array}$ |
| Taxi / Car Service / Uber | $\begin{gathered} 5,621 \\ 13.23 \% \end{gathered}$ | $\begin{gathered} 5,241 \\ 14.51 \% \end{gathered}$ | $\begin{gathered} 10,862 \\ 13.82 \% \end{gathered}$ |
| Bus | $\begin{gathered} 2,592 \\ 6.10 \% \end{gathered}$ | $\begin{array}{r} 2,266 \\ 6.28 \% \end{array}$ | $\begin{array}{r} 4,858 \\ 6.18 \% \end{array}$ |
| Picked up | $\begin{gathered} 594 \\ 1.40 \% \end{gathered}$ | $\begin{gathered} 602 \\ 1.67 \% \end{gathered}$ | $\begin{aligned} & 1,196 \\ & 1.52 \% \end{aligned}$ |
| Drive or ride with others | $\begin{gathered} 263 \\ 0.62 \% \end{gathered}$ | $\begin{gathered} 232 \\ 0.64 \% \end{gathered}$ | $\begin{gathered} 495 \\ 0.63 \% \end{gathered}$ |
| Drive alone | $\begin{gathered} 187 \\ 0.44 \% \end{gathered}$ | $\begin{array}{r} 141 \\ 0.39 \% \end{array}$ | $\begin{gathered} 328 \\ 0.42 \% \end{gathered}$ |
| Other | $\begin{gathered} 572 \\ 1.34 \% \end{gathered}$ | $\begin{array}{r} 548 \\ 1.52 \% \end{array}$ | $\begin{aligned} & 1,120 \\ & 1.42 \% \end{aligned}$ |
| Total | 46,945 | 39,816 | 86,761 |

### 6.7.3 Weekday Riders - Outbound Access Mode - GCT Users

Among those who used GCT as their outbound boarding station, walking was the most frequently reported access mode for the outbound trip among riders from all weekday dayparts except for PM Reverse Peak riders, who reported using subway the most (58\%). Walking was mentioned more by AM Peak riders (67\%) compared to riders from other weekday dayparts (40-55\%).

Please note: respondents were instructed to select all modes that applied. As a result the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q21. Access <br> Mode for <br> Outbound <br> Trip - GCT <br> Users | AM Peak | Midday Off <br> Peak | PM Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base |  |  |  |  |  |
| Weighted Base | 70,917 | 4,718 | 12,521 | 2,116 | 1,323 |

### 6.7.4 Weekend Riders - Outbound Access Mode - GCT Users

Over half of weekend riders using GCT as the outbound boarding station accessed the station via subway (52\%). Walking was a slightly more prominent mode for accessing GCT among Saturday riders compared to Sunday riders (43\% vs. 38\%).

Please note: respondents were instructed to select all modes that applied. As a result the total number and percentage of "walk" is overstated, as many people may have selected walk along with other modes (e.g. walk to a bus).

| Q21. Access Mode for Outbound Trip - GCT Users | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 9,373 | 7,321 | 16,694 |
| Weighted Base | 31,154 | 26,857 | 58,010 |
| No Answer | 161 | 158 | 319 |
| Total Answering | 30,993 | 26,698 | 57,691 |
| Subway | $\begin{gathered} 15,603 \\ 50.34 \% \end{gathered}$ | $\begin{gathered} 14,376 \\ 53.84 \% \end{gathered}$ | $\begin{array}{r} 29,978 \\ 51.96 \% \end{array}$ |
| Walk | $\begin{array}{r} 13,373 \\ 43.15 \% \end{array}$ | $\begin{gathered} 10,116 \\ 37.89 \% \end{gathered}$ | $\begin{array}{r} 23,489 \\ 40.71 \% \end{array}$ |
| Taxi / Car Service / Uber | $\begin{gathered} 3,916 \\ 12.64 \% \end{gathered}$ | $\begin{gathered} 3,425 \\ 12.83 \% \end{gathered}$ | $\begin{gathered} 7,341 \\ 12.72 \% \end{gathered}$ |
| Bus | $\begin{gathered} 604 \\ 1.95 \% \end{gathered}$ | $\begin{gathered} 537 \\ 2.01 \% \end{gathered}$ | $\begin{aligned} & 1,141 \\ & 1.98 \% \end{aligned}$ |
| Picked up | $\begin{gathered} 170 \\ 0.55 \% \end{gathered}$ | $\begin{gathered} 195 \\ 0.73 \% \end{gathered}$ | $\begin{gathered} 366 \\ 0.63 \% \end{gathered}$ |
| Drive or ride with others | $\begin{gathered} 177 \\ 0.57 \% \end{gathered}$ | $\begin{gathered} 126 \\ 0.47 \% \end{gathered}$ | $\begin{gathered} 303 \\ 0.53 \% \end{gathered}$ |
| Drive alone | $\begin{gathered} 91 \\ 0.29 \% \end{gathered}$ | $\begin{gathered} 92 \\ 0.34 \% \end{gathered}$ | $\begin{gathered} 183 \\ 0.32 \% \end{gathered}$ |
| Other | $\begin{gathered} 361 \\ 1.17 \% \end{gathered}$ | $\begin{gathered} 357 \\ 1.34 \% \end{gathered}$ | $\begin{gathered} 718 \\ 1.25 \% \end{gathered}$ |
| Total | 34,296 | 29,223 | 63,519 |

## 7. General Information

### 7.1 Length of Time using Metro-North

Close to two-thirds of weekday and weekend riders have used MNR for 10 years or less ( $64 \%$ each for weekday and weekend riders). Most respondents have used Metro-North for 1-5 years (34\% weekday; $32 \%$ weekend) and $6-10$ years ( $20 \%$ weekday; $21 \%$ weekend).

| Q22. Length of time using MNR | AM Peak | Weekday Total | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 52,989 | 30,322 |
| Weighted Base | 91,942 | 142,711 | 120,781 |
| No Answer | 3,530 | 8,524 | 15,575 |
| Total Answering | 88,412 | 134,187 | 105,207 |
| Less than 1 year | 7,837 | 13,476 | 11,454 |
|  | 8.86\% | 10.04\% | 10.89\% |
| 1-5 years | 28,924 | 45,096 | 33,773 |
|  | 32.71\% | 33.61\% | 32.10\% |
| 6-10 years | 18,223 | 26,836 | 21,971 |
|  | 20.61\% | 20.00\% | 20.88\% |
| 11-15 years | 10,782 | 15,013 | 10,036 |
|  | 12.20\% | 11.19\% | 9.54\% |
| 16-20 years | 9,856 | 14,469 | 11,687 |
|  | 11.15\% | 10.78\% | 11.11\% |
| 21-25 years | 5,249 | 7,404 | 4,819 |
|  | 5.94\% | 5.52\% | 4.58\% |
| 26-30 years | 4,358 | 6,378 | 5,223 |
|  | 4.93\% | 4.75\% | 4.96\% |
| More than 30 years | 3,184 | 5,516 | 6,243 |
|  | 3.60\% | 4.11\% | 5.93\% |
| Total | 88,412 | 134,187 | 105,207 |

### 7.2 Work/Non-Work Travel Purpose on Metro-North

### 7.2.1 Weekday Riders - Work/Non-Work Travel Purpose

The majority (63\%) of weekday riders reported using Metro-North for both work and non-work purposes when asked about their overall travel on MNR (not just the inbound trip they were surveyed during). The next most frequently mentioned travel purpose across all weekday dayparts was for work only (31\%).

| Q23. Travel Purpose on <br> Metro-North | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 2,280 | 1,511 | 1,121 | 547 | 5,460 |
| Total Answering | 89,662 | 20,395 | 18,138 | 9,056 | 137,251 |
| Both Work Purposes and Non- | 58,027 | 13,544 | 9,416 | 5,148 | 86,135 |
| Work Purposes | $64.72 \%$ | $66.41 \%$ | $51.91 \%$ | $56.85 \%$ | $62.76 \%$ |
| Work Purposes Only | 29,585 | 3,585 | 6,473 | 3,087 | 42,731 |
| Non-Work Purposes Only | $33.00 \%$ | $17.58 \%$ | $35.69 \%$ | $34.09 \%$ | $31.13 \%$ |
| Total | 2,051 | 3,265 | 2,249 | 820 | 8,385 |

### 7.2.2 Weekend Riders - Work/Non-Work Travel Purpose

Similar to weekday riders, weekend riders also reported using Metro-North the most for both work and non-work purposes (57\%). Unlike weekday riders, the second most commonly stated travel purpose was for non-work related reasons (35\%).

| Q23. Travel Purpose on <br> Metro-North | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 4,090 | 3,742 | 7,832 |
| Total Answering | 60,435 | 52,514 | 112,949 |
| Both Work and Non-Work | 35,125 | 29,298 | 64,422 |
| Purposes | $58.12 \%$ | $55.79 \%$ | $57.04 \%$ |
| Non-Work Purposes Only | 20,113 | 19,202 | 39,315 |
| Work Purposes Only | $33.28 \%$ | $36.57 \%$ | $34.81 \%$ |
| Total | 5,197 | 4,015 | 9,212 |

### 7.3 Inbound Trip Frequency

### 7.3.1 Weekday Riders - Inbound Trip Frequency

Riders were asked to report how many trips they took in the past 7 days, including the trip where they received their inbound survey. Over half of riders in the AM Peak daypart (55\%) reported taking 5 inbound trips in the past 7 days, consistent with regular work commutes. Close to half of the respondents in the Midday Off Peak indicated 1 or 2 inbound trips in the past 7 days ( $30 \%$ and $15 \%$, respectively). In the PM Reverse Peak, 1 inbound trip (25\%) and 5 inbound trips (27\%) in the past 7 days were the most commonly reported number of trips; Late Night Off Peak riders reported 1 inbound trip (16\%) and 5 inbound trips ( $36 \%$ ) most frequently as well.

| Q24A. Inbound Trip Frequency - Total Trips (past 7 days) | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 2,986 | 2,250 | 1,958 | 836 | 8,031 |
| Total Answering | 88,956 | 19,656 | 17,301 | 8,767 | 134,680 |
| 1 trip | 4,720 | 5,967 | 4,303 | 1,409 | 16,399 |
|  | 5.31\% | 30.36\% | 24.87\% | 16.07\% | 12.18\% |
| 2 trips | 4,535 | 2,984 | 2,429 | 941 | 10,889 |
|  | 5.10\% | 15.18\% | 14.04\% | 10.73\% | 8.09\% |
| 3 trips | 6,467 | 1,983 | 1,760 | 664 | 10,874 |
|  | 7.27\% | 10.09\% | 10.18\% | 7.57\% | 8.07\% |
| 4 trips | 10,733 | 2,090 | 1,665 | 994 | 15,483 |
|  | 12.07\% | 10.63\% | 9.62\% | 11.34\% | 11.50\% |
| 5 trips | 49,293 | 3,941 | 4,650 | 3,140 | 61,023 |
|  | 55.41\% | 20.05\% | 26.88\% | 35.81\% | 45.31\% |
| 6 trips | 6,475 | 1,128 | 822 | 708 | 9,133 |
|  | 7.28\% | 5.74\% | 4.75\% | 8.07\% | 6.78\% |
| 7 trips | 3,676 | 734 | 653 | 472 | 5,535 |
|  | 4.13\% | 3.74\% | 3.77\% | 5.38\% | 4.11\% |
| 8 trips or more | 3,056 | 828 | 1,020 | 440 | 5,343 |
|  | 3.44\% | 4.21\% | 5.89\% | 5.02\% | 3.97\% |
| Total | 88,956 | 19,656 | 17,301 | 8,767 | 134,680 |

### 7.3.2 Weekend Riders - Inbound Trip Frequency

Nearly half of weekend riders (47\%) stated that they have had only one inbound trip in the past 7 days, highlighting the discretionary trip purposes of weekend riders and that many of the customers did not ride on weekdays.

| Q24A. Inbound Trip Frequency - Total Trips (past 7 days) | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 6,979 | 6,355 | 13,334 |
| Total Answering | 57,546 | 49,902 | 107,448 |
| 1 trip | 26,008 | 24,457 | 50,465 |
|  | 45.20\% | 49.01\% | 46.97\% |
| 2 trips | 9,352 | 8,998 | 18,350 |
|  | 16.25\% | 18.03\% | 17.08\% |
| 3 trips | 3,508 | 2,957 | 6,465 |
|  | 6.10\% | 5.93\% | 6.02\% |
| 4 trips | 2,755 | 2,251 | 5,007 |
|  | 4.79\% | 4.51\% | 4.66\% |
| 5 trips | 4,194 | 3,089 | 7,283 |
|  | 7.29\% | 6.19\% | 6.78\% |
| 6 trips | 6,570 | 3,959 | 10,529 |
|  | 11.42\% | 7.93\% | 9.80\% |
| 7 trips | 2,456 | 2,062 | 4,518 |
|  | 4.27\% | 4.13\% | 4.21\% |
| 8 trips or more | 2,702 | 2,128 | 4,830 |
|  | 4.70\% | 4.26\% | 4.50\% |
| Total | 57,546 | 49,902 | 107,448 |

### 7.4 Outbound Trip Frequency

### 7.4.1 Weekday Riders - Outbound Trip Frequency

In line with what was reported for inbound trips, $57 \%$ of AM Peak riders mentioned making 5 outbound trips in the past 7 days. In the PM Reverse Peak, 5 outbound trips in the past 7 days was also the most stated frequency (32\%); as it was for Late Night Off Peak riders (42\%). Midday Off Peak riders most frequently reported 1 outbound trip in the past 7 days (25\%).

| Q25A. Outbound Trip Frequency - Total Trips (past 7 days) | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 7,167 | 5,859 | 5,107 | 1,975 | 20,108 |
| Total Answering | 84,775 | 16,047 | 14,152 | 7,628 | 122,602 |
| 1 trip | 3,880 | 4,050 | 2,766 | 844 | 11,540 |
|  | 4.58\% | 25.24\% | 19.54\% | 11.07\% | 9.41\% |
| 2 trips | 4,350 | 2,645 | 1,885 | 774 | 9,654 |
|  | 5.13\% | 16.48\% | 13.32\% | 10.15\% | 7.87\% |
| 3 trips | 6,303 | 1,720 | 1,547 | 538 | 10,108 |
|  | 7.44\% | 10.72\% | 10.93\% | 7.05\% | 8.24\% |
| 4 trips | 10,611 | 1,854 | 1,393 | 861 | 14,719 |
|  | 12.52\% | 11.55\% | 9.85\% | 11.28\% | 12.01\% |
| 5 trips | 48,299 | 3,666 | 4,564 | 3,176 | 59,706 |
|  | 56.97\% | 22.84\% | 32.25\% | 41.64\% | 48.70\% |
| 6 trips | 5,833 | 952 | 725 | 617 | 8,128 |
|  | 6.88\% | 5.93\% | 5.12\% | 8.09\% | 6.63\% |
| 7 trips | 3,536 | 648 | 623 | 439 | 5,246 |
|  | 4.17\% | 4.04\% | 4.40\% | 5.76\% | 4.28\% |
| 8 trips or more | 1,962 | 513 | 649 | 378 | 3,502 |
|  | 2.31\% | 3.19\% | 4.58\% | 4.96\% | 2.86\% |
| Total | 84,775 | 16,047 | 14,152 | 7,628 | 122,602 |

### 7.4.2 Weekend Riders - Outbound Trip Frequency

One outbound trip in the past 7 days was the most commonly reported trip frequency by Saturday and Sunday riders ( $40 \%$ and $47 \%$, respectively). These answers were in line with the inbound trip frequencies reported by the same riders.

| Q25A. Outbound Trip Frequency - Total Trips (past 7 days) | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 20,401 | 17,316 | 37,717 |
| Total Answering | 44,124 | 38,941 | 83,064 |
| 1 trip | 17,525 | 18,359 | 35,884 |
|  | 39.72\% | 47.15\% | 43.20\% |
| 2 trips | 7,622 | 7,016 | 14,639 |
|  | 17.28\% | 18.02\% | 17.62\% |
| 3 trips | 2,969 | 2,317 | 5,286 |
|  | 6.73\% | 5.95\% | 6.36\% |
| 4 trips | 2,480 | 1,830 | 4,310 |
|  | 5.62\% | 4.70\% | 5.19\% |
| 5 trips | 4,312 | 2,848 | 7,160 |
|  | 9.77\% | 7.31\% | 8.62\% |
| 6 trips | 5,567 | 3,437 | 9,004 |
|  | 12.62\% | 8.83\% | 10.84\% |
| 7 trips | 2,136 | 1,799 | 3,935 |
|  | 4.84\% | 4.62\% | 4.74\% |
| 8 trips or more | 1,512 | 1,334 | 2,846 |
|  | 3.43\% | 3.43\% | 3.43\% |
| Total | 44,124 | 38,941 | 83,064 |

### 7.5 Typical Fare Payment Method

### 7.5.1 Weekday Riders - Typical Fare Payment Method

Three quarters ( $75 \%$ ) of all weekday respondents mentioned using a debit or credit card to pay for their fare (between $74 \%$ and $79 \%$, depending on daypart). Transit vouchers or commuter benefit accounts were also commonly reported payment methods for AM Peak riders (30\%) while cash was common for riders in other weekday dayparts (between $19 \%$ and $22 \%$, depending on daypart).

| Q26. Typical Fare <br> Payment Method | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 4,330 | 2,341 | 1,970 | 1,041 | 9,682 |
| Total Answering | 87,612 | 19,565 | 17,289 | 8,562 | 133,029 |
| Debit / Credit Card | 64,398 | 15,426 | 13,497 | 6,398 | 99,719 |
| Transit Voucher / Commuter | $73.50 \%$ | $78.84 \%$ | $78.06 \%$ | $74.72 \%$ | $74.96 \%$ |
| benefit account | 25,974 | 1,607 | 1,785 | 1,334 | 30,699 |
| Cash | $29.65 \%$ | $8.21 \%$ | $10.32 \%$ | $15.58 \%$ | $23.08 \%$ |
| Total | 5,266 | 4,059 | 3,366 | 1,874 | 14,565 |

### 7.5.2 Weekend Riders - Typical Fare Payment Method

The vast majority of weekend riders (80\%) reported using a debit or credit card to pay for their fare. Cash was the next most frequently stated fare payment method (22\%).

| Q26. Typical Fare <br> Payment Method | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 7,044 | 6,076 | 13,120 |
| Total Answering | 57,481 | 50,181 | 107,661 |
| Debit / Credit Card | 45,483 | 40,575 | 86,058 |
| Cash | $79.13 \%$ | $80.86 \%$ | $79.93 \%$ |
| Transit Voucher / Commuter | 12,878 | 10,813 | 23,691 |
| benefit account | $22,40 \%$ | $21.55 \%$ | $22.01 \%$ |
| Total | $6.02 \%$ | 2,543 | 6,006 |

### 7.6 Technologies Used in Past 30 Days

### 7.6.1 Weekday Riders - Technologies Used

A variety of technological devices and applications have been used by weekday riders in the past 30 days and can be grouped into 3 categories: higher usage (desktop or laptop computer; smartphone, cell phone or PDA with Internet access; and text message - 85-88\%); medium usage (Facebook; a transit app or widget; and tablet/iPad - 50-61\%); and lower usage (cell phone without Internet access; and Twitter - 22-28\%).

| Q27. Technologies Used In Past 30 Days | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 3,649 | 1,816 | 1,516 | 797 | 7,778 |
| Total Answering | 88,293 | 20,091 | 17,743 | 8,807 | 134,933 |
| Smartphone, cell phone or PDA with Internet access | $\begin{array}{r} 78,630 \\ 89.06 \% \end{array}$ | $\begin{array}{r} 17,073 \\ 84.98 \% \end{array}$ | $\begin{gathered} 15,062 \\ 84.89 \% \end{gathered}$ | $\begin{gathered} 7,351 \\ 83.47 \% \end{gathered}$ | 118,114 <br> 87.54\% |
| Desktop or laptop computer | $\begin{array}{r} 78,476 \\ 88.88 \% \end{array}$ | $\begin{gathered} 16,786 \\ 83.55 \% \end{gathered}$ | $\begin{gathered} 14,783 \\ 83.32 \% \end{gathered}$ | $\begin{gathered} 6,884 \\ 78.17 \% \end{gathered}$ | $\begin{aligned} & 116,929 \\ & 86.66 \% \end{aligned}$ |
| Text message (send or received) | $\begin{array}{r} 76,675 \\ 86.84 \% \end{array}$ | $\begin{gathered} 16,439 \\ 81.83 \% \end{gathered}$ | $\begin{gathered} 14,593 \\ 82.25 \% \end{gathered}$ | $\begin{gathered} 6,982 \\ 79.28 \% \end{gathered}$ | $\begin{aligned} & 114,689 \\ & 85.00 \% \end{aligned}$ |
| Tablet / iPad | $\begin{gathered} 56,252 \\ 63.71 \% \end{gathered}$ | 11,326 56.38\% | $\begin{array}{r} 9,288 \\ 52.35 \% \end{array}$ | $\begin{array}{r} 4,873 \\ 55.33 \% \end{array}$ | $\begin{gathered} 81,739 \\ 60.58 \% \end{gathered}$ |
| Facebook | $\begin{array}{r} 48,036 \\ 54.40 \% \end{array}$ | $11,388$ <br> 56.69\% | $\begin{array}{r} 10,751 \\ 60.59 \% \end{array}$ | $\begin{gathered} 4,634 \\ 52.62 \% \end{gathered}$ | $\begin{array}{r} 74,809 \\ 55.44 \% \end{array}$ |
| A transit app or widget | $\begin{array}{r} 47,023 \\ 53.26 \% \end{array}$ | $\begin{gathered} 8,388 \\ 41.75 \% \end{gathered}$ | $\begin{gathered} 8,207 \\ 46.26 \% \end{gathered}$ | $\begin{gathered} 3,922 \\ 44.53 \% \end{gathered}$ | $\begin{array}{r} 67,540 \\ 50.05 \% \end{array}$ |
| Cell phone without Internet access | $\begin{array}{r} 23,384 \\ 26.48 \% \end{array}$ | $\begin{gathered} 6,330 \\ 31.51 \% \end{gathered}$ | $\begin{gathered} 5,218 \\ 29.41 \% \end{gathered}$ | $\begin{gathered} 2,626 \\ 29.82 \% \end{gathered}$ | $\begin{array}{r} 37,558 \\ 27.83 \% \end{array}$ |
| Twitter | $\begin{array}{r} 19,065 \\ 21.59 \% \end{array}$ | $\begin{gathered} 4,559 \\ 22.69 \% \end{gathered}$ | $\begin{gathered} 4,347 \\ 24.50 \% \end{gathered}$ | $\begin{gathered} 1,768 \\ 20.07 \% \end{gathered}$ | $\begin{gathered} 29,739 \\ 22.04 \% \end{gathered}$ |
| Total | 427,539 | 92,290 | 82,249 | 39,039 | 641,117 |

