APPLICATIONS RECEIVED BETWEEN APRIL 1, 2011 AND MARCH 31, 2012
(SEPTEMBER-OCTOBER 2012 SURVEY)

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Virginia Department of Rail and Public Transportation

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EXECUTIVE SUMMARY

This report presents results of a survey about commuter transportation assistance services offered by Rappahannock-Rapidan Commuter Services (Commuter Services), a program supported by the Virginia Department of Rail and Public Transportation (DRPT) and providing services to commuters living and/or working in the Northern section of Virginia. The survey was performed to measure the effectiveness of services provided by Commuter Services and assess commuters’ satisfaction with the services. As listed below, Commuter Services is one of nine DRPT-assisted commuter assistance programs in Northern Virginia. DRPT also supports five commuter assistance programs in Southern Virginia.

Northern Virginia
- Local Motion (City of Alexandria)
- Arlington County Commuter Services (Arlington County)
- Fairfax County RideSources (Fairfax County)
- Loudoun County Commuter Services (Loudoun County)
- Northern Neck Rideshare (Northern Neck)
- Northern Shenandoah Valley Commuter Assistance Program / RideSmart (Northern Shenandoah Valley)
- PTRC Omni Match (Prince William County)
- GW Ride Connect (Fredericksburg)
- Rappahannock-Rapidan Commuter Services (Rappahannock-Rapidan)

Southern Virginia
- Charlottesville & Central Shenandoah Rideshare (Charlottesville)
- TRAFFIX (Hampton Roads)
- Middle Peninsula Rideshare (Middle Peninsula)
- RideFinders (Richmond)
- Roanoke and New River Valley RIDE Solutions (Roanoke)

All of these programs offer services such as carpool and vanpool matchlists, transit route and schedule information, information on Park & Ride lot locations and HOV facilities, and telework assistance. Commuters obtain services by submitting information and service requests via the Commuter Services website or toll-free telephone number, or through an employer or a transportation management association (TMA). Additionally, some services are available for immediate download from the Commuter Services website.

We note that Commuter Services and the other eight Northern Virginia programs are coordinated with and, in some respects, linked to regional commuter services provided by the Metropolitan Washington Council of Governments’ Commuter Connections program. The nine local programs in Northern Virginia provide some services directly to commuters, but Commuter Connections performs ridematching, administers the regional Guaranteed Ride Home program, conducts commute-oriented advertising, and provides other travel information and support services throughout the Washington region.

For this reason, some assisted commuters would be aware only of the name, “Commuter Connections,” rather than the local program name. To account for this likelihood, respondents for the Northern Virginia programs were asked about services they received from the local program or from Commuter Con-
nections. We note that this will make it difficult to separate the local program influences or impacts of the Northern Virginia programs from the impacts of the regional support services offered in these areas.

Data for the analysis were collected through telephone surveys of respondents randomly selected from the applicant database. Eligible respondents included applicants who received information or assistance between April 1, 2011 and March 31, 2012.

**KEY SURVEY RESULTS**

**Demographics**
- Six in ten (60%) respondents are female, and four in ten (40%) are male.
- Almost eight in ten (79%) respondents are White/Caucasian. Nearly all (94%) are between 35 and 64 years old. The overwhelming majority (92%) of respondents has an annual household income of $60,000 or more and half (54%) have an income of $100,000 or more.

**Commute Travel Patterns**
- Almost half (47%) of respondents carpool or vanpool at least one day per week. Carpool and vanpool trips make up 41% of applicants’ weekly commute trips.
- One-third (34%) of respondents said they use transit at least one day per week. Transit trips account for 26% of applicants’ weekly commute trips.
- Applicants travel an average of 50.3 miles, one-way to work. Their average one-way commute time is 79 minutes.

**Commute Changes**
- Two-thirds (69.1%) of survey respondents made a commute pattern change or tried another method of transportation after receiving assistance from Commuter Services.
- About half (51.1%) of applicants made a change to an alternative mode that they had continued to use at least one day per week. This 51.1% is the “continued placement rate.” The temporary placement rate (percent of applicants who made a change but returned to their original modes) is 8.5%.
- About 3.2% of applicants tried using a new alternative mode a few days (one-time placement rate) and 6.4% made a change to a mode they use occasionally, but less than once per week on average (occasional placement rate).
- About 28% of respondents who made a mode change shifted from driving alone. The remaining 72% shifted from one alternative mode to another.
• About 40% of the respondents who made a commute change indicated that information they received from Commuter Services had influenced their decision to make a commute change and 27% said they were influenced by a service they received from their employer or another organization. About 15% of these respondents mentioned carpool/vanpool matchlist, and 8% mentioned transit schedule/route information provided by Commuter Services. Six percent (6%) mentioned that a discount/free transit pass or some other cash incentive provided by their employer had influenced their decisions.

Information and Assistance Requested and Received

• The top services received from Commuter Services overall, were Guaranteed Ride Home, and carpool/vanpool matchlist (62% of applicants respectively said they received or accessed these services, which are open to any commuter who uses an alternative mode to commute.)

• Three in ten (28%) applicants said they received a map showing home and work locations of potential carpool/vanpool partners.

• Other commonly-used services include transit schedule or route information (40%), transit fare information (38%), other carpool/vanpool information (33%), Park & Ride lot information (29%), and vanpooling assistance (21%).

• About two thirds (63%) of all applicants received names of potential rideshare partners. Of these applicants, 73% tried to contact someone named on the list and 97% who tried to make contact reached someone on the list.

• Approximately three-quarters of applicants (76%) also noted receiving services offered by their employers. The most widely-available services include telework (40%), discounted or free transit passes (37%), compressed work schedule (34%), and carpool/vanpool information (23%).

Commuter Services Improvements Desired

• When asked if there were anyway in which Commuter Connections/Commuter Services could improve their services, 49% offered one or more suggestions.

• Of those who mentioned improvements, many suggested improvements focused on improving the quality or quantity of the information provided: more current information (9%) and use Internet/more user friendly/improve website (5%). About one in ten (9%) also made suggestions for transit improvements.
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SECTION 1  OVERVIEW

PURPOSE OF THE REPORT

This report presents results of a survey about commuter transportation assistance services offered by Rappahannock-Rapidan Commuter Services (Commuter Services), a program supported by the Virginia Department of Rail and Public Transportation (DRPT) and providing services to commuters living and/or working in the Northern section of Virginia. The survey was performed to measure the effectiveness of services provided by Commuter Services and assess commuters’ satisfaction with the services. As listed below, Commuter Services is one of nine DRPT-assisted commuter assistance programs in Northern Virginia. DRPT also supports five commuter assistance programs in Southern Virginia.

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Data for the analysis were collected through Internet and telephone surveys of respondents who requested assistance from Commuter Services between April 1, 2011 and March 31, 2012. Data were collected during September and October 2012.
ORGANIZATION OF THE REPORT

The report is divided into two sections following this overview section:

- Section 2  Data Collection Methodology
- Section 3  Commuter Placement survey results

Following these sections is an appendix that presents the survey questionnaire.
SECTION 2 DATA COLLECTION METHODOLOGY

This section briefly describes the survey methodology used for this analysis.

QUESTIONNAIRE

The questionnaire used for Internet portion of this survey is shown in Appendix A. It was based on the questionnaire used for the November 2011 applicant survey conducted by the Metropolitan Washington Council of Governments’ Commuter Connections program, the regional ridematching program in Northern Virginia. Additionally, several questions were eliminated to reduce the length of the interview. No new questions were added.

A second version of the questionnaire was created for administration by telephone. The Internet and telephone versions differed only in the phrasing and format of the questions, with Internet questions designed for visual presentation and telephone questions designed for aural presentation. The telephone version was used to interview both applicants who provided only telephone numbers as contact information and applicants who provided email contact information but who did not respond to the Internet survey.

SAMPLE SELECTION AND ALERT LETTERS

The survey described in this report was conducted with applicants who received assistance from one of the 14 Virginia rideshare programs between April 1, 2011 and March 31, 2012.

Proposed Sample

A target was set for each of the 14 programs for the proposed number of completed interviews, depending on the number of commuters who had requested or accessed information or assistance during the April 2011 through March 2012 evaluation period. For programs with 350 or more applicants, the target was set at 175 completed interviews. Programs with fewer than 350 applicants were given a 50% target completion rate. As shown in Table 1, Rappahannock-Rapidan Commuter Services, which had an initial number of 320 applicants in the database, was assigned a target of 160.

Alert Letters

The initial survey sample for each commuter program was then divided into two groups: applicants who provided an email contact address and those who did not. Prior to the start of the Internet survey interviews, DRPT staff sent introductory letters via email to applicants who provided an email address. The letter informed the applicants of the survey, requested their participation, and provided a clickable link that directed them to the on-line survey. Approximately two to three weeks after the initial email invitation was sent, DRPT sent an email reminder to applicants who had not responded to the Internet survey.
Table 1
Applicant Counts, Proposed Samples, and Completed Interviews

<table>
<thead>
<tr>
<th>Starting Apps</th>
<th>Proposed Sample</th>
<th>Internet Complete</th>
<th>Telephone Complete</th>
<th>Total Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Northern Virginia Programs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alexandria</td>
<td>131</td>
<td>66</td>
<td>12</td>
<td>20</td>
</tr>
<tr>
<td>Arlington</td>
<td>124</td>
<td>62</td>
<td>11</td>
<td>20</td>
</tr>
<tr>
<td>Fairfax County*</td>
<td>1,078</td>
<td>175</td>
<td>142</td>
<td>54</td>
</tr>
<tr>
<td>Loudoun County</td>
<td>377</td>
<td>175</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td>Northern Neck</td>
<td>28</td>
<td>14</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Northern Shenandoah Valley</td>
<td>164</td>
<td>82</td>
<td>18</td>
<td>25</td>
</tr>
<tr>
<td>PRTC*</td>
<td>940</td>
<td>175</td>
<td>104</td>
<td>73</td>
</tr>
<tr>
<td>GWRC (Fredericksburg)*</td>
<td>2,110</td>
<td>175</td>
<td>231</td>
<td>9</td>
</tr>
<tr>
<td>Rappahannock-Rapidan</td>
<td>320</td>
<td>160</td>
<td>48</td>
<td>46</td>
</tr>
<tr>
<td><strong>Total NOVA</strong></td>
<td><strong>5,212</strong></td>
<td><strong>1,084</strong></td>
<td><strong>621</strong></td>
<td><strong>312</strong></td>
</tr>
<tr>
<td><strong>Southern Virginia Programs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charlottesville</td>
<td>173</td>
<td>87</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>Hampton Roads</td>
<td>567</td>
<td>175</td>
<td>51</td>
<td>25</td>
</tr>
<tr>
<td>Middle Peninsula</td>
<td>49</td>
<td>25</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Richmond*</td>
<td>2,219</td>
<td>175</td>
<td>283</td>
<td>1</td>
</tr>
<tr>
<td>Roanoke*</td>
<td>2,412</td>
<td>175</td>
<td>97</td>
<td>82</td>
</tr>
<tr>
<td><strong>Total SOVA</strong></td>
<td><strong>5,420</strong></td>
<td><strong>636</strong></td>
<td><strong>446</strong></td>
<td><strong>129</strong></td>
</tr>
</tbody>
</table>

* - Met target for completed interviews

Two weeks after the reminder email was sent, telephone calls were initiated to Internet non-respondents who provided a telephone contact number and to applicants who provided telephone contact but not an email address. Telephone interview calls were first directed to the respondent’s work number. If this contact was unsuccessful, the respondent was called at home. Up to five attempts were made to call each applicant.

**Completed Interviews and Confidence Levels**

As shown in the last column of Table 1, the program-level target of 160 for Commuter Services was not met, due to difficulties reaching applicants. A total of 94 interviews were completed, with 48 completed via the Internet and 46 completed via telephone. A large share of the applicants who received the emailed invitation did not complete the survey, although all were sent a reminder email. Follow-up telephone calls were attempted with respondents who provided a telephone number, but some could not be reached with five attempts and other applicants provided only an email address, thus follow-up telephone contact was not possible for all applicants.

During the interview process, some contact information was found to be invalid (e.g., inactive email address, number not in service, applicant no longer at the work or home address, etc.). These applicants
were removed from the applicant counts to derive a “valid applicant” count for each program. These counts are presented in the first column of Table 2. For Commuter Services, the valid applicant count was 310.

Table 2
Valid Applications, Interviews Completed, and Confidence Levels

<table>
<thead>
<tr>
<th></th>
<th>Valid Apps</th>
<th>Total Complete</th>
<th>Confidence Level</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Northern Virginia Programs</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alexandria</td>
<td>126</td>
<td>32</td>
<td>95 ± 15.0%</td>
</tr>
<tr>
<td>Arlington</td>
<td>119</td>
<td>31</td>
<td>95 ± 15.2%</td>
</tr>
<tr>
<td>Fairfax County</td>
<td>978</td>
<td>196</td>
<td>95 ± 6.3%</td>
</tr>
<tr>
<td>Loudoun County</td>
<td>359</td>
<td>110</td>
<td>95 ± 7.8%</td>
</tr>
<tr>
<td>Northern Neck</td>
<td>27</td>
<td>10</td>
<td>95 ± 25.1%</td>
</tr>
<tr>
<td>Northern Shenandoah Valley</td>
<td>156</td>
<td>43</td>
<td>95 ± 12.8%</td>
</tr>
<tr>
<td>PRTC</td>
<td>888</td>
<td>177</td>
<td>95 ± 6.6%</td>
</tr>
<tr>
<td>GWRC (Fredericksburg)</td>
<td>1,999</td>
<td>240</td>
<td>95 ± 6.0%</td>
</tr>
<tr>
<td>Rappahannock-Rapidan</td>
<td>310</td>
<td>94</td>
<td>95 ± 8.5%</td>
</tr>
<tr>
<td><strong>Total NOVA</strong></td>
<td>4,962</td>
<td>933</td>
<td>95 ± 2.9%</td>
</tr>
</tbody>
</table>

| **Southern Virginia Programs** |            |                |                  |
| Charlottesville        | 168        | 26             | 95 ± 17.7%       |
| Hampton Roads          | 542        | 76             | 95 ± 10.4%       |
| Middle Peninsula       | 46         | 10             | 95 ± 27.7%       |
| Richmond               | 1,939      | 284            | 95 ± 5.4%        |
| Roanoke Ride           | 2,196      | 179            | 95 ± 7.0%        |
| **Total SOVA**         | 4,891      | 575            | 95 ± 3.8%        |

Finally, Table 2 shows the confidence levels for each program and for the Northern Virginia and Southern Virginia combined samples. The confidence level for Commuter Services was 95% ± 8.5%, calculated for the total completes of 94, against the “valid applicant” base of 310. For Northern Virginia, the total sample of 933 on a base of 4,962 produced a confidence level of 95% ± 2.9%.
WEIGHTING OF SURVEY DATA

Respondent survey data for Northern Virginia and Southern Virginia were weighted to align survey results with the surveyed population of applicants in each of the individual programs comprising Northern Virginia and Southern Virginia. These weighted samples were used in the analysis of Northern Virginia and Southern Virginia sub-areas. No weighting was needed for analysis of the 14 individual programs.
SECTION 3  SURVEY RESULTS

A primary goal of Commuter Services’ services is to reduce commute vehicle trips, commute vehicle miles traveled, and emissions from commute travel by:

- Encouraging and assisting drive alone commuters to shift to commute alternative arrangements
- Assisting current commute alternative users to maintain their use of alternative modes or increase the number of days per week they use alternative modes

With these goals in mind, the survey collected data in the following primary topic areas, related to commuters’ travel patterns and influences on these patterns:

- Current commute patterns
- Alternative mode characteristics
- Recent commute pattern changes
- Use of information and assistance services received
- Influences of services on change
- Guaranteed Ride Home
- Telework/Telecommute services
- Demographics (age, income, ethnic group, sex, employer type and size)

Following are summaries of key results from each section of the survey. Percentages presented in the results tables generally show percentages of respondents who answered each question. But for tables in which the total number of respondents was very small, the actual number (frequency) of respondents is shown, in lieu of the percentage. For some questions, comparisons are shown between the results for Commuter Services respondents and all Northern Virginia respondents. Generally, the Northern Virginia combined responses are shown as percentages, weighted to the total population of Northern Virginia applicants, but the tables also show the raw number of Northern Virginia respondents (e.g., n=__) who answered the question.

