2005/06 Rio Grande Valley Work Place Travel Survey

TECHNICAL SUMMARY

Texas Department of Transportation Travel Survey Program

Prepared by

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Transportation Planning Program

of the
Texas Transportation Institute

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College Station, Texas 77843-3135
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# TABLE OF CONTENTS

Introduction .................................................................................................................................. 1  
Work Place Survey ....................................................................................................................... 1  
Rio Grande Valley Study Area .................................................................................................... 1  
Survey Methodology .................................................................................................................... 2  
Phase 1 Findings ........................................................................................................................ 5  
Sampling Plan ............................................................................................................................. 6  
Sampling Results ......................................................................................................................... 10  
Commercial Vehicle Survey ..................................................................................................... 18  
Special Generators ...................................................................................................................... 23  
  Brownsville-South Padre Island International Airport .............................................................. 23  
  Valley International Airport ....................................................................................................... 27  
Survey Data Expansion ............................................................................................................. 30  
Model Rate Development .......................................................................................................... 36  
Summary of Findings ................................................................................................................ 40  
Appendix: Rio Grande Valley Work Place Travel Survey Forms and Data File Format .......... 43
LIST OF FIGURES

Figure 1. Rio Grande Valley Study Area.................................................................2
Figure 2. Example of a Free-Standing Business Establishment.................................4
Figure 3. Example of Non-Free Standing Business Establishments..............................4
Figure 4. Rio Grande Valley Work Place Survey Locations.........................................10
Figure 5. Distribution of Households by Household Size.............................................13
Figure 6. Distribution of Households by Vehicles Available.........................................13
Figure 7. Distributions of Households by Household Income Range.............................14
Figure 8. Distribution of Surveyed Trips by Mode of Travel.........................................14
Figure 9. Distribution of Surveyed Trips by Trip Purpose...........................................15
Figure 10. Survey Person Trip Length Frequency Distributions.....................................17
Figure 11. Survey Vehicle Trip Length Frequency Distributions....................................17
Figure 12. Distribution of Person Trips by Time of Arrival at Establishments...............18
Figure 13. Distribution of All Commercial Vehicles by Purpose at Establishments.........20
Figure 14. Distribution of Commercial Vehicles by Type of Vehicle............................20
Figure 15. Commercial Vehicle Trip Length Frequency Distribution for Distance...........22
Figure 16. Distribution of Commercial Vehicles by Time of Arrival............................23
Figure 17. Distribution of Surveyed Trips at the Brownsville-South Padre Island
          International Airport................................................................................24
Figure 18. Distribution of Surveyed Trips at the Valley International Airport...............27
LIST OF TABLES

| Table 1. | Standard Industrial Classification Groupings by Employment Type .................. | 3 |
| Table 2. | Results of 5 Percent Sample in Phase 1. ............................................................ | 8 |
| Table 3. | Phase 1 Surveyed Establishments ........................................................................ | 9 |
| Table 4. | Estimated Distribution of Establishments in Rio Grande Valley ....................... | 9 |
| Table 5. | Rio Grande Valley Work Place Survey Phase 2 Sampling Plan ............................. | 9 |
| Table 6. | Distribution of Sites Surveyed ........................................................................... | 9 |
| Table 7. | Full Survey Establishments ................................................................................ | 11 |
| Table 8. | Partial Survey Establishments ........................................................................... | 11 |
| Table 9. | Average Trip Length by Trip Purpose .................................................................. | 16 |
| Table 10. | Distribution of Commercial Vehicles by Type of Cargo ....................................... | 21 |
| Table 11. | Arrival and Departure Modes of Travel for Visitors at the Brownsville-South Padre Island International Airport ........................................ | 25 |
| Table 12. | Average Trip Lengths for Surveyed Trips to the Brownsville-South Padre Island International Airport .......................................................... | 26 |
| Table 13. | Travel Estimates for the Brownsville-South Padre Island International Airport .... | 26 |
| Table 14. | Arrival and Departure Modes of Travel for Visitors at the Valley International Airport ................................................................. | 28 |
| Table 15. | Average Trip Lengths for Surveyed Trips to the Valley International Airport .... | 29 |
| Table 16. | Travel Estimates for the Valley International Airport .......................................... | 30 |
| Table 17. | Raw Person Trip Rates ....................................................................................... | 34 |
| Table 18. | Raw Auto Driver Trip Rates ................................................................................ | 35 |
| Table 19. | Raw Commercial Vehicle Attraction Rates ........................................................... | 35 |
| Table 20. | Employment Estimates for the Valley Study Area ................................................ | 36 |
| Table 21. | Raw Unadjusted Travel Estimates for the Valley Study Area ................................ | 37 |
| Table 22. | Recommended Person Trip Attraction Rates ......................................................... | 39 |
| Table 23. | Recommended Auto Driver Trip Attraction Rates .................................................. | 39 |
| Table 24. | Recommended Commercial Vehicle Trip Attraction Rates ..................................... | 40 |
INTRODUCTION
In 2004 - 2006, the Transportation Planning and Programming (TPP) Division of the Texas Department of Transportation (TxDOT) funded a comprehensive set of travel surveys in Hidalgo and Cameron counties, Texas (referred to as the Rio Grande Valley). These surveys measure and identify travel patterns within Hidalgo and Cameron counties. The data obtained will be used to develop and update the travel demand model for three Metropolitan Planning Organizations — Hidalgo County, Harlingen-San Benito, and Brownsville. The surveys conducted include a household travel/activity survey with a Global Positioning System component, a work place survey, an external station survey, a travel time and delay survey, and two special generator surveys conducted as part of the work place survey.

This report presents a Technical Summary of the 2005/06 Valley Work Place Survey. It documents the data that were collected and presents the results of the data analysis.

WORK PLACE SURVEY
A work place survey consists of several data collection efforts to obtain information on the number and types of trips attracted to work place establishments in the Hidalgo and Cameron county areas. While the household survey collects information on the travel characteristics of persons living in the area at the household level, the work place survey collects similar information at the destination end of travel. This information is used in developing trip attraction models for use in travel demand forecasting.