### 7.6.2 Weekend Riders - Technologies Used

Weekend riders reported similar past 30-day usage patterns of technological devices and applications to those of weekday riders. Facebook usage was slightly higher among weekend riders (62\%) compared to weekday riders (55\%), while transit apps/widget usage was slightly lower (42\% vs. 50\%).

| Q27. Technologies <br> Used In Past 30 Days | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 4,719 | 4,146 | 8,865 |
| Total Answering | 59,806 | 52,111 | 111,917 |
| Smartphone, cell phone or | 50,583 | 44,109 | 94,692 |
| PDA with Internet access | $84.58 \%$ | $84.64 \%$ | $84.61 \%$ |
| Desktop or laptop computer | 48,885 | 43,394 | 92,279 |
| Text message (send or | $81.74 \%$ | $83.27 \%$ | $82.45 \%$ |
| received) | 48,503 | 42,714 | 91,217 |
| Facebook | $81.10 \%$ | $81.97 \%$ | $81.50 \%$ |
| Tablet / iPad | 36,934 | 33,002 | 69,936 |
| A transit app or widget | $61.76 \%$ | $63.33 \%$ | $62.49 \%$ |
| Cell phone without Internet | 31,420 | 27,102 | 58,522 |
| access | 18,279 | $52.01 \%$ | $52.29 \%$ |
|  | $30.56 \%$ | $30.36 \%$ | $30.47 \%$ |
| Twitter | 14,699 | 13,180 | 27,879 |
|  | 24,399 | 23,049 | 47,448 |
|  | $20,80 \%$ | $44.23 \%$ | $42.40 \%$ |
|  | 24,821 | 34,101 |  |
|  | 242,370 | 516,074 |  |

### 7.7 Licensed Driver

### 7.7.1 Weekday Riders - Licensed Driver

The vast majority of AM Peak riders identified themselves as licensed drivers (94\%). The percentage of licensed drivers was lower among riders from the other weekday dayparts (76-83\%).

| Q28. Licensed Driver | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 3,401 | 1,921 | 1,494 | 703 | 7,519 |
| Total Answering | 88,541 | 19,985 | 17,765 | 8,900 | 135,192 |
| Yes | 83,577 | 16,619 | 13,548 | 7,021 | 120,765 |
|  | $94.39 \%$ | $83.16 \%$ | $76.26 \%$ | $78.89 \%$ | $89.33 \%$ |
| Total | 4,964 | 3,366 | 4,218 | 1,879 | 14,427 |

### 7.7.2 Weekend Riders - Licensed Driver

The percentage of weekend riders who reported themselves as licensed drivers (80\%) was lower than the overall weekday percentage of licensed drivers (89\%), and was most similar to that of Late Night Off-Peak riders (79\%).

| Q28. Platforms Used In <br> Last 30 Days | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 4,730 | 3,737 | 8,467 |
| Total Answering | 59,795 | 52,519 | 112,314 |
|  | 47,456 | 42,183 | 89,639 |
| Yes | $79.36 \%$ | $80.32 \%$ | $79.81 \%$ |
| No | 12,339 | 10,337 | 22,676 |
| Total | $20.64 \%$ | $19.68 \%$ | $20.19 \%$ |

### 7.8 Number of Licensed Drivers in Household

### 7.8.1 Weekday Riders - Number of Licensed Drivers in Household

The most frequently reported number of licensed drivers in the household was 2 , among all weekday riders (54\%). From the Midday Off Peak through the Late Night Off Peak, riders also commonly mentioned having 1 licensed driver in the household (between 21\%-32\%).

| Q29. Number of Licensed Drivers in Household | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 4,430 | 2,169 | 2,139 | 1,099 | 9,837 |
| Total Answering | 87,512 | 19,737 | 17,120 | 8,504 | 132,873 |
| 0 | $\begin{aligned} & 1,017 \\ & 1.16 \% \end{aligned}$ | $\begin{gathered} \hline 886 \\ 4.49 \% \end{gathered}$ | $\begin{gathered} 1,246 \\ 7.28 \% \end{gathered}$ | $\begin{gathered} 668 \\ 7.85 \% \end{gathered}$ | $\begin{gathered} \hline 3,817 \\ 2.87 \% \end{gathered}$ |
| 1 | $\begin{gathered} 11,591 \\ 13.24 \% \end{gathered}$ | $\begin{gathered} 4,094 \\ 20.74 \% \end{gathered}$ | $\begin{gathered} 5,422 \\ 31.67 \% \end{gathered}$ | $\begin{gathered} 1,968 \\ 23.14 \% \end{gathered}$ | $\begin{gathered} 23,074 \\ 17.37 \% \end{gathered}$ |
| 2 | $\begin{gathered} 51,578 \\ 58.94 \% \end{gathered}$ | $\begin{gathered} 9,292 \\ 47.08 \% \end{gathered}$ | $\begin{gathered} 7,003 \\ 40.90 \% \end{gathered}$ | $\begin{gathered} 3,784 \\ 44.50 \% \end{gathered}$ | $\begin{gathered} 71,657 \\ 53.93 \% \end{gathered}$ |
| 3 | $\begin{gathered} 12,886 \\ 14.72 \% \end{gathered}$ | $\begin{array}{r} 3,065 \\ 15.53 \% \end{array}$ | $\begin{gathered} 1,855 \\ 10.84 \% \end{gathered}$ | $\begin{gathered} 1,236 \\ 14.54 \% \end{gathered}$ | $\begin{gathered} 19,042 \\ 14.33 \% \end{gathered}$ |
| 4 | $\begin{array}{r} 7,569 \\ 8.65 \% \end{array}$ | $\begin{aligned} & 1,711 \\ & 8.67 \% \end{aligned}$ | $\begin{aligned} & 1,087 \\ & 6.35 \% \end{aligned}$ | $\begin{gathered} 588 \\ 6.92 \% \end{gathered}$ | $\begin{aligned} & 10,956 \\ & 8.25 \% \end{aligned}$ |
| 5 or more | $\begin{aligned} & 2,872 \\ & 3.28 \% \end{aligned}$ | $\begin{gathered} 688 \\ 3.48 \% \end{gathered}$ | $\begin{gathered} 507 \\ 2.96 \% \end{gathered}$ | $\begin{gathered} 260 \\ 3.06 \% \end{gathered}$ | $\begin{gathered} 4,327 \\ 3.26 \% \end{gathered}$ |
| Mean | 2.27 | 2.16 | 1.89 | 2.01 | 2.19 |
| Median | 1.6 | 1.53 | 1.27 | 1.43 | 1.55 |
| Total | 87,512 | 19,737 | 17,120 | 8,504 | 132,873 |

### 7.8.2 Weekend Riders - Number of Licensed Drivers in Household

Similar to what was reported for weekday riders, 2 was the most prevalent number of licensed drivers in weekend riders' households, though at a lower level ( $40 \%$ vs. $54 \%$ for weekday riders). The percentage of households with 1 licensed driver was higher for weekend riders (27\%) than weekday riders (17\%).

| Q29. Number of Licensed Drivers in Household | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 6,465 | 5,698 | 12,163 |
| Total Answering | 58,060 | 50,559 | 108,618 |
| 0 | $\begin{array}{r} 3,754 \\ 6.47 \% \end{array}$ | $\begin{array}{r} 3,504 \\ 6.93 \% \end{array}$ | $\begin{array}{r} 7,258 \\ 6.68 \% \end{array}$ |
| 1 | $\begin{array}{r} 14,916 \\ 25.69 \% \end{array}$ | $\begin{gathered} 14,445 \\ 28.57 \% \end{gathered}$ | $\begin{array}{r} 29,360 \\ 27.03 \% \end{array}$ |
| 2 | $\begin{array}{r} 23,201 \\ 39.96 \% \end{array}$ | $\begin{array}{r} 19,750 \\ 39.06 \% \end{array}$ | $\begin{gathered} 42,951 \\ 39.54 \% \end{gathered}$ |
| 3 | $\begin{gathered} 8,756 \\ 15.08 \% \end{gathered}$ | $\begin{gathered} 6,673 \\ 13.20 \% \end{gathered}$ | $\begin{gathered} 15,429 \\ 14.20 \% \end{gathered}$ |
| 4 | $\begin{gathered} 5,001 \\ 8.61 \% \end{gathered}$ | $\begin{gathered} 4,172 \\ 8.25 \% \end{gathered}$ | $\begin{gathered} 9,173 \\ 8.44 \% \end{gathered}$ |
| 5 or more | $\begin{gathered} 2,432 \\ 4.19 \% \end{gathered}$ | $\begin{aligned} & 2,016 \\ & 3.99 \% \end{aligned}$ | 4,447 $4.09 \%$ |
| Mean | 2.09 | 2.02 | 2.06 |
| Median | 1.45 | 1.37 | 1.41 |
| Total | 58,060 | 50,559 | 108,618 |

### 7.9 Number of Operable Vehicles in Household

### 7.9.1 Weekday Riders - Number of Operable Vehicles in Household

Almost all AM Peak riders (97\%) reported having at least 1 operable vehicle in their household, with nearly half (46\%) reporting 2 operable vehicles. Midday Off Peak riders reported having 2 operable vehicles most frequently (37\%), as did Late Night Off Peak riders (34\%). PM Reverse Peak riders indicated having zero operable vehicles (33\%) most frequently.

| Q30. Number of Operable Vehicles in Household | AM Peak | Midday Off Peak | PM Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 4,762 | 2,297 | 2,418 | 1,151 | 10,628 |
| Total Answering | 87,181 | 19,609 | 16,841 | 8,452 | 132,082 |
| 0 | $\begin{aligned} & \hline 2,836 \\ & 3.25 \% \end{aligned}$ | $\begin{gathered} \text { 2,377 } \\ \text { 12.12\% } \end{gathered}$ | $\begin{gathered} 5,589 \\ 33.19 \% \end{gathered}$ | $\begin{gathered} 2,120 \\ 25.08 \% \end{gathered}$ | $\begin{aligned} & 12,923 \\ & 9.78 \% \end{aligned}$ |
| 1 | $\begin{gathered} 22,220 \\ 25.49 \% \end{gathered}$ | $\begin{array}{r} 5,526 \\ 28.18 \% \end{array}$ | $\begin{gathered} 5,054 \\ 30.01 \% \end{gathered}$ | $\begin{gathered} 1,761 \\ 20.84 \% \end{gathered}$ | $\begin{gathered} 34,561 \\ 26.17 \% \end{gathered}$ |
| 2 | $\begin{array}{r} 39,900 \\ 45.77 \% \end{array}$ | $\begin{gathered} 7,172 \\ 36.57 \% \end{gathered}$ | $\begin{array}{r} 3,850 \\ 22.86 \% \end{array}$ | $\begin{gathered} 2,882 \\ 34.10 \% \end{gathered}$ | $\begin{gathered} 53,804 \\ 40.74 \% \end{gathered}$ |
| 3 | $\begin{gathered} 14,571 \\ 16.71 \% \end{gathered}$ | $\begin{array}{r} 2,930 \\ 14.94 \% \end{array}$ | $\begin{aligned} & 1,412 \\ & 8.38 \% \end{aligned}$ | $\begin{array}{r} 1,083 \\ 12.82 \% \end{array}$ | 19,996 $15.14 \%$ |
| 4 | $\begin{aligned} & 5,454 \\ & 6.26 \% \end{aligned}$ | $\begin{gathered} 1,129 \\ 5.76 \% \end{gathered}$ | $\begin{gathered} 605 \\ 3.60 \% \end{gathered}$ | $\begin{gathered} 411 \\ 4.86 \% \end{gathered}$ | $\begin{array}{r} 7,599 \\ 5.75 \% \end{array}$ |
| 5 or more | $\begin{aligned} & 2,199 \\ & 2.52 \% \end{aligned}$ | $\begin{gathered} 475 \\ 2.42 \% \end{gathered}$ | $\begin{gathered} 330 \\ 1.96 \% \end{gathered}$ | $\begin{gathered} 194 \\ 2.30 \% \end{gathered}$ | $\begin{aligned} & 3,199 \\ & 2.42 \% \end{aligned}$ |
| Mean | 2.06 | 1.83 | 1.27 | 1.6 | 1.9 |
| Median | 1.46 | 1.27 | 0.56 | 1.12 | 1.34 |
| Total | 87,181 | 19,609 | 16,841 | 8,452 | 132,082 |

### 7.9.2 Weekend Riders - Number of Operable Vehicles in Household

The distribution of the number of operable vehicles in the household varied more among weekend riders, with about $25 \%$ of riders reporting having zero; $27 \%$ indicating having $1 ; 27 \%$ stating having 2 ; and $21 \%$ reporting having 3 or more operable vehicles.

| Q30. Number of Operable Vehicles in Household | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 7,292 | 7,049 | 14,342 |
| Total Answering | 57,232 | 49,207 | 106,440 |
| 0 | $\begin{gathered} 11,928 \\ 20.84 \% \end{gathered}$ | $\begin{array}{r} 14,950 \\ 30.38 \% \end{array}$ | $\begin{array}{r} 26,878 \\ 25.25 \% \end{array}$ |
| 1 | $\begin{array}{r} 15,927 \\ 27.83 \% \end{array}$ | $\begin{gathered} 12,938 \\ 26.29 \% \end{gathered}$ | $\begin{array}{r} 28,864 \\ 27.12 \% \end{array}$ |
| 2 | $\begin{array}{r} 16,806 \\ 29.36 \% \end{array}$ | $\begin{gathered} 12,000 \\ 24.39 \% \end{gathered}$ | $\begin{array}{r} 28,806 \\ 27.06 \% \end{array}$ |
| 3 | $\begin{gathered} 7,524 \\ 13.15 \% \end{gathered}$ | $\begin{gathered} 5,517 \\ 11.21 \% \end{gathered}$ | $\begin{array}{r} 13,041 \\ 12.25 \% \end{array}$ |
| 4 | $\begin{array}{r} 3,177 \\ 5.55 \% \end{array}$ | $\begin{aligned} & 2,461 \\ & 5.00 \% \end{aligned}$ | $\begin{gathered} 5,638 \\ 5.30 \% \end{gathered}$ |
| 5 or more | $\begin{gathered} 1,871 \\ 3.27 \% \end{gathered}$ | $\begin{gathered} 1,342 \\ 2.73 \% \end{gathered}$ | $\begin{aligned} & 3,212 \\ & 3.02 \% \end{aligned}$ |
| Mean | 1.67 | 1.45 | 1.57 |
| Median | 1.05 | 0.75 | 0.91 |
| Total | 57,233 | 49,207 | 106,440 |

### 7.10 Vehicle Availability

### 7.10.1 Weekday Riders - Vehicle Availability

The majority of AM Peak riders (81\%) indicated having a vehicle available for their inbound trip. This percentage was lower among riders in the other weekday dayparts (ranging from 38\% in the PM Reverse Peak, to 63\% in the Midday Off Peak).

| Q31. Vehicle Availability | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 4,131 | 1,993 | 1,669 | 756 | 8,548 |
| Total Answering | 87,811 | 19,913 | 17,590 | 8,848 | 134,163 |
|  | 70,765 | 12,451 | 6,642 | 4,507 | 94,364 |
| Yes | $80.59 \%$ | $62.52 \%$ | $37.76 \%$ | $50,93 \%$ | $70.34 \%$ |
| No | 17,046 | 7,463 | 10,948 | 4,341 | 39,799 |
| Total | $19.41 \%$ | $37.48 \%$ | $62.24 \%$ | $49.07 \%$ | $29.66 \%$ |

### 7.10.2 Weekend Riders - Vehicle Availability

Vehicle availability was evenly split for weekend riders, with half reporting having a vehicle available, and the other half not having a vehicle available. A larger share of Saturday riders mentioned having a vehicle available compared to Sunday riders ( $54 \%$ vs $46 \%$, respectively).

| Q31. Vehicle Availability | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 5,535 | 4,406 | 9,941 |
| Total Answering | 58,990 | 51,850 | 110,840 |
|  | 32,025 | 23,678 | 55,703 |
| Yes | $54.29 \%$ | $45.67 \%$ | $50.26 \%$ |
| No | 26,965 | 28,173 | 55,137 |
| Total | $45.71 \%$ | $54.33 \%$ | $49.74 \%$ |

### 7.11 Number of Trips made into New York City by Car per Month

### 7.11.1 Weekday Riders - Number of Trips Made into New York City by Car per Month

The majority of weekday riders (55\%) reported making zero car trips, on average, to NYC per month. In the AM Peak and Midday Off Peak, 53\% of riders reported zero car trips to NYC per month, while more riders in the PM Reverse Peak (65\%) and Late Night Off Peak (62\%) reported zero car trips per month to NYC.

| Q32. Number of Trips Made Into NYC by Car per Month | AM Peak | Midday Off Peak |  | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 6,487 | 2,700 | 2,919 | 1,356 | 13,462 |
| Total Answering | 85,456 | 19,206 | 16,341 | 8,247 | 129,249 |
| 0 | $\begin{gathered} 45,561 \\ 53.32 \% \end{gathered}$ | $\begin{gathered} 10,137 \\ 52.78 \% \end{gathered}$ | $\begin{gathered} 10,687 \\ 65.40 \% \end{gathered}$ | $\begin{gathered} 5,109 \\ 61.95 \% \end{gathered}$ | $\begin{gathered} 71,494 \\ 55.32 \% \end{gathered}$ |
| 1 or More | $\begin{gathered} 39,894 \\ 46.68 \% \end{gathered}$ | $\begin{gathered} 9,068 \\ 47.22 \% \end{gathered}$ | $\begin{array}{r} 5,654 \\ 34.60 \% \end{array}$ | $\begin{gathered} 3,138 \\ 38.05 \% \end{gathered}$ | $\begin{gathered} 57,755 \\ 44.68 \% \end{gathered}$ |
| 1 | $\begin{gathered} 15,311 \\ 17.92 \% \end{gathered}$ | $\begin{gathered} 2,903 \\ 15.11 \% \end{gathered}$ | $\begin{gathered} 1,764 \\ 10.79 \% \end{gathered}$ | $\begin{gathered} 1,020 \\ 12.36 \% \end{gathered}$ | $\begin{gathered} 20,997 \\ 16.25 \% \end{gathered}$ |
| 2 | $\begin{gathered} 10,814 \\ 12.65 \% \end{gathered}$ | $\begin{array}{r} 2,295 \\ 11.95 \% \end{array}$ | $\begin{gathered} 1,266 \\ 7.75 \% \end{gathered}$ | $\begin{gathered} 819 \\ 9.93 \% \end{gathered}$ | $\begin{gathered} 15,193 \\ 11.75 \% \end{gathered}$ |
| 3 | $\begin{gathered} 4,034 \\ 4.72 \% \end{gathered}$ | $\begin{gathered} 923 \\ 4.81 \% \end{gathered}$ | $\begin{gathered} 633 \\ 3.87 \% \end{gathered}$ | $\begin{gathered} 234 \\ 2.84 \% \end{gathered}$ | $\begin{gathered} 5,824 \\ 4.51 \% \end{gathered}$ |
| 4 | $\begin{aligned} & 3,749 \\ & 4.39 \% \end{aligned}$ | $\begin{gathered} 1,022 \\ 5.32 \% \end{gathered}$ | $\begin{gathered} 615 \\ 3.76 \% \end{gathered}$ | $\begin{gathered} 330 \\ 4.00 \% \end{gathered}$ | $\begin{aligned} & 5,716 \\ & 4.42 \% \end{aligned}$ |
| 5 or more | $\begin{aligned} & 5,986 \\ & 7.01 \% \end{aligned}$ | $\begin{array}{r} 1,925 \\ 10.02 \% \end{array}$ | $\begin{gathered} 1,377 \\ 8.43 \% \end{gathered}$ | $\begin{gathered} 736 \\ 8.92 \% \end{gathered}$ | $\begin{aligned} & 10,024 \\ & 7.76 \% \end{aligned}$ |
| Mean | 1.47 | 1.78 | 1.49 | 1.54 | 1.52 |
| Median | - | - | - | - | - |
| Total | 85,456 | 19,206 | 16,341 | 8,247 | 129,249 |

### 7.11.2 Weekend Riders - Number of Trips Made into New York City by Car per Month

The relatively low percentage of weekend riders who reported making 1 or more trips to NYC by car per month (34\%) resembled that of PM Reverse Peak riders (35\%).

| Q32. Number of Trips Made Into NYC by Car per Month | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 9,076 | 8,381 | 17,457 |
| Total Answering | 55,449 | 47,876 | 103,325 |
| 0 | 36,692 66.17\% | $\begin{gathered} 32,007 \\ 66.85 \% \end{gathered}$ | $\begin{gathered} 68,699 \\ 66.49 \% \end{gathered}$ |
| 1 or More | $\begin{gathered} 18,757 \\ 33.83 \% \end{gathered}$ | $\begin{gathered} 15,869 \\ 33.15 \% \end{gathered}$ | $\begin{array}{r} 34,626 \\ 33.51 \% \end{array}$ |
| 1 | $\begin{gathered} 6,784 \\ 12.23 \% \end{gathered}$ | $\begin{gathered} 5,996 \\ 12.52 \% \end{gathered}$ | $\begin{gathered} 12,780 \\ 12.37 \% \end{gathered}$ |
| 2 | $\begin{gathered} 4,751 \\ 8.57 \% \end{gathered}$ | $\begin{aligned} & 3,790 \\ & 7.92 \% \end{aligned}$ | $\begin{array}{r} 8,541 \\ 8.27 \% \end{array}$ |
| 3 | $\begin{array}{r} 1,850 \\ 3.34 \% \end{array}$ | $\begin{aligned} & 1,601 \\ & 3.34 \% \end{aligned}$ | $\begin{array}{r} 3,451 \\ 3.34 \% \end{array}$ |
| 4 | $\begin{array}{r} 1,627 \\ 2.93 \% \end{array}$ | $\begin{array}{r} 1,478 \\ 3.09 \% \end{array}$ | $\begin{array}{r} 3,105 \\ 3.01 \% \end{array}$ |
| 5 or more | $\begin{array}{r} 3,745 \\ 6.75 \% \end{array}$ | $\begin{array}{r} 3,003 \\ 6.27 \% \end{array}$ | $\begin{gathered} 6,748 \\ 6.53 \% \end{gathered}$ |
| Mean | 1.3 | 1.2 | 1.25 |
| Median | - | - | - |
| Total | 55,449 | 47,876 | 103,325 |

### 7.12 Physical Disabilities ${ }^{58}$

Around $3 \%$ of both weekday and weekend riders reported having some type of disability. Difficulty climbing stairs was most commonly mentioned among those respondents who reported having a disability for both weekday and weekend travelers.

| Q33. Physical Disabilities | AM Peak | Weekday Total | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 52,989 | 30,322 |
| Weighted Base | 91,942 | 142,711 | 120,781 |
| No Answer | 3,785 | 8,100 | 9,542 |
| Total Answering | 88,157 | 134,611 | 111,239 |
| No disability | 86,112 | 131,040 | 107,788 |
|  | 97.68\% | 97.35\% | 96.90\% |
| Difficulty with or inability to climb stairs | 1,513 | 2,592 | 2,370 |
|  | 1.72\% | 1.93\% | 2.13\% |
| Use a wheelchair | 10 | 38 | 75 |
|  | 0.01\% | 0.03\% | 0.07\% |
| Use a mobility aid (cane, etc.) | 206 | 415 | 444 |
|  | 0.23\% | 0.31\% | 0.40\% |
| Are legally blind | 40 | 101 | 176 |
|  | 0.04\% | 0.08\% | 0.16\% |
| Have a hearing impairment | 381 | 659 | 706 |
|  | 0.43\% | 0.49\% | 0.63\% |
| Total | 88,261 | 134,846 | 111,558 |

[^36]
### 7.13 Level of Education

A little over four-fifths of weekday riders reported having a college degree or more (81\%). A smaller share of weekend riders (69\%) reported having at least a college degree.