CHARACTERISTICS AND DEMOGRAPHICS OF THE SAMPLE

Demographics

The survey asked respondents four demographic classification questions: sex, age, income, and ethnic group. Respondents are disproportionately female, 60% female to 40% male. The remaining demographic categories are summarized in Figure 1 and Tables 3 through 4.

Age – Almost all (94%) applicants are between 35 and 64 years old (Figure 1).
**Income** – As detailed in Table 3, 91% of respondents have an annual household income of $60,000 or more and 54% have an income of $100,000 or more.

<table>
<thead>
<tr>
<th>Income</th>
<th>Percentage</th>
<th>Income</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than $20,000</td>
<td>0%</td>
<td>$80,000 – 99,999</td>
<td>22%</td>
</tr>
<tr>
<td>$20,000 – 29,999</td>
<td>0%</td>
<td>$100,000 – 119,999</td>
<td>20%</td>
</tr>
<tr>
<td>$30,000 – 39,999</td>
<td>1%</td>
<td>$120,000 – 139,999</td>
<td>7%</td>
</tr>
<tr>
<td>$40,000 – 59,999</td>
<td>8%</td>
<td>$140,000 – 159,999</td>
<td>13%</td>
</tr>
<tr>
<td>$60,000 – 79,999</td>
<td>15%</td>
<td>$160,000 or more</td>
<td>14%</td>
</tr>
</tbody>
</table>

**Ethnic Background** – Next, as illustrated in Table 4, White/Caucasians and African-Americans represented the two largest ethnic group categories of survey respondents, 79% and 10% respectively. Asian/Pacific Islanders and Hispanics account for about 5% of the sample each respectively.
Table 4
Distribution by Ethnic Background
(n = 80)

<table>
<thead>
<tr>
<th>Ethnic Group</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Hispanic White</td>
<td>79%</td>
</tr>
<tr>
<td>African-American</td>
<td>10%</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>5%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>5%</td>
</tr>
<tr>
<td>Other</td>
<td>1%</td>
</tr>
</tbody>
</table>

Employment Characteristics

Respondents were asked about the type of employer for which they worked and the number of employees at their worksite. These results are shown in Figure 2 and Table 5, respectively.

**Employer Type** – More than half (53%) of respondents said they work for a federal agency (Figure 2). Three in ten (31%) work for a private sector employer. State and local government agencies employ 10% and 6% work for a non-profit organization.

Employer Size – As shown in Table 5, more than eight in ten (82%) respondents work for employers with more than 100 employees. More than half (55%) work for employers with at least 1,000 employees. About 18% of respondents said they work for organizations with 100 or fewer employees.
Table 5
Distribution by Employer Size
(n = 87)

<table>
<thead>
<tr>
<th>Number of Employees</th>
<th>Percentage</th>
<th>Number of Employees</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-25</td>
<td>7%</td>
<td>101-250</td>
<td>10%</td>
</tr>
<tr>
<td>26-50</td>
<td>8%</td>
<td>251-999</td>
<td>17%</td>
</tr>
<tr>
<td>51-100</td>
<td>3%</td>
<td>1,000+</td>
<td>55%</td>
</tr>
</tbody>
</table>

CURRENT COMMUTE PATTERNS

One section of the survey examined current commute patterns of applicants: commute mode, distance, travel time, and use of telecommute and alternative work schedules.

Weekly Commute Trips by Mode

Applicants were asked how many days in a typical week did they use each of a variety of transportation modes. These responses were used to calculate mode split as the percentage of weekly work day trips made by each mode. This depiction of mode split, presented in Figure 3, accounts for part-time and occasional use of modes.

Figure 3
Mode Split – Weekly Work Day Trips
(n=94)
The figure includes six traditional “on the road” mode groups for travel to job locations outside the home: train (subway, light rail, commuter rail), bus, vanpool, carpool, drive alone, and bike/walk. It also accounts for work days for which commute trips were eliminated through use of teleworking and compressed work schedule. While not “commute” modes in the conventional sense, they represent work days and so were included. Percentages in this figure are based on the number of days respondents actually worked, teleworked, or had a compressed schedule day off. Days not assigned to work are not included in the calculation.

Commuter Services applicant respondents drive alone for 24% of weekly commute trips, and 23% ride in a vanpool. The third most popular mode, used for 18% of weekly work trips, is carpool, and about 16% ride a train. One in ten (10%) trips is made by bus. Telework and compressed schedule days off eliminate about 9% of weekly commute trips.

If the telework and compressed schedule days off are excluded, the percentage use of each of the six travel modes “on the road” increases. For example, without telework and CWS, the carpool share rises from 18% to 20% of weekly commute trips. The weekly commute trip distribution for each “on the road” mode is:

- Drive alone 26%
- Vanpool 25%
- Carpool 20%
- Train 18%
- Bus 11%

Commuter Distance
Commuters in the survey have a wide range of commute distances, ranging from just one mile to 106 miles. The average one-way distance is 50.3 miles. This is much higher than the average 37.5 mile one-way distance for all Northern Virginia applicants in the survey.

Figure 4 presents the distribution of respondents in various distance categories. Two-thirds (67%) of respondents travel 40 miles or more to work and another 20% travel between 30 and 39 miles one-way. The remaining 13% commute less than 30 miles one-way.
Commute Travel Time

The one-way commute travel time of Commuter Services applicants ranges from 10 minutes to 150 minutes, with an average of 79 minutes. This is much higher than the average 64 minute travel time for all Northern Virginia applicants in the survey.

As illustrated in Figure 5, about two-thirds (66%) of respondents travel more than 60 minutes to work and 86% travel more than 45 minutes. About one in ten (14%) travels 45 minutes or less one-way.
Alternative Work Schedules

**Telework** – Four in ten (40%) applicants said they telework, at least occasionally. More than one-third of these applicants telework infrequently; 13% telework less than once per month/only in emergencies and 21% telework a few times each month. Six in ten (60%) telework one or two days per week, and 5% telework three or more days per week.

- Less than once per month/emergency 13%
- 1 – 3 times per month 21%
- 1 day per week 34%
- 2 days per week 26%
- 3 or more days per week 5%

**Compressed Work Schedule** – A small percentage (17%) of applicants reported working a compressed work schedule (CWS), in which they work a full work week in fewer than five days per week. The most common CWS arrangement, used by 14% of all respondents, is a 9/80 schedule, in which employees work nine days for a total of 80 hours over two weeks. Three percent of applicants work a 4/40 arrangement, that is, work four ten-hour days in one week.

**Current Pool Characteristics**

The second part of the survey collected data on occupancy and composition of carpools and vanpools and explored how ridesharers and transit riders access these commute modes.

**Carpool and Vanpool Size**

Almost half (47%) of survey respondents said they rideshare (carpool or vanpool) at least one day per week. Overall pool occupancy is 6.8 occupants, including the driver.

**Access to Carpools, Vanpools, and Transit**

Figure 6 presents the types of transportation carpoolers, vanpoolers, and transit riders use to travel to where they meet their pool partners or where they start their transit trip.

Eight percent (8%) of applicants said they are picked up at home, and 1% are dropped off by another carpool or vanpool. Almost six in ten (58%) drive to a central location and an additional 22% drive alone to the drivers home, where they leave their cars for the day. This is significant to the calculation of air quality impacts, because a large proportion of auto emissions are produced during the first few miles of a vehicle trip, when the engine is cold. Even though these trips tend to be short, an average of just 12 miles, these trips must be accounted for in an air quality analysis.
RECENT COMMUTE PATTERN CHANGES

The third survey section asked applicants about commute pattern changes they made since receiving assistance from Commuter Services. Data were collected on types of changes made, “permanence” of change, reasons for changes, and details of commute patterns before the changes occurred. To ensure that all shifts were captured, the survey asked applicants a series of questions about various mode changes they might have made:

- Joining or forming a new carpool or vanpool
- Starting to ride a bus, Metrorail, light rail, or a commuter train
- Starting to bicycle or walk
- Starting to telework

Applicants who said they did not make a mode change were asked if they had increased the number of days they use alternative modes they already were using, if they added a person to an existing carpool or vanpool, or if they had tried using any other type of transportation.

Applicants who made any of these changes were considered to have been “placed” in alternative modes. These shifts are measured by the placement rate, defined as the percentage of respondents who made an alternative mode change after they received assistance, divided by the total number of respondents surveyed.
Four types of alternative mode changes were measured:

- **Continued** – applicant made a change and was still using the new mode at the time the survey was conducted
- **Occasional** – applicant made a change and was still using the new mode, but used the alternative mode less than one time per week
- **Temporary** – applicant made a change, but stopped using the new mode before the survey was conducted
- **One-time** – applicant briefly tried an alternative mode, but used it less than one week

Temporary shifts are reported separately from continued shifts, because they cannot be counted toward long-term reduction in vehicle trips, VMT, or emissions. Occasional and one-time shifts also are reported separately because their contribution to vehicle trips, VMT, and emissions is very minor.

**Types of Changes Made**

More than two-thirds (69.1%) of the Commuter Services applicants reported some type of alternative mode change after receiving commute assistance (Figure 7). By comparison, the change percentage among all Northern Virginia applicants was 66.4%.

![Figure 7](image-url)

**All Commute Changes Made – Commuter Services Applicants**

- **Started / tried transit** 19.1%
- **Started / tried carpool** 17.0%
- **Started / tried vanpool** 12.8%
- **Started / tried telework** 6.4%
- **Added person to existing pool** 13.8%
- **No change** 30.9%

69.1% made a change

Most of the Commuter Services applicants who made a mode change made a transit or carpool change. Two in ten (19.1%) started or tried transit and 17.0% joined or created a new carpool. More than one in ten (12.8%) started or tried vanpooling and 6.4% started or tried teleworking. About 13.8% said they
were carpooling or vanpooling before obtaining assistance from Commuter Services, but added another person to their existing pools.

Some respondents who made a mode change shifted from drive alone, but other shifted from one alternative mode to another. About three in ten (28%) respondents who made a change shifted from driving alone to an alternative mode. The remaining 72% of respondents were previously using an alternative mode, but made a change within these alternatives, for example, from carpool to vanpool, from bus to train, or from vanpool to train.

It is important to note the percentage of shifting between alternative modes, because commuters who made these shifts reduced vehicle trips only if they shifted to a higher occupancy mode (carpool to vanpool or vanpool to transit, for example) or increased the number of days they use the alternative. Some of these shifts, such as a shift from transit to rideshare, actually increased the number of vehicle trips the respondent made during the week, reducing the air quality benefit of the shift. This is not to say these were not desirable shifts from the perspective of the commuter, but these shifts must be accounted for in determining the transportation and air quality benefits of the services.

**Continued vs Temporary Change – Placement Rates**

Applicants who made a change to a mode they were using at least once per week at the time of the survey were classified as having made a “continued change.” Applicants who made a change to a mode they had not reported using during the time of the survey were asked if they still used the mode occasionally or if they had stopped using it. Applicants who said they had stopped using the mode were asked how long they had used the new mode after the change. Then, applicants were classified as “occasional,” “temporary,” or “one-time” by the duration of their change. Table 6 summarizes these results for both Commuter Services and the combined results of the nine Northern Virginia (NOVA) programs.

<table>
<thead>
<tr>
<th>Type of Change</th>
<th>Commuter Services (n = 94)</th>
<th>All NOVA (n = 934)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continued</td>
<td>51.1%</td>
<td>48.4%</td>
</tr>
<tr>
<td>Occasional</td>
<td>6.4%</td>
<td>4.9%</td>
</tr>
<tr>
<td>Temporary</td>
<td>8.5%</td>
<td>7.2%</td>
</tr>
<tr>
<td>One-time</td>
<td>3.2%</td>
<td>5.9%</td>
</tr>
<tr>
<td><strong>TOTAL – All Changes</strong></td>
<td><strong>69.1%</strong></td>
<td><strong>66.4%</strong></td>
</tr>
<tr>
<td>No change</td>
<td>30.9%</td>
<td>33.6%</td>
</tr>
</tbody>
</table>
About half (51.1%) of applicants made a change to a mode they were still using at least one day per week; these applicants made continued changes. Less than one in ten (6.4%) applicants made a change to a mode they were using, but using only occasionally, defined as less than once per week. And almost one in ten (8.5%) applicants made a temporary change, that is, they had already stopped using the new alternative mode by the time of the survey. On average, they had used the new mode for about nine weeks. Finally, 3.2% of applicants tried a new mode for less than one week. These applicants were classified as one-time changes.

The delineation of change duration described above is important because occasional, temporary, and one-time changes do not produce the ongoing travel and air quality impacts of the continued changes. The percentages of respondents who made continued, occasional, and temporary changes represent the “placement rates” for Commuter Services. These rates and the corresponding rates for all Northern Virginia programs combined are shown below:

<table>
<thead>
<tr>
<th></th>
<th>Commuter Services (n = 94)</th>
<th>All NOVA (n = 934)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continued placement rate =</td>
<td>51.1%</td>
<td>48.4%</td>
</tr>
<tr>
<td>Temporary placement rate =</td>
<td>8.5%</td>
<td>4.9%</td>
</tr>
<tr>
<td>Occasional use placement rate =</td>
<td>6.4%</td>
<td>7.2%</td>
</tr>
</tbody>
</table>

The placement rates can be used to estimate the total number of Commuter Services applicants who started using alternative modes. This is done by multiplying the placement rates by the total number of commuters who received assistance from the program.

Between April 1, 2011 and March 31, 2012, Commuter Services received applications from 320 commuters. Based on the survey results, it would be expected that approximately 211 of these commuters applicants) had started using a new alternative mode or increased their use of alternative modes:

- 163 continued shifts (51.1% x 320)
- 27 temporary shifts (8.5% x 320)
- 20 occasional use shifts (6.4% x 320)

Total of 211 placements (commute shifts)

Vehicle Trips and VMT Reduced

The specific changes made by respondents who reported a change were examined to estimate how many vehicle trips and vehicle miles traveled they eliminated by their shifts to alternative modes.

**Vehicle Trips Reduced** – *Vehicle Trips Reduced (VTR)* measures the number of vehicle trips no longer made as a result of commuters starting or increasing use of higher occupancy modes. The calculation also accounts for alternative modes shifts that do not reduce, and indeed may increase, vehicle trips, such as a shift from transit to carpool (lower occupancy mode than transit).
To simplify measuring the impacts of various shifts, “VTR factors” were estimated from the survey data. The factors combine the impacts of all respondents’ changes into a single number equal to the average number of vehicle trips reduced by commuters who switch modes. VTR factors can range between 0.0 and 2.0 vehicle trips reduced per day. A VTR of 2.0 indicates that all of the commuters whose travel shifts are averaged were previously driving alone and are now using a combination of “zero-vehicle” modes (transit, bike, walk, or telework) five days per week. Because a more typical situation is a combination of shifts to carpool and vanpool, as well as to zero-vehicle modes, and some shifting among alternative modes (e.g. transit to carpool), VTR factors are typically lower than 2.0.