RIO GRANDE VALLEY STUDY AREA
The boundary established for the Valley work place survey included Hidalgo and Cameron counties. Figure 1 shows these counties relative to the state of Texas. The counties are located in the southern portion of Texas along the Texas-Mexico border. The population of Hidalgo and Cameron county based on the 2000 census was 904,690. The population during the time period of this survey in 2006 was estimated by the census to be 1,097,724. Data from the Texas Workforce Commission (TWC) indicated that nearly 16,000 work place establishments are located in the two counties with a total employment of just over 300,000 in 2004. The
population and work places in the two counties are concentrated in a number of cities including McAllen, Pharr, Harlingen, San Benito, Brownsville and others. This area is one of the primary gateways for the movement of people and freight between Mexico, Texas, and the U.S.

SURVEY METHODOLOGY

The work place survey was conducted in two phases. The first phase was a telephone survey of 5 percent of all establishments in the county. Establishments were grouped into three employment categories — basic, retail, and service. These groupings were based on the standard industrial classification (SIC) code for establishments shown in Table 1.
Table 1. Standard Industrial Classification Groupings by Employment Type.

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The purpose of Phase 1 was to collect information on the number of establishments in each employment type that were considered free and non-free standing within each area type being used in modeling travel. Free standing establishments are those which essentially stand alone with their own access points and parking facilities. Persons traveling to these establishments are attracted to just that establishment. Non-Free standing establishments are those that share access points and parking. These are usually located in multi-use developments and persons traveling to an establishment in these developments may or may not make several stops at different establishments within the development. Figures 2 and 3 show examples of these types of establishments.

For travel demand modeling purposes, the Rio Grande Valley study area is divided into distinct areas called traffic analysis zones (TAZ). These zones are grouped according to the level of activity within the zone as measured by the density of population and employment within the zone. There were five area types used in the valley. These were the central business district (CBD), the central business district fringe (CBD Fringe), urban, suburban, and rural.
The data from Phase 1 provided information that was used to develop the sampling plan for the second phase of data collection. The second phase of data collection consisted of two parts. The first was a full survey of randomly selected business establishments in the Valley and the second was a partial survey of randomly selected business establishments. A full survey consists of six data collection efforts. The first is a general survey of the establishment to determine its status as
free/non-free standing, the number of employees, amount of parking, number of daily deliveries, hours of operation, and other general information. The second is a survey of the employees at the establishment where each is asked to record their trips for a 24-hour period in a travel diary. The third is an intercept survey (during the same time period) of the visitors (i.e., non-employees) at the establishment. The fourth is a survey of the commercial vehicles that travel to the site on the same day as the employee and visitor surveys. The fifth data collection is a count of either persons or vehicles arriving and departing the establishment and a count of the commercial vehicles arriving and departing the establishment. The sixth, and last data collection effort, is a survey of the vehicles owned or leased by the establishment and used for business purposes. The Valley workplace survey is the first survey to include the survey of vehicles owned and leased by the establishment. It is also the first survey to collect data on the number and type of vehicles owned and leased by establishments for business purposes.

The second part of Phase 2 was to conduct partial surveys at randomly selected business establishments. A partial survey consists of performing a general survey of an establishment to include its type, location, total employment, and number of employees at work on a selected day. Either vehicle or person counts were made at the site with counts of commercial vehicles at the site. This data provides the total number of trip ends for non-commercial and commercial vehicles or persons. The estimates of travel by trip purpose, etc., are based on the results of the full surveys.

For a more detailed discussion and description of the survey methodology, see the reports, *Rio Grande Valley Work Place Travel Survey Recruitment-Phase I* and *Rio Grande Valley Work Place Travel Survey-Phase II* prepared by GRAM Traffic Counting Inc. The Appendix of this report contains survey instruments used in the survey and the format for the files used to store the data.

**PHASE 1 FINDINGS**

Based on data from the TWC, the number of establishments in Hidalgo and Cameron counties in 2004 was 4,265 Basic, 3,726 Retail, and 7,843 Service. A random sample of 5 percent of each category of establishments was conducted by phone to ascertain the location of the establishment
(i.e., to determine the zone and area type where it was located), whether the establishment was free or non-free standing, and to determine the number of employees at the establishment. Table 2 presents the results of this survey.

It should be noted that the sampling in Phase 1 was random and no effort was made to control size of the establishment or the area type where it was located. The only control was the number of establishments in each employment category to be surveyed.

Based on data from the TWC, the estimated number of basic employees in the Valley was 60,894, the number of retail employees was 67,156, and the number of service employees was 123,596. The employment at the sites that were surveyed in Phase 1 was 13,039 basic employees, 12,037 retail employees, and 12,431 service employees. This indicates the sites surveyed in Phase 1 represented approximately 21 percent of all basic employment, 18 percent of all retail employment, and 10 percent of all service employment.

**SAMPLING PLAN**

The number of establishments to be surveyed had been pre-determined as 100 full survey sites and 200 partial survey sites. This controls the cost involved in the survey, and the data obtained is still adequate for modeling purposes. Table 3 presents the results of the Phase 1 survey. Table 4 presents the estimated distribution of workplace establishments in the Valley area. The five area types have been collapsed into three sampling areas to reduce the potential of small sample bias.

Table 5 presents the final sampling plan for Phase 2 of the Rio Grande Valley workplace survey. The sampling is weighted to obtain more surveys of retail and service than basic establishments. This was intentional because previous workplace surveys have shown that retail and service establishments have much higher variations in rates than basic establishments. For that reason, it is believed that adequate results may be obtained with a smaller sample of basic establishments whereas larger samples are believed necessary for retail and service establishments. It should also be noted that two of the full survey service establishments to be surveyed were the
Brownsville/South Padre Island International Airport and the Valley International Airport. These were considered special generators and were analyzed and discussed separately.

Table 6 presents the distribution of sites surveyed. After the survey, a review of the data revealed a number of sites had been incorrectly designated by employment type. The actual data files contained a number of sites that had been classified as “Other” and when translated into the three types used for analysis purposes, had been incorrectly classified. It was also found in the processing of the data that several sites had employee surveys but no visitor surveys or visitor surveys and no employee surveys. A number of changes occurred between the time the surveys were conducted, data was compiled, received, and analyzed. The most notable changes were the revisions to the zone system and area type designations in the Valley study area. After the data were received, these modifications were incorporated into the data files and, where necessary, the data were geocoded to the new zones and area types.

Note in Table 6 that the employment type Education has been included and four area types are used. After the surveys were completed, the decision was made to develop trip production rates for education, pre-kindergarten through 12th grade. This created the necessity to develop corresponding attraction rates for education employment. Since this was not considered in the workplace survey design, the sampling plan did not specify the number of education establishments to be surveyed and as a result, only a limited number were surveyed. The area type designations changed with the new zone system and only four types were used. These are the reasons the final distribution of surveyed sites do not match the sampling plan.
Table 2. Results of 5 Percent Sample in Phase 1.