### 7.14 Current Employment Status

### 7.14.1 Weekday Riders - Current Employment Status

The vast majority of AM Peak riders were employed full-time (90\%). The percentage of those employed full-time decreased for Midday Off Peak riders (53\%) and increased again for PM Reverse Peak riders (68\%) and Late Night Off Peak riders (78\%).

| Q35. Current Employment Status | AM Peak | Midday Off Peak | PM <br> Reverse <br> Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 4,325 | 2,091 | 1,829 | 752 | 8,997 |
| Total Answering | 87,617 | 19,815 | 17,430 | 8,851 | 133,714 |
| Employed full-time (35+ hrs/wk) | $\begin{array}{r} 78,636 \\ 89.75 \% \end{array}$ | $\begin{gathered} 10,405 \\ 52.51 \% \end{gathered}$ | $\begin{array}{r} 11,916 \\ 68.36 \% \end{array}$ | $\begin{gathered} 6,948 \\ 78.49 \% \end{gathered}$ | $\begin{aligned} & 107,904 \\ & 80.70 \% \end{aligned}$ |
| Employed part-time (20-35 hrs/wk) | $\begin{aligned} & 2,413 \\ & 2.75 \% \end{aligned}$ | $\begin{array}{r} 1,868 \\ 9.43 \% \end{array}$ | $\begin{gathered} 1,257 \\ 7.21 \% \end{gathered}$ | $\begin{gathered} 625 \\ 7.06 \% \end{gathered}$ | $\begin{gathered} 6,163 \\ 4.61 \% \end{gathered}$ |
| Full-time or part-time student | $\begin{aligned} & 1,900 \\ & 2.17 \% \end{aligned}$ | $\begin{gathered} 1,580 \\ 7.98 \% \end{gathered}$ | $\begin{gathered} 1,128 \\ 6.47 \% \end{gathered}$ | $\begin{gathered} 420 \\ 4.75 \% \end{gathered}$ | $\begin{gathered} 5,028 \\ 3.76 \% \end{gathered}$ |
| Self-employed outside the home | $\begin{aligned} & 1,910 \\ & 2.18 \% \end{aligned}$ | $\begin{gathered} 1,221 \\ 6.16 \% \end{gathered}$ | $\begin{gathered} 699 \\ 4.01 \% \end{gathered}$ | $\begin{gathered} 293 \\ 3.31 \% \end{gathered}$ | $\begin{gathered} 4,124 \\ 3.08 \% \end{gathered}$ |
| Retired | $\begin{gathered} 589 \\ 0.67 \% \end{gathered}$ | $\begin{gathered} 1,487 \\ 7.50 \% \end{gathered}$ | $\begin{gathered} 584 \\ 3.35 \% \end{gathered}$ | $\begin{gathered} 77 \\ 0.87 \% \end{gathered}$ | $\begin{array}{r} 2,737 \\ 2.05 \% \end{array}$ |
| Unemployed | $\begin{gathered} 715 \\ 0.82 \% \end{gathered}$ | $\begin{gathered} 1,117 \\ 5.64 \% \end{gathered}$ | $\begin{gathered} 615 \\ 3.53 \% \end{gathered}$ | $\begin{gathered} 190 \\ 2.15 \% \end{gathered}$ | $\begin{aligned} & 2,638 \\ & 1.97 \% \end{aligned}$ |
| Employed part-time (less than $20 \mathrm{hrs} / \mathrm{wk}$ ) | $\begin{gathered} 768 \\ 0.88 \% \end{gathered}$ | $\begin{gathered} 915 \\ 4.62 \% \end{gathered}$ | $\begin{gathered} 584 \\ 3.35 \% \end{gathered}$ | $\begin{gathered} 221 \\ 2.49 \% \end{gathered}$ | $\begin{gathered} 2,488 \\ 1.86 \% \end{gathered}$ |
| Self-employed at home | $\begin{gathered} 495 \\ 0.57 \% \end{gathered}$ | $\begin{gathered} 873 \\ 4.41 \% \end{gathered}$ | $\begin{gathered} 423 \\ 2.43 \% \end{gathered}$ | $\begin{gathered} 52 \\ 0.58 \% \end{gathered}$ | $\begin{aligned} & 1,843 \\ & 1.38 \% \end{aligned}$ |
| Homemaker | $\begin{gathered} 190 \\ 0.22 \% \end{gathered}$ | $\begin{gathered} 349 \\ 1.76 \% \end{gathered}$ | $\begin{gathered} 224 \\ 1.28 \% \end{gathered}$ | $\begin{gathered} 26 \\ 0.29 \% \end{gathered}$ | $\begin{gathered} 789 \\ 0.59 \% \end{gathered}$ |
| Total | 87,617 | 19,815 | 17,430 | 8,851 | 133,714 |

### 7.14.2 Weekend Riders - Current Employment Status

The majority of weekend riders reported being employed full-time (63\%), although at a much lower rate than weekday riders (81\%). More weekend riders reported being full or part time students ( $9 \%$, vs. $4 \%$ on weekdays).

| Q35. Current Employment Status | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 5,764 | 4,746 | 10,510 |
| Total Answering | 58,761 | 51,510 | 110,271 |
| Employed full-time (35+ hrs/wk) | $\begin{gathered} 36,378 \\ 61.91 \% \end{gathered}$ | $\begin{gathered} 32,713 \\ 63.51 \% \end{gathered}$ | $\begin{array}{r} 69,092 \\ 62.66 \% \end{array}$ |
| Full-time or part-time student | $\begin{array}{r} 5,465 \\ 9.30 \% \end{array}$ | $\begin{gathered} 4,112 \\ 7.98 \% \end{gathered}$ | $\begin{array}{r} 9,577 \\ 8.68 \% \end{array}$ |
| Employed part-time (20-35 hrs/wk) | $\begin{array}{r} 4,931 \\ 8.39 \% \end{array}$ | $\begin{array}{r} 3,710 \\ 7.20 \% \end{array}$ | $\begin{gathered} 8,641 \\ 7.84 \% \end{gathered}$ |
| Retired | $\begin{array}{r} 2,700 \\ 4.60 \% \end{array}$ | $\begin{gathered} 2,569 \\ 4.99 \% \end{gathered}$ | $\begin{array}{r} 5,269 \\ 4.78 \% \end{array}$ |
| Unemployed | $\begin{array}{r} 2,730 \\ 4.65 \% \end{array}$ | $\begin{gathered} 2,304 \\ 4.47 \% \end{gathered}$ | $\begin{gathered} 5,033 \\ 4.56 \% \end{gathered}$ |
| Self-employed outside the home | $\begin{gathered} 2,180 \\ 3.71 \% \end{gathered}$ | $\begin{gathered} 2,135 \\ 4.15 \% \end{gathered}$ | $\begin{gathered} 4,315 \\ 3.91 \% \end{gathered}$ |
| Employed part-time (less than $20 \mathrm{hrs} / \mathrm{wk}$ ) | $\begin{aligned} & 2,005 \\ & 3.41 \% \end{aligned}$ | $\begin{gathered} 1,663 \\ 3.23 \% \end{gathered}$ | $\begin{array}{r} 3,668 \\ 3.33 \% \end{array}$ |
| Self-employed at home | $\begin{aligned} & 1,485 \\ & 2.53 \% \end{aligned}$ | $\begin{aligned} & 1,565 \\ & 3.04 \% \end{aligned}$ | $\begin{array}{r} 3,050 \\ 2.77 \% \end{array}$ |
| Homemaker | $\begin{gathered} 887 \\ 1.51 \% \end{gathered}$ | $\begin{gathered} 739 \\ 1.44 \% \end{gathered}$ | $\begin{aligned} & 1,627 \\ & 1.48 \% \end{aligned}$ |
| Total | 58,761 | 51,510 | 110,271 |

### 7.15 Type of Job or Occupation ${ }^{59}$

### 7.15.1 Weekday Riders - Type of Job or Occupation

Most weekday riders reported being employed in either a professional, technical \& related field (47\%), or an executive, administrative \& managerial field (33\%). Executive, administrative \& managerial fields were more frequently reported in the AM Peak (38\%) compared to the other weekday dayparts (between $21 \%$ and $23 \%$, depending on daypart).

| Q36. Type of Job or Occupation | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 36,476 | 5,463 | 3,921 | 2,060 | 47,920 |
| Weighted Base | 86,123 | 16,862 | 16,007 | 8,558 | 127,550 |
| No Answer | 2,232 | 1,391 | 1,252 | 627 | 5,502 |
| Total Answering | 83,890 | 15,471 | 14,755 | 7,932 | 122,048 |
| Professional, technical \& related | $\begin{array}{r} 40,198 \\ 47.92 \% \end{array}$ | $\begin{gathered} 7,033 \\ 45.46 \% \end{gathered}$ | $\begin{gathered} 7,253 \\ 49.15 \% \end{gathered}$ | $\begin{gathered} 3,176 \\ 40.04 \% \end{gathered}$ | $\begin{array}{r} 57,658 \\ 47.24 \% \end{array}$ |
| Executive, administrative \& managerial | 32,071 <br> 38.23\% | $\begin{gathered} 3,535 \\ 22.85 \% \end{gathered}$ | $\begin{gathered} 3,044 \\ 20.63 \% \end{gathered}$ | $\begin{gathered} 1,795 \\ 22.63 \% \end{gathered}$ | $\begin{array}{r} 40,445 \\ 33.14 \% \end{array}$ |
| Sales | $\begin{array}{r} 4,396 \\ 5.24 \% \end{array}$ | $\begin{gathered} 1,657 \\ 10.71 \% \end{gathered}$ | $\begin{gathered} 1,008 \\ 6.83 \% \end{gathered}$ | $\begin{gathered} 821 \\ 10.36 \% \end{gathered}$ | $\begin{gathered} 7,883 \\ 6.46 \% \end{gathered}$ |
| Service occupations | $\begin{aligned} & 2,050 \\ & 2.44 \% \end{aligned}$ | $\begin{gathered} 1,539 \\ 9.95 \% \end{gathered}$ | $\begin{array}{r} 1,214 \\ 8.23 \% \end{array}$ | $\begin{gathered} 760 \\ 9.58 \% \end{gathered}$ | $\begin{array}{r} 5,563 \\ 4.56 \% \end{array}$ |
| Administrative support, including clerical | $\begin{array}{r} 3,373 \\ 4.02 \% \end{array}$ | $\begin{gathered} 607 \\ 3.92 \% \end{gathered}$ | $\begin{array}{r} 1,078 \\ 7.31 \% \end{array}$ | $\begin{gathered} 399 \\ 5.03 \% \end{gathered}$ | $\begin{array}{r} 5,456 \\ 4.47 \% \end{array}$ |
| General labor | $\begin{gathered} 852 \\ 1.02 \% \end{gathered}$ | $\begin{gathered} 683 \\ 4.42 \% \end{gathered}$ | $\begin{gathered} 797 \\ 5.40 \% \end{gathered}$ | $\begin{gathered} 557 \\ 7.02 \% \end{gathered}$ | $\begin{gathered} 2,889 \\ 2.37 \% \end{gathered}$ |
| Transportation \& material moving | $\begin{gathered} 320 \\ 0.38 \% \end{gathered}$ | $\begin{gathered} 208 \\ 1.35 \% \end{gathered}$ | $\begin{gathered} 140 \\ 0.95 \% \end{gathered}$ | $\begin{gathered} 185 \\ 2.34 \% \end{gathered}$ | $\begin{gathered} 853 \\ 0.70 \% \end{gathered}$ |
| Precision production craft \& repair | $\begin{gathered} 376 \\ 0.45 \% \end{gathered}$ | $\begin{gathered} 107 \\ 0.69 \% \end{gathered}$ | $\begin{gathered} 113 \\ 0.77 \% \end{gathered}$ | $\begin{gathered} 96 \\ 1.20 \% \end{gathered}$ | $\begin{gathered} 693 \\ 0.57 \% \end{gathered}$ |
| Machine operators, assemblers \& inspectors | $\begin{gathered} 255 \\ 0.30 \% \end{gathered}$ | $\begin{gathered} 102 \\ 0.66 \% \end{gathered}$ | $\begin{gathered} 108 \\ 0.73 \% \end{gathered}$ | $\begin{gathered} 143 \\ 1.81 \% \end{gathered}$ | $\begin{gathered} 607 \\ 0.50 \% \end{gathered}$ |
| Total | 83,890 | 15,471 | 14,755 | 7,932 | 122,048 |

[^37]
### 7.15.2 Weekend Riders - Type of Job or Occupation

Similar to weekday riders, a little under half of weekend riders reported working in a professional, technical \& related field (46\%). Sales and service occupations were more prevalent for weekend riders ( $10 \%$ each vs. $5 \%-6 \%$ for weekday riders) while executive, administrative \& managerial positions were less commonly reported ( $20 \%$ vs. $33 \%$ in the weekday).

| Q36. Type of Job or <br> Occupation | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 13,553 | 11,317 | 24,870 |
| Weighted Base | 52,444 | 45,898 | 98,343 |
| No Answer | 5,020 | 3,756 | 8,777 |
| Total Answering | 47,424 | 42,142 | 89,566 |
| Professional, technical \& | 21,814 | 19,494 | 41,308 |
| related | $46.00 \%$ | $46.26 \%$ | $46.12 \%$ |
| Executive, administrative \& | 9,492 | 8,828 | 18,320 |
| managerial | $20.01 \%$ | $20.95 \%$ | $20.45 \%$ |
| Sales | 4,901 | 4,106 | 9,007 |
| Service occupations | $10.33 \%$ | $9.74 \%$ | $10.06 \%$ |
| Total | 4,815 | 4,190 | 9,005 |
| General labor | $10.15 \%$ | $9.94 \%$ | $10.05 \%$ |
| Administrative support, | 2,724 | 2,233 | 4,958 |
| including clerical | 57,424 | 42,142 | 89,566 |
| Precision production craft \& | 2,295 | $5.30 \%$ | $5.54 \%$ |
| repair | $4.84 \%$ | 1,992 | 4,286 |
| Transportation \& material | $0.94 \%$ | $4.73 \%$ | $4.79 \%$ |
| moving | 507 | 480 | 923 |
| assemblers \& inspectors | $1.07 \%$ | $414 \%$ | $1.03 \%$ |
|  | 432 | $0.98 \%$ | 922 |

### 7.16 Industry ${ }^{60}$

### 7.16.1 Weekday Riders - Industry

AM Peak (30\%), PM Reverse Peak (16\%), and Late Night Off Peak (21\%) riders most frequently reported working in the financial activities industry. Among Midday Off Peak riders, professional / business services was the most common employment industry reported (21\%).

| Q37. Industry | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 36,476 | 5,463 | 3,921 | 2,060 | 47,920 |
| Weighted Base | 86,123 | 16,862 | 16,007 | 8,558 | 127,550 |
| No Answer | 2,181 | 1,161 | 997 | 493 | 4,832 |
| Total Answering | 83,942 | 15,701 | 15,010 | 8,065 | 122,718 |
| Financial activities | 25,086 | 1,755 | 2,434 | 1,684 | 30,959 |
|  | 29.88\% | 11.18\% | 16.22\% | 20.88\% | 25.23\% |
| Professional / Business services | 18,016 | 3,294 | 2,179 | 755 | 24,244 |
|  | 21.46\% | 20.98\% | 14.52\% | 9.36\% | 19.76\% |
| Health services / Health care | 6,803 | 1,820 | 2,178 | 940 | 11,741 |
|  | 8.10\% | 11.59\% | 14.51\% | 11.65\% | 9.57\% |
| Education | 4,499 | 1,786 | 1,630 | 631 | 8,546 |
|  | 5.36\% | 11.37\% | 10.86\% | 7.83\% | 6.96\% |
| Information | 4,638 | 1,007 | 622 | 175 | 6,442 |
|  | 5.53\% | 6.41\% | 4.14\% | 2.17\% | 5.25\% |
| Retail trade | 3,186 | 1,198 | 826 | 729 | 5,940 |
|  | 3.80\% | 7.63\% | 5.51\% | 9.04\% | 4.84\% |
| Leisure and hospitality | 2,423 | 1,661 | 934 | 583 | 5,601 |
|  | 2.89\% | 10.58\% | 6.22\% | 7.23\% | 4.56\% |
| Government | 3,324 | 475 | 630 | 481 | 4,910 |
|  | 3.96\% | 3.03\% | 4.20\% | 5.96\% | 4.00\% |
| Construction | 3,037 | 492 | 658 | 612 | 4,799 |
|  | 3.62\% | 3.14\% | 4.38\% | 7.58\% | 3.91\% |

[^38]| Q37. Industry | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Manufacturing | 1,645 | 216 | 468 | 191 | 2,519 |
| Transportation and utilities | $1.96 \%$ | $1.37 \%$ | $3.12 \%$ | $2.37 \%$ | $2.05 \%$ |
| Wholesale trade | 1,274 | 329 | 295 | 314 | 2,213 |
| Natural resources / Mining | $1.52 \%$ | $2.10 \%$ | $1.97 \%$ | $3.90 \%$ | $1.80 \%$ |
| Other services | 1,388 | 256 | 214 | 126 | 1,984 |
| Total | $1.65 \%$ | $1.63 \%$ | $1.42 \%$ | $1.56 \%$ | $1.62 \%$ |

### 7.16.2 Weekend Riders - Industry

Professional / business services and health care services (around 15\% each) were the two most frequently reported employment industries for weekend riders. Education (13\%) and financial activities (11\%) were the third and fourth most commonly mentioned industries for weekend riders, respectively.

| Q37. Industry | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 13,553 | 11,317 | 24,870 |
| Weighted Base | 52,444 | 45,898 | 98,343 |
| No Answer | 4,397 | 2,964 | 7,362 |
| Total Answering | 48,047 | 42,934 | 90,981 |
| Professional / Business services | $\begin{gathered} 6,862 \\ 14.28 \% \end{gathered}$ | $\begin{gathered} 7,015 \\ 16.34 \% \end{gathered}$ | $\begin{array}{r} 13,877 \\ 15.25 \% \end{array}$ |
| Health services / Health care | $\begin{gathered} 7,445 \\ 15.49 \% \end{gathered}$ | $\begin{array}{r} 5,773 \\ 13.45 \% \end{array}$ | $\begin{aligned} & 13,218 \\ & 14.53 \% \end{aligned}$ |
| Education | $\begin{array}{r} 6,941 \\ 14.45 \% \end{array}$ | $\begin{array}{r} 5,267 \\ 12.27 \% \end{array}$ | $\begin{array}{r} 12,208 \\ 13.42 \% \end{array}$ |
| Financial activities | $\begin{array}{r} 4,852 \\ 10.10 \% \end{array}$ | $\begin{array}{r} 4,916 \\ 11.45 \% \end{array}$ | $\begin{gathered} 9,768 \\ 10.74 \% \end{gathered}$ |
| Retail trade | $\begin{array}{r} 3,995 \\ 8.31 \% \end{array}$ | $\begin{array}{r} 3,344 \\ 7.79 \% \end{array}$ | $\begin{aligned} & 7,339 \\ & 8.07 \% \end{aligned}$ |
| Leisure and hospitality | $\begin{array}{r} 3,326 \\ 6.92 \% \end{array}$ | $\begin{array}{r} 3,101 \\ 7.22 \% \end{array}$ | $\begin{array}{r} 6,427 \\ 7.06 \% \end{array}$ |
| Information | $\begin{aligned} & 2,010 \\ & 4.18 \% \end{aligned}$ | $\begin{gathered} 1,996 \\ 4.65 \% \end{gathered}$ | $\begin{aligned} & 4,006 \\ & 4.40 \% \end{aligned}$ |
| Construction | $\begin{gathered} 2,113 \\ 4.40 \% \end{gathered}$ | $\begin{aligned} & 1,670 \\ & 3.89 \% \end{aligned}$ | $\begin{gathered} 3,783 \\ 4.16 \% \end{gathered}$ |
| Government | $\begin{gathered} 2,038 \\ 4.24 \% \end{gathered}$ | $\begin{array}{r} 1,701 \\ 3.96 \% \end{array}$ | $\begin{array}{r} 3,739 \\ 4.11 \% \end{array}$ |
| Manufacturing | $\begin{gathered} 981 \\ 2.04 \% \end{gathered}$ | $\begin{gathered} 876 \\ 2.04 \% \end{gathered}$ | $\begin{gathered} 1,857 \\ 2.04 \% \end{gathered}$ |


| Q37. Industry | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Transportation and utilities | 978 | 749 | 1,727 |
| Wholesale trade | $2.04 \%$ | $1.74 \%$ | $1.90 \%$ |
| Natural resources / Mining | 616 | 570 | 1,186 |
|  | $1.28 \%$ | $1.33 \%$ | $1.30 \%$ |
| Other services | 222 | 209 | 431 |
| Total | $0.46 \%$ | $0.49 \%$ | $0.47 \%$ |

### 7.17 Telecommuting ${ }^{6162}$

### 7.17.1 Weekday Riders - Telecommuting

Half of weekday riders reported being allowed to telecommute for work. This percentage was higher for AM Peak riders (54\%) and lower for riders in other weekday dayparts, from 45\% for Midday Off Peak riders down to $35 \%$ for Late Night Off Peak riders.

| Q38. Telecommuting | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 36,476 | 5,463 | 3,921 | 2,060 | 47,920 |
| Weighted Base | 86,123 | 16,862 | 16,007 | 8,558 | 127,550 |
| No Answer | 2,571 | 1,726 | 1,369 | 529 | 6,195 |
| Total Answering | 83,552 | 15,136 | 14,638 | 8,029 | 121,355 |
| Allowed to telecommute | 45,330 | 6,729 | 5,954 | 2,806 | 60,820 |
| Not allowed to telecommute | $54.25 \%$ | $44.46 \%$ | $40.68 \%$ | $34.95 \%$ | $50.12 \%$ |
| Total | 38,222 | 8,407 | 8,684 | 5,223 | 60,535 |

${ }^{61}$ Only respondents who indicated that they were employed qualified for this question.
${ }^{62}$ All respondents were asked about telecommuting availability. This section includes responses for all trip purposes, not just respondents who are commuting to/from work.