VTR factors were derived from detailed examination of the types of changes reported by survey respondents. Factors were developed for both continued change and temporary change. The VTR factors for Commuter Services are shown below.

- Continued VTR = 0.45 daily trips reduced per placement
- Temporary VTR = 0.53 daily trips reduced per placement

These factors can be multiplied by the number of commuters who made continued and temporary changes, respectively, to estimate the vehicle trip reduction of all commuters placed in alternative modes. We note, however, that temporary changes must be discounted for their short duration. Commuter Services respondents who made a temporary change used their new modes an average of 8.8 weeks or 18% of a year (8.8 / 50 work weeks). This discount is factored into the calculation of trips reduced. These calculations would produce an estimate of 77 daily trips reduced:

Continued trips reduced = 163 commuters x 0.45 trips reduced = 74 daily trips reduced
Temporary trips reduced = 27 commuters x 0.53 trips reduced x 18% = 3 daily trips reduced

Total trips reduced = 77 daily trips reduced

**Vehicle Trips Reduced** – The reduction in vehicle miles traveled, or VMT, is calculated by multiplying the number of vehicle trips reduced by the average commute distance for respondents who made a commute change. The one-way trip distance was 54.6 miles for respondents with continued changes and 50.8 miles for respondents with temporary changes. The VMT calculation thus was as follows, resulting in 4,143 VMT reduced daily:

\[
\text{Total trips reduced} = \text{Continued trips reduced} \times 54.6 \text{ miles} + \text{Temporary trips reduced} \times 50.8 \text{ miles}
\]

\[
= 4,143 \text{ VMT reduced}
\]

**Reasons for Changes**

Applicants who said they had made a commute change were asked the reasons for their changes. Table 7 summarizes the responses.

Some applicants made the change for commute-related reasons: save time (19%), gas prices too high (13%), and save money (11%). Applicants also noted reasons associated with commute assistance services, such as found/change to carpool/vanpool (18%) or carpool/vanpool broke up (11%). Some applicants also mentioned a personal factor, such as changing jobs or work hours (15%) as the reason for making the change.
The wide range of reasons highlights emphasizes the potential for Commuter Connections and Commuter Services to market alternative modes through new employee orientations and through direct mail to those moving to new residences.

### Table 7
#### Reasons for Commute Change
\[(n = 62, \text{multiple responses permitted})\]

<table>
<thead>
<tr>
<th>Commute related reasons</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Commute / Parking-related reasons</strong></td>
<td></td>
</tr>
<tr>
<td>- Save time</td>
<td>19%</td>
</tr>
<tr>
<td>- Gas prices too high</td>
<td>13%</td>
</tr>
<tr>
<td>- Save money</td>
<td>11%</td>
</tr>
<tr>
<td>- Transit problems (slow, crowded, discontinued service)</td>
<td>5%</td>
</tr>
<tr>
<td><strong>Commute service reasons</strong></td>
<td></td>
</tr>
<tr>
<td>- Found / change to carpool or vanpool</td>
<td>18%</td>
</tr>
<tr>
<td>- Carpool or vanpool broke up / didn’t work out</td>
<td>11%</td>
</tr>
<tr>
<td><strong>Personal related reasons</strong></td>
<td></td>
</tr>
<tr>
<td>- Changed job/work hours</td>
<td>15%</td>
</tr>
<tr>
<td>- Health / injury / personal reasons</td>
<td>8%</td>
</tr>
<tr>
<td>- Convenience / easier / comfortable</td>
<td>5%</td>
</tr>
<tr>
<td>- Moved residence</td>
<td>5%</td>
</tr>
</tbody>
</table>

### SERVICES RECEIVED AND INFLUENCE OF SERVICES ON COMMUTE CHANGES

The survey also identified the types of services, information, and assistance that respondents received from Commuter Services or from Commuter Connections and services and programs offered by respondents’ employers. The survey also asked respondents about the influence of these services on commute changes.

**Information Received from Commuter Services / Commuter Connections**

When commuters contact Commuter Services or Commuter Connections, they have the option to request or access various types of assistance and information. In the survey, respondents were shown a list of services and were asked to check all that they remembered receiving or accessing. Table 8 lists the percentages of applicants who said they received each service, with services grouped into three categories: Carpool/Vanpool Services, Transit-Related Services, and Other / Multi-Mode Services.
Table 8  
Information Received or Accessed from Commuter Services / Commuter Connections and All Northern Virginia Applicants

<table>
<thead>
<tr>
<th>Service</th>
<th>Commuter Services (n = 94)</th>
<th>NOVA (n = 934)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Carpool / Vanpool Services</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matchlist – names of potential carpool / vanpool partners</td>
<td>62%</td>
<td>56%</td>
</tr>
<tr>
<td>Other carpool / vanpool information</td>
<td>33%</td>
<td>28%</td>
</tr>
<tr>
<td>Park &amp; Ride lot information</td>
<td>29%</td>
<td>27%</td>
</tr>
<tr>
<td>Carpool rider bulletin board</td>
<td>29%</td>
<td>29%</td>
</tr>
<tr>
<td>Map showing home / work locations of potential pool partners</td>
<td>28%</td>
<td>29%</td>
</tr>
<tr>
<td>Vanpooling assistance</td>
<td>21%</td>
<td>18%</td>
</tr>
<tr>
<td>HOV lane information</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td>NuRide rewards</td>
<td>12%</td>
<td>9%</td>
</tr>
<tr>
<td>’Pool Rewards carpool financial incentive</td>
<td>11%</td>
<td>9%</td>
</tr>
<tr>
<td>Vanpool leasing</td>
<td>10%</td>
<td>7%</td>
</tr>
<tr>
<td><strong>Transit-Related Services</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transit schedule / route information</td>
<td>40%</td>
<td>38%</td>
</tr>
<tr>
<td>Transit fare information, SmarTrip</td>
<td>38%</td>
<td>39%</td>
</tr>
<tr>
<td><strong>Other / Multi-Mode Services</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guaranteed Ride Home</td>
<td>62%</td>
<td>60%</td>
</tr>
<tr>
<td>Information on special events (e.g., Bike to Work Day)</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td>Telework information</td>
<td>12%</td>
<td>11%</td>
</tr>
<tr>
<td>Bicycle to Work Guide, bicycle information</td>
<td>5%</td>
<td>10%</td>
</tr>
<tr>
<td>Online bicycle route planning</td>
<td>4%</td>
<td>7%</td>
</tr>
</tbody>
</table>

**Carpool/Vanpool Services** – About three-quarters (74%) of applicants received or accessed one or more Carpool/Vanpool services. About six in ten (62%) received a matchlist with names and contact information for potential carpool/vanpool partners, 28% received a map showing home and work locations of potential carpool/vanpool partners, and 29% used the carpool rider bulletin board. Other common services included: carpool/vanpool information (33%), Park & Ride lot information (29%), general vanpooling assistance (21%), HOV information (15%), NuRide rewards (12%), ’Pool Rewards financial incentive (11%), and vanpool leasing assistance (10%).

**Transit-Related Services** – Almost half (48%) of applicants received some type of information about transit from Commuter Services / Commuter Connections. Four in ten (40%) received transit route/schedule information and 38% received information about transit fares or the SmarTrip fare pay-
ment system. Nearly all of the respondents who received transit information got both fare and route/schedule information.

**Other / Multi-Mode Services** – The top multi-mode service received was Guaranteed Ride Home; more than six in ten (62%) applicants said they received or accessed this “Multi-Mode” service, which is open to any commuter who uses an alternative mode to commute. Other commonly requested information included: information about regional special events, such as Bike to Work Day or Car Free Day (15%), and telework information (12%).

**Use of Matchlist Information**

**Match Names** – About two-thirds of respondents (63%) said they received a matchlist of potential rideshare partners or a map with home and work locations of potential carpool/vanpool partners from either Commtuer Services or another organization. These respondents were asked about their use of matchlist information. Their responses are shown in Table 9.

<table>
<thead>
<tr>
<th>Action Taken</th>
<th>(n=__)</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Received matchlist</td>
<td>94</td>
<td>63%</td>
<td>37%</td>
</tr>
<tr>
<td>Called names</td>
<td>51</td>
<td>73%</td>
<td>27%</td>
</tr>
<tr>
<td>Able to reach people named on matchlist</td>
<td>37</td>
<td>97%</td>
<td>3%</td>
</tr>
<tr>
<td>People called were interested in ridesharing</td>
<td>35</td>
<td>80%</td>
<td>20%</td>
</tr>
</tbody>
</table>

* 37% of respondents said people were interested, but their “schedules/destinations weren’t compatible”

**Trying to Make Contact** – About three quarters (73%) of the respondents who received a matchlist said they tried to call one or more of the people named. The remaining 27% of respondents did not try to make contact.

The primary reason for not trying to reach people on the list was that people named on the matchlist were not considered compatible partners; they either had “work hours not compatible with mine” or work or home location not compatible with mine.” Other reasons why respondents didn’t try to make contact included:

- Work hours not compatible with mine 37%
- Work / home locations not compatible with mine 32%
- Didn’t want to call / ride with strangers 11%
- Already found rideshare arrangement 5%
- Decided I didn’t want to carpool/vanpool 5%
**Success in Reaching Someone Named on the Matchlist** – The great majority (97%) of the respondents who did try to make contact were successful in reaching someone named on this list. This suggests that the information provided on the matchlists was generally current and accurate.

**Interest in Ridesharing** – More than four in ten (43%) respondents who were able to reach someone said that person was interested in ridesharing. Two in ten (20%) respondents who reached a person on the matchlist said the people were not interested in ridesharing. The remaining 37% said the people they reached were interested, but their schedules or destinations were not compatible.

To some extent, compatibility is an individual standard. One applicant might be willing to drive out of his way or arrive at work 30 minutes earlier than scheduled to take advantage of carpooling benefits, while another applicant would feel these accommodations were too inconvenient. But this result suggests the software might not match applicants with as much precision as some commuters would like.

**Use of Other Types of Information Received**

Applicants who received information on transit routes or schedules, Park & Ride lots, and Guaranteed Ride Home were asked follow-up questions on their use of the information (Table 10).

<table>
<thead>
<tr>
<th>Action Taken</th>
<th>(n=__)</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Received transit information</td>
<td>94</td>
<td>48%</td>
</tr>
<tr>
<td>Used transit information</td>
<td>45</td>
<td>44%</td>
</tr>
<tr>
<td>Received Park &amp; Ride information</td>
<td>94</td>
<td>26%</td>
</tr>
<tr>
<td>Used Park &amp; Ride information</td>
<td>24</td>
<td>58%</td>
</tr>
<tr>
<td>Received GRH information</td>
<td>94</td>
<td>62%</td>
</tr>
<tr>
<td>Registered for GRH</td>
<td>57</td>
<td>86%</td>
</tr>
</tbody>
</table>

**Transit Information** – Almost half (48%) of the applicants said they received transit information from Commuter Services / Commuter Connections. About 44% of those applicants used the information to try transit.

**Park & Ride Information** – Close to three in ten (26%) applicants received general information on Park & Ride from Commuter Services / Commuter Connections. Of these applicants, 58% used the information to Park & Ride, either for getting to work or for non-work trips.

**Guaranteed Ride Home** – Finally, the survey included questions about applicants’ use of a Guaranteed Ride Home (GRH) program. Six in ten (62%) applicants received or accessed information on GRH and the majority (86%) of these applicants subsequently registered for GRH. About 25% of applicants who re-
ceived GRH information were driving alone to work at the time they requested the information. The remaining applicants were using an alternative mode.

Assistance Offered by Employers

Respondents also were asked if their employers offered commute assistance services. Three-quarters (76%) Commuter Services respondents said their employers offer at least one service.

The most commonly-offered employer services are telework and discounted or free transit passes; approximately four in ten applicants reported having access to these services at work (Figure 8). Compressed work schedules also were common, available to 34% of applicants. About a quarter (25%) of applicants cited shuttle to Metrorail or bus stop or carpool/vanpool information (23%). About two in ten said their employers offer Federal “Commuter Choice” tax benefit incentive (19%) or carpool/vanpool preferential parking.

Figure 8
Commuter Assistance Services Offered by Employers
(n = 94, multiple responses permitted)

Influence of Assistance or Information

Respondents who had made a commute change were asked if the information they had received from Rappahannock-Rapidan Commuter Services/Commuter Connections, from their employer, or from another organization had influenced their decisions to make the change. About 40% of respondents who
made a change indicated that assistance or information received from Commuter Services / Commuter Connections had influenced their decision and 27% said services from an employer or another organization had influenced their decision.

The most frequently-mentioned Commuter Services were carpool / vanpool matchlist, and transit schedule or route information. Influential employer services included discounted or free transit passes (SmarTrip Card) and some other cash incentive.

Commuter Services Improvements

Survey respondents also were asked how Commuter Services could improve its services to commuters. About a quarter (24%) of respondents said no improvements were needed and an additional 27% left the question blank. The remaining 49% of respondents mentioned one or more improvements they would like to see. Table 11 highlights responses for this question.

<table>
<thead>
<tr>
<th>Improvement</th>
<th>Percentage*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Quality / Quantity Suggestions</td>
<td></td>
</tr>
<tr>
<td>More current information / valid user information</td>
<td>9%</td>
</tr>
<tr>
<td>Program Operations Suggestions</td>
<td></td>
</tr>
<tr>
<td>Use Internet more / user-friendly phone / apps / improve website</td>
<td>5%</td>
</tr>
<tr>
<td>Other Suggestions</td>
<td></td>
</tr>
<tr>
<td>Transit improvements</td>
<td>9%</td>
</tr>
</tbody>
</table>

* Multiple responses permitted

Some of the desired improvements focused on the quantity or quality of information: more current information / better validation of users’ contact information. But even this “highest priority” item was noted by a small percentage of respondents.

A few respondents felt improvements in Commuter Services operations were needed. The primary improvement, noted by five percent of respondents, was: use Internet more/user friendly phone/improve website. Finally, some respondents mentioned a desire for improvements in regional or local transportation services, such as transit improvements.
LIST OF APPENDICES

Appendix A – Questionnaire for September-October 2012 Applicant Survey
Appendix A
Questionnaire for September-October 2012 Applicant Survey
Northern Virginia Internet Version – Final- 8-2-12

INTRODUCTION

The Virginia Department of Rail and Public Transportation, Commuter Connections, and [LONG NAME] are conducting this online survey of people who have received commute information or assistance from the Commuter Connections program or [PROGRAM NAME] or who have used the Commuter Connections or [PROGRAM NAME] website. Your answers will be confidential. It will take about 10 minutes. Please complete the survey and click on the “SUBMIT” button at the end. If you need to stop before you have finished the survey, your answers will be saved and you may come back and complete the remaining questions at a later time. Thank you for your participation.

SCREENING FOR SERVICES USED

S1 Which of the following carpool and vanpool services have you received, accessed, or requested from Commuter Connections or [LONG NAME]? You could have received or requested them from the website or through a letter, email, or phone call. Please check all that apply.

<table>
<thead>
<tr>
<th>Carpool / Vanpool Services</th>
<th>Received or Accessed</th>
<th>Requested, but did NOT Receive or Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Names and contact information for people you could contact to form a carpool or vanpool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Map showing home and work locations of people you could contact to form a carpool or vanpool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Carpool / Vanpool rider wanted bulletin board</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Other carpool / vanpool information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Vanpooling assistance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 HOV lane information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Pool Rewards carpool financial incentive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 NuRide rewards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 Vanpool leasing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90 Did not receive any of these services from Commuter Connections or [PROGRAM NAME]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>98 Don’t know</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 Question left blank (internet only)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Commuter Connections and [PROGRAM NAME] also offer information on telework, transit, and bicycling to get around the Washington metropolitan region. Which of the following services have you received, accessed, or requested from Commuter Connections or [PROGRAM NAME]? Please check all that apply.