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<td>1</td>
<td>1</td>
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<td>2</td>
<td>9</td>
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<td></td>
</tr>
<tr>
<td>25-49</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>7</td>
<td>2</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-24</td>
<td>2</td>
<td>1</td>
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<td>7</td>
<td>2</td>
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</tr>
<tr>
<td>5-9</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>7</td>
<td>2</td>
<td>9</td>
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<td>1-4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>7</td>
<td>2</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>16</td>
<td>12</td>
<td>10</td>
<td>9</td>
<td>78</td>
<td>4</td>
<td>190</td>
<td>24</td>
<td>214</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 3. Phase 1 Surveyed Establishments.

<table>
<thead>
<tr>
<th>Sample Area</th>
<th>Basic</th>
<th>Retail</th>
<th>Service</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – CBD, CBD Fringe</td>
<td>9</td>
<td>27</td>
<td>47</td>
<td>83</td>
</tr>
<tr>
<td>2 – Urban, Suburban</td>
<td>124</td>
<td>121</td>
<td>264</td>
<td>509</td>
</tr>
<tr>
<td>3 – Rural</td>
<td>81</td>
<td>39</td>
<td>82</td>
<td>202</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>214</td>
<td>187</td>
<td>393</td>
<td>794</td>
</tr>
</tbody>
</table>

Table 4. Estimated Distribution of Establishments in Rio Grande Valley.

<table>
<thead>
<tr>
<th>Sample Area</th>
<th>Basic</th>
<th>Retail</th>
<th>Service</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – CBD, CBD Fringe</td>
<td>179</td>
<td>538</td>
<td>938</td>
<td>1,655</td>
</tr>
<tr>
<td>2 – Urban, Suburban</td>
<td>2,471</td>
<td>2,411</td>
<td>5,269</td>
<td>10,151</td>
</tr>
<tr>
<td>3 – Rural</td>
<td>1,615</td>
<td>777</td>
<td>1,636</td>
<td>4,028</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>4,265</td>
<td>3,726</td>
<td>7,843</td>
<td>15,834</td>
</tr>
</tbody>
</table>

Table 5. Rio Grande Valley Work Place Survey Phase 2 Sampling Plan.

<table>
<thead>
<tr>
<th>Sample Area</th>
<th>Basic</th>
<th>Retail</th>
<th>Service</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Full</td>
<td>Partial</td>
<td>Full</td>
<td>Partial</td>
</tr>
<tr>
<td>1 – CBD, CBD Fringe</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>2 – Urban, Suburban</td>
<td>5</td>
<td>8</td>
<td>19</td>
<td>57</td>
</tr>
<tr>
<td>3 – Rural</td>
<td>5</td>
<td>4</td>
<td>6</td>
<td>18</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>15</td>
<td>15</td>
<td>30</td>
<td>90</td>
</tr>
</tbody>
</table>

Table 6. Distribution of Sites Surveyed.

<table>
<thead>
<tr>
<th>Sample Area</th>
<th>Basic</th>
<th>Retail</th>
<th>Service</th>
<th>Education</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Full</td>
<td>Partial</td>
<td>Full</td>
<td>Partial</td>
<td>Full</td>
</tr>
<tr>
<td>1 – CBD</td>
<td>3</td>
<td>1</td>
<td>5</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>2 – Urban</td>
<td>3</td>
<td>5</td>
<td>20</td>
<td>50</td>
<td>23</td>
</tr>
<tr>
<td>3 – Suburban</td>
<td>2</td>
<td>7</td>
<td>10</td>
<td>29</td>
<td>16</td>
</tr>
<tr>
<td>4 - Rural</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>10</td>
<td>14</td>
<td>38</td>
<td>94</td>
<td>46</td>
</tr>
</tbody>
</table>
SAMPLING RESULTS

Figure 4 shows the locations of the establishments that participated in the work place survey. A total of 97 establishments had complete full surveys. The majority of these were retail establishments with the fewest being basic establishments. A total of 262 employees and 2,650 visitors (i.e., non-employees) were surveyed. The employment at the sites that were surveyed totaled 2,725. The sampling rate for the employees at the sites surveyed was about 9.6 percent. There were 205 sites where a partial survey was conducted. The employment at those sites totaled 6,319. Total employment represented in the work place survey was 9,044, about 3.6 percent of the total employment in the Valley. Tables 7 and 8 present the breakdown of sites, surveyed employees, surveyed visitors, total employment, and employees at work by area type and employment types for full and partial surveyed establishments.

Figure 4. Rio Grande Valley Work Place Survey Locations.
The work place survey included questions concerning the household size, income, and vehicles available. These data provide a profile of the persons that participated in the survey and how they relate to data from the 2000 census. Figure 5 presents the distribution of persons surveyed by their household size and that reported in the 2000 census for Hidalgo and Cameron counties.

Table 7. Full Survey Establishments.

<table>
<thead>
<tr>
<th>Area Type</th>
<th>Item</th>
<th>Employment Type</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Basic</td>
<td>Retail</td>
</tr>
<tr>
<td>CBD</td>
<td>Number of Sites</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>CBD</td>
<td>Surveyed Employees</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>CBD</td>
<td>Surveyed Visitors</td>
<td>66</td>
<td>184</td>
</tr>
<tr>
<td>CBD</td>
<td>Total Employment</td>
<td>265</td>
<td>128</td>
</tr>
<tr>
<td>CBD</td>
<td>Employees at Work</td>
<td>195</td>
<td>100</td>
</tr>
<tr>
<td>Urban</td>
<td>Number of Sites</td>
<td>3</td>
<td>20</td>
</tr>
<tr>
<td>Urban</td>
<td>Surveyed Employees</td>
<td>7</td>
<td>54</td>
</tr>
<tr>
<td>Urban</td>
<td>Surveyed Visitors</td>
<td>24</td>
<td>730</td>
</tr>
<tr>
<td>Urban</td>
<td>Total Employment</td>
<td>70</td>
<td>696</td>
</tr>
<tr>
<td>Urban</td>
<td>Employees at Work</td>
<td>61</td>
<td>553</td>
</tr>
<tr>
<td>Suburban</td>
<td>Number of Sites</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Suburban</td>
<td>Surveyed Employees</td>
<td>5</td>
<td>34</td>
</tr>
<tr>
<td>Suburban</td>
<td>Surveyed Visitors</td>
<td>25</td>
<td>744</td>
</tr>
<tr>
<td>Suburban</td>
<td>Total Employment</td>
<td>103</td>
<td>565</td>
</tr>
<tr>
<td>Suburban</td>
<td>Employees at Work</td>
<td>53</td>
<td>506</td>
</tr>
<tr>
<td>Rural</td>
<td>Number of Sites</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Rural</td>
<td>Surveyed Employees</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>Rural</td>
<td>Surveyed Visitors</td>
<td>30</td>
<td>259</td>
</tr>
<tr>
<td>Rural</td>
<td>Total Employment</td>
<td>14</td>
<td>51</td>
</tr>
<tr>
<td>Rural</td>
<td>Employees at Work</td>
<td>14</td>
<td>35</td>
</tr>
</tbody>
</table>