### 7.17.2 Weekend Riders - Telecommuting

The majority of riders who were surveyed on weekends (64\%) stated that they were not allowed to telecommute for work.

| Q38. Telecommuting | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 13,553 | 11,317 | 24,870 |
| Weighted Base | 52,444 | 45,898 | 98,343 |
| No Answer | 5,309 | 4,233 | 9,542 |
| Total Answering | 47,135 | 41,665 | 88,801 |
|  | 30,778 | 26,378 | 57,156 |
| Not allowed to telecommute | $65.30 \%$ | $63.31 \%$ | $64.36 \%$ |
| Allowed to telecommute | 16,357 | 15,288 | 31,645 |
| Total | $34.70 \%$ | $36.69 \%$ | $35,64 \%$ |

### 7.18 Telecommuting Frequency

### 7.18.1 Weekday Riders - Telecommuting Frequency

Of those weekday riders who reported being able to telecommute, nearly four-fifths (79\%) stated that they did so 1 day per week or less. A smaller portion of AM Peak riders (4\%) telecommuted 5 or more days per week compared to riders in the other dayparts (ranging from 9\% in the Late Night Off Peak to $19 \%$ in the Midday Off Peak).

| Q38A. Telecommuting Frequency | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 19,452 | 2,272 | 1,532 | 749 | 24,005 |
| Weighted Base | 45,330 | 6,729 | 5,954 | 2,806 | 60,820 |
| No Answer | 1,599 | 519 | 300 | 86 | 2,504 |
| Total Answering | 43,731 | 6,210 | 5,655 | 2,720 | 58,316 |
| 5 or more days per week | $\begin{gathered} 1,563 \\ 3.57 \% \end{gathered}$ | $\begin{gathered} 1,162 \\ 18.71 \% \end{gathered}$ | $\begin{gathered} 783 \\ 13.85 \% \end{gathered}$ | $\begin{gathered} 248 \\ 9.10 \% \end{gathered}$ | $\begin{gathered} 3,755 \\ 6.44 \% \end{gathered}$ |
| 4 days per week | $\begin{gathered} 418 \\ 0.96 \% \end{gathered}$ | $\begin{gathered} 205 \\ 3.30 \% \end{gathered}$ | $\begin{gathered} 142 \\ 2.51 \% \end{gathered}$ | $\begin{gathered} 52 \\ 1.90 \% \end{gathered}$ | $\begin{gathered} 816 \\ 1.40 \% \end{gathered}$ |
| 3 days per week | $\begin{gathered} 1,357 \\ 3.10 \% \end{gathered}$ | $\begin{gathered} 571 \\ 9.19 \% \end{gathered}$ | $\begin{gathered} 353 \\ 6.24 \% \end{gathered}$ | $\begin{gathered} 130 \\ 4.78 \% \end{gathered}$ | $\begin{array}{r} 2,411 \\ 4.13 \% \end{array}$ |
| 2 days per week | $\begin{array}{r} 3,859 \\ 8.82 \% \end{array}$ | $\begin{gathered} 786 \\ 12.66 \% \end{gathered}$ | $\begin{gathered} 543 \\ 9.61 \% \end{gathered}$ | $\begin{gathered} 234 \\ 8.59 \% \end{gathered}$ | $\begin{gathered} 5,422 \\ 9.30 \% \end{gathered}$ |
| 1 day per week | $\begin{gathered} 9,512 \\ 21.75 \% \end{gathered}$ | $\begin{array}{r} 1,039 \\ 16.73 \% \end{array}$ | $\begin{gathered} 963 \\ 17.03 \% \end{gathered}$ | $\begin{gathered} 504 \\ 18.53 \% \end{gathered}$ | $\begin{gathered} 12,018 \\ 20.61 \% \end{gathered}$ |
| Less than 1 day per week but more than 1 day per month | 11,704 <br> 26.76\% | $\begin{array}{r} 1,060 \\ 17.07 \% \end{array}$ | $\begin{gathered} 1,060 \\ 18.75 \% \end{gathered}$ | $\begin{gathered} 472 \\ 17.37 \% \end{gathered}$ | $14,296$ <br> 24.52\% |
| 1 day per month or less | 12,394 28.34\% | $\begin{gathered} 825 \\ 13.28 \% \end{gathered}$ | $\begin{gathered} 1,055 \\ 18.66 \% \end{gathered}$ |  | $14,939$ <br> 25.62\% |
| Never | $\begin{array}{r} 2,924 \\ 6.69 \% \end{array}$ | $\begin{gathered} 562 \\ 9.05 \% \end{gathered}$ | $\begin{gathered} 755 \\ 13.36 \% \end{gathered}$ | $\begin{gathered} 416 \\ 15.30 \% \end{gathered}$ | $\begin{gathered} 4,658 \\ 7.99 \% \end{gathered}$ |
| Total | 43,731 | 6,210 | 5,655 | 2,720 | 58,316 |

### 7.18.2 Weekend Riders - Telecommuting Frequency

Roughly two-thirds of weekend riders that stated they were able to telecommute, reported a telecommuting schedule of 1 day per week or less. A telecommuting schedule of 5 or more days per week was much more prevalent for all weekend riders compared to weekday riders ( $18 \% \mathrm{vs} .6 \%$ ).

| Q38A. Telecommuting Frequency | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 4,391 | 3,954 | 8,345 |
| Weighted Base | 16,357 | 15,288 | 31,645 |
| No Answer | 995 | 866 | 1,860 |
| Total Answering | 15,363 | 14,422 | 29,785 |
| 5 or more days per week | $\begin{gathered} 2,764 \\ 17.99 \% \end{gathered}$ | $\begin{gathered} 2,537 \\ 17.59 \% \end{gathered}$ | $\begin{gathered} 5,301 \\ 17.80 \% \end{gathered}$ |
| 4 days per week | $\begin{gathered} 443 \\ 2.88 \% \end{gathered}$ | $\begin{gathered} 399 \\ 2.76 \% \end{gathered}$ | $\begin{gathered} 842 \\ 2.83 \% \end{gathered}$ |
| 3 days per week | $\begin{gathered} 924 \\ 6.01 \% \end{gathered}$ | $\begin{gathered} 722 \\ 5.01 \% \end{gathered}$ | $\begin{array}{r} 1,646 \\ 5.53 \% \end{array}$ |
| 2 days per week | $\begin{array}{r} 1,428 \\ 9.29 \% \end{array}$ | $\begin{aligned} & 1,283 \\ & 8.90 \% \end{aligned}$ | $\begin{array}{r} 2,711 \\ 9.10 \% \end{array}$ |
| 1 day per week | $\begin{gathered} 2,266 \\ 14.75 \% \end{gathered}$ | $\begin{gathered} 2,193 \\ 15.20 \% \end{gathered}$ | $\begin{gathered} 4,458 \\ 14.97 \% \end{gathered}$ |
| Less than 1 day per week but more than 1 day per month | $\begin{gathered} 2,515 \\ 16.37 \% \end{gathered}$ | $\begin{gathered} 2,455 \\ 17.02 \% \end{gathered}$ | $\begin{gathered} 4,970 \\ 16.69 \% \end{gathered}$ |
| 1 day per month or less | $\begin{gathered} 2,729 \\ 17.76 \% \end{gathered}$ | $\begin{gathered} 2,895 \\ 20.08 \% \end{gathered}$ | $\begin{gathered} 5,624 \\ 18.88 \% \end{gathered}$ |
| Never | $\begin{gathered} 2,295 \\ 14.94 \% \end{gathered}$ | $\begin{gathered} 1,938 \\ 13.44 \% \end{gathered}$ | $\begin{gathered} 4,233 \\ 14.21 \% \end{gathered}$ |
| Total | 15,363 | 14,422 | 29,785 |

### 7.19 Household Size

Two-person households were most frequently reported for both weekday and weekend riders (29\% and $32 \%$, respectively). The second most commonly reported household size was a four-person household for weekday riders (24\%) and single person household for weekend riders (19\%).

| Q39. Household Size | AM Peak | Weekday Total | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 52,989 | 30,322 |
| Weighted Base | 91,942 | 142,711 | 120,781 |
| No Answer | 5,990 | 11,892 | 15,233 |
| Total Answering | 85,952 | 130,819 | 105,548 |
| 1 | 7,534 | 14,648 | 20,157 |
|  | 8.77\% | 11.20\% | 19.10\% |
| 2 | 24,445 | 38,519 | 34,294 |
|  | 28.44\% | 29.44\% | 32.49\% |
| 3 | 17,599 | 26,409 | 19,256 |
|  | 20.48\% | 20.19\% | 18.24\% |
| 4 | 22,653 | 31,030 | 17,192 |
|  | 26.36\% | 23.72\% | 16.29\% |
| 5 or more | 13,721 | 20,213 | 14,649 |
|  | 15.96\% | 15.45\% | 13.88\% |
| Total | 85,952 | 130,819 | 105,548 |

### 7.20 Number of Employed People in Household

The majority of weekday riders (51\%) reported having two employed people living in their household, while about $42 \%$ of weekend riders reported the same. Another $31 \%$ of both weekday and weekend riders indicated only one employed person living in the household.

| Q40. Number of Employed People in Household | AM Peak | Weekday Total | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 52,989 | 30,322 |
| Weighted Base | 91,942 | 142,711 | 120,781 |
| No Answer | 7,138 | 14,778 | 17,549 |
| Total Answering | 84,804 | 127,933 | 103,232 |
| 0 | $\begin{gathered} 843 \\ 0.99 \% \end{gathered}$ | $\begin{aligned} & 2,722 \\ & 2.13 \% \end{aligned}$ | $\begin{gathered} 5,072 \\ 4.91 \% \end{gathered}$ |
| 1 | $\begin{array}{r} 26,092 \\ 30.77 \% \end{array}$ | $\begin{array}{r} 39,694 \\ 31.03 \% \end{array}$ | $\begin{gathered} 31,839 \\ 30.84 \% \end{gathered}$ |
| 2 | $\begin{array}{r} 45,880 \\ 54.10 \% \end{array}$ | $\begin{gathered} 64,883 \\ 50.72 \% \end{gathered}$ | $\begin{array}{r} 43,284 \\ 41.93 \% \end{array}$ |
| 3 | $\begin{gathered} 8,257 \\ 9.74 \% \end{gathered}$ | $\begin{array}{r} 13,768 \\ 10.76 \% \end{array}$ | $\begin{gathered} 14,566 \\ 14.11 \% \end{gathered}$ |
| 4 | $\begin{array}{r} 2,840 \\ 3.35 \% \end{array}$ | $\begin{array}{r} 5,137 \\ 4.02 \% \end{array}$ | $\begin{array}{r} 5,962 \\ 5.78 \% \end{array}$ |
| 5 or more | $\begin{gathered} 891 \\ 1.05 \% \end{gathered}$ | $\begin{aligned} & 1,729 \\ & 1.35 \% \end{aligned}$ | $\begin{aligned} & 2,509 \\ & 2.43 \% \end{aligned}$ |
| Total | 84,804 | 127,933 | 103,232 |

### 7.21 Household Income

### 7.21.1 Weekday Riders - Household Income

Just over two-thirds of weekday riders (68\%) reported a household income of \$100,000 or more. Riders in the AM Peak more frequently reported household incomes in the $\$ 100,000$ or more group (78\%) than riders from any other weekday daypart (ranging from about $46 \%$ to $54 \%$ ). About $13 \%$ of weekday riders reported household incomes of $\$ 50,000$ or less, with that percentage being highest during PM Reverse Peak and Late Night Off Peak (both at 27\%).

| Q41. Household Income | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 17,690 | 5,605 | 4,351 | 1,979 | 29,625 |
| Total Answering | 74,252 | 16,301 | 14,908 | 7,625 | 113,086 |
| Less than \$11,500 | 661 | 864 | 765 | 302 | 2,592 |
|  | 0.89\% | 5.30\% | 5.13\% | 3.96\% | 2.29\% |
| \$11,500-\$12,499 | 154 | 241 | 234 | 93 | 722 |
|  | 0.21\% | 1.48\% | 1.57\% | 1.22\% | 0.64\% |
| \$12,500-\$15,799 | 175 | 150 | 124 | 98 | 547 |
|  | 0.24\% | 0.92\% | 0.83\% | 1.28\% | 0.48\% |
| \$15,800-\$19,799 | 150 | 163 | 180 | 96 | 589 |
|  | 0.20\% | 1.00\% | 1.21\% | 1.26\% | 0.52\% |
| \$19,800-\$23,799 | 233 | 209 | 290 | 132 | 865 |
|  | 0.31\% | 1.28\% | 1.95\% | 1.73\% | 0.76\% |
| \$23,800-\$24,999 | 243 | 184 | 252 | 152 | 831 |
|  | 0.33\% | 1.13\% | 1.69\% | 1.99\% | 0.74\% |
| \$25,000-\$27,999 | 264 | 227 | 287 | 159 | 938 |
|  | 0.36\% | 1.39\% | 1.93\% | 2.09\% | 0.83\% |
| \$28,000-\$31,999 | 285 | 259 | 325 | 265 | 1,135 |
|  | 0.38\% | 1.59\% | 2.18\% | 3.47\% | 1.00\% |
| \$32,000-\$35,999 | 388 | 301 | 342 | 155 | 1,187 |
|  | 0.52\% | 1.85\% | 2.29\% | 2.04\% | 1.05\% |


| Q41. Household Income | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| \$36,000-\$39,999 | 572 | 355 | 413 | 149 | 1,490 |
|  | 0.77\% | 2.18\% | 2.77\% | 1.95\% | 1.32\% |
| \$40,000-\$49,999 | 1,515 | 822 | 834 | 461 | 3,631 |
|  | 2.04\% | 5.04\% | 5.59\% | 6.04\% | 3.21\% |
| \$50,000-\$74,999 | 4,988 | 1,865 | 2,219 | 865 | 9,937 |
|  | 6.72\% | 11.44\% | 14.88\% | 11.34\% | 8.79\% |
| \$75,000-\$99,999 | 6,745 | 1,790 | 1,853 | 968 | 11,356 |
|  | 9.08\% | 10.98\% | 12.43\% | 12.70\% | 10.04\% |
| \$100,000-\$199,999 | 23,412 | 4,384 | 4,052 | 1,812 | 33,660 |
|  | 31.53\% | 26.89\% | 27.18\% | 23.77\% | 29.77\% |
| \$200,000-\$299,999 | 13,352 | 1,845 | 1,246 | 712 | 17,156 |
|  | 17.98\% | 11.32\% | 8.36\% | 9.34\% | 15.17\% |
| \$300,000 or more | 21,114 | 2,640 | 1,491 | 1,206 | 26,451 |
|  | 28.44\% | 16.20\% | 10.00\% | 15.81\% | 23.39\% |
| Total | 74,252 | 16,301 | 14,908 | 7,625 | 113,086 |

### 7.21.2 Weekend Riders - Household Income

As with weekdays, weekend riders most commonly indicated having household incomes in the $\$ 100,000-\$ 199,999$ range ( $27 \%$ for weekend riders and $30 \%$ for weekday riders). However, the household incomes for weekend riders were generally lower than that of weekday riders, with over half of weekend riders (54\%) reporting household incomes below $\$ 100,000$ (compared to $32 \%$ of weekday riders).

| Q41. Household Income | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 16,598 | 13,428 | 30,026 |
| Total Answering | 47,927 | 42,828 | 90,755 |
| Less than \$11,500 | 2,757 | 2,369 | 5,126 |
|  | 5.75\% | 5.53\% | 5.65\% |
| \$11,500-\$12,499 | 669 | 641 | 1,310 |
|  | 1.39\% | 1.50\% | 1.44\% |
| \$12,500-\$15,799 | 644 | 541 | 1,185 |
|  | 1.34\% | 1.26\% | 1.31\% |
| \$15,800-\$19,799 | 712 | 538 | 1,250 |
|  | 1.49\% | 1.26\% | 1.38\% |
| \$19,800-\$23,799 | 799 | 815 | 1,614 |
|  | 1.67\% | 1.90\% | 1.78\% |
| \$23,800-\$24,999 | 789 | 586 | 1,375 |
|  | 1.65\% | 1.37\% | 1.51\% |
| \$25,000-\$27,999 | 809 | 864 | 1,674 |
|  | 1.69\% | 2.02\% | 1.84\% |
| \$28,000-\$31,999 | 870 | 729 | 1,599 |
|  | 1.82\% | 1.70\% | 1.76\% |
| \$32,000- \$35,999 | 1,108 | 1,035 | 2,144 |
|  | 2.31\% | 2.42\% | 2.36\% |
| \$36,000-\$39,999 | 1,321 | 1,166 | 2,488 |
|  | 2.76\% | 2.72\% | 2.74\% |


| Q41. Household Income | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| \$40,000-\$49,999 | 2,773 | 2,387 | 5,160 |
|  | 5.79\% | 5.57\% | 5.69\% |
| \$50,000-\$74,999 | 6,421 | 6,164 | 12,585 |
|  | 13.40\% | 14.39\% | 13.87\% |
| \$75,000-\$99,999 | 6,208 | 5,614 | 11,822 |
|  | 12.95\% | 13.11\% | 13.03\% |
| \$100,000-\$199,999 | 13,409 | 11,490 | 24,900 |
|  | 27.98\% | 26.83\% | 27.44\% |
| \$200,000-\$299,999 | 3,989 | 3,907 | 7,896 |
|  | 8.32\% | 9.12\% | 8.70\% |
| \$300,000 or more | 4,647 | 3,982 | 8,629 |
|  | 9.70\% | 9.30\% | 9.51\% |
| Total | 47,927 | 42,828 | 90,755 |

### 7.22 Credit or Debit Card Ownership

### 7.22.1 Weekday Riders - Credit or Debit Card Ownership

Close to all (97\%) weekday riders indicated ownership of a credit or debit card.

| Q42. Credit or Debit <br> Card Ownership | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 5,987 | 2,588 | 2,266 | 1,028 | 11,868 |
| Total Answering | 85,955 | 19,318 | 16,993 | 8,575 | 130,842 |
|  | 84,485 | 18,236 | 15,976 | 8,176 | 126,873 |
|  | $98.29 \%$ | $94.39 \%$ | $94.02 \%$ | $95.34 \%$ | $96.97 \%$ |
|  | 1,470 | 1,083 | 1,017 | 399 | 3,969 |

### 7.22.2 Weekend Riders - Credit or Debit Card Ownership

Most weekend riders (94\%) also indicated owning a credit or debit card.

| Q42. Credit or Debit <br> Card Ownership | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 7,155 | 5,758 | 12,913 |
| Total Answering | 57,370 | 50,498 | 107,869 |
| Yes | 53,923 | 47,843 | 101,766 |
| No | $93.99 \%$ | $94.74 \%$ | $94.34 \%$ |
| Total | 3,447 | 2,656 | 6,103 |

### 7.23 Gender

### 7.23.1 Weekday Riders - Gender

Slightly over half of weekday riders were male (54\%).

| Q43. Gender | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 4,931 | 1,903 | 1,869 | 850 | 9,553 |
| Total Answering | 87,011 | 20,003 | 17,390 | 8,753 | 133,158 |
| Male | 48,237 | 9,934 | 8,275 | 5,504 | 71,950 |
| Female | $55.44 \%$ | $49.66 \%$ | $47.58 \%$ | $62.88 \%$ | $54.03 \%$ |
| Total | 38,774 | 10,068 | 9,116 | 3,249 | 61,207 |