**ACCEP MULTIPLES FOR 1-8, DO NOT ALLOW MULTIPLES WITH 90**

<table>
<thead>
<tr>
<th>Telework / Transit / Bicycling Services</th>
<th>Received or Accessed</th>
<th>Requested, but did NOT Receive or Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Transit schedule or route information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Transit fare information, SmarTrip</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Park &amp; Ride lot information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Telework information, telework center information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Bicycle to Work Guide, bicycling information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Online bicycle route planning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Guaranteed / Emergency Ride Home information or trip</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Special events information (e.g., Bike to Work day, Car Free Day)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90 Did not receive any of these services from Commuter Connections or [PROGRAM NAME]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>98 Don’t know</td>
<td></td>
<td></td>
</tr>
<tr>
<td>99 Question left blank (internet only)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SERVICES RECEIVED / REQUESTED – AUTOCODE FROM Q_S1, Q_S2**

ACCEP MULTIPLES FOR 1-17, DO NOT ALLOW MULTIPLES WITH 90

- IF Q_S1 = 1, CODE Q_S3 = 1
- IF Q_S1 = 2, CODE Q_S3 = 2
- IF Q_S1 = 3, CODE Q_S3 = 3
- IF Q_S1 = 4, CODE Q_S3 = 4
- IF Q_S1 = 5, CODE Q_S3 = 5
- IF Q_S1 = 6, CODE Q_S3 = 6
- IF Q_S1 = 7, CODE Q_S3 = 7
- IF Q_S1 = 8, CODE Q_S3 = 16
- IF Q_S1 = 9, CODE Q_S3 = 17
- IF Q_S2 = 1, CODE Q_S3 = 8
- IF Q_S2 = 2, CODE Q_S3 = 9
- IF Q_S2 = 3, CODE Q_S3 = 10
- IF Q_S2 = 4, CODE Q_S3 = 11
- IF Q_S2 = 5, CODE Q_S3 = 12
- IF Q_S2 = 6, CODE Q_S3 = 13
- IF Q_S2 = 7, CODE Q_S3 = 14
- IF Q_S2 = 8, CODE Q_S3 = 15

- IF Q_S1 = 90 OR 98 AND Q_S2 = 90 OR 98, CODE Q_S3 = 90

QS3 continues on following page
QS3 - Continued
1 Names and contact information for people you could contact to form a carpool or vanpool (matchlist)
2 Map showing home and work locations of people you could contact to form a carpool or vanpool
3 Carpool / vanpool rider bulletin board
4 Other carpool / vanpool information
5 Vanpooling assistance
6 HOV lane information
7 Pool Rewards carpool financial incentive
8 Transit schedule or route information
9 Transit fare information, SmarTrip
10 Park & Ride lot information
11 Telework information, telework center information
12 Bicycle to Work Guide, bicycling information
13 Online bicycle route planning
14 Guaranteed /Emergency Ride Home information or trip
15 Special events information (e.g., Bike to Work Day, Car Free Day)
16 NuRide rewards
17 Vanpool leasing
90 Did not request or seek any of these services
99 Question left blank (internet only)

DEFINE USER – FOR LATER BRANCHING
CLASSIFY IN THE FOLLOWING ORDER:
IF Q_S1 = ANY RESPONSE 1, 2, OR 4 – 9, USER = 1 (RECEIVED)
IF Q_S2 = ANY RESPONSE 1 – 9, USER = 1 (RECEIVED)
IF Q_S1 = 90 OR 99 AND Q_S2 = 90 OR 99 AND Q_S3 = ANY RESPONSE 1, 2 OR 4 – 17, USER = 2 (REQUESTED)
IF Q_S1 = ONLY 3 AND Q_S2 = 90 OR 99 AND Q_S3 = 90 OR 99, USER = 3 (BB ONLY)
IF Q_S1 = 90 OR 99 AND Q_S2 = 90 OR 99 AND Q_S3 = ONLY 3, USER = 3 (BB ONLY)
IF Q_S1 = 90 OR 99 AND Q_S2 = 90 OR 99 AND Q_S3 = 90 OR 99, USER = 4 (UNKNOWN)

IF USER = 1, 2, OR 3, CONTINUE TO Q1
IF USER = 4, THANK AND TERMINATE

HOW THEY GET TO WORK
1 Next, please answer a few questions about your travel to and from work. In a TYPICAL week, how many weekdays (Monday-Friday) are you assigned to work? (DO NOT READ RESPONSES)

1 1 day per week
2 2 days per week
3 3 days per week
4 4 days per week
5 5 days per week
_____ Not currently working (THANK AND TERMINATE)
2 Which of the following best represents your work schedule?

1. Part-time schedule (less than 35 hours per week)
2. Full-time, five or more days per week, 35 or more hours per week
3. 4/40 compressed schedule (4 10-hour days per week, 40 hours)
4. 9/80 compressed schedule (9 days every 2 weeks, 80 hours)
5. 3/36 compressed schedule (3 12-hour days per week, 36 hours)
6. Some other (SPECIFY)
7. Don’t know, prefer not to answer, Question left blank (internet only)

3 Do you telecommute or telework? For purposes of this survey, “telecommuters” are defined as “wage and salary employees who at least occasionally work at home or at a telework or satellite center during an entire work day, instead of traveling to their regular work place.” Based on this definition, are you a telecommuter?

1. yes
2. no (SKIP TO Q4a)
8. Don’t know (SKIP TO Q4a)
9. Question left blank (internet only)

4 How often do you usually telecommute? (DO NOT READ RESPONSES)

1. Less than 1 time per month / only in emergencies (e.g., sick child, snowstorm)
2. 1 to 3 times a month
3. 1 day a week
4. 2 days a week
5. 3 days a week
6. 4 days a week
7. 5 days a week
8. other (SPECIFY)
9. Don’t know, prefer not to answer, Question left blank (internet only)

4a How often are you away from your usual work location for an entire day for business or work travel (e.g., meetings / visits to clients or customers)? (DO NOT READ RESPONSES)

1. Never, I don’t ever travel for work
2. Occasionally, but less than 1 day per week
3. Regularly, 1 or more days per week
9. Don’t know, prefer not to answer, Question left blank (internet only)
Current Travel Grid (Typical week)

5 Thinking about a TYPICAL week, Monday through Friday, how do you get to work? In the table below, enter the number of days you typically use each of the listed types of transportation. If you use more than one type on a single day, for example you walk to the bus stop, then ride the bus, count only the type you use for the longest distance part of your trip.

(PROGRAMMER NOTE: IF Q4a = 3, ALSO SHOW): “For days that you are on business or work travel, please report the type of transportation you would use to get to work if you worked at your usual work location.”

Indicate also how many weekdays you do NOT typically travel to your usual work location and the reasons for not traveling to work (e.g., regular day off, telework, compressed schedule day off).

PROGRAMMER NOTES:

IF Q2 = 3, 4, OR 5 (CWS) AND RESPONDENT DOES NOT CHECK "CWS day off" (RESPONSE 1), SHOW MESSAGE: “You said you typically work a compressed schedule. How many compressed schedule days do you typically have off in a week?” (ACCEPT 0 AS A RESPONSE)

IF Q4 = 3, 4, 5, 6, OR 7 (TELEWORK 1+ DAYS PER WEEK) AND RESPONDENT DOES NOT CHECK "Telecommute" (RESPONSE 2), SHOW MESSAGE: “You said you typically telework. How many days do you telework in a typical week? (ACCEPT 0 AS A RESPONSE)

CHECK SUM OF DAYS. IF TOTAL OF Q5 DAYS 1-18 IS LESS THAN Q1, SHOW MESSAGE “Please report for all days Monday – Friday, including telework days, compressed schedule days, and days you do not work.” IF TOTAL OF 1-18 IS GREATER THAN Q1, SHOW MESSAGE: “You’ve reported more than five days. Please report only for Monday – Friday and one type of transportation for each day.”

<table>
<thead>
<tr>
<th>Type of Transportation</th>
<th>Number of Days Used (0 to 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Days you travel to your usual work location</strong></td>
<td></td>
</tr>
<tr>
<td>3 Drive alone in a car, truck, van, or SUV, Motorcycle, Ride in a taxi</td>
<td></td>
</tr>
<tr>
<td>4 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>5 Carpool, including carpool w/family member, dropped off (ride or drive with others in a car, truck, van, or SUV)</td>
<td></td>
</tr>
<tr>
<td>6 Casual carpool (slugging)</td>
<td></td>
</tr>
<tr>
<td>7 Vanpool</td>
<td></td>
</tr>
<tr>
<td>8 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>9 Ride a bus (public bus, shuttle, buspool, express bus)</td>
<td></td>
</tr>
<tr>
<td>10 Ride Metrorail</td>
<td></td>
</tr>
<tr>
<td>11 Ride commuter train (MARC, VRE, Amtrak, other train)</td>
<td></td>
</tr>
<tr>
<td>12 Ride a light rail - N/A in NOVA – RESERVE FOR SOVA</td>
<td></td>
</tr>
<tr>
<td>13 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>14 Bicycle (entire trip or longest distance part of trip from home to work)</td>
<td></td>
</tr>
<tr>
<td>15 Walk (entire trip or longest distance part of trip from home to work)</td>
<td></td>
</tr>
<tr>
<td>16 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td><strong>Days you do not travel to your usual work location</strong></td>
<td></td>
</tr>
<tr>
<td>1 Have a compressed work schedule day off</td>
<td></td>
</tr>
<tr>
<td>2 Telecommute / telework all day</td>
<td></td>
</tr>
<tr>
<td>17 Have a regular day off</td>
<td></td>
</tr>
<tr>
<td>18 Other (describe)</td>
<td></td>
</tr>
<tr>
<td>Total Days (DO NOT SHOW THIS LINE ON SCREEN)</td>
<td>Sum of 1-18</td>
</tr>
</tbody>
</table>
DEFINE Q5 MODES USED (ALLOW MULTIPLE MODES) – AUTOCODE ONLY:

- CWDAYS = SUM OF Q5, RESPONSE 1
- TWDAYS = SUM OF Q5, RESPONSE 2
- DADAYS = SUM OF Q5, RESPONSE 3
- CPDAYS = SUM OF Q5, RESPONSE 5, 6
- VPDAYS = SUM OF Q5, RESPONSE 7
- BUDAYS = SUM OF Q5, RESPONSE 9
- MRDAYS = SUM OF Q5, RESPONSE 10
- CRDAYS = SUM OF Q5, RESPONSE 11
- BKDAYS = SUM OF Q5, RESPONSE 14
- WKDAYS = SUM OF Q5, RESPONSE 15
- LRDAYS = SUM OF Q5, RESPONSE 12 – NOT USED IN NOVA, RESERVE FOR SOVA

IF CWDAYS > 0, Q5 MODE = 1 COMPRESSED SCHEDULE
IF TWDAYS > 0, Q5 MODE = 2 TELEWORK
IF DADAYS > 0, Q5 MODE = 3 DRIVE ALONE
IF CPDAYS > 0, Q5 MODE = 4 CARPOOL
IF VPDAYS > 0, Q5 MODE = 5 VANPOOL
IF BUDAYS > 0, Q5 MODE = 6 BUS
IF MRDAYS > 0, Q5 MODE = 7 METRORAIL
IF CRDAYS > 0, Q5 MODE = 8 COMMUTER TRAIN
IF BKDAYS > 0, Q5 MODE = 9 BICYCLE
IF WKDAYS > 0, Q5 MODE = 10 WALKING
IF LRDAYS > 0, Q5 MODE = 11 LIGHT RAIL TRAIN – NOT USED IN NOVA, RESERVE FOR SOVA

DEFINE PRIMARY MODE

SET PR_MODE = Q5 MODE WITH HIGHEST NUMBER OF DAYS. IF TIE FOR HIGHEST NUMBER, CHOOSE PRIMARY MODE IN THIS PRIORITY ORDER: 5 (VANPOOL), 4 (CARPOOL), 7 (METRORAIL), 11 (LIGHT RAIL), 6 (BUS), 8 (COMMUTER TRAIN), 9 (BICYCLE), 10 (WALKING), 2 (TELEWORK), 3 (DRIVE ALONE). DO NOT SELECT COMPRESSED SCHEDULE (1) AS PRIMARY MODE

DEFINE CALTDAYS = TOTAL Q5 DAYS USING MODES 5, 6, 7, 9, 10, 11, 12, 14, 15

8 About how many miles do you usually travel from home to work one way?
   ________ miles one way
   999 Don’t know, prefer not to answer, Question left blank (internet only)

9 And about how many minutes does it take you to get to work?
   ________ minutes
   999 Don’t know, prefer not to answer, Question left blank (internet only)

POOL MAKE-UP

IF CPDAYS = 0 AND VPDAYS = 0, SKIP TO INSTRUCTIONS BEFORE Q15
IF CPDAYS > VPDAYS, ASK Q10-Q14, INSERT “carpool” AS Q5 MODE
IF VPDAYS > CPDAYS, ASK Q10-Q14, INSERT “vanpool” AS Q5 MODE
IF CPDAYS = VPDAYS, ASK Q10-Q14, INSERT “vanpool” AS Q5 MODE

10 Including yourself, how many people usually ride in your [Q5 MODE, carpool, vanpool]?
   ________ total people in pool
   999 Don’t know, prefer not to answer, Question left blank (internet only) (SKIP TO Q14)

11 How many of the other people in your [Q5 MODE, carpool, vanpool], excluding yourself, are members of your family or members of your household?
   ________ people are family/household members
   999 Don’t know, prefer not to answer, Question left blank (internet only)
12 How many are children under age 16?

______ children under age 16

999 Don’t know, prefer not to answer, Question left blank (internet only)

13 How many are co-workers?

______ co-workers

999 Don’t know, prefer not to answer, Question left blank (internet only)

14 How often are you the driver of your carpool or vanpool? Do you...? (READ RESPONSES 1-3)

1 Always drive [AUTOCODE Q15 = 9, THEN SKIP TO Q20]
2 Sometimes drive or share driving, such as driving on alternate days or weeks
3 Never drive

INSTRUCTIONS BEFORE Q15

IF Q5 MODE = 5 (VANPOOL), 4 (CARPOOL), 8 (COMMUTER TRAIN), 7 (METRORAIL TRAIN), OR 6 (BUS), ASK Q15-Q16, OTHERWISE, SKIP TO Q20.

IF MORE THAN ONE OF THESE Q5 MODES, SELECT MODE WITH GREATEST NUMBER OF DAYS FOR Q15-Q16. IF TIE, SELECT MODE IN THIS PRIORITY ORDER: 5 (VANPOOL), 4 (CARPOOL), 8 (COMMUTER TRAIN), 7 (METRORAIL), 11 (LIGHT RAIL), 6 (BUS). (NOTE, DO NOT SELECT DRIVE ALONE, TELEWORK, COMPRESSED SCHEDULE, BICYCLE, OR WALKING FOR Q15-Q16).

IF Q14 = 2, ASK BEFORE Q15, “On days you are not the driver of the carpool or vanpool, ...”

15 How do you get from home to where you meet your [Q5 MODE: vanpool, carpool, bus, Metrorail train, commuter train, light rail train]?

1 picked up at home by car/vanpool (SKIP TO Q20)
2 drive alone to driver’s home or drive alone to passenger’s home
3 drive to a central location, like park & ride
4 another carpool or vanpool, including dropped off by HH members
5 bicycle
6 walk
7 bus/transit
8 taxi
9 I am always the driver of carpool/vanpool (THEN SKIP TO Q20)
19 other (SPECIFY) _______________________

16 How many miles is it one way from your home to where you meet your [Q5 MODE: vanpool, carpool, commuter train, Metrorail train, bus, light rail train]?