Table 8. Partial Survey Establishments.

<table>
<thead>
<tr>
<th>Area Type</th>
<th>Item</th>
<th>Employment Type</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Basic</td>
<td>Retail</td>
</tr>
<tr>
<td>CBD</td>
<td>Number of Sites</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>CBD</td>
<td>Total Employment</td>
<td>25</td>
<td>216</td>
</tr>
<tr>
<td>CBD</td>
<td>Employees at Work</td>
<td>20</td>
<td>167</td>
</tr>
<tr>
<td>Urban</td>
<td>Number of Sites</td>
<td>5</td>
<td>50</td>
</tr>
<tr>
<td>Urban</td>
<td>Total Employment</td>
<td>243</td>
<td>1785</td>
</tr>
<tr>
<td>Urban</td>
<td>Employees at Work</td>
<td>163</td>
<td>1347</td>
</tr>
<tr>
<td>Suburban</td>
<td>Number of Sites</td>
<td>7</td>
<td>29</td>
</tr>
<tr>
<td>Suburban</td>
<td>Total Employment</td>
<td>694</td>
<td>1365</td>
</tr>
<tr>
<td>Suburban</td>
<td>Employees at Work</td>
<td>633</td>
<td>997</td>
</tr>
<tr>
<td>Rural</td>
<td>Number of Sites</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Rural</td>
<td>Total Employment</td>
<td>5</td>
<td>242</td>
</tr>
<tr>
<td>Rural</td>
<td>Employees at Work</td>
<td>1</td>
<td>170</td>
</tr>
</tbody>
</table>
Figures 6 and 7, respectively, present the distributions of persons by vehicles available and by household income. The households represented by survey participants were larger in size than the population in the Valley. The participants in the survey typically came from households with more vehicles available than the population of the valley. The participants in the survey came from households with incomes that fell mostly in the range $20,000-to-$40,000. Households with lower incomes were generally under represented while households with higher incomes were represented in about the same proportion as they occur in the population. The distribution of households above $40,000 matched that reported in the census fairly well.

Figure 8 shows the distribution of the reported trips to and from the surveyed establishments by mode of travel. The majority of trips were by drivers and passengers of a vehicle with a few made by walking and transit. Note that these are just the observations in the data and do not represent expanded results.

The data were also summarized by the reported trip purpose. Figure 9 presents the breakdown of percentage of observed trips by home-based work (HBW), home based non-work (HBNW), non-home based destinations (NHB-D), non-home based origins (NHB-O), external destinations, external origins, and non-resident trips. HBW attractions are those trips with one end at the home and the other at the work (as indicated by the reported trip purpose).
Figure 5. Distribution of Households by Household Size.

Figure 6. Distribution of Households by Vehicles Available.
Figure 7. Distributions of Households by Household Income Range.

Figure 8. Distribution of Surveyed Trips by Mode of Travel.
HBNW trips are those trips with one end at home and the reported trip purpose was not work or work related. NHB-D trips are those trips whose destination was the establishment being surveyed and whose origin was not home. NHB-O trips were those trips that were leaving the establishment being surveyed and the reported destination was not home. External destinations are those trips that originated outside the study area and external origins are those trips whose destination is outside the study area when they leave the establishment. Non-resident trips are those internal trips to the establishment by persons that reported they live outside the study area.

Since the data were geocoded to the TAZs, the transportation network was used to add the travel distance to the surveyed trip records. These data were then processed to compute the average trip length in travel distance as well as the trip length frequency distributions for person and vehicle trips by trip purpose. Table 9 presents the average travel distances per trip for the surveyed trips and the number of observations for each average. Figures 10 and 11 present the trip length frequency distributions for person and vehicle trips in travel distance. The average trip lengths and trip length frequency distributions are shown only for HBW, HBNW, NHB destinations, and non-resident travel.
The survey data are primarily used to develop attraction rates (i.e., trips per employee) for modeling these trip purposes. The average trip lengths are not consistent with observed characteristics in other urban areas. Generally, the average trip length for HBW trips is higher than those for HBNW and NHB. The trip length for HBNW and NHB are typically about the same value. The urban form of the valley consists of three major areas, each represented by a Metropolitan Planning Organization. This may explain the non-typical relationships in average trip length.

The trip length frequency distributions are also consistent with other urban areas in that the majority of HBNW and NHB trips occur at shorter distances and travel times while HBW trips have longer trips. For informational purposes, the average trip lengths were also computed for non-resident internal trips. Table 9 also shows these values. These trips generally have about the same average trip lengths as NHB trips. As can be seen, this is not the case for the Valley. The trip length frequency distribution for these trips indicates a number of non-resident trips were observed in the data with very long trip lengths. These observations have skewed the averages and due to the small number of observations, it is not recommended these average trip lengths be used for non-resident trips in the models.

<table>
<thead>
<tr>
<th>Trip Purpose/Type</th>
<th>Person Trips</th>
<th>Vehicle Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Observations</td>
<td>Miles</td>
</tr>
<tr>
<td>HBW</td>
<td>540</td>
<td>5.9</td>
</tr>
<tr>
<td>HBNW</td>
<td>3,397</td>
<td>6.3</td>
</tr>
<tr>
<td>NHB Destinations</td>
<td>572</td>
<td>5.2</td>
</tr>
<tr>
<td>Non-Resident</td>
<td>283</td>
<td>11.7</td>
</tr>
</tbody>
</table>
Figure 10. Survey Person Trip Length Frequency Distributions.