### 7.23.2 Weekend Riders - Gender

Resembling the gender distribution of weekday riders, roughly 55\% of weekend riders were male.

| Q43. Gender | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 6,693 | 5,292 | 11,985 |
| Total Answering | 57,832 | 50,965 | 108,797 |
| Male | 32,079 | 27,809 | 59,888 |
| Female | $55.47 \%$ | $54.57 \%$ | $55.05 \%$ |
| Total | 25,753 | 23,155 | 48,909 |

### 7.24 Age

### 7.24.1 Weekday Riders - Age ${ }^{63}$

The most frequently reported age range for weekday riders was the 35-54 year old group (47\%), with $25-34$ years old being the second most reported age range (21\%). The AM Peak had the lowest percentage of younger riders ages 18-24 (6\%), but the highest percentage of riders in the 35-54 age range (52\%).

| Q44. Age | AM Peak | Midday Off Peak | PM <br> Reverse <br> Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 9,874 | 3,195 | 2,953 | 1,162 | 17,184 |
| Total Answering | 82,068 | 18,711 | 16,307 | 8,441 | 125,526 |
| 18-24 | 5,307 | 3,216 | 3,047 | 1,326 | 12,896 |
|  | 6.47\% | 17.19\% | 18.68\% | 15.71\% | 10.27\% |
| 25-34 | 15,153 | 3,876 | 5,420 | 2,157 | 26,606 |
|  | 18.46\% | 20.71\% | 33.24\% | 25.56\% | 21.20\% |
| 35-54 | 42,894 | 6,696 | 5,338 | 3,565 | 58,492 |
|  | 52.27\% | 35.79\% | 32.73\% | 42.23\% | 46.60\% |
| 55-64 | 14,819 | 2,833 | 1,587 | 1,073 | 20,313 |
|  | 18.06\% | 15.14\% | 9.73\% | 12.71\% | 16.18\% |
| 65 and older | 3,895 | 2,090 | 915 | 320 | 7,220 |
|  | 4.75\% | 11.17\% | 5.61\% | 3.79\% | 5.75\% |
| Total | 82,068 | 18,711 | 16,307 | 8,441 | 125,526 |

[^39]
### 7.24.2 Weekend Riders - Age ${ }^{64}$

Weekend riders' ages were predominantly distributed in the three age ranges below 55 years old: 2534 was the most frequently reported ( $31 \%$ ), $35-54$ was the second most reported ( $29 \%$ ), and $18-24$ the third most reported ( $22 \%$ ). The proportion of younger riders (ages 18-24) on the weekend was more than double that of weekday riders ( $22 \%$ vs $10 \%$ ).

| Q44. Age | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 10,442 | 8,138 | 18,580 |
| Total Answering | 54,083 | 48,118 | 102,201 |
| $18-24$ | 11,863 | 10,344 | 22,207 |
| $25-34$ | $21.93 \%$ | $21.50 \%$ | $21.73 \%$ |
| $35-54$ | 16,616 | 15,203 | 31,819 |
| $55-64$ | $30.72 \%$ | $31.60 \%$ | $31.13 \%$ |
| 65 and older | 16,156 | 13,784 | 29,940 |
| Total | $29.87 \%$ | $28.65 \%$ | $29.30 \%$ |
|  | 5,821 | 5,107 | 10,928 |

[^40]
### 7.25 Race/Ethnicity

### 7.25.1 Weekday Riders - Hispanic/Latino/Spanish Origin

Overall, $14 \%$ of weekday respondents were of Hispanic/Latino/Spanish origin. The proportion of Hispanic/Latino/Spanish riders increased throughout the weekday dayparts, with $11 \%$ among AM Peak riders and 23\% among Late Night Off Peak riders.

| Q45. Hispanic, Latino or <br> Spanish Origin? | AM Peak | Midday Off <br> Peak | PM <br> Reverse <br> Peak | Late Night <br> Off Peak | Weekday <br> Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 10,093 | 3,149 | 2,933 | 1,420 | 17,594 |
| Total Answering | 81,849 | 18,758 | 16,327 | 8,183 | 125,117 |
|  | 72,642 | 15,574 | 12,871 | 6,289 | 107,375 |
| No | $88.75 \%$ | $83.03 \%$ | $78.83 \%$ | $76.85 \%$ | $85.82 \%$ |
| Yes | 9,208 | 3,184 | 3,456 | 1,895 | 17,742 |
| Total | $11.25 \%$ | $16.97 \%$ | $21.17 \%$ | $23,15 \%$ | $14.18 \%$ |

### 7.25.2 Weekend Riders - Hispanic/Latino/Spanish Origin

A slightly higher proportion of weekend riders were of Hispanic/Latino/Spanish origin compared to weekday riders (18\% vs. 14\%).

| Q45. Hispanic, Latino or <br> Spanish Origin? | Saturday | Sunday | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 10,347 | 8,469 | 18,816 |
| Total Answering | 54,178 | 47,788 | 101,966 |
|  | 44,132 | 39,554 | 83,686 |
| No | $81.46 \%$ | $82.77 \%$ | $82.07 \%$ |
| Yes | 10,046 | 8,234 | 18,280 |
| Total | $18.54 \%$ | $17.23 \%$ | $17.93 \%$ |

### 7.25.3 Weekday Riders - Race

White respondents made up close to three-fourths (74\%) of weekday riders across all dayparts. The percentage of black or African American respondents increased throughout the weekday dayparts, from $8 \%$ in the AM Peak, to $21 \%$ in the Late Night Off Peak.

| Q46. Race | AM Peak | Midday Off Peak | PM <br> Reverse Peak | Late Night Off Peak | Weekday Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 7,075 | 4,732 | 2,304 | 52,989 |
| Weighted Base | 91,942 | 21,906 | 19,259 | 9,603 | 142,711 |
| No Answer | 10,268 | 3,578 | 3,582 | 1,867 | 19,295 |
| Total Answering | 81,674 | 18,328 | 15,678 | 7,736 | 123,415 |
| White | 64,174 | 12,972 | 9,588 | 4,799 | 91,532 |
|  | 78.57\% | 70.78\% | 61.15\% | 62.03\% | 74.17\% |
| Black or African American | 6,171 | 2,448 | 2,928 | 1,662 | 13,208 |
|  | 7.56\% | 13.35\% | 18.67\% | 21.48\% | 10.70\% |
| Asian | 6,700 | 1,206 | 1,369 | 493 | 9,768 |
|  | 8.20\% | 6.58\% | 8.73\% | 6.38\% | 7.92\% |
| Racially Mixed | 2,453 | 970 | 991 | 378 | 4,793 |
|  | 3.00\% | 5.29\% | 6.32\% | 4.88\% | 3.88\% |
| Native Hawaiian or other Pacific Islander | 161 | 58 | 110 | 20 | 348 |
|  | 0.20\% | 0.31\% | 0.70\% | 0.25\% | 0.28\% |
| American Indian or Alaska Native | 157 | 68 | 41 | 37 | 303 |
|  | 0.19\% | 0.37\% | 0.26\% | 0.47\% | 0.25\% |
| Other | 1,858 | 606 | 651 | 348 | 3,463 |
|  | 2.27\% | 3.31\% | 4.15\% | 4.50\% | 2.81\% |
| Total | 81,674 | 18,328 | 15,678 | 7,736 | 123,415 |

### 7.25.4 Weekend Riders - Race

69\% of weekend riders reported being white, while black or African American riders accounted for an additional $14 \%$ of weekend riders.

| Q46. Race | Saturday | Sunday | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 16,574 | 13,748 | 30,322 |
| Weighted Base | 64,525 | 56,256 | 120,781 |
| No Answer | 11,012 | 9,199 | 20,210 |
| Total Answering | 53,513 | 47,058 | 100,571 |
| White | 36,063 | 33,262 | 69,326 |
|  | 67.39\% | 70.68\% | 68.93\% |
| Black or African American | 7,642 | 6,028 | 13,670 |
|  | 14.28\% | 12.81\% | 13.59\% |
| Asian | 4,298 | 3,422 | 7,719 |
|  | 8.03\% | 7.27\% | 7.68\% |
| Racially Mixed | 3,137 | 2,833 | 5,969 |
|  | 5.86\% | 6.02\% | 5.94\% |
| American Indian or Alaska Native | 194 | 104 | 298 |
|  | 0.36\% | 0.22\% | 0.30\% |
| Native Hawaiian or other Pacific Islander | 183 | 90 | 274 |
|  | 0.34\% | 0.19\% | 0.27\% |
| Other | 1,996 | 1,319 | 3,315 |
|  | 3.73\% | 2.80\% | 3.30\% |
| Total | 53,513 | 47,058 | 100,571 |

### 7.26 English Competency

The vast majority of weekday riders either reported speaking English very well (94\%) or well (5\%). Weekend riders reported similarly, with $90 \%$ indicating speaking English very well and $7 \%$ reporting speaking English well.

| Q47. English <br> Competency | AM Peak | Weekday <br> Total | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 52,989 | 30,322 |
| Weighted Base | 91,942 | 142,711 | 120,781 |
| No Answer | 4,935 | 9,467 | 11,718 |
| Total Answering | 87,007 | 133,244 | 109,064 |
| Very well | 82,564 | 124,758 | 98,695 |
| Well | $94.89 \%$ | $93.63 \%$ | $90.49 \%$ |
| Not well | 3,847 | 6,942 | 7,854 |
| Not at all | $4.42 \%$ | $5.21 \%$ | $7.20 \%$ |
| Total | 537 | 1,318 | 2,097 |

### 7.27 Primary Language at Home

English was the primary language reported by the vast majority of weekday (90\%) and weekend ( $87 \%$ ) riders. Spanish was the primary language for a larger proportion of weekend riders (7\%) than weekday riders (4\%).

| Q48. Primary Language <br> at Home | AM Peak | Weekday <br> Total | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 52,989 | 30,322 |
| Weighted Base | 91,942 | 142,711 | 120,781 |
| No Answer | 5,624 | 10,509 | 12,818 |
| Total Answering | 86,318 | 132,202 | 107,964 |
|  | 79,069 | 118,999 | 93,533 |
| English | $91.60 \%$ | $90.01 \%$ | $86.63 \%$ |
| Spanish | 2,352 | 5,621 | 7,208 |
| Other | $2.72 \%$ | $4.25 \%$ | $6.68 \%$ |
| Total | 4,897 | 7,582 | 7,223 |

### 7.28 Birth Country

United States was the most commonly reported birth country for weekday (79\%) and weekend riders (78\%). A very wide variety of other birth countries were also reported, with no other individual country being over $2 \%$ for either weekday or weekend riders.

| Q49. Birth Country | AM Peak | Weekday Total | Weekend Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 38,878 | 52,989 | 30,322 |
| Weighted Base | 91,942 | 142,711 | 120,781 |
| No Answer | 7,056 | 13,360 | 14,098 |
| Total Answering | 84,886 | 129,350 | 106,683 |
| United States | 68,072 | 102,169 | 82,950 |
|  | 80.19\% | 78.99\% | 77.75\% |
| India | 1,437 | 1,934 | 1,121 |
|  | 1.69\% | 1.49\% | 1.05\% |
| United Kingdom | 1,071 | 1,550 | 1,295 |
|  | 1.26\% | 1.20\% | 1.21\% |
| Jamaica | 742 | 1,487 | 1,273 |
|  | 0.87\% | 1.15\% | 1.19\% |
| Mexico | 311 | 796 | 1,443 |
|  | 0.37\% | 0.62\% | 1.35\% |
| China | 852 | 1,136 | 922 |
|  | 1.00\% | 0.88\% | 0.86\% |
| Dominican Republic | 352 | 858 | 865 |
|  | 0.41\% | 0.66\% | 0.81\% |
| Japan | 670 | 916 | 646 |
|  | 0.79\% | 0.71\% | 0.61\% |
| Canada | 608 | 882 | 678 |
|  | 0.72\% | 0.68\% | 0.64\% |
| France | 499 | 749 | 657 |
|  | 0.59\% | 0.58\% | 0.62\% |


| Q49. Birth <br> Country <br> Germany | AM Peak | Weekday <br> Total | Weekend <br> Total |
| :--- | :---: | :---: | :---: |
| Philippines | 473 | 714 | 684 |
| Colombia | $0.56 \%$ | $0.55 \%$ | $0.64 \%$ |

### 7.29 Visited Any Businesses within Half Mile of Inbound Boarding Station (New Haven Line Only) ${ }^{65}$

For the New Haven Line only, the survey included a question asking: "Have you visited any business within a half-mile of your inbound boarding station on your way to or from the train the past 30 days?" Nearly half of New Haven Line riders reported visiting any type of business located within a half mile of their inbound boarding station in the past 30 days (46\%). The percentage was higher for weekday riders (49\%) as compared to weekend riders (42\%).

| Q27a. Have You Visited <br> Any Businesses Within <br> a Half-Mile of Your <br> Inbound Boarding <br> Station (Towards <br> Manhattan) On Your <br> Way To The Train In The <br> Past 30 Days? | Total <br> Weekday | Total <br> Weekend | Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base <br> Weighted Base | 22916 | 14141 | 37057 |
| No Answer | 67370 | 56930 | 124300 |
| Total Answering | 3207 | 5985 | 10192 |
| Yes | 48382 | 50945 | 114107 |
| No | 32283 | 21439 | 52319 |
| Total | $51.11 \%$ | $57.92 \%$ | $54.15 \%$ |

[^41]
### 7.30 Business Visited At Least Once in Past 30 Days ${ }^{66}$ (New Haven Line Only)

Of the New Haven Line riders who reported visiting a business within a half-mile of their inbound boarding station, fast food/coffee/deli businesses were by far the most visited at least once in the past 30 days ( $73 \%$ ) followed by sit down restaurants (43\%) and supermarket/convenience stores (35\%). Retail and personal services (e.g., dry cleaning, hair and personal care) were the next most reported at $19 \%$ and $16 \%$, respectively. Other types of businesses were frequented by fewer riders (each at $5 \%$ or lower) in the past 30 days.

| Q27b. Times Visited Business/Service at Least Once in Past 30 Days | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 8595 | 3886 | 12481 |
| Weighted Base | 24697 | 15771 | 40468 |
| No Answer | - | - | - |
| Total Answering | 24697 | 15771 | 40468 |
| Fast Food/Coffee/Deli | 18237 | 11217 | 29454 |
|  | 73.84\% | 71.13\% | 72.78\% |
| Sit Down Restaurants | 9820 | 7538 | 17358 |
|  | 39.76\% | 47.80\% | 42.89\% |
| Supermarket/Convenience Store | 8614 | 5656 | 14270 |
|  | 34.88\% | 35.86\% | 35.26\% |
| Retail | 4346 | 3496 | 7842 |
|  | 17.60\% | 22.17\% | 19.38\% |
| Personal Services | 4086 | 2403 | 6489 |
|  | 16.54\% | 15.24\% | 16.04\% |
| Auto Related Repair \& Service | 1508 | 694 | 2201 |
|  | 6.10\% | 4.40\% | 5.44\% |
| Childcare Or Related | 505 | 335 | 840 |
|  | 2.05\% | 2.12\% | 2.08\% |
| Other Business/Service | 1162 | 777 | 1939 |
|  | 4.70\% | 4.93\% | 4.79\% |

[^42]

### 7.31 Times Visited Business and Amount of Money Spent in Past 30 Days (New Haven Line Only)

This section reports on the number of times New Haven Line riders visited each business during the past 30 days and the amount spent at that type of business during the past 30 day timeframe. For each business type, there are two tables presented; one for the number of times visited and a second for amount of money spent. The businesses are presented in order of the percentage of New Haven Line riders visiting at least once (from table in section 7.30 above).

Among New Haven Line riders who frequented that type of business, the average number of visits in the past 30 days was highest for childcare or related services (mean=12) and fast food/coffee/deli businesses (mean=8) and lowest for auto related repair and service establishments (mean=2). All other business types were, on average, in the 4-5 number of times visited range.

For the amount of money spent in the past 30 days, childcare or related businesses had the highest reported spending among New Haven Line riders who used that service ( $\$ 635$ in 30 days) followed by auto repair or related services (\$255 in 30 days). Fast food/coffee/deli (\$53 in 30 days) and personal services (\$95 in 30 days) had some of the lowest reported spending. The past 30-day expenditures for all other businesses/services fell between $\$ 133$ and $\$ 192$.

| Q27b. Times Visited Business/Service in Past 30 Days - Fast Food/CoffeelDeli | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 6403 | 2785 | 9188 |
| Weighted Base | 18237 | 11217 | 29454 |
| No Answer | - | - | - |
| Total Answering | 18237 | 11217 | 29454 |
| 1 | 2248 | 3369 | 5617 |
|  | 12.33\% | 30.03\% | 19.07\% |
| 2 | 2520 | 1812 | 4332 |
|  | 13.82\% | 16.15\% | 14.71\% |
| 3 | 1750 | 1066 | 2817 |
|  | 9.60\% | 9.51\% | 9.56\% |
| 4 | 1038 | 697 | 1735 |
|  | 5.69\% | 6.21\% | 5.89\% |
| 5 | 2677 | 1130 | 3806 |
|  | 14.68\% | 10.07\% | 12.92\% |
| 6-10 | 3015 | 1417 | 4432 |
|  | 16.53\% | 12.63\% | 15.05\% |
| 11+ | 4988 | 1727 | 6716 |
|  | 27.35\% | 15.40\% | 22.80\% |
| Mean | 8.88 | 6.11 | 7.83 |
| Total | 18237 | 11217 | 29454 |


| Q27b. Amount of Money Spent in Business/Service in Past 30 Days - Fast Food/Coffee/Deli | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 5101 | 2282 | 7383 |
| Weighted Base | 14529 | 9167 | 23696 |
| No Answer | - | - | - |
| Total Answering | 14529 | 9167 | 23696 |
| Less Than \$10 | $\begin{gathered} 1867 \\ 12.85 \% \end{gathered}$ | $\begin{gathered} 1607 \\ 17.53 \% \end{gathered}$ | $\begin{gathered} 3474 \\ 14.66 \% \end{gathered}$ |
| \$10.00-\$19.99 | $\begin{gathered} 2674 \\ 18.40 \% \end{gathered}$ | $\begin{gathered} 2366 \\ 25.81 \% \end{gathered}$ | $\begin{gathered} 5040 \\ 21.27 \% \end{gathered}$ |
| \$20.00-\$29.99 | $\begin{gathered} 2162 \\ 14.88 \% \end{gathered}$ | $\begin{gathered} 1557 \\ 16.98 \% \end{gathered}$ | $\begin{gathered} 3719 \\ 15.69 \% \end{gathered}$ |
| \$30.00-\$39.99 | $\begin{array}{r} 1452 \\ 9.99 \% \end{array}$ | $\begin{gathered} 680 \\ 7.42 \% \end{gathered}$ | $\begin{array}{r} 2132 \\ 9.00 \% \end{array}$ |
| \$40.00-\$49.99 | $\begin{gathered} 935 \\ 6.44 \% \end{gathered}$ | $\begin{gathered} 473 \\ 5.16 \% \end{gathered}$ | $\begin{gathered} 1409 \\ 5.94 \% \end{gathered}$ |
| \$50.00-\$99.99 | $\begin{gathered} 2637 \\ 18.15 \% \end{gathered}$ | $\begin{gathered} 1253 \\ 13.66 \% \end{gathered}$ | $\begin{gathered} 3889 \\ 16.41 \% \end{gathered}$ |
| \$100.00-\$199.99 | $\begin{gathered} 1888 \\ 12.99 \% \end{gathered}$ | $\begin{gathered} 786 \\ 8.58 \% \end{gathered}$ | $\begin{gathered} 2674 \\ 11.28 \% \end{gathered}$ |
| \$200+ | $\begin{gathered} 915 \\ 6.30 \% \end{gathered}$ | $\begin{gathered} 445 \\ 4.85 \% \end{gathered}$ | $\begin{array}{r} 1360 \\ 5.74 \% \end{array}$ |
| Mean | \$56.35 | \$48.52 | \$53.32 |
| Total | 14529 | 9167 | 23696 |


| Q27b. Times Visited <br> Business/Service in Past <br> 30 Days - Sit Down <br> Restaurants | Total <br> Weekday | Total <br> Weekend | Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | Weighted Base | 3360 | 1853 |


| Q27b. Amount of Money Spent in Business/Service in Past 30 Days - Sit Down Restaurants | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 2519 | 1452 | 3971 |
| Weighted Base | 7375 | 5878 | 13254 |
| No Answer | - | - | - |
| Total Answering | 7375 | 5878 | 13254 |
| Less Than \$10 | 86 | 88 | 174 |
|  | 1.16\% | 1.50\% | 1.31\% |
| \$10.00-\$19.99 | 276 | 449 | 725 |
|  | 3.74\% | 7.64\% | 5.47\% |
| \$20.00-\$29.99 | 474 | 638 | 1112 |
|  | 6.42\% | 10.86\% | 8.39\% |
| \$30.00-\$39.99 | 387 | 420 | 807 |
|  | 5.25\% | 7.14\% | 6.09\% |
| \$40.00-\$49.99 | 454 | 362 | 816 |
|  | 6.16\% | 6.16\% | 6.16\% |
| \$50.00-\$99.99 | 1433 | 1212 | 2645 |
|  | 19.42\% | 20.62\% | 19.95\% |
| \$100.00-\$199.99 | 1710 | 1152 | 2862 |
|  | 23.18\% | 19.61\% | 21.59\% |
| \$200+ | 2557 | 1556 | 4112 |
|  | 34.66\% | 26.47\% | 31.03\% |
| Mean | \$191.79 | \$149.84 | \$173.18 |
| Total | 7375 | 5878 | 13254 |


| Q27b. Times Visited <br> Business/Service in Past <br> 30 Days - <br> Supermarket/Convenience <br> Store | Total <br> Weekday | Total <br> Weekend | Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | Weighted Base | 2924 | 1301 |