______ miles (ALLOW ONE DECIMAL)

999 Don’t know, prefer not to answer, Question left blank (internet only)
CHANGES

[PROGRAMMER NOTE: Tests for travel changes applicants might have made. Changes are examined hierarchically (mode changes first, frequency changes next, then occupancy changes)]

20 The next few questions ask about changes you might have made in your travel to work since you requested or obtained commute information or assistance. Since that time, did you make any of the following changes in how you travel to or from work, even if the change was only temporary? **ALLOW MULTIPLES FOR 1-10, DON'T ALLOW MULTIPLES WITH 90)**

1. Start carpooling, joined or created a new carpool, started slugging
2. Start vanpooling, joined or created a new vanpool
3. Start riding a bus
4. Start riding Metrorail
5. Start riding a commuter train – MARC, VRE, or Amtrak
6. Start bicycling to work (entire trip or longest distance part of trip)
7. Start walking to work (entire trip or longest distance part of trip)
8. Start teleworking at least one day per week
9. Start working a compressed work schedule
10. Start riding a light rail train – N/A in NOVA, RESERVE FOR SOVA
90. Did not make any of these changes

21 Since you requested or obtained assistance, did you **increase** the number of days per week that you used any of the following types of transportation for your trip to work, again, even if only temporarily? **(ALLOW MULTIPLES FOR 1-9, DON'T ALLOW MULTIPLES WITH 90)**

1. Carpool, slug / casual carpool
2. Vanpool
3. Bus
4. Metrorail
5. Commuter train (MARC, VRE, or Amtrak)
6. Bicycle (entire trip or longest distance part of trip)
7. Walking (entire trip or longest distance part of trip)
8. Telework days
9. Light rail train – N/A in NOVA, RESERVE FOR SOVA
90. No, didn't increase days using these types of transportation

22 Did you try any other type of transportation to get to work, even if only once, since you requested or obtained assistance? Did you try? **(ALLOW MULTIPLES FOR 1-10, DON'T ALLOW MULTIPLES WITH 90)**

1. Carpooling, slugging / casual carpooling
2. Vanpooling
3. Bus
4. Metrorail
5. Commuter train (MARC, VRE, AMTRAK)
6. Bicycling (to work)
7. Walking (to work)
8. Teleworking
9. Driving alone, start driving alone
10. Light rail train - N/A in NOVA, RESERVE FOR SOVA
90. No, did not make any of these changes
Q23  DEFINE INITIAL MODE CHANGES – AUTOCODE ONLY
REVIEW Q20, Q21, Q22, CODE ALL CHANGES AS FOLLOWS (ALLOW MULTIPLE RESPONSES WITH 1-20, DO NOT ALLOW MULTIPLES WITH 90):

IF Q20 = 90 OR 99 AND Q21 = 90 OR 99 AND Q22 = 9, 90 OR 99, AUTOCODE Q23 = 90

IF Q20 = 1 OR Q21 = 1 OR Q22 = 1 AND CPDAYS > 0, Q23 = 1 (Continued carpool)
IF Q20 = 2 OR Q21 = 2 OR Q22 = 2 AND VPDAYS > 0, Q23 = 2 (Continued vanpool)
IF Q20 = 3 OR Q21 = 3 OR Q22 = 3 AND BUDAYS > 0, Q23 = 3 (Continued bus)
IF Q20 = 4 OR Q21 = 4 OR Q22 = 4 AND MRDAYS > 0, Q23 = 4 (Continued Metrorail)
IF Q20 = 5 OR Q21 = 5 OR Q22 = 5 AND CRDAYS > 0, Q23 = 5 (Continued commuter train)
IF Q20 = 6 OR Q21 = 6 OR Q22 = 6 AND BKDAYS > 0, Q23 = 6 (Continued bicycle)
IF Q20 = 7 OR Q21 = 7 OR Q22 = 7 AND WKDAYS > 0, Q23 = 7 (Continued walking)
IF Q20 = 8 OR Q21 = 8 OR Q22 = 8 AND TWDAYS > 0, Q23 = 8 (Continued telework)
IF Q20 = 10 OR Q21 = 9 OR Q22 = 10 AND LRDAYS > 0, Q23 = 9 (Continued light rail) – N/A in NOVA, reserve for SOVA

IF Q20 = 1 OR Q21 = 1 OR Q22 = 1 AND CPDAYS = 0, Q23 = 11 (Temporary carpool)
IF Q20 = 2 OR Q21 = 2 OR Q22 = 2 AND VPDAYS = 0, Q23 = 12 (Temporary vanpool)
IF Q20 = 3 OR Q21 = 3 OR Q22 = 3 AND BUDAYS = 0, Q23 = 13 (Temporary bus)
IF Q20 = 4 OR Q21 = 4 OR Q22 = 4 AND MRDAYS = 0, Q23 = 14 (Temporary Metrorail)
IF Q20 = 5 OR Q21 = 5 OR Q22 = 5 AND CRDAYS = 0, Q23 = 15 (Temporary commuter train)
IF Q20 = 6 OR Q21 = 6 OR Q22 = 6 AND BKDAYS = 0, Q23 = 16 (Temporary bicycle)
IF Q20 = 7 OR Q21 = 7 OR Q22 = 7 AND WKDAYS = 0, Q23 = 17 (Temporary walking)
IF Q20 = 8 OR Q21 = 8 OR Q22 = 8 AND TWDAYS = 0, Q23 = 18 (Temporary telework)
IF Q20 = 10 OR Q21 = 9 OR Q22 = 10 AND LRDAYS = 0, Q23 = 19 (Temporary light rail) – N/A in NOVA, reserve for SOVA

1  Continued carpool
2  Continued vanpool
3  Continued bus
4  Continued Metrorail
5  Continued commuter train
6  Continued bicycle
7  Continued walking
8  Continued telework
9  Continued light rail – N/A in NOVA

11  Temporary carpool
12  Temporary vanpool
13  Temporary bus
14  Temporary Metrorail
15  Temporary commuter train
16  Temporary bicycle
17  Temporary walking
18  Temporary telework
19  Temporary light rail – N/A in NOVA

90  No mode change

BRANCHING INSTRUCTIONS
IF Q23 = 90 (NO MODE CHANGE), SKIP TO Q26
IF Q23 = ONLY RESPONSES 1-9 (continued mode change), SKIP TO Q26
IF Q23 = ANY OF 11-19 (temporary mode change), CONTINUE WITH Q24. ASK Q24 FOR EACH TEMPORARY MODES 11-19 CODED IN Q23.
24. You indicated you made a change to a new type of transportation but you reported that you don’t typically use it now to get to work. Was this a temporary change or do you still use it for your commute now, even if only occasionally?

**LIST ALL TEMPORARY MODES (11-19) CHECKED/CODED IN Q23 – DO NOT INCLUDE ANY CONTINUED MODE CHECKED IN Q23 (responses 1-9)**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Temporary Change</td>
<td>Still use - less than 1 day per week</td>
<td>Still use - 1 or more days per week</td>
</tr>
<tr>
<td>1</td>
<td>Carpool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Vanpool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Bus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Metrorail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Commuter train (MARc, VRE, Amtrak)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Bicycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Walking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Telework</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Light rail train – N/A in NOVA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

25. How long did this temporary change to [Q24 MODE: carpool, vanpool, bus, Metrorail, commuter train, bicycle, walking, telework, light rail] last?

<p>| | | | |</p>
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<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Less than one week</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1 to 3 weeks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4 to 7 weeks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>8 to 11 weeks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>12 weeks or more (3 or more months)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Don’t recall</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

26. Finally, did you add another person or replace a person in an existing carpool or vanpool?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes, added or replaced person in a carpool</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Yes, added or replaced person in a vanpool</td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>Question left blank (internet only)</td>
<td></td>
</tr>
</tbody>
</table>

Q27. CHECK FOR OCCUPANCY CHANGES FROM Q26 – AUTOCODE ONLY

IF Q26 = 1 AND CPDAYS > 0, Q27 = 1 (Continued carpool)
IF Q26 = 2 AND VPDAYS > 0, Q27 = 2 (Continued vanpool)
IF Q26 = 1 AND CPDAYS = 0, Q27 = 3 (Temporary carpool)
IF Q26 = 2 AND VPDAYS = 0, Q27 = 4 (Temporary vanpool)
IF Q26 = 90 OR 99, Q27 = 9 (No occupancy change)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Continued carpool occupancy</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Continued vanpool occupancy</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Temporary carpool occupancy</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Temporary vanpool occupancy</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>No occupancy change</td>
<td></td>
</tr>
</tbody>
</table>
Q28  ALL CHANGES – AUTOCODE ONLY

REVIEW Q23, Q24, Q25, Q27, CODE ALL CHANGES AS FOLLOWS (ALLOW MULTIPLE RESPONSES FOR RESPONSES 1-40. DO NOT ALLOW MULTIPLES WITH 90:

IF Q23 = 90 OR 99 AND Q27 = 90 OR 99, AUTOCODE Q28= 90

IF Q23 = 1, Q28 = 1 (Continued carpool)
IF Q23 = 2, Q28 = 2 (Continued vanpool)
IF Q23 = 3, Q28 = 3 (Continued bus)
IF Q23 = 4, Q28 = 4 (Continued Metrorail)
IF Q23 = 5, Q28 = 5 (Continued commuter train)
IF Q23 = 6, Q28 = 6 (Continued bicycle)
IF Q23 = 7, Q28 = 7 (Continued walking)
IF Q23 = 8, Q28 = 8 (Continued telework)
IF Q23 = 9, Q28 = 9 (Continued light rail) – N/A in NOVA, RESERVE FOR SOVA

IF Q24 = 1 FOR carpool AND Q25 = 2-5 OR 9 FOR carpool, Q28 = 11 (Temporary carpool)
IF Q24 = 1 FOR vanpool AND Q25 = 2-5 OR 9 FOR vanpool, Q28 = 12 (Temporary vanpool)
IF Q24 = 1 FOR bus AND Q25 = 2-5 OR 9 FOR bus, Q28 = 13 (Temporary bus)
IF Q24 = 1 FOR Metrorail AND Q25 = 2-5 OR 9 FOR Metrorail, Q28 = 14 (Temporary Metrorail)
IF Q24 = 1 FOR commuter rail AND Q25 = 2-5 OR 9 FOR commuter rail, Q28 = 15 (Temporary commuter train)
IF Q24 = 1 FOR bicycle AND Q25 = 2-5 OR 9 FOR bicycle, Q28 = 16 (Temporary bicycle)
IF Q24 = 1 FOR walking AND Q25 = 2-5 OR 9 FOR walking, Q28 = 17 (Temporary walking)
IF Q24 = 1 FOR telework AND Q25 = 2-5 OR 9 FOR telework, Q28 = 18 (Temporary telework)
IF Q24 = 1 FOR light rail AND Q25 = 2-5 OR 9 FOR light rail, Q28 = 19 (Temporary light rail) –N/A in NOVA, RESERVE FOR SOVA

IF Q24 = 2 or 3 FOR carpool, Q28 = 21 (Occasional carpool)
IF Q24 = 2 or 3 FOR vanpool, Q28 = 22 (Occasional vanpool)
IF Q24 = 2 or 3 FOR bus, Q28 = 23 (Occasional bus)
IF Q24 = 2 or 3 FOR Metrorail, Q28 = 24 (Occasional Metrorail)
IF Q24 = 2 or 3 FOR commuter rail, Q28 = 25 (Occasional commuter train)
IF Q24 = 2 or 3 FOR bicycle, Q28 = 26 (Occasional bicycle)
IF Q24 = 2 or 3 FOR walking, Q28 = 27 (Occasional walking)
IF Q24 = 2 or 3 FOR telework, Q28 = 28 (Occasional telework)
IF Q24 = 2 or 3 FOR light rail, Q28 = 29 (Occasional light rail) –N/A in NOVA, RESERVE FOR SOVA

IF Q24 = 1 FOR carpool AND Q25 = 1 OR 99 FOR carpool, Q28 = 31 (One-time carpool)
IF Q24 = 1 FOR vanpool AND Q25 = 1 OR 99 FOR vanpool, Q28 = 32 (One-time vanpool)
IF Q24 = 1 FOR bus AND Q25 = 1 OR 99 FOR bus, Q28 = 33 (One-time bus)
IF Q24 = 1 FOR Metrorail AND Q25 = 1 OR 99 FOR Metrorail, Q28 = 34 (One-time Metrorail)
IF Q24 = 1 FOR commuter rail AND Q25 = 1 OR 99 FOR commuter rail, Q28 = 35 (One-time commuter train)
IF Q24 = 1 FOR bicycle AND Q25 = 1 OR 99 FOR bicycle, Q28 = 36 (One-time bicycle)
IF Q24 = 1 FOR walking AND Q25 = 1 OR 99 FOR walking, Q28 = 37 (One-time walking)
IF Q24 = 1 FOR telework AND Q25 = 1 OR 99 FOR telework, Q28 = 38 (One-time telework)
IF Q24 = 1 FOR light rail AND Q25 = 1 OR 99 FOR light rail, Q28 = 39 (One-time light rail)

IF Q27 = 1 OR 2, Q28 = 10 (Continued occupancy)
IF Q27 = 3 OR 4, Q28 = 20 (Temporary occupancy)

Q28 continues on following page
Q28 - Continued

1. Continued carpool
2. Continued vanpool
3. Continued bus
4. Continued Metrorail
5. Continued commuter train
6. Continued bicycle
7. Continued walking
8. Continued telework
9. Continued light rail – N/A in NOVA
10. Continued occupancy
11. Temporary carpool
12. Temporary vanpool
13. Temporary bus
14. Temporary Metrorail
15. Temporary commuter train
16. Temporary bicycle
17. Temporary walking
18. Temporary telework
19. Temporary light rail – N/A in NOVA
20. Temporary occupancy
21. Occasional carpool
22. Occasional vanpool
23. Occasional bus
24. Occasional Metrorail
25. Occasional commuter train
26. Occasional bicycle
27. Occasional walking
28. Occasional telework
29. Occasional light rail – N/A in NOVA
31. One-time carpool
32. One-time vanpool
33. One-time bus
34. One-time Metrorail
35. One-time commuter train
36. One-time bicycle
37. One-time walking
38. One-time telework
39. One-time light rail – N/A in NOVA
90. No change
Q30  DEFINE FINAL CHANGE – AUTOCODE ONLY
SELECT ONE CHANGE FROM Q28 LIST AS FINAL CHANGE: SET WITH THIS PRIORITY

Continued Mode Change
IF Q28 = ANY OF 1-9 (Continued mode change), SET Q30 = Q28 CHANGE 1-9 WITH MOST Q5 DAYS. IF TIE FOR MOST
DAYS, SELECT CHANGE USING THE FOLLOWING HIERARCHY: 2 (Continued vanpool), 1 (Continued carpool), 4 (Continued
Metrorail), 9 (Continued light rail), 3 (Continued bus), 5 (Continued commuter train), 6 (Continued bicycle), 7 (Continued
walking), 8 (Continued telework)

Continued Occupancy Change
IF Q28 NE ANY OF 1-9, BUT Q28 = 10 (Continued occupancy), SET Q30 = 10

Temporary Change
IF Q28 NE ANY OF 1-10, BUT Q28 = ANY OF 11-19 (Temporary mode change), SET Q30 = Q28 CHANGE 11-19 WITH
LONGEST Q25 DURATION. IF TIE FOR LONGEST DURATION, SELECT CHANGE USING THE FOLLOWING HIERARCHY: 12
(Temporary vanpool), 11 (Temporary carpool), 14 (Temporary Metrorail), 19 (Temporary light rail), 13 (Temporary bus),
15 (Temporary commuter train), 16 (Temporary bicycle), 17 (Temporary walking), 18 (Temporary telework)

Temporary Occupancy Change
IF Q28 NE ANY OF 1-19, BUT Q28 = 20 (Temp occupancy), SET Q30 = 20

Occasional Change
IF Q28 NE ANY OF 1-20 BUT Q28 = ANY OF 21-29, SET Q30 = Q28 CHANGE 21-29 USING THE FOLLOWING HIERARCHY: 22
(Occasional vanpool), 21 (Occasional carpool), 24 (Occasional Metrorail), 29 (Occasional light rail), 23 (Occasional bus),
25 (Occasional commuter train), 26 (Occasional bicycle), 27 (Occasional walking), 28 (Occasional telework).