Figure 11. Survey Vehicle Trip Length Frequency Distributions.
Trips by trip purpose typically have distinct characteristics by time-of-day that is consistent for nearly all urban areas. Figure 12 presents the distribution of trips by purpose by their time of arrival at the establishments surveyed. The characteristics for travel in the Valley area are similar to those for other urban areas. HBW trips exhibit two time periods when those types of trips are most likely to occur, in the morning and afternoon. The afternoon peak is at 5 p.m. and 6 p.m. HBNW and NHB trips typically peak during the middle of the day and are spread throughout the day. Figure 12 also shows the distribution of non-resident trips by their time of arrival. Their pattern is similar to that of HBNW and NHB. Time is shown in military terms.

Figure 12. Distribution of Person Trips by Time of Arrival at Establishments.

COMMERCIAL VEHICLE SURVEY

In addition to the employee and visitor surveys, a count and survey of commercial vehicles at the work places was also conducted. This data provides information on the commercial vehicles attracted to the establishments, their travel patterns, type of cargo, etc. The commercial vehicle count at all of the work places was 1,652; 1,064 cargo vehicles and 588 service vehicles. Commercial vehicles were surveyed at 23 work places. The number of vehicles surveyed was 67 and data were collected on each vehicle trip to the site and where the vehicle was going after it
left the site. Of the 67 trips to the sites, 2 (3 percent) began at a location outside the study area and were classified as external destinations. None of the external destinations came from Mexico. Of the 67 trips from the surveyed sites, 3 (4 percent) were destined for a location out of the study area and classified as external origins. None were destined for Mexico.

Commercial vehicle drivers were also asked where their travel originated and ultimately destined. The majority of vehicles (i.e., 65) originated in the study area and 64 were destined for locations in the study area. There were 2 vehicles that originated outside the study area (not Mexico) and 3 vehicles that were destined for locations outside the study area (not Mexico).

Figure 13 shows the distribution of all vehicles surveyed by their trip purpose at the site. The majority of vehicles, 44 (66 percent), traveled to a site to make a delivery while 15 (22 percent) were picking up cargo. Four vehicles were making both deliveries and pickups.

Figure 14 shows the distribution of surveyed vehicles by vehicle classification. Four categories of vehicle class were provided on the survey instrument with an additional category of “Other” for vehicles that did not fall in the four categories provided. The majority of vehicles surveyed were either a single unit two-axle vehicle or a tractor-trailer combination.

Table 10 shows the distribution of surveyed vehicles by vehicle class and type of cargo being transported. Two of every three vehicles reported carrying food, health, or beauty products. The second highest reported cargo was wood products. Cargos of textiles, rubber, plastic, styrofoam products, and miscellaneous shipments were the next most frequently reported.
Figure 13. Distribution of All Commercial Vehicles by Purpose at Establishments.

Figure 14. Distribution of Commercial Vehicles by Type of Vehicle.
### Table 10. Distribution of Commercial Vehicles by Type of Cargo.

<table>
<thead>
<tr>
<th>Cargo</th>
<th>Other</th>
<th>Single Unit 2-Axle</th>
<th>Single Unit 3-Axle</th>
<th>Single Unit 4-Axle</th>
<th>Tractor Trailer</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farm Products</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forest Products</td>
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<td></td>
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<td>Marine Products</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metals and Minerals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food, Health, and Beauty Products</td>
<td>8</td>
<td>24</td>
<td>1</td>
<td>2</td>
<td>7</td>
<td>42</td>
</tr>
<tr>
<td>Tobacco Products</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Textiles</td>
<td></td>
<td></td>
<td></td>
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<td>Wood Products</td>
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<tr>
<td>Chemical Products</td>
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<td></td>
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<td>Refined Petroleum or Coal Products</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rubber, Plastic, and Styrofoam Products</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Clay, Concrete, Glass, or Stone</td>
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<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Manufactured Goods/Equipment</td>
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<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Wastes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miscellaneous Shipments</td>
<td>1</td>
<td>2</td>
<td></td>
<td>1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Hazardous Materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transportation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unclassified Cargo</td>
<td></td>
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<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Driver Refused to Answer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unknown to Driver</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Empty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The surveyed commercial vehicle trips that originated and were destined for locations in the study area were geocoded to the TAZs. The average trip length for these internal commercial vehicle trips was 12.4 miles. Figure 15 presents the trip length frequency distributions for commercial vehicles in travel distance. Figure 16 presents the distribution of commercial vehicles by the time they arrived at the work place. This distribution exhibits two peak periods that occur during the morning peak and mid-afternoon.

![Figure 15. Commercial Vehicle Trip Length Frequency Distribution for Distance.](image-url)
SPECIAL GENERATORS

Two of the work places surveyed were treated as special generators. These were the Brownsville – South Padre Island International Airport and the Valley International Airport. Special generators are those types of development that are considered unique and subject to modeling outside the typical modeling framework. The survey data for these two sites are summarized in the following sections.

Brownsville-South Padre Island International Airport

The Brownsville-South Padre Island International Airport was surveyed as a special generator due to its uniqueness as a transportation generator and the impact it has on the community in terms of transportation. Total employment reported at the site (this includes all businesses located on the airport property) was 24, and 19 employees were reported to be at work on the day of the survey. The number of employees that participated in the survey was 6. The number of visitors surveyed at the airport was 121 and the number of commercial vehicles counted was 10. The surveyed employees reported 18 trip ends at the airport and the visitors reported 242.
Figure 17 presents the distribution of surveyed trips by trip purpose. The majority of the surveyed trips (67 percent) at the airport were either external or made by non-residents. Of the 121 visitors surveyed, 8 percent were arriving by plane and 33 percent were departing by plane. This indicates that most of the trips that were external or non-resident were not by plane. The reported mode of travel for all of the surveyed airport employees was as a driver of a vehicle. Table 11 presents the reported modes of travel for the surveyed visitors by arrival and departure.

Visitors that reported their mode of departure as a plane were also asked where their destination was. The responses were varied with the most frequent destinations being in Texas. However, the reported destinations included cities in 30 different states and two foreign countries.