| Q27b. Amount of Money Spent in Business/Service in Past 30 Days Supermarket/Convenience Store | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 2143 | 1000 | 3143 |
| Weighted Base | 6327 | 4314 | 10641 |
| No Answer | - | - | - |
| Total Answering | 6327 | 4314 | 10641 |
| Less Than \$10 | $\begin{gathered} 336 \\ 5.31 \% \end{gathered}$ | $\begin{gathered} 374 \\ 8.68 \% \end{gathered}$ | $\begin{gathered} 710 \\ 6.67 \% \end{gathered}$ |
| \$10.00-\$19.99 | $\begin{gathered} 754 \\ 11.91 \% \end{gathered}$ | $\begin{gathered} 642 \\ 14.89 \% \end{gathered}$ | $\begin{gathered} 1396 \\ 13.12 \% \end{gathered}$ |
| \$20.00-\$29.99 | $\begin{gathered} 838 \\ 13.24 \% \end{gathered}$ | $\begin{gathered} 484 \\ 11.21 \% \end{gathered}$ | $\begin{gathered} 1322 \\ 12.42 \% \end{gathered}$ |
| \$30.00-\$39.99 | $\begin{gathered} 444 \\ 7.02 \% \end{gathered}$ | $\begin{gathered} 260 \\ 6.02 \% \end{gathered}$ | $\begin{gathered} 704 \\ 6.62 \% \end{gathered}$ |
| \$40.00-\$49.99 | $\begin{gathered} 322 \\ 5.09 \% \end{gathered}$ | $\begin{gathered} 177 \\ 4.10 \% \end{gathered}$ | $\begin{gathered} 499 \\ 4.69 \% \end{gathered}$ |
| \$50.00-\$99.99 | $\begin{gathered} 877 \\ 13.86 \% \end{gathered}$ | $\begin{gathered} 687 \\ 15.92 \% \end{gathered}$ | $\begin{gathered} 1564 \\ 14.70 \% \end{gathered}$ |
| \$100.00-\$199.99 | $\begin{gathered} 1071 \\ 16.92 \% \end{gathered}$ | $\begin{gathered} 723 \\ 16.76 \% \end{gathered}$ | $\begin{gathered} 1794 \\ 16.85 \% \end{gathered}$ |
| \$200+ | $\begin{gathered} 1686 \\ 26.64 \% \end{gathered}$ | $\begin{gathered} 967 \\ 22.43 \% \end{gathered}$ | $\begin{gathered} 2653 \\ 24.93 \% \end{gathered}$ |
| Mean | \$137.94 | \$126.43 | \$133.27 |
| Total | 6327 | 4314 | 10641 |


| Q27b. Times Visited Business/Service in Past 30 Days - Retail | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 1463 | 818 | 2281 |
| Weighted Base | 4346 | 3496 | 7842 |
| No Answer | - | - | - |
| Total Answering | 4346 | 3496 | 7842 |
| 1 | $\begin{gathered} 1265 \\ 29.11 \% \end{gathered}$ | $\begin{gathered} 1292 \\ 36.97 \% \end{gathered}$ | $\begin{gathered} 2558 \\ 32.61 \% \end{gathered}$ |
| 2 | $\begin{gathered} 1165 \\ 26.81 \% \end{gathered}$ | $\begin{gathered} 878 \\ 25.10 \% \end{gathered}$ | $\begin{gathered} 2043 \\ 26.05 \% \end{gathered}$ |
| 3 | $\begin{gathered} 515 \\ 11.85 \% \end{gathered}$ | $\begin{gathered} 388 \\ 11.10 \% \end{gathered}$ | $\begin{gathered} 903 \\ 11.52 \% \end{gathered}$ |
| 4 | $\begin{gathered} 299 \\ 6.87 \% \end{gathered}$ | $\begin{gathered} 232 \\ 6.64 \% \end{gathered}$ | $\begin{gathered} 531 \\ 6.77 \% \end{gathered}$ |
| 5 | $\begin{gathered} 510 \\ 11.73 \% \end{gathered}$ | $\begin{gathered} 270 \\ 7.71 \% \end{gathered}$ | $\begin{gathered} 780 \\ 9.94 \% \end{gathered}$ |
| 6-10 | 385 $8.85 \%$ | 273 $7.82 \%$ | 658 $8.39 \%$ |
| 11+ | $\begin{gathered} 207 \\ 4.77 \% \end{gathered}$ | $\begin{gathered} 163 \\ 4.65 \% \end{gathered}$ | $\begin{gathered} 370 \\ 4.72 \% \end{gathered}$ |
| Mean | 4.01 | 3.71 | 3.88 |
| Total | 4346 | 3496 | 7842 |


| Q27b. Amount of Money Spent in Business/Service in Past 30 Days - Retail | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 971 | 583 | 1554 |
| Weighted Base | 2915 | 2502 | 5417 |
| No Answer | - | - | - |
| Total Answering | 2915 | 2502 | 5417 |
| Less Than \$10 | $\begin{gathered} 50 \\ 1.72 \% \end{gathered}$ | $\begin{gathered} 45 \\ 1.82 \% \end{gathered}$ | $96$ <br> 1.77\% |
| \$10.00-\$19.99 | $\begin{gathered} 107 \\ 3.67 \% \end{gathered}$ | $\begin{gathered} 115 \\ 4.58 \% \end{gathered}$ | $\begin{gathered} 222 \\ 4.09 \% \end{gathered}$ |
| \$20.00-\$29.99 | $\begin{gathered} 200 \\ 6.88 \% \end{gathered}$ | $\begin{gathered} 144 \\ 5.75 \% \end{gathered}$ | $\begin{gathered} 344 \\ 6.36 \% \end{gathered}$ |
| \$30.00-\$39.99 | $\begin{gathered} 164 \\ 5.61 \% \end{gathered}$ | $\begin{gathered} 158 \\ 6.30 \% \end{gathered}$ | $\begin{gathered} 321 \\ 5.93 \% \end{gathered}$ |
| \$40.00-\$49.99 | $\begin{gathered} 106 \\ 3.64 \% \end{gathered}$ | $\begin{gathered} 75 \\ 3.01 \% \end{gathered}$ | $\begin{gathered} 181 \\ 3.35 \% \end{gathered}$ |
| \$50.00-\$99.99 | 578 19.83\% | 477 19.08\% | 1055 $19.48 \%$ |
| \$100.00-\$199.99 | $\begin{gathered} 743 \\ 25.49 \% \end{gathered}$ | $\begin{gathered} 621 \\ 24.81 \% \end{gathered}$ | $\begin{gathered} 1364 \\ 25.17 \% \end{gathered}$ |
| \$200+ | $\begin{gathered} 966 \\ 33.16 \% \end{gathered}$ | $\begin{gathered} 867 \\ 34.65 \% \end{gathered}$ | $\begin{array}{r} 1833 \\ 33.85 \% \end{array}$ |
| Mean | \$183.33 | \$202.8 | \$192.32 |
| Total | 2915 | 2502 | 5417 |


| Q27b. Times Visited Business/Service in Past 30 Days - Personal Services | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 1404 | 543 | 1947 |
| Weighted Base | 4086 | 2403 | 6489 |
| No Answer | - | - | - |
| Total Answering | 4086 | 2403 | 6489 |
| 1 | 1396 | 1074 | 2470 |
|  | 34.17\% | 44.69\% | 38.07\% |
| 2 | 1131 | 514 | 1645 |
|  | 27.69\% | 21.38\% | 25.35\% |
| 3 | 414 | 176 | 590 |
|  | 10.13\% | 7.33\% | 9.09\% |
| 4 | 452 | 222 | 673 |
|  | 11.05\% | 9.22\% | 10.38\% |
| 5 | 362 | 175 | 536 |
|  | 8.85\% | 7.27\% | 8.26\% |
| 6-10 | 240 | 131 | 371 |
|  | 5.88\% | 5.45\% | 5.72\% |
| 11+ | 91 | 112 | 203 |
|  | 2.23\% | 4.66\% | 3.13\% |
| Mean | 3.31 | 3.9 | 3.53 |
| Total | 4086 | 2403 | 6489 |


| Q27b. Amount of Money <br> Spent in Business/Service <br> in Past 30 Days - Personal <br> Services | Total <br> Weekday | Total <br> Weekend | Total |
| :--- | :---: | :---: | :---: |
| Unweighted Base | 988 | 404 | 1392 |
| Weighted Base | 2846 | 1806 | 4652 |
| No Answer | - | 2846 | 1806 |


| Q27b. Times Visited Business/Service in Past 30 Days - Auto Related Repair \& Service | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 540 | 168 | 708 |
| Weighted Base | 1508 | 694 | 2201 |
| No Answer | - | - | - |
| Total Answering | 1508 | 694 | 2201 |
| 1 | $\begin{gathered} 999 \\ 66.25 \% \end{gathered}$ | $\begin{gathered} 484 \\ 69.84 \% \end{gathered}$ | $\begin{gathered} 1483 \\ 67.38 \% \end{gathered}$ |
| 2 | $\begin{gathered} 289 \\ 19.14 \% \end{gathered}$ | $\begin{gathered} 138 \\ 19.88 \% \end{gathered}$ | 426 $19.37 \%$ |
| 3 | $\begin{gathered} 71 \\ 4.72 \% \end{gathered}$ | $\begin{gathered} 24 \\ 3.50 \% \end{gathered}$ | $\begin{gathered} 95 \\ 4.34 \% \end{gathered}$ |
| 4 | $\begin{gathered} 41 \\ 2.71 \% \end{gathered}$ | $\begin{gathered} 11 \\ 1.59 \% \end{gathered}$ | $\begin{gathered} 52 \\ 2.36 \% \end{gathered}$ |
| 5 | $\begin{gathered} 47 \\ 3.13 \% \end{gathered}$ | $\begin{gathered} 21 \\ 3.08 \% \end{gathered}$ | $\begin{gathered} 69 \\ 3.11 \% \end{gathered}$ |
| 6-10 | $\begin{gathered} 35 \\ 2.34 \% \end{gathered}$ | $\begin{gathered} 11 \\ 1.60 \% \end{gathered}$ | $\begin{gathered} 46 \\ 2.10 \% \end{gathered}$ |
| 11+ | $\begin{gathered} 26 \\ 1.71 \% \end{gathered}$ | $\begin{gathered} 4 \\ 0.52 \% \end{gathered}$ | $\begin{gathered} 29 \\ 1.34 \% \end{gathered}$ |
| Mean | 2.47 | 1.64 | 2.21 |
| Total | 1508 | 694 | 2201 |


| Q27b. Amount of Money Spent in Business/Service <br> In Past 30 Days - Auto Related Repair And Service | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 369 | 107 | 476 |
| Weighted Base | 1025 | 425 | 1450 |
| No Answer | - | - | - |
| Total Answering | 1025 | 425 | 1450 |
| Less Than \$10 | $\begin{gathered} 12 \\ 1.14 \% \end{gathered}$ | $\begin{gathered} 12 \\ 2.78 \% \end{gathered}$ | $\begin{gathered} 23 \\ 1.62 \% \end{gathered}$ |
| \$10.00-\$19.99 | $\begin{gathered} 35 \\ 3.40 \% \end{gathered}$ | $\begin{gathered} 17 \\ 4.03 \% \end{gathered}$ | 52 3.59\% |
| \$20.00-\$29.99 | $\begin{gathered} 42 \\ 4.11 \% \end{gathered}$ | $\begin{gathered} 42 \\ 10.00 \% \end{gathered}$ | $\begin{gathered} 85 \\ 5.84 \% \end{gathered}$ |
| \$30.00-\$39.99 | $\begin{gathered} 77 \\ 7.55 \% \end{gathered}$ | $\begin{gathered} 21 \\ 4.91 \% \end{gathered}$ | $\begin{gathered} 98 \\ 6.78 \% \end{gathered}$ |
| \$40.00-\$49.99 | $\begin{gathered} 61 \\ 5.97 \% \end{gathered}$ | $\begin{gathered} 23 \\ 5.47 \% \end{gathered}$ | $\begin{gathered} 84 \\ 5.82 \% \end{gathered}$ |
| \$50.00-\$99.99 | $\begin{gathered} 211 \\ 20.56 \% \end{gathered}$ | $\begin{gathered} 110 \\ 25.92 \% \end{gathered}$ | $\begin{gathered} 321 \\ 22.13 \% \end{gathered}$ |
| \$100.00-\$199.99 | $\begin{gathered} 199 \\ 19.42 \% \end{gathered}$ | $\begin{gathered} 82 \\ 19.27 \% \end{gathered}$ | $\begin{gathered} 281 \\ 19.37 \% \end{gathered}$ |
| \$200+ | $\begin{gathered} 388 \\ 37.84 \% \end{gathered}$ | $\begin{gathered} 117 \\ 27.63 \% \end{gathered}$ | $\begin{gathered} 505 \\ 34.85 \% \end{gathered}$ |
| Mean | \$284.45 | \$184.3 | \$255.1 |
| Total | 1025 | 425 | 1450 |


| Q27b. Times Visited Business/Service in Past 30 Days - Childcare Or Related | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 177 | 68 | 245 |
| Weighted Base | 505 | 335 | 840 |
| No Answer | - | - | - |
| Total Answering | 505 | 335 | 840 |
| 1 | 68 | 79 | 147 |
|  | 13.40\% | 23.68\% | 17.50\% |
| 2 | 37 | 33 | 70 |
|  | 7.31\% | 9.84\% | 8.32\% |
| 3 | 49 | 24 | 73 |
|  | 9.79\% | 7.17\% | 8.74\% |
| 4 | 36 | 23 | 58 |
|  | 7.07\% | 6.78\% | 6.95\% |
| 5 | 38 | 22 | 60 |
|  | 7.50\% | 6.62\% | 7.15\% |
| 6-10 | 40 | 52 | 92 |
|  | 7.85\% | 15.61\% | 10.94\% |
| 11+ | 238 | 101 | 339 |
|  | 47.09\% | 30.29\% | 40.40\% |
| Mean | 12.97 | 10.45 | 11.96 |
| Total | 505 | 335 | 840 |


| Q27b. Amount of Money Spent in Business/Service in Past 30 Days Childcare Or Related | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 102 | 44 | 146 |
| Weighted Base | 295 | 223 | 518 |
| No Answer | - | - | - |
| Total Answering | 295 | 223 | 518 |
| Less Than \$10 | - - | $\begin{gathered} 17 \\ 7.83 \% \end{gathered}$ | $\begin{gathered} 17 \\ 3.37 \% \end{gathered}$ |
| \$10.00-\$19.99 | - | $\begin{gathered} 6 \\ 2.74 \% \end{gathered}$ | $\begin{gathered} 6 \\ 1.18 \% \end{gathered}$ |
| \$20.00-\$29.99 | $\begin{gathered} 9 \\ 3.07 \% \end{gathered}$ | $\begin{gathered} 10 \\ 4.65 \% \end{gathered}$ | $\begin{gathered} 19 \\ 3.75 \% \end{gathered}$ |
| \$30.00-\$39.99 | $\begin{gathered} 2 \\ 0.84 \% \end{gathered}$ | $\begin{gathered} 2 \\ 1.07 \% \end{gathered}$ | $\begin{gathered} 5 \\ 0.94 \% \end{gathered}$ |
| \$40.00-\$49.99 | $\begin{gathered} 13 \\ 4.57 \% \end{gathered}$ | $\begin{gathered} 5 \\ 2.15 \% \end{gathered}$ | $\begin{gathered} 18 \\ 3.53 \% \end{gathered}$ |
| \$50.00-\$99.99 | $\begin{gathered} 15 \\ 5.00 \% \end{gathered}$ | $\begin{gathered} 45 \\ 20.32 \% \end{gathered}$ | $\begin{gathered} 60 \\ 11.60 \% \end{gathered}$ |
| \$100.00-\$199.99 | $\begin{gathered} 34 \\ 11.49 \% \end{gathered}$ | $\begin{gathered} 10 \\ 4.47 \% \end{gathered}$ | $\begin{gathered} 44 \\ 8.47 \% \end{gathered}$ |
| \$200+ | $\begin{gathered} 221 \\ 75.02 \% \end{gathered}$ | $\begin{gathered} 127 \\ 56.77 \% \end{gathered}$ | $\begin{gathered} 348 \\ 67.16 \% \end{gathered}$ |
| Mean | \$863.09 | \$334.28 | \$635.49 |
| Total | 295 | 223 | 518 |


| Q27b. Times Visited Business/Service in Past 30 Days - Other Business/Service | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 407 | 187 | 594 |
| Weighted Base | 1162 | 777 | 1939 |
| No Answer | - | - | - |
| Total Answering | 1162 | 777 | 1939 |
| 1 | $\begin{gathered} 317 \\ 27.30 \% \end{gathered}$ | $\begin{gathered} 318 \\ 40.92 \% \end{gathered}$ | $\begin{gathered} 635 \\ 32.76 \% \end{gathered}$ |
| 2 | $\begin{gathered} 198 \\ 17.06 \% \end{gathered}$ | $\begin{gathered} 192 \\ 24.73 \% \end{gathered}$ | $\begin{gathered} 390 \\ 20.13 \% \end{gathered}$ |
| 3 | $\begin{gathered} 112 \\ 9.66 \% \end{gathered}$ | $\begin{gathered} 73 \\ 9.44 \% \end{gathered}$ | $\begin{gathered} 186 \\ 9.57 \% \end{gathered}$ |
| 4 | $\begin{gathered} 120 \\ 10.29 \% \end{gathered}$ | $\begin{gathered} 42 \\ 5.42 \% \end{gathered}$ | $\begin{gathered} 162 \\ 8.34 \% \end{gathered}$ |
| 5 | $\begin{gathered} 135 \\ 11.65 \% \end{gathered}$ | $\begin{gathered} 14 \\ 1.79 \% \end{gathered}$ | $\begin{gathered} 149 \\ 7.70 \% \end{gathered}$ |
| 6-10 | $\begin{gathered} 130 \\ 11.20 \% \end{gathered}$ | $\begin{gathered} 54 \\ 6.89 \% \end{gathered}$ | $\begin{gathered} 184 \\ 9.47 \% \end{gathered}$ |
| 11+ | $\begin{gathered} 149 \\ 12.84 \% \end{gathered}$ | $\begin{gathered} 84 \\ 10.81 \% \end{gathered}$ | $\begin{gathered} 233 \\ 12.03 \% \end{gathered}$ |
| Mean | 5.68 | 4.33 | 5.14 |
| Total | 1162 | 777 | 1939 |


| Q27b. Amount of Money Spent in Business/Service in Past 30 Days - Other Business/Service | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 261 | 135 | 396 |
| Weighted Base | 731 | 552 | 1283 |
| No Answer | - | - | - |
| Total Answering | 731 | 552 | 1283 |
| Less Than \$10 | $\begin{gathered} 48 \\ 6.57 \% \end{gathered}$ | $\begin{gathered} 44 \\ 7.95 \% \end{gathered}$ | $\begin{gathered} 92 \\ 7.16 \% \end{gathered}$ |
| \$10.00-\$19.99 | $\begin{gathered} 46 \\ 6.30 \% \end{gathered}$ | $\begin{gathered} 53 \\ 9.63 \% \end{gathered}$ | 99 $7.73 \%$ |
| \$20.00-\$29.99 | $\begin{gathered} 93 \\ 12.74 \% \end{gathered}$ | $\begin{gathered} 45 \\ 8.21 \% \end{gathered}$ | $\begin{gathered} 138 \\ 10.79 \% \end{gathered}$ |
| \$30.00-\$39.99 | $\begin{gathered} 73 \\ 10.02 \% \end{gathered}$ | $\begin{gathered} 45 \\ 8.23 \% \end{gathered}$ | $\begin{gathered} 119 \\ 9.25 \% \end{gathered}$ |
| \$40.00-\$49.99 | $\begin{gathered} 45 \\ 6.10 \% \end{gathered}$ | $\begin{gathered} 30 \\ 5.41 \% \end{gathered}$ | $\begin{gathered} 74 \\ 5.80 \% \end{gathered}$ |
| \$50.00-\$99.99 | $\begin{gathered} 172 \\ 23.47 \% \end{gathered}$ | $\begin{gathered} 79 \\ 14.24 \% \end{gathered}$ | $\begin{gathered} 250 \\ 19.50 \% \end{gathered}$ |
| \$100.00-\$199.99 | $\begin{gathered} 107 \\ 14.61 \% \end{gathered}$ | $\begin{gathered} 120 \\ 21.84 \% \end{gathered}$ | $\begin{gathered} 227 \\ 17.72 \% \end{gathered}$ |
| \$200+ | $\begin{gathered} 148 \\ 20.20 \% \end{gathered}$ | $\begin{gathered} 135 \\ 24.49 \% \end{gathered}$ | $\begin{gathered} 283 \\ 22.04 \% \end{gathered}$ |
| Mean | \$153.64 | \$133.39 | \$144.93 |
| Total | 731 | 552 | 1283 |

### 7.32 Business/Service Most Important to Have Near Inbound Boarding Station (Top 2) (New Haven Line Only)

When asked to select the two types of businesses/services New Haven Line riders considered most important to have near their inbound boarding station, a majority indicated fast food/coffee/deli establishments (77\%). Supermarket/convenience store was the second most important business for weekday riders (40\%), while sit down restaurants was the second most important business for weekend riders (42\%).

| 27c. Two Types Of Business/Service Most Important To Have Near Inbound Boarding Station | Total Weekday | Total Weekend | Total |
| :---: | :---: | :---: | :---: |
| Unweighted Base | 9734 | 4749 | 14483 |
| Weighted Base | 28185 | 19320 | 47505 |
| No Answer |  | - | - |
| Total Answering | 28185 | 19320 | 47505 |
| Fast Food/Coffee/Deli | 22088 | 14660 | 36748 |
|  | 78.37\% | 75.88\% | 77.36\% |
| Supermarket/Convenience Store | 11290 | 7805 | 19095 |
|  | 40.06\% | 40.40\% | 40.20\% |
| Sit Down Restaurants | 9121 | 8137 | 17258 |
|  | 32.36\% | 42.12\% | 36.33\% |
| Personal Services (E.G. Dry Cleaning, Hair And Personal Care) | 4693 $16.65 \%$ | 2273 $11.76 \%$ | 6965 $14.66 \%$ |
| Retail (E.G. Clothing, Home Furnishings, Gifts) | 3097 | 2914 | 6011 |
|  | 10.99\% | 15.08\% | 12.65\% |
| Auto Related Repair And Service | 1558 | 526 | 2084 |
|  | 5.53\% | 2.72\% | 4.39\% |
| Childcare Or Related | 850 | 511 | 1361 |
|  | 3.02\% | 2.64\% | 2.86\% |
| Other | 1417 | 983 | 2400 |
|  | 5.03\% | 5.09\% | 5.05\% |
| Total | 54115 | 37808 | 91923 |

## 8. Appendix

### 8.1 Training

Training sessions were integral to proper preparation for fieldwork and were held regularly at Abt Associates' office. All new staff members were required to complete training for the study before being eligible for field work. In addition, Abt Associates re-trained all staff after any long period of downtime, particularly after the summer months.