One-time Change
IF Q28 NE ANY OF 1-29 BUT Q28 = ANY OF 31-39, SET Q30 = Q28 CHANGE 31-39 USING THE FOLLOWING HIERARCHY: 32
(OT vanpool), 31 (OT carpool), 34 (OT Metrorail), 39 (OT light rail), 33 (OT bus), 35 (OT commuter train), 36 (OT bicycle),
37 (OT walking), 38 (OT telework).

IF Q28 = 90, SET Q30 = 90

1  Continued carpool
2  Continued vanpool
3  Continued bus
4  Continued Metrorail
5  Continued commuter train
6  Continued bicycle
7  Continued walking
8  Continued telework
9  Continued light rail – N/A in NOVA
10  Continued occupancy

11  Temporary carpool
12  Temporary vanpool
13  Temporary bus
14  Temporary Metrorail
15  Temporary commuter train
16  Temporary bicycle
17  Temporary walking
18  Temporary telework
19  Temporary light rail – N/A in NOVA
20  Temporary occupancy

List continues on following page
Q30 - Continued

21 Occasional carpool
22 Occasional vanpool
23 Occasional bus
24 Occasional Metrorail
25 Occasional commuter train
26 Occasional bicycle
27 Occasional walking
28 Occasional telework
29 Occasional light rail – N/A in NOVA

31 One-time carpool
32 One-time vanpool
33 One-time bus
34 One-time Metrorail
35 One-time commuter train
36 One-time bicycle
37 One-time walking
38 One-time telework
39 One-time light rail – N/A in NOVA

90 No change

Q30 MODE  DEFINE MODE TO INSERT IN NEXT SECTION – AUTOCODE ONLY
SELECT ONE MODE FROM Q30 LIST: SET WITH THIS PRIORITY

IF Q30 = 1, 11, 21, OR 31, Q30 MODE = 1 carpool
IF Q30 = 2, 12, 22, OR 32, Q30 MODE = 2 vanpool
IF Q30 = 3, 13, 23, OR 33, Q30 MODE = 3 bus
IF Q30 = 4, 14, 24, OR 34, Q30 MODE = 4 Metrorail
IF Q30 = 5, 15, 25, OR 35, Q30 MODE = 5 commuter train
IF Q30 = 6, 16, 26, OR 36, Q30 MODE = 6 bicycle
IF Q30 = 7, 17, 27, OR 37, Q30 MODE = 7 walking
IF Q30 = 8, 18, 28, OR 38, Q30 MODE = 8 telework
IF Q30 = 9, 19, 29, OR 39, Q30 MODE = 9 light rail train – N/A in NOVA, RESERVE FOR SOVA

IF Q30 = 10 OR 20, AND Q27 = 1 OR 3, Q30 MODE = 1 carpool
IF Q30 = 10 OR 20, AND Q27 = 2 OR 4, Q30 MODE = 2 vanpool

IF Q30 = 90, Q30 MODE = 10 None

1 Carpool
2 Vanpool
3 Bus
4 Metrorail
5 Commuter train
6 Bicycle
7 Walking
8 Telework
9 Light rail train – N/A in NOVA, RESERVE FOR SOVA
10 None
Q31 CHANGE TYPE – AUTOCODE ONLY – SELECT ONLY ONE

IF Q30 = ANY OF 1 - 10, Q31 = 1 (Continued change)
IF Q30 = ANY OF 11 - 20, Q31 = 2 (Temporary change)
IF Q30 = ANY OF 21 - 29, Q31 = 3 (Occasional change)
IF Q30 = ANY OF 31 - 39, Q31 = 4 (One-time change)
IF Q30 = 90, Q31 = 9 (No change)

1  Continued change
2  Temporary change
3  Occasional change
4  One-time change
9  No change

BRANCHING INSTRUCTIONS
IF Q31 = 9 (no change), SKIP TO Q60
IF Q31 = 1 (continued change), SKIP TO INSTRUCTIONS BEFORE Q50
IF Q31 = 3 (occasional change), SKIP TO INSTRUCTIONS BEFORE Q50
IF Q31 = 4 (one-time change), SKIP TO Q60

Autofill temporary travel grid for temporary changers who did not change mode or frequency
IF Q30 = 20 (occupancy change with no mode change), AUTOFILL Q41 = Q1, AUTOFILL Q43 = Q5, THEN SKIP TO INSTRUCTIONS BEFORE Q46.

IF Q30 = 11, CONTINUE WITH Q41, INSERT ‘carpool’ AS Q30 MODE
IF Q30 = 12, CONTINUE WITH Q41, INSERT ‘vanpool’ AS Q30 MODE
IF Q30 = 13, CONTINUE WITH Q41, INSERT ‘bus’ AS Q30 MODE
IF Q30 = 14, CONTINUE WITH Q41, INSERT ‘Metrorail’ AS Q30 MODE
IF Q30 = 15, CONTINUE WITH Q41, INSERT ‘commuter train’ AS Q30 MODE
IF Q30 = 16, CONTINUE WITH Q41, INSERT ‘bicycle’ AS Q30 MODE
IF Q30 = 17, CONTINUE WITH Q41, INSERT ‘walking’ AS Q30 MODE
IF Q30 = 18, CONTINUE WITH Q41, INSERT ‘telework’ AS Q30 MODE
IF Q30 = 19, CONTINUE WITH Q41, INSERT ‘light rail train’ AS Q30 MODE

TRAVEL DURING TEMPORARY CHANGE

41  During the time of this temporary change to [Q30 MODE: carpool, vanpool, bus, Metrorail, commuter train, bicycle, walking, telework, light rail train], how many weekdays, Monday through Friday, were you assigned to work in a typical week?

1  1 day per week (SKIP TO Q43)
2  2 days per week (SKIP TO Q43)
3  3 days per week
4  4 days per week
5  5 days per week (SKIP TO Q43)
9  Did not work then (SKIP TO Q60)

42  At that time, did you work a compressed work schedule, for example, four-ten hour days per week, or work a part-time schedule?

1  worked compressed work schedule
2  worked part-time
3  Other (specify) _________________________
9  Left blank (internet only)
During the time of your temporary change to [Q30 MODE: carpool, vanpool, bus, Metrorail, commuter train, bicycle, walking, telework, light rail train], how did you get to work? Enter the number of days you typically used each of the listed types of transportation. If you used more than one type on a single day (e.g., walked to the bus stop, then rode the bus), count only the type you used for the longest distance part of your trip.

(PROGRAMMER NOTE: IF Q4a = 3, ALSO SHOW) “For days that you were on business or work travel, please report the type of transportation you would have used to get to work if you worked at your usual work location.”

Indicate also how many weekdays you did NOT travel to your usual work location and the reasons (e.g., regular day off, telework, compressed work schedule day off) for not traveling to work.

PROGRAMMER NOTES:
IF Q42 = 1 (CWS) AND RESPONDENT DOES NOT REPORT "CWS day off" (RESPONSE 1), SHOW MESSAGE: “You said you typically worked a compressed work schedule. How many compressed schedule days did you typically have off during the time of this temporary change.” PERMIT “0” AS THE RESPONSE

IF Q4 = 3, 4, 5, 6, OR 7 (TELEWORK 1+ DAYS PER WEEK) AND RESPONDENT DOES NOT CHECK "Telecommute" (RESPONSE 2), SHOW MESSAGE: “You said you typically telework. How many days did you telework during the time of this temporary change?” ACCEPT “0” AS RESPONSE

CHECK SUM OF DAYS. IF TOTAL OF Q43 DAYS 1-18 IS LESS THAN Q41, SHOW MESSAGE “And how do you commute on other days you are assigned to work?” IF TOTAL OF 1-18 IS GREATER THAN Q41, SHOW MESSAGE: “You’ve reported more than five days. Please report only for Monday – Friday and one type of transportation for each day.”

<table>
<thead>
<tr>
<th>Type of Transportation</th>
<th>Number of Days Used (0 to 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Days you traveled to your usual work location</td>
<td></td>
</tr>
<tr>
<td>3 Drive alone in a car, truck, van, or SUV, Motorcycle, Ride in a taxi</td>
<td></td>
</tr>
<tr>
<td>4 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>5 Carpool, including carpool w/family member, dropped off (ride or drive with others in a car, truck, van, or SUV)</td>
<td></td>
</tr>
<tr>
<td>6 Casual carpool (slugging)</td>
<td></td>
</tr>
<tr>
<td>7 Vanpool</td>
<td></td>
</tr>
<tr>
<td>8 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>9 Ride a bus (public bus, shuttle, buspool, express bus)</td>
<td></td>
</tr>
<tr>
<td>10 Ride Metrorail</td>
<td></td>
</tr>
<tr>
<td>11 Ride a commuter train (MARC, VRE, Amtrak, other train)</td>
<td></td>
</tr>
<tr>
<td>12 Ride a light rail train - N/A in NOVA – RESERVE FOR SOVA</td>
<td></td>
</tr>
<tr>
<td>13 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>14 Bicycle (entire trip or longest distance part of trip from home to work)</td>
<td></td>
</tr>
<tr>
<td>15 Walk (entire trip or longest distance part of trip from home to work)</td>
<td></td>
</tr>
<tr>
<td>16 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>Days you did not travel to your usual work location</td>
<td></td>
</tr>
<tr>
<td>1 Compressed work schedule day off</td>
<td></td>
</tr>
<tr>
<td>2 Telecommute / telework all day</td>
<td></td>
</tr>
<tr>
<td>17 Have a regular day off</td>
<td></td>
</tr>
<tr>
<td>18 Other (describe)</td>
<td></td>
</tr>
</tbody>
</table>

Total Days (DO NOT SHOW THIS LINE ON SCREEN) | Sum of 1-18
DEFINE Q43 MODES USED (ALLOW MULTIPLE MODES):

D_CWDAYS = SUM OF Q43, RESPONSE 1
D_TWDAYS = SUM OF Q43, RESPONSE 2
D_DADAYS = SUM OF Q43, RESPONSE 3
D_CPDAYS = SUM OF Q43, RESPONSE 5, 6
D_VPDAYS = SUM OF Q43, RESPONSE 7
D_BUDAYS = SUM OF Q43, RESPONSE 9
D_MRDAYS = SUM OF Q43, RESPONSE 10
D_CRDAYS = SUM OF Q43, RESPONSE 11
D_BKDAYS = SUM OF Q43, RESPONSE 14
D_WKDAYS = SUM OF Q43, RESPONSE 15
D_LRDAYS = SUM OF Q43, RESPONSE 12 – NOT USED IN NOVA, RESERVE FOR SOVA

IF D_CWDAYS > 0, Q43 MODE = COMPRESSED SCHEDULE
IF D_TWDAYS > 0, Q43 MODE = TELEWORK
IF D_DADAYS > 0, Q43 MODE = DRIVE ALONE
IF D_CPDAYS > 0, Q43 MODE = CARPOOL
IF D_VPDAYS > 0, Q43 MODE = VANPOOL
IF D_BUDAYS > 0, Q43 MODE = BUS
IF D_MRDAYS > 0, Q43 MODE = METRORAIL
IF D_CRDAYS > 0, Q43 MODE = COMMUTER TRAIN
IF D_BKDAYS > 0, Q43 MODE = BICYCLE
IF D_WKDAYS > 0, Q43 MODE = WALKING
IF D_LRDAYS > 0, Q43 MODE = 11 LIGHT RAIL – NOT USED IN NOVA, RESERVE FOR SOVA

DEFINE DALTDAYS = TOTAL Q43 DAYS USING MODES 5, 6, 7, 9, 10, 11, 12, 14, 15

CHECK FOR TEMPORARY USE OF MODES IN TEMPORARY CHANGES

IF Q30 = 11 AND D_CPDAYS = 0, ASK Q44, INSERTING “CARPOOL” AS Q43 MODE
IF Q30 = 12 AND D_VPDAYS = 0, ASK Q44, INSERTING “VANPOOL” AS Q43 MODE
IF Q30 = 13 AND D_BUDAYS = 0, ASK Q44, INSERTING “BUS” AS Q43 MODE
IF Q30 = 14 AND D_MRDAYS = 0, ASK Q44, INSERTING “METRORAIL” AS Q43 MODE
IF Q30 = 15 AND D_CRDAYS = 0, ASK Q44, INSERTING “COMMUTER TRAIN” AS Q43 MODE
IF Q30 = 16 AND D_BKDAYS = 0, ASK Q44, INSERTING “BICYCLE” AS Q43 MODE
IF Q30 = 17 AND D_WKDAYS = 0, ASK Q44, INSERTING “WALKING” AS Q43 MODE
IF Q30 = 18 AND D_TWDAYS = 0, ASK Q44, INSERTING “TELEWORK” AS Q43 MODE
IF Q30 = 19 AND D_LRDAYS = 0, ASK Q44, INSERTING “LIGHT RAIL TRAIN” AS Q43 MODE – NOT USED IN NOVA, RESERVE FOR SOVA

OTHERWISE, SKIP TO INSTRUCTIONS BEFORE Q46

45 Earlier you said you made a temporary change to (Q43 MODE: carpool, vanpool, bus, Metrorail, commuter train, bicycle, walking, telework, light rail train), but you haven’t mentioned using this type of transportation for your commute during that time. About how many days per week did you typically use (Q43 MODE: carpool, vanpool, bus, Metrorail, commuter train, bicycle, walking, telework, light rail train) then to commute? (DO NOT READ RESPONSES)

0 0
1 1
2 2
3 3
4 4
5 5
8 Only used occasionally, used less than one time per week

IF Q45 = 0, SKIP TO Q60
**INSTRUCTIONS BEFORE Q46**

- IF $D\_CPDAYS = 0$ AND $D\_VPDAYS = 0$, SKIP TO INSTRUCTIONS BEFORE Q50

- IF $Q30 = 20$ AND $Q27 = 3$, ASK Q46, INSERT “carpool” AS Q43 MODE
- IF $Q30 = 20$ AND $Q27 = 4$, ASK Q46, INSERT “vanpool” AS Q43 MODE

- IF $Q30 \neq 20$ AND $D\_CPDAYS > D\_VPDAYS$, ASK Q46, INSERT “carpool” AS Q43 MODE
- IF $Q30 \neq 20$ AND $D\_VPDAYS > D\_CPDAYS$, ASK Q46, INSERT “vanpool” AS Q43 MODE
- IF $Q30 \neq 20$ AND $D\_CPDAYS = D\_VPDAYS$, ASK Q46, INSERT “vanpool” AS Q43 MODE

**Q46** How many people were in your [Q43 MODE, carpool, vanpool] during that time?  
______ number of people

**TRAVEL BEFORE MAKING CHANGE**

**INSTRUCTIONS BEFORE Q50**

- IF $Q30 = 10$ OR $20$ (occupancy change with no mode change), AUTOFILL Q50 = Q1, AUTOFILL Q52 = Q5, THEN SKIP TO INSTRUCTIONS BEFORE Q53

- IF $Q30 = 1, 11$, OR $21$, CONTINUE WITH Q50, INSERT ‘carpool’ AS Q30 MODE
- IF $Q30 = 2, 12$, OR $22$, CONTINUE WITH Q50, INSERT ‘vanpool’ AS Q30 MODE
- IF $Q30 = 3, 13$, OR $23$, CONTINUE WITH Q50, INSERT ‘bus’ AS Q30 MODE
- IF $Q30 = 4, 14$, OR $24$, CONTINUE WITH Q50, INSERT ‘Metrorail’ AS Q30 MODE
- IF $Q30 = 5, 15$, OR $25$, CONTINUE WITH Q50, INSERT ‘commuter train’ AS Q30 MODE
- IF $Q30 = 6, 16$, OR $26$, CONTINUE WITH Q50, INSERT ‘bicycle’ AS Q30 MODE
- IF $Q30 = 7, 17$, OR $27$, CONTINUE WITH Q50, INSERT ‘walking’ AS Q30 MODE
- IF $Q30 = 8, 18$, OR $28$, CONTINUE WITH Q50, INSERT ‘telework’ AS Q30 MODE
- IF $Q30 = 9, 19$, OR $29$, CONTINUE WITH Q50, INSERT ‘light rail train’ AS Q30 MODE – NOT USED IN NOVA, RESERVE FOR SOVA

**Q50** Think back to the time before you made this change to [Q30 MODE: carpool, vanpool, bus, Metrorail, commuter train, bicycle, walking, telework, light rail train]. At that time, how many weekdays, Monday through Friday, were you assigned to work in a typical week?  
(DO NOT READ RESPONSES)

1. 1 day per week (SKIP TO Q52)
2. 2 days per week (SKIP TO Q52)
3. 3 days per week
4. 4 days per week
5. 5 days per week (SKIP TO Q52)
   ______. Did not work then (SKIP TO Q60)

**Q51** At that time, did you work a compressed work schedule, for example, four-ten hour days per week, or did you work a part-time schedule?