Figure 17. Distribution of Surveyed Trips at the Brownsville-South Padre Island International Airport.
### Table 11. Arrival and Departure Modes of Travel for Visitors at the Brownsville-South Padre Island International Airport.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Arrivals</th>
<th></th>
<th>Departures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
<td>Number</td>
<td>Percent</td>
</tr>
<tr>
<td>Driver</td>
<td>37</td>
<td>30.6</td>
<td>27</td>
<td>22.3</td>
</tr>
<tr>
<td>Passenger</td>
<td>40</td>
<td>33.0</td>
<td>10</td>
<td>8.3</td>
</tr>
<tr>
<td>Walk</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bicycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School Bus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taxi/Limo</td>
<td>3</td>
<td>2.5</td>
<td>2</td>
<td>1.7</td>
</tr>
<tr>
<td>Commercial Vehicle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motorcycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airplane</td>
<td>19</td>
<td>15.7</td>
<td>81</td>
<td>66.9</td>
</tr>
<tr>
<td>Parking Shuttle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hotel/Motel Shuttle</td>
<td>3</td>
<td>2.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rental Car</td>
<td>19</td>
<td>15.7</td>
<td>1</td>
<td>0.8</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>121</td>
<td>100.0</td>
<td>121</td>
<td>100.0</td>
</tr>
</tbody>
</table>
The internal survey trips were geocoded for both employees and visitors to the TAZs in the Valley study area. The data were processed and average trip length computed for travel distance by trip purpose. It is recognized these data are based on a small number of observations, but they do provide a reference of comparison with the average trip lengths found for the full workplace survey shown in Table 9. Table 12 shows the average trip lengths found for the airport trips.

**Table 12. Average Trip Lengths for Surveyed Trips to the Brownsville-South Padre Island International Airport.**

<table>
<thead>
<tr>
<th>Trip Purpose/Type</th>
<th>Person Trips</th>
<th>Vehicle Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Miles</td>
<td>Miles</td>
</tr>
<tr>
<td>HBW</td>
<td>9.2</td>
<td>10.4</td>
</tr>
<tr>
<td>HBNW</td>
<td>13.8</td>
<td>13.3</td>
</tr>
<tr>
<td>NHB-Destinations</td>
<td>15.9</td>
<td>15.9</td>
</tr>
<tr>
<td>Non-Residents</td>
<td>12.4</td>
<td>10.5</td>
</tr>
</tbody>
</table>

Person counts were made at the Brownsville-South Padre Island International Airport the day the surveys were conducted. These data were used to expand the survey data for employees and visitors. In addition, counts were made of commercial vehicles to and from the airport. These data were used to develop attraction rates (i.e., attractions per employee) for the airport. Table 13 shows the expanded trips and resulting attraction rates.

**Table 13. Travel Estimates for the Brownsville-South Padre Island International Airport.**

<table>
<thead>
<tr>
<th>Type of Trip</th>
<th>Vehicle Trips</th>
<th>Vehicle Trip Rate</th>
<th>Person Trips</th>
<th>Person Trip Rate*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Based Work Attractions</td>
<td>155.33</td>
<td>6.47</td>
<td>155.33</td>
<td>6.47</td>
</tr>
<tr>
<td>Home Based Non-Work Attractions</td>
<td>629.59</td>
<td>26.23</td>
<td>1035.67</td>
<td>43.15</td>
</tr>
<tr>
<td>Non-Home Based Origins</td>
<td>35.85</td>
<td>1.49</td>
<td>35.85</td>
<td>1.49</td>
</tr>
<tr>
<td>Non-Home Based Destinations</td>
<td>35.85</td>
<td>1.49</td>
<td>35.85</td>
<td>1.49</td>
</tr>
<tr>
<td>External Origins</td>
<td>135.26</td>
<td>5.64</td>
<td>270.51</td>
<td>11.27</td>
</tr>
<tr>
<td>External Destinations</td>
<td>135.26</td>
<td>5.64</td>
<td>270.51</td>
<td>11.27</td>
</tr>
<tr>
<td>Internal Non-Resident Trips</td>
<td>179.31</td>
<td>7.47</td>
<td>448.27</td>
<td>18.68</td>
</tr>
<tr>
<td>Commercial Vehicle Trips</td>
<td>10.00</td>
<td>0.42</td>
<td>10.00</td>
<td>0.42</td>
</tr>
<tr>
<td>Totals</td>
<td>1316.45</td>
<td>54.85</td>
<td>2261.99</td>
<td>94.25</td>
</tr>
</tbody>
</table>

* Per employee.
Valley International Airport

The Valley International Airport is another establishment that is unique and impacts the Valley area in terms of trip generation. Total employment reported at the Valley International Airport was 40, and 36 employees were reported to be at work on the day of the survey. Thirteen employees participated in the survey and 200 visitors were surveyed. The number of commercial vehicles counted at the airport was 12. The surveyed employees reported 22 trips and 400 trips were recorded for the visitors at the site.

Figure 18 presents the distribution of surveyed trips by trip purpose. As observed at the Brownsville-South Padre International Airport, the majority of trips are external and non-resident trips. Unlike the airport, the majority of arrivals and departures (55 percent) were reported as being made by bus. The reported mode of travel for the surveyed employees was driver of a vehicle. Table 14 presents the reported arrival and departure modes of travel for the visitors surveyed.

![Figure 18. Distribution of Surveyed Trips at the Valley International Airport.](image-url)
Visitors were also asked their destinations for departing trips and their origination points for arriving trips. The responses indicated that more than half were coming or going to locations in Texas. Areas outside Texas included cities in 13 different states and two locations in Mexico.

Table 14. Arrival and Departure Modes of Travel for Visitors at the Valley International Airport.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Arrivals</th>
<th></th>
<th>Departures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
<td>Number</td>
<td>Percent</td>
</tr>
<tr>
<td>Driver</td>
<td>92</td>
<td>46.0</td>
<td>85</td>
<td>42.5</td>
</tr>
<tr>
<td>Passenger</td>
<td>25</td>
<td>12.5</td>
<td>34</td>
<td>17.0</td>
</tr>
<tr>
<td>Walk</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bicycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transit</td>
<td></td>
<td></td>
<td>1</td>
<td>0.5</td>
</tr>
<tr>
<td>School Bus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taxi/Limo</td>
<td>1</td>
<td>0.5</td>
<td>3</td>
<td>1.5</td>
</tr>
<tr>
<td>Commercial Vehicle</td>
<td>1</td>
<td>0.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motorcycle</td>
<td>2</td>
<td>1.0</td>
<td>2</td>
<td>1.0</td>
</tr>
<tr>
<td>Airplane</td>
<td>57</td>
<td>28.5</td>
<td>51</td>
<td>25.5</td>
</tr>
<tr>
<td>Parking Shuttle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hotel/Motel Shuttle</td>
<td>7</td>
<td>3.5</td>
<td>4</td>
<td>2.0</td>
</tr>
<tr>
<td>Rental Car</td>
<td>15</td>
<td>7.5</td>
<td>20</td>
<td>10.0</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>200</td>
<td>100.0</td>
<td>200</td>
<td>100.0</td>
</tr>
</tbody>
</table>
The internal survey trips were geocoded for both employees and visitors to the regional zones in the Valley study area. The data were processed and average trip length computed for travel distance by trip purpose. These data are based on a small number of observations and are presented only as a reference to the average trip lengths computed for the full workplace surveys as shown in Table 7. Table 15 shows the average trip lengths found for the Valley International Airport trips.