The training was comprehensive and covered the following general topic areas:

- Overview of the study
- Dress code
- Role division onboard trains (surveying and counting)
- Directions on how to use clickers
- How to complete the count forms
- Proper behavior
- What to do in the event of service disruptions
- What to do at the end of a shift

In addition to formal training sessions, field supervisors reinforced established protocols on a regular basis during fieldwork.

### 8.2 Passenger Counts

Passengers were counted on all inbound and outbound trains in the system. Field staff were stationed at each train door and were responsible for counting the boarding and alighting passengers at each station. At the initial station for a train run, onboard counts were collected in lieu of "ons". Between stations, one agent in each car would be responsible for obtaining a total onboard head count of people within the car. In cases of extremely low ridership, some trains would only be staffed with one survey agent per car.

Field staff recorded counts on a custom count forms that were pre-populated to specify the train number and the scheduled station stops (See Figure 1) for each train. At the end of each round trip, field staff would submit all count sheets to the field supervisor, who would review each sheet for completeness. A counting clicker (see Figure 2) was used to keep record how many customers were getting off and boarding.

### 8.2.1 Figure 1 - Sample Outbound Count Sheet

2014 MNR Origin \& Destination Study 30116 Outbound

| Date: |
| :--- | :--- |
| Weather: Clear/Cloudy $\square$ Rain $\square$ Snow $\square$ |

Seat Counter
Extra
Train No: 343 Crew No: 5045-A

| Partner Name: |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Supervisor Name: |  |  |  |  |  |  |  |  |

Harlem
Car No: $\qquad$ Supervisor Cell No.: $\qquad$

Remarks


### 8.2.2 Figure 2 - Counting Clicker



### 8.3 Survey Questionnaire

The OD survey questionnaire was offered to passengers on all inbound trains. Questionnaire distribution took place concurrently with the onboard counts.

Survey packages were carefully prepared for each car in a train. Each package was packed generously, at approximately $125 \%$ of expected ridership, to eliminate the risk that a field interviewer would run out of questionnaires to distribute. As an extra precaution, the supervisor also carried extra surveys to distribute if needed.

As an added level of quality control, each survey had a unique PIN number on the cover page and the PIN number on successive surveys in each bag would be in sequential order. The inbound count forms included a field where the interviewer had to enter their top serial number at each station (see Figure 3 below). The sequential ordering of PIN numbers helped Abt Associates track the survey range for each train and each station within a train run. As the PIN ranges were used for control, once a train has been fielded, no questionnaires from the corresponding range were repurposed for other fieldwork.

### 8.3.1 Figure 3 - Sample Inbound Count Sheet

2014 MNR Origin \& Destination Study 30116
Date: $\quad 03 / 08 / 2015$
Inbound
Weather: Clear/Cloudy $\square$ Rain $\square$ Snow $\square$
Staff Name:
$\square$ Surveyor
Seat Counter $\square$ Extra
Partner Name:
Car No: $\qquad$ Train No: 8776 Crew No: 6441-B
Supervisor Name: Supe Cell No.:


The survey questionnaire was distributed in a paper survey format to any customers willing to take it onboard all inbound trains. It was designed with the assumption that the primary response mode would be administration and collection onboard trains. However, respondents were also given additional options to return their surveys via postage-paid Business Reply Mail or by completing a corresponding web survey. In addition, the paper questionnaire was printed in English on one side and Spanish on the other, and both languages were available on the online survey. A supplemental effort was also made towards the end of the survey period to collect additional surveys from riders from Bronx stations to increase the sample size of completed surveys.

In total, 108,242 completed surveys were obtained from 276,322 total EoH riders, just shy of the $40 \%$ goal at $39.2 \%$. The vast majority of surveys were collected onboard trains (105,398 or $97.4 \%)$ were collected onboard trains, very few respondents mailed back their surveys (1449 or $1.3 \%$ ), or completed it online (1395 or 1.3\%). An additional 783 supplemental surveys were distributed and collected on platforms at targeted Bronx stations due to lower response rates at those stations for certain times of day. A total of 4,502 surveys (4.2\%) were completed in Spanish, with nearly all collected onboard trains (4,476 or $99.4 \%$ ) and significantly less than $1 \%$ completing as mail-in's or web surveys ( 20 and 6 surveys, respectively).

The front panel of the questionnaire included an appeal to customers to help MNR improve its service by participating in the survey, information about the cash drawing to further incentivize participation, and information about how to access the survey online. Each questionnaire cover (see Figure 4 below) also contained a unique PIN number (Password) that served 3 purposes for the study:

- Unique identifier - each PIN was only printed once, so there were no duplicates in the study. This identifier was consistent across both paper and web surveys.
- Web survey access - each PIN served as a password for access to the web survey for respondents who wished to complete it online. Once a survey had been completed, that PIN was locked out from the web survey, ensuring that each PIN number would only be used once.
- Train association - When preparing materials for field work, Abt Associates kept a record of which PIN ranges were packed for each train. Since the PIN numbers were unique and consecutive, it was possible to track exactly which surveys corresponded to any given train. This was important and could be used to confirm the train associated with each survey, as well as fill in missing boarding station information from surveys as needed.


### 8.3.2 Figure 4 - Sample Questionnaire Cover



Doar MTA Matro-North Customer,
Ploseo takn a fow minutos to compinto this survoy and bo ontorod for a chanco to win $\$ 2501$ Wa would liso to know moro about how you travol and use our ral syatom to holp us imprown the sorvice we provide. Al information is important to un and will be kopt contidential. It you hove alroady filied out this questionnaire on a previous irip. plosse completo it again. Thanig for your sme
Rohurning this survoy le oary - you can:

1) Givo it back to survey personnol on board your train
2) Mail it back poatago-froo
3) Answar online at www.arbsurvoy.com/MNRSurvey by antering the paseword printod on this pago.
Complote this survey for a chance to win one of ion $\$ 250$ cash prizos.
Soe www.arbsurvoy comvMNRSurvayiruleantml for move dataila.
Thank you very much for your cooperation.






## Your Password/ Su Contraseña:

Estimado clionto do MTA Motro-North,
Lo podimoe dodioar unos minutoe para oompiotar esta oncuesta y toner in oportanidad do ganar $\$ 250$.
Quicibramoa sabor mas soboro la manora on quo ustad viaja y utilza al sistoma forroviario para ayudarnoe a majorar ol sorvicio qua otrocomoa. Toda ia intormación of importarto para noootron y se mantondra contidoncidy. Si ustod ya ha lionado oste cueationario on un viaje antorior, pedimos que lo lione nuevamente. ¡Graclas por nu tiompol
Es tacil ontrogar esta oncuonta, puodo:

1) Rogrosarla al perzonal do oncueatas a bordo dol tron
2) Enviarla por correo ain cosito alguno
3) Contesto a travis del Internet en www,arbaurvoy.oom/MNRSurvay usando I contrasefia quo aparece on esta pogina.
Complote esta encuosta para una oportunidad do ganar uno de diez premion do $\$ 250$ on ofectivo.
Vaya a www.arbsurvoy.com/MNRSurvoylrulos.html para más dotalios.
Gracias por su cooperación.




[^43]
### 8.3.3 Figure 5 - Hudson/Harlem Questionnaire

## INBQUND (towards Manhattan)

1. What is the main purpose of your INBOUND trip today?
(Pleace select one answer only)

- Commufing to / from regular workplace
a Commufing to / from school
- For business reasons (not to regular workplace)

I Personal business (e.g., medical / visting)
Shopping

- Recreation (e.g., diring / entartainment / vacation)
- Other, please specily:

2. Where did you begin your INBOUND trip? (NOT the Metro-North station. Please print clearly.)
ZIP Code, If knowr $\qquad$
City / Town: $\qquad$ State: $\qquad$
Address / Nearest intersection:
3. What type of place is this? (Plesse select one answer only.)

I My Home a Friend/Family Home
I My Work a Recreation / Tourism / Hotel
a My School a Other: $\qquad$
4. IV you did NOT begin your INBOUND trip from home, please tell us your home zip code. ZIP Code: $\qquad$
5. At which Metro-North station did you begin your INBOUND trip?
6. How long did it take to get to this station? $\qquad$ minutes
7. How did you get there? (Please select all that apply.)

L Drove alone and parked
Drove or rode with others and parked, plesse indicate the number of people in the car including yoursel: $\qquad$

- Dropped ofl

I Waiked
Bus, please specily route or bus number: $\qquad$

- Taxi / Car Service / Uber
- Bicycle
- Ferry
- Amtrak

I Shore Line East
Other, pleasee specily: $\qquad$
8. In the course of your INBOUND trip, will (did) you transfer between Metro-North trains to reach your final destination?
I No

- Yes, piease specily the transfer stanion(s):
I Croton-Hamon I Whine Plains a South Norwalk
I Southeast
I Eridgeport
Noth White Plains ol Other, please specily:

9. At which Metro-North station will you complete your INBOUND Metro-North trip?
This should not be the same station where you began your inbound top (question 5).

| I Grand Cantral Terminal | I While Plains |
| :--- | :--- |
| I Hatlem-125* Street | I Greenwich |
| I Fordham | I Stanford |

a Other, please specily: $\qquad$
10. How will you get from your last Metro-North station to your FINAL. destination? (Please seiect all that apply.)
C Wak

- Taxi / Car Service / Uber
- Bus, please specily the first route or bus number:

U Subway, please specily the firet subway line:


- Drive alone
- Drive or ride with others, please inclicate the number of people in the car incuding yoursel: $\qquad$
- Pickedup
- Other, please specily: $\qquad$

11. After exiling your last Metro-North train, how many subways and/or buses will you take to reach your final destination?

- 01 प 2 - 4 - 5 or more

12. Will you use a MetroCard on your way to your final destination?

- No
- Yes, please specily the type of card you will use:
- Unimited Ride MetroCard
- Regular Pay-Per-Fide MetroCard, please specily value:

LI Less than $\$ 5$ a $\$ 5$ or more to receive a bonus - Other type, please specily: $\qquad$
13. What is the final destination for your INBOUND trip? (Not the MetroNorth train station, subway station, or bus stop) (Please print clearly.) This should not be the same as your answer to question 2
ZIP Code, if known $\qquad$
City / Town: $\qquad$ -

Address / Nearest Intersection:
14. What type of place is this? (Please select one answer only.)
a My Home $\square$ Friend/Family Home

- My Work Recreation/Tourism / Hotel

I My School O Other.
15. How long will it take to get from your last Metro-North station to your final destination? $\qquad$ minutes
16. What type of train ticket did you use for this INBOUND trip? (Please select one black ticket type and one corresponding orange ilem.)

| - Monthly | - Weakly |
| :---: | :---: |
| a With UnTicket <br> - Wehout UniTicket | a Win UnTicker <br> a Whthout UniTicket |
| a One Way <br> - Peak/intermediate Ol-Peak <br> - Senior / Disabled | Round Trip a Peak / Intermediate a Ol-Peak a Senior / Disabled |
| - Ten-Ttip <br> - Peak/intermediate <br> I Oll-Peak <br> - Senior / Disabled | - Other <br> (please specify) |

17. Where did you purchase your ticket for your INBOUND trip today?
a Ticket Vending Machine
Mail\&Fide

- Ticket Window

On-board Train
a WebTicket (via Intemet)
O Other, please specily:

- Mobile device

QUTBOUND (away from Manhattan)
18. When will (did) you make the other half of your trip going OUTBOUND (away from Manhattan)? (Please select one answer only)

- Same day

I Dilferent day, please indicate date (mm/dd/yyy):
I I will (did) not make an outbound trip (go to question 22)
19. Will (did) you use Metro-North for your outbound trip?

- Yes, scheduled train departuve bime:

IAM I PM (check ane)

- No, please describe how you will make (made) this trip:
(II no, go to question 22)

20. Will (did) you use the SAME Metro-North stations for your

OUTBOUND trip?

- Yes (go to ques5ion 22)
a No

21. What Metro-North stations will (did) you use for your outbound trip?

First Metro-North station going outbound:
How will (did) you get to your first Metro-North station?
(Please select all that apply.)

- Bus, pease specily the first route or bus number: $\qquad$
- Subway. please specily the first subway line:
 प958 - 3 O Other line, specily:
- Other method, please specily. Last Matro-North station where you will get off (got off):


## TELLUS MORE ABOUT HOW YOU TRAVEL

22. How long have you been using Metro-North?
$\qquad$
23. Do you travel on Metro-North for:

- Work purposes ONLY

I Non-work purposes ONLY

- Both

24a. In the past saven clays (including foday), how many INBOUND trips towards Manhattan did you make on Metro-North?
(Please indicate total number): $\qquad$ trips
24b. How many of those $\operatorname{INBOUND}$ trips were taken at each of the following periods? (II none, please wite $0^{\circ}$ in the boxes.)

| Weekday |  |  |
| :--- | :--- | :---: |
| Time you arrived at fina/ MNR station |  |  |
| $5: 30 \mathrm{AM}-10.00 \mathrm{AM}$ |  |  |
| $10: 01 \mathrm{AM}-3.59 \mathrm{PM}$ |  |  |
| $4: 00 \mathrm{PM}-8.00 \mathrm{PM}$ |  |  |
| $8.01 \mathrm{PM}-2.00 \mathrm{AM}$ |  |  |


| Weekend |  |
| :--- | :--- |
| Saturday <br> (All day) |  |
| Sunday <br> (All day) |  |

25 a . In the past saven days (including today), how many OUTBOUND trips away from Manhattan did (will) you make on Metro-North?
(Please indicate total number): $\qquad$ trips
25b. How many of those OUTBOUND trips were (will be) taken at each of the following periods? (II none, please write " $\sigma$ ' in the boxes.)

26. How do you typically pay for your Metro-North fare?
(Please select all that apply.)

- Cash
- Debit / Credit card

Transit woucher / Commuter beneff account

## ABOUT YOU

This information is strictly confidential and used to better communicate with and understand our customers and their needs.
27. Which of the following have you used in the last 30 days? (Please select all that apply.)
Desktop or laptop computer $\quad$ Teut message (sent or received)

- Tablet/iPad
- Atransit app or widget
- Cell phone without internat access

I Facobook

- Smartphone, cell phone, or

PDA wifl internet access
28. Are you a licensed driver? Yes I No
29. How many licensed drivers (including yourself) are in your household? $\qquad$
30. How many operable motor vehicles (cars, motorcycles, pickup trucks, SUVs, or vans) are in your household? $\qquad$
31. Did you have a vehicle available for your INBOUND trip? - Yes No
32. On average, how many trips do you make into Manhattan BY CAR per month? $\qquad$
33. Do you have any physical disabilities? (Please select all that apply.)
No, I do not
U Use a mobility aid (cane, otc.)

Dilliculty with or inability to climb stairs
U Use a wheelchair
. Have a hearing impairment
34. What is the last grade of school you completed?

Did not graduate high school Some college

- High school graduate College graduate
- Tectrical or vocational business school $\square$ Post graduate


[^44]
### 8.3.4 Figure 6 - New Haven Questionnaire

## 11TA Metro-North Railroad

TRAVEL SURVEY


Dear MTA Metro-North Customer,
Please take a few minutes to complete this survey and be entered for a chance to win \$250! We would like to know more about how you travel and use our rail system to help us improve the service we provide. All information is important to us and will be kept confidential. If you have already filled out this questionnaire on a previous trip, please complete it again. Thanks for your time!
Returning this survey is easy - you can:

1) Give it back to survey personnel on beard your train
2) Mail it back postage-free
3) Answer online at www.srbsurvey.com/MNRSurvey by entering the password printed on this page.
Complete this survey for a chance to win one of ten $\$ 250$ cash prizes.
See www.srbsurvey.com/MNRSurvey/rules.html for more details.
Thank you very much for your cooperation.
Pppradimately every two months, a random crawing will be hadd to osiect the wirner of a $\$ 250$ cash prize. To be eligble, you must complites the





## Your Password / Su Contraseña:

Estimado cliente de MTA Metro-North,
Le pedimos dedicar unos minutos para completar esta encuesta y tener la oportunidad de ganar \$250.
Quisiéramos saber más sobre la manera en que usted viaja y utiliza el sistema ferroviario para ayudarnos a mejorar el servicio que ofrecemos. Toda la información es importante para nosotros y se mantendrá confidencial. Si usted ya ha llenado este cuestionario en un viaje anterior, pedimos que lo llene nuevamente. ¡Gracias por su tiempo!
Es fácil entregar esta encuesta, puede:

1) Regresarla al personal de encuestas a bordo del tren
2) Enviarla por correo sin costo alguno
3) Conteste a través del Internet en www.srbsurvey.com/MNRSurvey usando la contraseña que aparece en esta página.
Complete esta encuesta para una oportunidad de ganar uno de diez premios de \$250 en efectlvo.
Vaya a www.srbsurvey.com/MNRSurvey/rules.html para más detalles.
Gracias por su cooperación.






Please complete this important survey for a chance to win $\$ 250$ !
Complete esta encuesta importante para tener una oportunidad de ganar \$250,

## INBOUND (towards Manhattan)

1. What is the main purpose of your INBOUND trip today?
(Please select one answer only.)

- Commuting to / from regular workplace
- Commuting to / from school
- For business reasons (not to regular workplace)
- Personal business (e.g., medical / visiting)

Shopping
Recreation (e.g., dining / entertainment/ vacation)

- Other, please specify:

2. Where did you begin your INBOUND trip? (NOT the Metro-North station. Please print clearly.)
ZIP Code, if known: $\qquad$
City / Town: $\qquad$
$\qquad$ State: $\qquad$
Address / Nearest Intersection:
3. What type of place is this? (Please select one answer only.)
My Home

- Friend / Family Home
My Work Recreation / Tourism / Hotel
My School Other:

4. If you did NOT begin your INBOUND trip from home, please tell us your home zip code. ZIP Code: $\qquad$
5. At which Metro-North station did you begin your INBOUND trip?
6. How long did it take to get to this station? $\qquad$ minutes
7. How did you get there? (Please select all that apply.)

- Drove alone and parked
- Drove or rode with others and parked, please indicate the number of people in the car including yourself: $\qquad$
- Dropped off
- Walked
- Bus, please specify route or bus number: $\qquad$
- Taxi / Car Service / Uber
- Bicycle
- Ferry
- Amtrak
- Shore Line East
- Other, please specify: $\qquad$

8. In the course of your INBOUND trip, will (did) you transfer between Metro-North trains to reach your final destination?

- No
- Yes, please specify the transfer station(s):
Croton-Harmon $\quad$ White Plains $\quad$ South Norwalk

North White Plains Other, please specify:
Stamford
$\qquad$
9. At which Metro-North station will you complete your INBOUND

Metro-North trip?
This should not be the same station where you began your inbound trip (question 5).
Grand Central Termina

- White Plains
- Harlem-125 ${ }^{\text {In }}$ Street
Greenwich
- Fordham $\qquad$ Stamford
- Other, please specify:

10. How will you get from your last Metro-North station to your FINAL destination? (Please select all that apply.)

- Walk
- Taxi / Car Service / Uber

Bus, please specify the first route or bus number:

- Subway, please specify the first subway line:

> - 123 - 3 - (B) (1) (1) -45 6 (3) Other line, specify:

- Drive alone
- Drive or ride with others, please indicate the number of people in the car including yourself: $\qquad$
- Picked up
- Other, please specify:

11. After exiting your last Metro-North train, how many subways and/or buses will you take to reach your final destination?

- 0 - 1 - 3 - 5 or more

12. Will you use a MetroCard on your way to your final destination?

- No
- Yes, please specify the type of card you will use:

Unlimited Ride MetroCard

- Regular Pay-Per-Ride MetroCard, please specify value: - Less than \$5 - $\$ 5$ or more to receive a bonus - Other type, please specify:

13. What is the final destination for your INBOUND trip? (Not the MetroNorth train station, subway station, or bus stop) (Please print clearly.) This should not be the same as your answer to question 2.

ZIP Code, if known: $\qquad$
City / Town: $\qquad$
$\qquad$ State: $\qquad$
Address / Nearest Intersection: $\qquad$
14. What type of place is this? (Please select one answer only.)

- My Home
- Friend/ Family Home
. My Work Recreation / Tourism / Hotel
- My School
- Other: $\qquad$

15. How long will it take to get from your last Metro-North station to your final destination? $\qquad$ minutes
16. What type of train ticket did you use for this INBOUND trip? (Please select one black ticket type and one corresponding orange item.)

| $\square$ Monthly | - Weekly |
| :---: | :---: |
| - With UniTicket | - With UniTicket |
| - Without UniTicket | - Without UniTicket |
| - One Way | - Round Trip |
| ] Peak/Intermediate | - Peak/Intermediate |
| - Off-Peak | - Off-Peak |
| ] Senior / Disabled | - Senior / Disabled |
| - Ten-Trip | - Other |
| - Peak/Intermediate |  |
| - Off-Peak |  |
| - Senior / Disabled | (please specity) |

17. Where did you purchase your ticket for your INBOUND trip today?

Ticket Vending Machine

- Mail\&Ride
- Ticket Window

On-board Train

- WebTicket (via Internet)
- Other, please specify:
- Mobile device
(ole

OUTBOUND (away from Manhattan)
18. When will (did) you make the other half of your trip going OUTBOUND (away from Manhattan)? (Please select one answer only.)