1. Worked compressed work schedule
2. Worked part-time
3. Other
4. Don’t know, Left blank (internet only)
Before you made the change to [Q30 MODE, carpool, vanpool, bus, Metrorail, commuter train, bicycle, walking, telework, light rail train], how did you get to work? Enter the number of weekdays, Monday-Friday, that you typically used each of the listed types of transportation. If you used more than one type on a single day (e.g., walked to the bus stop, then rode the bus), count only the type you used for the longest distance part of your trip.

(PROGRAMMER NOTE: IF Q4a = 3, ALSO SHOW): “For days that you were on business or work travel, please report the type of transportation you would have used to get to work if you worked at your usual work location.”

Indicate also how many weekdays you did NOT travel to your usual work location and the reasons (e.g., regular day off, telework, compressed work schedule day off) for not traveling to work.

PROGRAMMER NOTES:
IF Q51 = 1 (CWS) AND RESPONDENT DOES NOT REPORT “CWS day off” (RESPONSE 1), SHOW MESSAGE: “You said you typically worked a compressed work schedule. How many compressed schedule days did you typically have off during the time of this temporary change.” PERMIT “0” AS THE RESPONSE

IF Q4 = 3, 4, 5, 6, OR 7 (TELEWORK 1+ DAYS PER WEEK) AND RESPONDENT DOES NOT CHECK ”Telecommute” (RESPONSE 2), SHOW MESSAGE: “You said you typically telework. How many days did you telework during the time of this temporary change?” ACCEPT “0” AS RESPONSE

CHECK SUM OF DAYS. IF TOTAL OF Q52 DAYS 1-18 IS LESS THAN Q50, SHOW MESSAGE “Please report for all days Monday – Friday, including days you did not work.” IF TOTAL OF 1-18 IS GREATER THAN Q50, SHOW MESSAGE: “You’ve reported more than five days. Please report only for Monday – Friday and one type of transportation for each day.”

<table>
<thead>
<tr>
<th>Type of Transportation</th>
<th>Number of Days Used (0 to 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Days you traveled to your usual work location</td>
<td></td>
</tr>
<tr>
<td>3 Drive alone in a car, truck, van, or SUV, Motorcycle, Ride in a taxi</td>
<td></td>
</tr>
<tr>
<td>4 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>5 Carpool, including carpool w/family member, dropped off (ride or drive with others in a car, truck, van, or SUV)</td>
<td></td>
</tr>
<tr>
<td>6 Casual carpool (slugging)</td>
<td></td>
</tr>
<tr>
<td>7 Vanpool</td>
<td></td>
</tr>
<tr>
<td>8 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>9 Ride a bus (public bus, shuttle, buspool, express bus)</td>
<td></td>
</tr>
<tr>
<td>10 Ride Metrorail</td>
<td></td>
</tr>
<tr>
<td>11 Ride a commuter train (MARC, VRE, Amtrak, other train)</td>
<td></td>
</tr>
<tr>
<td>12 Ride a light rail train - N/A in NOVA – RESERVE FOR SOVA</td>
<td></td>
</tr>
<tr>
<td>13 N/A – don’t use</td>
<td></td>
</tr>
<tr>
<td>14 Bicycle (entire trip or longest distance part of trip from home to work)</td>
<td></td>
</tr>
<tr>
<td>15 Walk (entire trip or longest distance part of trip from home to work)</td>
<td></td>
</tr>
<tr>
<td>16 N/A – don’t use</td>
<td></td>
</tr>
</tbody>
</table>

| Days you did not travel to your usual work location          |                              |
| 1 Compressed work schedule day off                          |                              |
| 2 Telecommute / telework all day                            |                              |
| 17 Have a regular day off                                   |                              |
| 18 Other (describe)________________________________________|                              |

Total Days (DO NOT SHOW THIS LINE ON SCREEN)                  | Sum of 1-18
DEFINE Q52 MODES USED (ALLOW MULTIPLE MODES):
  P_CWDAYS = SUM OF Q52, RESPONSE 1
  P_TWDAYS = SUM OF Q52, RESPONSE 2
  P_DADAYS = SUM OF Q52, RESPONSE 3
  P_CPADAYS = SUM OF Q52, RESPONSE 5, 6
  P_VPADAYS = SUM OF Q52, RESPONSE 7
  P_BUDAYS = SUM OF Q52, RESPONSE 9
  P_MRADAYS = SUM OF Q52, RESPONSE 10
  P_CRDAYS = SUM OF Q52, RESPONSE 11
  P_BKADAYS = SUM OF Q52, RESPONSE 14
  P_WKADAYS = SUM OF Q52, RESPONSE 15
  P_LRDAYS = SUM OF Q52, RESPONSE 12

IF P_CWDAYS > 0, Q52 MODE = COMPRESSED SCHEDULE
IF P_TWDAYS > 0, Q52 MODE = TELEWORK
IF P_DADAYS > 0, Q52 MODE = DRIVE ALONE
IF P_CPADAYS > 0, Q52 MODE = CARPOOL
IF P_VPADAYS > 0, Q52 MODE = VANPOOL
IF P_BUDAYS > 0, Q52 MODE = BUS
IF P_MRADAYS > 0, Q52 MODE = METRORAIL
IF P_CRDAYS > 0, Q52 MODE = COMMUTER TRAIN
IF P_BKADAYS > 0, Q52 MODE = BICYCLE
IF P_WKADAYS > 0, Q52 MODE = WALKING
IF P_LRDAYS > 0, Q52 MODE = LIGHT RAIL TRAIN

DEFINE PALTDAYS = SUM OF Q52 DAYS USING MODES 5, 6, 7, 9, 10, 11, 14, 15

INSTRUCTIONS BEFORE Q53
IF P_CPDAYS = 0 AND P_VPDAYS = 0, SKIP TO Q54

IF Q30 = 10 AND Q27 = 1, ASK Q53, INSERT “carpool” AS Q52 MODE
IF Q30 = 10 AND Q27 = 2, ASK Q53, INSERT “vanpool” AS Q52 MODE

IF Q30 = 20 AND Q27 = 3, ASK Q53, INSERT “carpool” AS Q52 MODE
IF Q30 = 20 AND Q27 = 4, ASK Q53, INSERT “vanpool” AS Q52 MODE

IF Q30 NE 10 OR 20 AND P_CPDAYS > P_VPDAYS, ASK Q53, INSERT “carpool” AS Q52 MODE
IF Q30 NE 10 OR 20 AND P_VPDAYS > P_CPDAYS, ASK Q53, INSERT “vanpool” AS Q52 MODE
IF Q30 NE 10 OR 20 AND P_CPDAYS = P_VPDAYS, ASK Q53, INSERT “vanpool” AS Q52 MODE

53 How many people were in your [Q52 MODE, carpool, vanpool] before you made that change?
   ______ number of people
   999 Don’t know, Question left blank (internet only)
What were the reasons that you made that change?

OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSES ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES IN POST PROCESSING – ACCEPT MULTIPLES

Personal changes or preferences
1 changed job, work hours, work location
2 save money
3 parking costs were too high
4 gas prices too high, save money on gas
5 no parking available at work
6 save time
7 moved to a different residence
8 reduce congestion/pollution
9 safety
10 no vehicle available, vehicle became unavailable
11 tired of driving
12 others doing it (friends, coworkers, other people, etc.)
13 carpool/vanpool didn’t work out
14 avoid construction area

Commute program or services
15 SmarTrip, or other transit/vanpool discount
16 financial incentives
17 a new option became available
18 advertising
19 special program at work
20 pressure or encouragement from employer
21 use HOV lane
22 employer permitted telework

Commuter Connections information or services
23 Names and contact information for people you could contact to form a carpool or vanpool (matchlist)
24 Map showing home and work locations of people you could contact to form a carpool or vanpool
25 Carpool / vanpool rider bulletin board
26 Other carpool / vanpool information
27 Vanpooling assistance
28 HOV lane information
29 Pool Rewards carpool financial incentive
30 Transit schedule or route information
31 Transit fare information, SmarTrip
32 Park & Ride lot information
33 Telework information, telework center information
34 Bicycle to Work Guide, bicycling information
35 Online bicycle route planning
36 Guaranteed / Emergency Ride Home information or trip
37 Special events information (e.g., Bike to Work Day, Car Free Day)
38 Other (specify)
IF USER = 2 (REQUESTED), AUTOCODE Q55 = 90, THEN SKIP TO Q56

55 Did any of the information or assistance from Commuter Connections or [PROGRAM NAME] influence you or assist you to make the change?

   90 Did not receive any services from Commuter Connections/[PROGRAM NAME]
   91 No, services did not influence or assist
   99 Don’t know, Question left blank (internet only)

* Yes (please specify)
OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSES ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES IN POST PROCESSING – ACCEPT MULTIPLES

1 Names and contact information for people you could contact to form a carpool or vanpool (matchlist)
2 Map showing home and work locations of people you could contact to form a carpool or vanpool
3 Carpool / vanpool rider bulletin board
4 Other carpool / vanpool information
5 Vanpooling assistance
6 Transit schedule or route information
7 Transit fare information, SmarTrip
8 Park & Ride information
9 Guaranteed / Emergency Ride Home information or trip
10 Telework information, telework center information
11 Bicycle to Work Guide, bicycling information
12 Online bicycle route planning
13 HOV lane information
14 Pool Rewards financial incentive
15 Special events information (e.g., Bike to Work Day, Car Free Day)
16 NuRide rewards
17 Vanpool leasing
18 Other (specify)
56 Did any commute information, assistance, or benefits from your employer or another organization influence or assist you?

90 Did not receive any services
91 No, services did not influence or assist
99 Don’t know, Question left blank (internet only)

* Yes (please specify)
OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSE ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES IN POST PROCESSING – ACCEPT MULTIPLES
1 Matchlist, contact info for potential carpool / vanpool partners
2 Map showing home and work locations of potential carpool / vanpool partners
3 Transit schedule or route information
4 Park & Ride information
5 Vanpooling assistance
6 Guaranteed Ride Home information or registration
7 GRH trip
8 Telecommuting information, telework center information
9 Bicycling map, bicycle route planning, bicycling information
10 HOV lane information
11 Discount / free transit pass / Smart Trip Card
12 Other cash incentive
13 Compressed work week/telecommute
14 Carpool/vanpool preferential parking
15 Parking fees
16 Carpool/vanpool discount parking fee
17 Smart Tag / E-Z Pass subsidy
18 HOV lane info
19 Shuttle bus
20 Federal Tax Benefit / Commuter Choice Program
21 Referral to Commuter Connections/[PROGRAM NAME]
22 Telecommuting info
23 NuRide-carpool incentive
24 Other (specify)

57 How important were economic reasons, such as saving money or reducing your gas expense, in motivating you to make the change, as compared with other reasons you mentioned?

1 Economic reasons were more important
2 Economic reasons were less important
3 Economic reasons were about the same importance
4 Economic reasons were my only influence
9 Don’t know/refuse

IF Q31 = 1 OR 3, SKIP TO Q60
IF Q31 = 2, ASK Q58
58  What were the reasons you did not continue this change?

OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSE ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES IN POST PROCESSING – ACCEPT MULTIPLES
1  too inconvenient
2  cost too much
3  took too much time
4  safety concerns
5  job changes - job, work site,
6  need vehicle during or after work
7  vehicle became unavailable/unreliable
8  moved home location
9  didn’t like pool partners
10 new/changes in employer program
11 bus or rail schedule or route change or schedule
12 car became available
13 Other (Specify)
99 Don’t know, Question left blank (internet only)

AWARENESS

60  How did you learn about Commuter Connections or [PROGRAM NAME] and its programs and services?

OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSE ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES IN POST PROCESSING – ACCEPT MULTIPLES
1  Brochure/promo materials
2  Bus/train schedule
3  Bus/train sign
4  Direct mail/postcard from COG/CC
5  Employer/employer survey
6  Fair/on-site event
7  Government office
8  Highway sign
9  Internet
10 Newsletter
11 Newspaper (regional or local)
12 Other rideshare/transit organization
13 Radio
14 TV
15 Was/Is applicant
16 Word of mouth
17 Info Kiosk
18 Yellow Pages (One Book or Verizon)
19 Billboard
29 Other
99 Don’t know, Question left blank (internet only)
61 Which of the following sources did you use to contact Commuter Connections or [PROGRAM NAME] for assistance? (SHOW RESPONSES 1-6 AND 9) ACCEPT MULTIPLES

1. Employer
2. Commuter Connections website on the Internet
3. [PROGRAM NAME] website
4. Commuter Connections telephone number (1-800-745-RIDE)
5. Commute assistance program operated by county or city
6. Transportation Management Association (TMA)
7. N/A – don’t use / don’t show on screen – RESERVE FOR SOVA
8. Other (please describe) ______________________________

62 What prompted you to seek commute information or assistance from Commuter Connections or [PROGRAM NAME] at that time?

OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSE ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES IN POST PROCESSING – ACCEPT MULTIPLES

1. save gas, gas prices too high, wanted to reduce gas expense
2. didn’t want to drive anymore/tired of driving
3. traffic is bad, has gotten worse
4. changed jobs, moved to a new work location
5. moved to a new residence
6. wanted to save money
7. wanted to save time
8. didn’t have/don’t have a place to park
9. concerned about the environment
10. no vehicle available
11. construction along my route to work
12. avoid stress
13. in case of emergencies, wanted back-up transportation
14. could receive financial incentive for transit, vanpool
15. advertising, newspaper, billboard, flyer
16. employer program or service
17. referral from family, friend, co-worker, word of mouth
18. save wear and tear, reduce mileage on car
19. Other (SPECIFY) ______________________________

99 Don’t know, Question left blank (internet only)
COMMUTER CONNECTIONS / [PROGRAM NAME] SERVICES ACCESSED – AUTOCODE ONLY

IF Q_S1 = 1, AUTOCODE Q63 = 1
IF Q_S1 = 2, AUTOCODE Q63 = 2
IF Q_S1 = 3, AUTOCODE Q63 = 3
IF Q_S1 = 4, AUTOCODE Q63 = 4
IF Q_S1 = 5, AUTOCODE Q63 = 5
IF Q_S1 = 6, AUTOCODE Q63 = 6
IF Q_S1 = 7, AUTOCODE Q63 = 7
IF Q_S1 = 8, AUTOCODE Q63 = 16
IF Q_S1 = 9, AUTOCODE Q63 = 17

IF Q_S2 = 1, AUTOCODE Q63 = 8
IF Q_S2 = 2, AUTOCODE Q63 = 9
IF Q_S2 = 3, AUTOCODE Q63 = 10
IF Q_S2 = 4, AUTOCODE Q63 = 11
IF Q_S2 = 5, AUTOCODE Q63 = 12
IF Q_S2 = 6, AUTOCODE Q63 = 13
IF Q_S2 = 7, AUTOCODE Q63 = 14
IF Q_S2 = 8, AUTOCODE Q63 = 15
IF Q_S_1 = 90 OR 98 AND Q_S2 = 90 OR 98, AUTOCODE Q63 = 90

1 Names and contact information for people you could contact to form a carpool or vanpool (matchlist)
2 Map showing home and work locations of people you could contact to form a carpool or vanpool
3 Carpool / vanpool rider bulletin board
4 Other carpool / vanpool information
5 Vanpooling assistance
6 HOV lane information
7 Pool Rewards carpool financial incentive
8 Transit schedule or route information
9 Transit fare information, SmarTrip
10 Park & Ride lot information
11 Telework information, telework center information
12 Bicycle to Work Guide, bicycling information
13 Online bicycle route planning
14 Guaranteed / Emergency Ride Home information or trip
15 Special events information (e.g., Bike to Work Day, Car Free Day)
16 NuRide rewards
17 Vanpool leasing
90 Did not receive any services from Commuter Connections/[PROGRAM NAME]
64 Does your employer offer any of the following commuter information, assistance, or transportation benefits? (SHOW
RESPONSES 1-17 AND 90, ACCEPT MULTIPLES FOR RESPONSES 1-17.)