### Table 15. Average Trip Lengths for Surveyed Trips to the Valley International Airport.

<table>
<thead>
<tr>
<th>Trip Purpose/Type</th>
<th>Person Trips</th>
<th>Vehicle Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Miles</td>
<td>Miles</td>
</tr>
<tr>
<td>HBW</td>
<td>10.2</td>
<td>7.6</td>
</tr>
<tr>
<td>HBNW</td>
<td>19.6</td>
<td>20.4</td>
</tr>
<tr>
<td>NHB-Destinations</td>
<td>14.3</td>
<td>14.3</td>
</tr>
<tr>
<td>Non-Residents</td>
<td>25.8</td>
<td>24.8</td>
</tr>
</tbody>
</table>
Person counts were made at the Valley International Airport the day the surveys were conducted. These data were used to expand the survey data for employees and visitors. Additionally, counts were made of commercial vehicles to and from the airport. These data were used to develop attraction rates (i.e., attractions per employee) for the airport. Table 16 shows the expanded trips and resulting attraction rates.

### Table 16. Travel Estimates for the Valley International Airport.

<table>
<thead>
<tr>
<th>Type of Trip</th>
<th>Vehicle Trips</th>
<th>Vehicle Trip Rate</th>
<th>Person Trips</th>
<th>Person Trip Rate*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Based Work Attractions</td>
<td>119.41</td>
<td>2.99</td>
<td>319.78</td>
<td>7.99</td>
</tr>
<tr>
<td>Home Based Non-Work Attractions</td>
<td>1746.62</td>
<td>43.67</td>
<td>3861.78</td>
<td>96.54</td>
</tr>
<tr>
<td>Non-Home Based Origins</td>
<td>106.16</td>
<td>2.65</td>
<td>222.75</td>
<td>5.57</td>
</tr>
<tr>
<td>Non-Home Based Destinations</td>
<td>106.16</td>
<td>2.65</td>
<td>222.75</td>
<td>5.57</td>
</tr>
<tr>
<td>External Origins</td>
<td>178.11</td>
<td>4.45</td>
<td>400.75</td>
<td>10.02</td>
</tr>
<tr>
<td>External Destinations</td>
<td>178.11</td>
<td>4.45</td>
<td>400.75</td>
<td>10.02</td>
</tr>
<tr>
<td>Internal Non-Resident Trips</td>
<td>646.59</td>
<td>16.16</td>
<td>1724.44</td>
<td>43.11</td>
</tr>
<tr>
<td>Commercial Vehicle Trips</td>
<td>12.00</td>
<td>0.30</td>
<td>12.00</td>
<td>0.30</td>
</tr>
<tr>
<td>Totals</td>
<td>3093.16</td>
<td>77.33</td>
<td>7165.00</td>
<td>179.13</td>
</tr>
</tbody>
</table>

* Per employee.

### SURVEY DATA EXPANSION

Expansion of the work place and special generator survey data involved several techniques depending on the type of work place and survey conducted. In most work place surveys, the survey data are expanded for each surveyed site. These expanded data are then summed by area type and employment type to develop estimates of the trip rates by purpose for each category of area type and employment type. This procedure was modified in the Valley work place survey and the data were expanded using the following steps.

1. The employee surveys were processed for each surveyed site to calculate the number of person and vehicle trips by trip purpose and mode of travel. The average vehicle occupancy for each category of vehicle trips was also calculated by trip purpose. The trip purpose categories used were HBW, HBNW, NHB-D, NHB-O, external
destinations, external origins, and trips made by persons living outside the study area, i.e., non-residents.

2. The non-employee (visitor) surveys were processed for each surveyed site to sum the number of person and vehicle trips by trip purpose and mode of travel. The average vehicle occupancy was also calculated for the vehicle trips by trip purpose. In addition to the trips by trip purpose, the number of trips reported for persons that said they did not live in the study area were summed and recorded separately. These trips were not included in the totals of visitor trips by purpose and mode. For non-free standing sites, those persons that reported their stop at the establishment was not their first stop were summed separately and not included with the other totals. These “non-counted” trips represented trips that were not attributable to the attractiveness of the establishment that was surveyed. The result of this step was total non-employee (visitor) trips to the site for HBW, HBNW, NHB-D, NHB-O, external destinations, external origins, non-residents, and not counted trips.

3. The employee and visitor survey results by trip purpose and mode of travel, including vehicle occupancy, were summed by area type and employment type.

4. The employee and visitor survey results by trip purpose and mode of travel, including vehicle occupancy were also summed over area types by employment type.

5. Since some sites had vehicle counts and some had person counts, the summations in steps 3 and 4 were performed by two sub-groups based on whether vehicle or person counts would be used to expand the survey data.

6. For each category of area type and employment type, the number of employees at work, total employment, number of vehicle counts, and number of person counts were summed for all establishments.

7. The number of surveyed employee person and vehicle trips by trip purpose and mode of travel were divided by the number of surveyed employees to produce person and vehicle trip rates by purpose and mode.

8. The trip rates calculated in Step 7 were multiplied by the number of employees at work. Note that this calculation was applied to the aggregate number of employees at work for all sites within each category of area type and employment type. The result of this calculation was an estimate of the total person and vehicle trips by trip purpose and
mode of travel for all sites within each category of area type and employment type. The estimated employee person and vehicle trips by purpose and mode were then summed to produce total employee person and vehicle trips within each category of area type and employment type.

9. The number of visitor trips within each area type and employment type were calculated. For sites with vehicle counts, the number of visitor vehicle trips was calculated by subtracting the employee vehicle trips from the total vehicle counts. For sites with person counts, the number of visitor person trips was calculated by subtracting the employee person trips from the total person counts.