- Same day
] Different day, please indicate date ( $\mathrm{mm} / \mathrm{dd} / / \mathrm{yyy}$ ):
I I will (did) not make an outbound trip (go to question 22)

19. Will (did) you use Metro-North for your outbound trip?

- Yes, scheduled train departure time: __ : I AM PM (check one)
- No, please describe how you will make (made) this trip:
(If no, go to question 22)

20. Will (did) you use the SAME Metro-North stations for your OUTBOUND trip?
Yes (go to question 22) No
21. What Metro-North stations will (did) you use for your outbound trip? First Metro-North station going outbound:

How will (did) you get to your first Metro-North station? (Please select all that apply.)

- Bus, please specify the first route or bus number: $\qquad$
- Subway, please specify the first subway line:
-123 - 7 - (B) ( 1 (1) -456 - (3) Other line, specify:
- Other method, please specify:
$\qquad$
Last Metro-North station where you will get off (got off):

TELL US MORE ABOUT HOW YOU TRAVEL
22. How long have you been using Metro-North?
$\qquad$ years _ months
23. Do you travel on Metro-North for:

- Work purposes ONLY

Non-work purposes ONLY
Both
24a. In the past seven days (including today), how many INBOUND trips towards Manhattan did you make on Metro-North?
(Please indicate total number): $\qquad$ trips

24b. How many of those INBOUND trips were taken at each of the following periods? (If none, please write " 0 " in the boxes.)

| Weekday <br> Time you arrived at fin | $R$ station | Weekend |  |
| :---: | :---: | :---: | :---: |
| 5:30 AM - 10:00 AM |  | urday |  |
| 10:01 AM - 3:59 PM |  |  |  |
| 4:00 PM - 8:00 PM |  |  |  |
| 8:01 PM - 2:00 AM |  |  |  |

25a. In the past seven days (including today), how many OUTBOUND trips away from Manhattan did (will) you make on Metro-North? (Please indicate total number): $\qquad$ trips

25 b . How many of those OUTBOUND trips were (will be) taken at each of the following periods? (If none, please write " 0 " in the boxes.)

| Weekday |  |  |
| :---: | ---: | :---: |
| Time you departed from first MNR station |  |  |
| 5:30 AM - 9:00 AM |  |  |
| 9:01 AM - 3:59 PM |  |  |
| 4:00 PM - 8:00 PM |  |  |
| 8.01 PM - 2.00 AM |  |  |


| Weekend |  |  |
| :--- | :--- | :---: |
| Saturday <br> (All day)  <br> Sunday <br> (All day)  C |  |  |

26. How do you typically pay for your Metro-North fare?
(Please select all that apply.)

- Cash
- Debit / Credit card
- Transit voucher / Commuter benefit account


## ABOUT YOU

This information is strictly confidential and used to better communicate with and understand our customers and their needs.
27. Which of the following have you used in the last $\mathbf{3 0}$ days?
(Please select all that apply.)
Desktop or laptop computer
Tablet / iPad

- Cell phone without internet access
- Smartphone, cell phone, or PDA with internet access

27a. Have you visited any businesses within a half-mile of your INBOUND boarding station (towards Manhattan) on your way TO or FROM the train in the past 30 days?

- Yes No (go to question 28)

27b. Please estimate how often you visit and the amount (\$) you spend at the following types of businesses on your way TO or FROM your INBOUND boarding station (towards Manhattan).

| Business Type | Times Visited <br> (past 30 days) | Amount (\$) Spent <br> (past 30 days) |
| :--- | :--- | :--- |
| Sit down restaurants |  |  |
| Fast Food/ Coffee / Deli |  |  |
| Supermarket / Convenience Store |  |  |
| Personal services (e.g., dry cleaning. <br> hair and personal care) |  |  |
| Retail (e.g., clothing, home <br> furnishings, gifts) |  |  |
| Auto related repair and service |  |  |
| Childcare or related |  |  |
| Other, please specify: |  |  |

27c. From the list below, please select the TWO types of businesses or services that are most important to have near your INBOUND boarding station (towards Manhattan).

- Sit down restaurants
- Fast food/coffee/deli
- Supermarket/convenience store
- Personal services (e.g., dry cleaning, hair and personal care)

Retail (e.g., clothing, home furnishings, gifts)

- Auto related repair and service
- Childcare or related
- Other, please specify:

28. Are you a licensed driver? Yes No
29. How many licensed drivers (including yourself) are in your household?
30. How many operable motor vehicles (cars, motorcycles, pickup trucks, SUVs, or vans) are in your household?
31. Did you have a vehicle available for your INBOUND trip? - Yes No
32. On average, how many trips do you make into Manhattan BY CAR per month?
33. Do you have any physical disabilities? (Please select all that apply.) No, I do not

Use a mobility aid (cane, etc.)

- Difficulty with or inability to climb stairs Are legally blind
- Use a wheelchair
- Have a hearing impairment

34. What is the last grade of school you completed?

| Did not graduate high school | Some college |
| :--- | :--- |
| College graduate |  |
| Tigh school graduate | Technical or vocational business school |

Technical or vocational business school Post graduate
35. What is your current employment status?

| - Employed full-time ( $35+\mathrm{hrs} / \mathrm{wk}$ ) | - Full-time or part-time student |
| :---: | :---: |
| - Employed part-time (20-35 hrs/wk) | - Unemployed (go to question 39) |
| - Employed part-time (<20 hrs/wk) | - Homemaker (go to question 39) |
| - Self-employed outside the home | - Retired (go to question 39) |
| - Self-employed at home |  |

36. Which answer below best describes your type of job or occupation?
(Please select one answer only.)

- Professional, Technical \& Related
- Machine Operators,

Executive, Administrative \& Managerial Assemblers \& Inspectors

- Service Occupations
- Precision Production
- Administrative Support, Including Clerical Craft \& Repair
- Transportation \& Material Moving

General Labor
37. In which of the following industries are you employed?
(Please select one answer only.)

- Construction

Natural Resources / Mining

- Education
. Health Services / Health Care
- Financial Activities
- Government
- Wholesale Trade
- Information
- Leisure and Hospitality
- Manufacturing
- Professional / Business Services
- Transportation and Utilities
- Retail Trade
- Other services, please specify:

38. Does your employer allow you to telecommute or work from home? . No

- Yes, please specify how often you telecommute:

| a 5 or more days per week | Less than 1 day per week but |
| :--- | :--- |
| 4 days per week | more than 1 day per month |
| 3 days per week | 1 a |
| 2 days per week | Never |
| 1 day per week |  |

39. How many people (including yourself) live in your household? $\qquad$
40. How many people (including yourself) in your household are employed?
41. What is your household income before taxes and other deductions?
(Please select one answer only.)
Less than $\$ 11,500$ - $\$ 25,000-\$ 27,999$ $\$ 75,000-\$ 99,999$


- $\$ 12,500-\$ 15,799 \quad \$ 32,000-\$ 35,999 \quad$ - $\$ 150,000-\$ 199,999$
- \$15,800-\$19,799 \$ $\$ 36,000-\$ 39,999$ - $\$ 200,000-\$ 299,999$
- \$19,800-\$23,799 \$40,000-\$49,999 \$300,000 or more
- \$23,800-\$24,999 \$50,000-\$74,999

42. Do you own a credit or debit card? Yes No
43. Are you...? Male Female
44. What is your age? $\qquad$ yeârśs
45. Are you of Hispanic, Latino, or Spanish origin? Yes No
46. Are you...?

White Black or African American
Asian American Indian or Alaska Native
Native Hawaiian or Other Pacific Islander Racially mixed
Other, please specify: $\qquad$
47. How well do you speak English?
$\square$ Very well a Well Not well Not at all
48. What is the primary language spoken in your home?

English
Spanish

- Other, please specify: $\qquad$

49. In what country were you born?

- United States Other, please specify: $\qquad$
To be eligible for the $\mathbf{\$ 2 5 0}$ cash prize, please fill in your contact information.
Name: $\qquad$
Street: $\qquad$
City / Town: $\qquad$ State: $\qquad$ Zip: $\qquad$ Telephone: $\qquad$
Email:
May we contact you to participate in future MTA research? Yes No


### 8.3.5 Figure 7 - Bronx Stations Supplemental Survey Questionnaire

As mentioned in section 2.4 (General Travel Behavior Methodology), a supplemental in-person survey was also conducted on platforms among riders boarding at select Bronx stations during select dayparts. This questionnaire encompassed the 16 most critical survey questions and collected information on: trip purpose; trip origin location and location type; home zip code (if origin was not home); origin station access mode(s); destination station; egress mode(s) from destination station to final destination location; destination location and location type; number of inbound trips in past 7 days; number of people in the household; household income; age; primary language spoken at home; and race and ethnicity. In addition to questions directly asked of respondents, interviewers also noted and recorded the origin station and respondent's gender and English proficiency. The supplemental survey questionnaire is shown on the following page.


### 8.4 Survey Cleaning

In order to qualify as a completed survey, a record had to contain both an origin and destination station. These two data points were required for data expansion. If the origin station was missing, a reviewer would refer to the count forms of the corresponding train. Inbound count forms contained fields to indicate the topmost survey PIN number for each station. This information would enable a reviewer to identify which station the survey's PIN number was associated with.

Other questions in the survey were carefully reviewed for consistency as well. In any instance where a sub-question was filled out but the parent question was not, the parent question was filled in by a review. For example:

- If a respondent specified a subway line for their egress mode, but did not fill out the parent question indicating that the subway was used, the subway option was be filled in.
- If a respondent wrote a response in an Other-Specify field, the reviewer would make sure the "Other" option in the parent question was also selected.

In addition to this type of cleaning, Abt Associates reviewed the aggregate survey data after it was data entered to determine whether any "code-ups" into existing response categories were necessary. For example, a code-up to the existing category "Recreation" was made if a respondent indicated "have a meal" or "see a play" in the Other-Specify response for the trip purpose question since those are considered recreational purposes.

### 8.5 Geocoding

The agreed upon geocoding procedures included the following steps:

## Step 1 - Survey data were geocoded by Line with address questions consolidated for geocoding.

a. Consolidation - Survey questions with address data requiring geocoding were Question 2 Trip origin location (Q2), Question 4 - Home ZIP code if trip did not begin at home (Q4), and Question 13 - Destination location (Q13).

Each of these had distinct address fields such as:
"Q2_ADDR" (address)
"Q2_CITY" (city/town)
"Q2_STATE" (state)
"Q2_ZIP" (ZIP code)
For geocoding purposes, the three questions containing address information were temporarily consolidated (with unique identifiers based on Respondent ID and question number) in order to make geocoding more streamlined and uniform. This process aided consistency in geocoding by ensuring duplicate address information was coded identically among the three questions After geocoding was completed, the original Q2, Q4, and Q13 fields were populated back to their original question structure via the unique identifier.

## Step 2 - Consolidated address data were cleaned and standardized using both manual review and an automated process.

a. The data in the City field were cleaned and standardized using manual review.
b. The data in the Address field were standardized using an automated process which identified syntax patterns and made the appropriate changes ("\&" to "and", "Ave" to "Avenue", etc.)

Step 3 - Standardized address data were then categorized according to the input data quality in Q_ADDR, Q_CITY and Q_ZIP.

The address data was parsed and categorized by the following levels of completeness via an automated process.
a. Complete location (data provided in Q_ADDR, Q_CITY, and Q_ZIP)
b. Address only (data provided only in Q_ADDR, not in Q_CITY and not in Q_ZIP)
c. ZIP code (data provided in Q_ZIP, not in Q_ADDR, but possibly in Q_CITY)
d. City (data provided only in Q_CITY, not in Q_ADDR, not in Q_ZIP)
e. Null (no valid address data provided in Q_ADDR, Q_CITY, and Q_ZIP)

## Step 4 - Categorized address data were matched to geocoding tables and geocoded through

 table merges.Categorized address data were matched to internal geocoding tables or lists provided by MNR. Addresses were compared to the following lists:
a. US ZIP Centroids List
b. NY ZIP Buildings List
c. One ZIP Area List
d. Hamlet List
e. MNR Station Locations List
f. Places of Interest/Neighborhoods List

The address data were matched to corresponding address fields in the lists (e.g. Q_ZIP was compared to the ZIP Codes in the US ZIP Centroids List, Q_CITY was compared to the Hamlet List, etc.) and if a match was found the GIS data from the list were joined to the address data list via a table join. Addresses which could not be matched were processed through the batch geocoders.

Step 5 - Remaining address data were geocoded using a batch geocoder which utilized both Google Maps API and Bing Maps API.
a. Address records were run through both Google Maps API and Bing Maps API using a batch geocoder.
b. Outputs were compared and if both Google and Bing returned the same result the output was accepted.
c. If Google and Bing returned different results the outputs were manually reviewed and the more accurate output was selected.
d. If both results were determined to be unsatisfactory then the record was flagged as ungeocodable.

## Step 6 - The geocoded address records were assigned a precision level.

The geocoding output included a "precision" field used to populate QACCU as output geocoding accuracy (i.e., what precision the coordinates represent). This variable can be used to guide use of geocoded address data depending on the type and intent of analysis being used.
a. $\quad$ QACCU $=0=$ Ungeocoded
b. $\quad$ QACCU $=1 \mathrm{a}=$ House number, street, city, state, and ZIP code
c. QACCU $=1 b=$ Street intersection, city, state, and ZIP code
d. $\quad \mathrm{QACCU}=1 \mathrm{c}=$ MNR Station Location
e. $\quad$ QACCU $=2 \mathrm{a}=$ Street, city, and ZIP code (no house number)
f. $\quad$ QACCU $=2 b=$ Street and city (no house number, no ZIP code)
g. $\mathrm{QACCU}=3 \mathrm{a}=\mathrm{ZIP}$ code
h. $\mathrm{QACCU}=3 \mathrm{~b}=$ Place of Interest/Neighborhood
i. $\quad \mathrm{QACCU}=4=$ City/Municipality

Step 7 - After geocoding and manual review were done final data quality checks were run.
a. The address data fields were examined for data integrity (i.e., numeric ZIP codes only in Q_ZIPGIS and 2 digit state codes in QSTATEGIS, etc.)
b. QACCU was filtered to make sure each precision level had the appropriate address fields.
c. Final coordinates in QX and QY were mapped and reviewed.

Step 8 - After data quality checks were completed, geocoded coordinates were assigned to zones.

All final QX (Longitude) and QY (Latitude) geocoded coordinates were assigned zones through a "spatial join" process which matched the coordinates with the zone data from shape files provided by MNR and MTA. The address data were assigned two separate zones, one using the MNR zone definitions (QZONE) and one using MTA zone definitions (QZONE2). Geocoded coordinates outside of the region were populated to QZONE as 99 "Out of Region".

## Step 9 - Address data was merged back into the survey data set.

Upon completion of all steps the consolidated address data were populated back accordingly to original questions of Q2, Q4, and Q13 data fields, from question number and temporary unique ID.

### 8.6 Survey Data Expansion

The base-level trip weights (level 0 ) were created using the following steps.

1. Variables holding origin and destination stations were created.
2. The records with origin and destination stations were checked (programmatically) for logical consistency. Inconsistent records were omitted from weighting, such as those with:
a. the same origin and destination station,
b. destination station to the north/outbound of the origin station,
3. Since each of the inbound trains was surveyed exactly once, and all passengers boarding the surveyed trains were offered an opportunity to complete the questionnaire, the base probability of selection for the valid cases was set to 1 .
4. To prepare the data for weight calibration procedures (raking), some records were grouped together to provide adequate sample sizes for stable calibration, relying generally on a commonly used criterion that every calibration cell should ideally have a sample size of at least 50 . The collapsing process relied on the following rules of admissible collapsing, in the given order of priority.
a. Within a given line, stations with the lowest counts of boardings/alightings were collapsed together, from the smallest count up.
b. Within a given line, stations were collapsed together according to adjacent geography, i.e., the order in which a train passes these stations. MNR staff provided lists of acceptable station groupings (with prioritized order of groupings) that served as guidance and limits for the collapsing of adjacent stations.
c. If collapsing according to the above rules still did not provide sufficient sample sizes, the dayparts could also have been collapsed together: Saturday + Sunday into the weekend travel; similar weekday dayparts collapsed together; all of the weekday dayparts collapsed together; and all of the dayparts across the weekday and the weekend collapsed together.
5. The above rules were generally applied to the survey data to find the minimal combinations of stations that had a cell size of generally 50 or more. The resulting categories of the calibration variables represented the interactions of daypart with individual stations, groups of stations within a line, and in some cases, combinations of dayparts for groups of small stations.
6. These rules were programmatically stored and applied to the calibration targets (the passenger counts).
7. A raking algorithm was used to calibrate the weights. In raking, weights were iteratively rescaled using each calibration variable one at a time, so that the weights were first rescaled to agree with the boardings within the daypart, then rescaled to agree with alightings by daypart, then rescaled to agree with boardings by station, then with alightings by station. Since after this cycle the weighted totals for boardings within the daypart likely had shifted away from the targets, the process looped back to adjust the weights to agree with the first variable. This process was repeated until the most optimal combination of weights that was possible was obtained, given the data and within the collapsing rules. Throughout the process, the weights were restricted to be at least 1 , so that: each case represented itself, if its weight was 1 ; and may have represented other non-responding cases, if its weight was greater than 1.

[^0]:    ${ }^{1}$ Generally, there were two field interviewers per car; exceptions were very low ridership trains where it was deemed more cost efficient to reduce staff.

[^1]:    ${ }^{2}$ Wakefield, Woodlawn; Williams Bridge; Fordham; Tremont; Melrose; Spuyten Duyvil; Marble Hill; University Heights; Morris Heights.
    ${ }^{3}$ Completed surveys represented less than $30 \%$ of riders or fewer than 15 total completed surveys for the station-daypart combination.

[^2]:    ${ }^{4}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak(10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^3]:    ${ }^{5}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak(10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^4]:    ${ }^{6}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak(10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^5]:    ${ }^{7}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak(10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^6]:    ${ }^{8}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak(10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^7]:    ${ }^{9}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak(10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^8]:    ${ }^{13}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^9]:    ${ }^{14}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^10]:    ${ }^{15}$ Respondents were allowed to report multiple access modes. As a result, the tables in this section can add up to more than $100 \%$.
    ${ }^{16}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^11]:    ${ }^{17}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^12]:    ${ }^{20}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^13]:    ${ }^{21}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^14]:    ${ }^{22}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^15]:    ${ }^{25}$ Respondents were allowed to report multiple egress modes. As a result, the tables in this section can add up to more than $100 \%$.
    ${ }^{26}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^16]:    ${ }^{27}$ Respondents were allowed to report multiple egress modes. As a result, the tables in this section can add up to more than $100 \%$.
    ${ }^{28}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^17]:    ${ }^{29}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^18]:    ${ }^{30}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^19]:    ${ }^{31}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^20]:    ${ }^{33}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^21]:    ${ }^{34}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM

[^22]:    ${ }^{35}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^23]:    ${ }^{36}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^24]:    ${ }^{37}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^25]:    ${ }^{38}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM

[^26]:    ${ }^{39}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^27]:    ${ }^{41}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^28]:    ${ }^{42}$ AM Peak (5:30 AM - 10:00 AM), Midday Off Peak (10:01 AM - 3:59 PM), PM Reverse Peak (4:00 PM - 8:00 PM), Late Night Off Peak (8:01 PM - 2:00 AM), Saturday (All day), Sunday (All day)

[^29]:    ${ }^{43}$ Riders were only surveyed in the inbound direction; they were asked to report about their return or previous trip.
    ${ }^{44}$ Total Answering for Outbound trips is less than what was reported for inbound trips; some respondents did not make an outbound trip, or did not answer the outbound trip questions.

[^30]:    ${ }^{45}$ Only respondents who indicated that they would make an outbound trip qualified for this question.

[^31]:    ${ }^{46}$ Only respondents who indicated that they would use Metro-North for their outbound trip qualified for this question.

[^32]:    ${ }^{47}$ Only respondents who indicated that they would use Metro-North for their outbound trip qualified for this question.

[^33]:    ${ }^{48}$ Outbound station information was pulled from Q21 if respondent used different outbound stations than inbound ones. If respondent used the same stations both outbound and inbound, Q9 inbound destination station information was pulled as the equivalent for the outbound origin station information.

[^34]:    ${ }^{51}$ Outbound station information was pulled from Q21 if respondent used different outbound stations than inbound ones. If respondent used the same stations both outbound and inbound, Q9 inbound destination station information was pulled as the equivalent for the outbound origin station information.

[^35]:    ${ }^{52}$ Stations where the response is very low were rolled up into the category "Other East of Hudson Stations" and are not listed individually in the table.

[^36]:    ${ }^{58}$ Respondents were allowed to report multiple disabilities.

[^37]:    ${ }^{59}$ Only respondents who indicated that they were employed part-time or full-time qualified for this question.

[^38]:    ${ }^{60}$ Only respondents who indicated that they were employed part-time or full-time qualified for this question.

[^39]:    ${ }^{63}$ Riders who appeared to be minors were not offered surveys.

[^40]:    ${ }^{64}$ Riders who appeared to be minors were not offered surveys.

[^41]:    ${ }^{65}$ During the survey field effort, MTA-MNR requested several new questions be added to the questionnaire. The focus was on businesses within a half mile of MNR stations, and respondents were asked to state how often they frequented certain establishments, as well as how much money they spent there. The information from these questions will help MTA-MNR assess the economic impacts of local businesses, understand spending patterns around stations, and inform Transit Oriented Development (TOD) planning efforts, and parking policies. Since the survey effort was already in progress, the additional questions were only asked of the New Haven Line riders.

[^42]:    ${ }^{66}$ Respondents could report multiple businesses visited in past 30 days.

[^43]:    Phase complate thls importart survey for a chance to win sesol
    Complete esta encussta importante para toner una oportunidad de ganar 5 :250

[^44]:    May we contact you to participate in future MTA research? Yes No