1 Names and contact information for people you could contact to form a carpool or vanpool (matchlist)
2 Carpool or vanpool information
3 Transit route or schedule information
4 Discounted or free transit pass, SmartBenefits
5 Financial incentive for employees who vanpool to work
6 Financial incentive for employees who carpool to work
7 Other cash incentive for commute cost
8 Guaranteed / Emergency Ride Home in case of emergencies or unscheduled overtime
9 Compressed work schedule
10 Telework
11 Preferential or special parking spaces for carpools or vanpools
12 Free onsite parking
13 Discounted parking fee for carpools and vanpools
14 Smart Tag / E-Z Pass subsidy
15 Shuttle bus to Metrorail or bus stop
16 Federal Tax Benefit/ "Commuter Choice" program
17 Zipcar carshare service account
18 Other (SPECIFY)
90 No, employer doesn’t offer any services

66 RESPONDENT RECEIVED MATCHING INFO – AUTOCODE ONLY

IF Q63 = 1, SET Q66 = 1 (Commuter Connections / [PROGRAM NAME] matchlist)
IF Q64 = 1, SET Q66 = 2 (other matchlist)
IF Q63 = 2, SET Q66 = 3 (map)
IF Q63 = 3, SET Q66 = 4 (bulletin board)
IF Q63 NE 1, 2, OR 3 AND Q64 NE 1 AND Q65 NE 1 OR 2, SET Q66 = 9

1 Commuter Connections [PROGRAM NAME] matchlist
2 Other matchlist
3 Map
4 Bulletin board
9 No matching info

INSTRUCTIONS BEFORE Q70
IF Q66 = 1 OR 2, ASK Q70, OTHERWISE, SKIP TO INSTRUCTIONS BEFORE Q80

70 You said you obtained names of people you could contact to form a carpool or vanpool. How many names did you receive?

99 Don’t remember

IF Q70 = 0, SKIP TO INSTRUCTIONS BEFORE Q80

71 Did you try to contact any of these people?

1 Yes (CONTINUE WITH Q72)
2 No (SKIP TO Q74)
9 Can’t remember/Don’t know (SKIP TO INSTRUCTIONS BEFORE Q80)
72 Were you able to reach any of the people named?

1 Yes
2 No
9 Don’t remember/don’t know

IF Q72 = 2 OR 9, AUTOCODE Q73 = 1, THEN SKIP TO INSTRUCTIONS BEFORE Q80

73 Were any of the people you reached interested in forming a carpool or vanpool, if your travel destination and schedule were compatible? **(ALLOW ONE RESPONSE ONLY)**

1 Was not able to reach any of the people
2 At least one person was interested
3 At least one person was interested but schedules or destinations were not compatible
4 People were not interested
9 Don’t remember/don’t know

SKIP TO INSTRUCTIONS BEFORE Q80

74 Why did you decide not to contact any of the people?

1 Haven’t gotten around to it
2 Decided I didn’t want to carpool/vanpool
3 Moved to a new residence
4 Changed jobs
5 Work hours were not compatible with mine
6 Work or home locations were not compatible with mine
7 Already found rideshare arrangement (carpool, vanpool, transit, bike, walk)
8 other (Specify) __________________

INSTRUCTIONS BEFORE Q80 – TRANSIT INFO

IF Q63 = 8 OR 9, RECEIVED TRANSIT INFO FROM COMMUTER CONNECTIONS/[PROGRAM NAME], CONTINUE.
IF Q63 NE 8 OR 9, SKIP TO INSTRUCTIONS BEFORE Q84

80 You said that you received information about transit from Commuter Connections or [PROGRAM NAME]. Did you contact a transit agency listed in the information you received?

1 Yes
2 No (SKIP TO Q83)
9 Don’t remember, don’t know (SKIP TO INSTRUCTIONS BEFORE Q84)

81 Did you use the information from the transit agency to try transit?

1 Yes (SKIP TO INSTRUCTIONS BEFORE Q84)
2 No (ASK Q82)
9 Don’t remember, don’t know (SKIP TO INSTRUCTIONS BEFORE Q84)
82 Why did you decide not to try transit?

OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSE ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES
IN POST PROCESSING – ACCEPT MULTIPLES
1 Never got around to it
2 Wouldn’t work with my schedule
3 Too far from home/work
4 Service not available
5 Commute too long
6 Too expensive
7 Prefer other mode
8 other (SPECIFY)
98 Don’t know
99 Left blank (internet only)

SKIP TO INSTRUCTIONS BEFORE Q84

83 Why did you decide not to contact the transit agency?

OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSE ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES
IN POST PROCESSING – ACCEPT MULTIPLE RESPONSES
1 Never got around to it
2 Don’t like transit – wouldn’t ever use
3 Too far from home/work
4 Prefer other mode or current mode
5 Wasn’t interested, didn’t ask for it
6 other (SPECIFY)
98 Don’t know
99 Left blank (internet only)

INSTRUCTIONS BEFORE Q84 – PARK & RIDE
IF Q63 NE 10 (P&R INFO), SKIP TO INSTRUCTIONS BEFORE Q90
IF Q63 = 10, CONTINUE WITH Q84

84 You said that you received park & ride information. Have you used the park & ride lot listed on the information you received?

1 Yes (CONTINUE)
2 No (SKIP TO Q88)
9 Don’t remember, don’t know (SKIP TO INSTRUCTIONS BEFORE Q90)
99 Left blank (internet only) (SKIP TO INSTRUCTIONS BEFORE Q90)

85 Were you aware of the lot before you received the information?

1 Yes
2 No (SKIP TO Q87)
8 Don’t know (SKIP TO Q87)
9 Left blank (internet only)
86 Had you used the lot before you received the information?

1 Yes
2 No
8 Don’t know
9 Left blank (internet only)

IF Q30 = 90 OR 99, SKIP TO INSTRUCTIONS BEFORE Q90
IF Q30 = 6, 7, 8, 10, 16, 17, 18, 20, SKIP TO INSTRUCTIONS BEFORE Q90
IF Q30 = ANY OF 31-39, SKIP TO INSTRUCTIONS BEFORE Q90
IF Q30 = 1, 11, OR 21, ASK Q87, INSERT “carpool” as Q30 MODE
IF Q30 = 2, 12, OR 22, ASK Q87, INSERT “vanpool” as Q30 MODE
IF Q30 = 3, 13, OR 23, ASK Q87, INSERT “bus” as Q30 MODE
IF Q30 = 4, 14, OR 24, ASK Q87, INSERT “Metrorail” as Q30 MODE
IF Q30 = 5, 15, OR 25, ASK Q87, INSERT “commuter train” as Q30 MODE
IF Q30 = 9, 19, OR 29, ASK Q87, INSERT “light rail train” as Q30 MODE

87 Was using the park & ride lot a factor in your decision to try using (Q5 MODE: carpool, vanpool, bus, Metrorail, commuter train, light rail train) for your trip to work?

1 Yes
2 No
9 Don’t know

SKIP TO Q90

88 Why did you decide not to use the park & ride lot after getting the information?

OPEN ENDED _______________________

(Do not show these response on screen) Code open-ended responses into the following categories in post processing – accept multiple responses
1 Never got around to it
2 Didn’t want to leave my car
3 Not convenient to transit
4 Didn’t need a park & ride
5 Not convenient to HOV
6 No slug lines
7 No time savings from my previous commute
8 Other (specify)
99 Left blank (internet only)

Instructions before Q90 – Bicycle Info
IF Q63 NE 12 OR 13 (bicycle info), SKIP TO INSTRUCTIONS BEFORE Q95
IF Q63 = 12 OR 13, CONTINUE WITH Q90
90 You said that you received bicycle information from Commuter Connections or [PROGRAM NAME]. Since you received the information, have you taken any of the following actions? (PERMIT MULTIPLES FOR 1-5, DO NOT PERMIT MULTIPLES FOR 5 OR 9)

1 Started bicycling to work
2 Bicycle to work more often
3 Started bicycling for non-work trips
4 Bicycle more often for non-work trips
5 Didn’t make any bicycle changes
6 Don’t remember, don’t know
79 Left blank (internet only)

IF Q90 = 1 – 4, ASK Q91
IF Q90 = 5, 9 OR 99 (BLANK), SKIP TO INSTRUCTIONS BEFORE Q95

91 Was receiving this information a factor in your decision to start bicycling or bicycle more often?

1 Yes
2 No
9 Don’t know

INSTRUCTIONS BEFORE Q95 – TELEWORK INFO
IF Q63 NE 11 (telework info), SKIP TO INSTRUCTIONS BEFORE Q100
IF Q63 = 11, CONTINUE WITH Q95

95 You said you received telework information from Commuter Connections or [PROGRAM NAME]. Since you received the information, have you taken any of the following actions? (PERMIT MULTIPLES FOR 1-5, DO NOT PERMIT MULTIPLES FOR 6 OR 9)

1 Talked to employer about telework
2 Called federal employee telework coordinator (GSA)
3 Started teleworking
4 Started teleworking more often
5 Started working at a telework center
6 Did not take any actions
7 Don’t remember

IF Q95 NE 3 OR 4, SKIP TO INSTRUCTIONS BEFORE Q100
IF Q95 = 3 OR 4, ASK Q96

96 Was receiving this information a factor in your decision to start teleworking or telework more often?

1 Yes
2 No
9 Don’t know

INSTRUCTIONS BEFORE Q100 – GRH
IF Q63 = 14, ASK Q100
IF Q63 NE 14, SKIP TO Q103
100 You said you received information on the Guaranteed / Emergency Ride Home program. At the time you requested GRH information, what type of transportation were you using regularly (2 or more days per week) for your commute? 
(PERMIT UP TO TWO RESPONSES)

1. Drive alone
2. Carpool
3. Vanpool
4. Bus, Metrorail, or commuter rail
5. Bicycle / walk
* other (SPECIFY)

101 Did you register for the GRH program?

1. Yes (SKIP TO Q103)
2. No (ASK Q102)
3. Tried to register, but did not meet eligibility requirements (SKIP to Q103)
99 Left blank (internet only) (SKIP TO INSTRUCTIONS BEFORE Q103)

102 What were the reasons you did not register?

OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSE ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES IN POST PROCESSING – ACCEPT MULTIPLE RESPONSES
1. Couldn’t use carpool, vanpool, or train 2 or more days per week (didn’t meet eligibility requirements)
2. Program doesn’t cover home or work area
3. Program doesn’t cover work hours
4. Employer has a GRH program
5. Didn’t want to pre-register
6. Too much effort to use the service
7. Don’t need it
8. Haven’t gotten around to it
9. other (SPECIFY)
99 Left blank- internet only
COMMUTER CONNECTIONS / PROGRAM IMPROVEMENTS

103 In what ways could Commuter Connections and [PROGRAM NAME] improve their services? (DO NOT READ RESPONSES, ALLOW UP TO TWO RESPONSES)

OPEN ENDED ________________________

(DO NOT SHOW THESE RESPONSE ON SCREEN) CODE OPEN-ENDED RESPONSES INTO THE FOLLOWING CATEGORIES IN POST PROCESSING – ACCEPT MULTIPLES

1 quicker response
2 more helpful staff
3 more follow-up assistance
4 more match names
5 matches fit travel better
6 matches are more interested in carpoo/vanpool
7 better transit information
8 more advertising
9 more current information
10 use Internet
11 transit improvements
12 VP resources & assistance
13 GRH suggestion
14 separate driver & rider lists
88 no improvement needed
99 Prefer not to answer - Left blank(internet)

DEMOGRAPHICS

(NOTE TO PROGRAMMER: ALLOW RESPONDENTS TO SKIP ANY OR ALL DEMOGRAPHIC QUESTIONS. DO NOT MAKE THEM MANDATORY)

The last few questions are for classification purposes only.

105 About how many employees work at your worksite?

1 1-25
2 26-50
3 51-100
4 101-250
5 251-999
6 1,000+
99 Prefer not to answer - Left blank(internet)

106 What is your occupation?

99 Prefer not to answer - Left blank(internet)

107 What type of employer do you work for?

1 federal agency
2 state or local government agency
3 non-profit organization or association
4 private sector employer
5 self-employed
* other (SPECIFY) ____________
99 Prefer not to answer - Left blank(internet)
108  Which of the following groups includes your age?

1  under 18
2  18 - 24
3  25 - 34
4  35 - 44
5  45 - 54
6  55 - 64
7  65+
99  Prefer not to answer - Left blank(internet)

109  Do you consider yourself to be Latino, Hispanic, or Spanish?

1  Yes
2  No
99  Prefer not to answer - Left blank(internet)

110  Which of the following best describes your ethnic background?  **(READ RESPONSES 1 – 6, ACCEPT ONLY ONE RESPONSE)**

1  White
2  Black or African-American
3  American Indian or Alaska native
4  Asian
5  Native Hawaiian or other Pacific Islander
6  Other (SPECIFY)
99  Prefer not to answer - Left blank(internet)

111  Finally, please indicate the category that best represents your household’s total annual income.

1  less than $20,000
2  $20,000 - $29,999
3  $30,000 - $39,999
4  $40,000 - $49,999
5  $50,000 - $59,999
6  $60,000 - $79,999
7  $80,000 - $99,999
8  $100,000 - $119,999
9  $120,000 - $139,999
10  $140,000 - $159,999
11  $160,000 or more
99  Prefer not to answer - Left blank(internet)

112  Are you male or female?

1  Male
2  Female
99  Prefer not to answer - Left blank(internet)

Thank you very much for your time and cooperation!