10. For situations where no survey data had been collected and data from partial surveyed sites existed, the data from the surveys summed by employment type were used.

11. The completion of Steps 8 and 9 resulted in the following estimates within each category of area type and employment type:
   - employee vehicle trips by trip purpose and mode of travel;
   - employee person trips by trip purpose and mode of travel;
   - visitor vehicle trips for those sites with vehicle counts; and
   - visitor person trips for those sites with person counts.

12. The number of visitor person trips for those sites with vehicle counts was estimated by multiplying the visitor vehicle trips by the average vehicle occupancy from the surveyed visitors. In a similar manner, the number of visitor vehicle trips for those sites with person counts was estimated by dividing the visitor person trips by the average vehicle occupancy from the surveyed visitors. The total visitor person and vehicle trips were calculated by summing the estimates for sites with vehicle counts and for sites with person counts.

13. The visitor person and vehicle trips by purpose and mode were estimated by distributing the totals in proportion to the observed trips from the visitor surveys. For example, if 10 percent of the surveyed visitor vehicle trips in area type 1 and employment type 1 were HBNW auto driver, then 10 percent of the total estimated visitor vehicle trips in area type 1 and employment type 1 were estimated to be HBNW auto driver.
14. The employee and visitor vehicle and person trips were summed by trip purpose and mode for each category of area type and employment type.

15. The trip rates were calculated by dividing the person and vehicle trips by purpose and mode by the total employment for all sites in each category of area type and employment type. Rates for commercial vehicles were calculated by dividing the commercial vehicle counts by the total employment.

16. Rates for residential land uses were estimated using total attractions computed from the household survey to residential land uses by trip purpose divided by the total number of households in the study area. These rates are assumed to be the same for each area type.

17. Commercial vehicle rates for residential land uses were estimated using the total number of commercial vehicle trips destined for residential land uses from the commercial vehicle survey. These were divided by the total number of households and assumed to be the same for each area type.

Tables 17 and 18 present the results of the data expansion and rate estimates for HBW, HBNW, NHB destinations, NHB origins, external destinations, external origins, and non-resident trips for person and auto driver trips by area type. Table 19 presents the estimated rates for commercial vehicles. Expanded survey results including rates for the two special generators were presented in the previous section in Tables 13 and 16, Brownsville-South Padre Island International Airport and the Valley International Airport. These expanded data are only for the special generator sites surveyed.
<table>
<thead>
<tr>
<th>Trip Purpose</th>
<th>Area Type</th>
<th>Per Basic Employee</th>
<th>Per Retail Employee</th>
<th>Per Service Employee</th>
<th>Per Education Employee</th>
<th>Per Household</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBW(^1)</td>
<td>CBD</td>
<td>2.072</td>
<td>1.310</td>
<td>1.841</td>
<td>0</td>
<td>0.122</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>3.218</td>
<td>1.702</td>
<td>1.245</td>
<td>2.381</td>
<td>0.122</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>1.623</td>
<td>1.481</td>
<td>1.728</td>
<td>2.459</td>
<td>0.122</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>2.104</td>
<td>1.566</td>
<td>1.417</td>
<td>0</td>
<td>0.122</td>
</tr>
<tr>
<td>HBNW(^2) Retail</td>
<td>CBD</td>
<td>30.935</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attractions</td>
<td>Urban</td>
<td>31.272</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>30.954</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>61.585</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HBNW(^2)</td>
<td>CBD</td>
<td>3.201</td>
<td>3.657</td>
<td></td>
<td>0.722</td>
<td></td>
</tr>
<tr>
<td>Other Attractions</td>
<td>Urban</td>
<td>3.770</td>
<td>5.726</td>
<td></td>
<td>0.722</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.769</td>
<td>8.616</td>
<td></td>
<td>0.722</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>27.765</td>
<td>52.167</td>
<td></td>
<td>0.722</td>
<td></td>
</tr>
<tr>
<td>HBNW(^3) School</td>
<td>CBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Attractions</td>
<td>Urban</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>23.485</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>21.793</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>NHB(^3) Destination</td>
<td>CBD</td>
<td>0.479</td>
<td>3.107</td>
<td>0.683</td>
<td>0</td>
<td>0.480</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0.932</td>
<td>6.813</td>
<td>0.898</td>
<td>1.687</td>
<td>0.480</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.231</td>
<td>4.267</td>
<td>0.962</td>
<td>1.568</td>
<td>0.480</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>2.184</td>
<td>7.543</td>
<td>0</td>
<td>0</td>
<td>0.480</td>
</tr>
<tr>
<td>NHB(^3) Origin</td>
<td>CBD</td>
<td>0.901</td>
<td>3.974</td>
<td>1.075</td>
<td>0</td>
<td>0.480</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0.781</td>
<td>6.971</td>
<td>1.295</td>
<td>4.098</td>
<td>0.480</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.015</td>
<td>6.086</td>
<td>1.846</td>
<td>3.803</td>
<td>0.480</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>1.897</td>
<td>12.911</td>
<td>17.389</td>
<td>0</td>
<td>0.480</td>
</tr>
<tr>
<td>External Destination</td>
<td>CBD</td>
<td>0.067</td>
<td>2.646</td>
<td>0.983</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
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</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0</td>
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<td>NA</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0</td>
<td>0.097</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td>External Origin</td>
<td>CBD</td>
<td>0.044</td>
<td>1.071</td>
<td>0.799</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
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<td>0.319</td>
<td>0.009</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0</td>
<td>0.262</td>
<td>0.042</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0</td>
<td>0.583</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td>Non Resident</td>
<td>CBD</td>
<td>0.067</td>
<td>4.570</td>
<td>1.844</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
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<td>3.331</td>
<td>0.182</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
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<td>2.111</td>
<td>0.375</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0</td>
<td>6.366</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
</tbody>
</table>

\(^1\) HBW – Home Based Work; \(^2\) HBNW – Home Based Non-Work; \(^3\) NHB – Non-Home Based.
Table 18. Raw Auto Driver Trip Rates.

<table>
<thead>
<tr>
<th>Trip Purpose</th>
<th>Area Type</th>
<th>Person Trips</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Per Basic Employee</td>
<td>Per Retail Employee</td>
<td>Per Service Employee</td>
<td>Per Education Employee</td>
<td>Per Household</td>
</tr>
<tr>
<td>HBW(^1) Attractions</td>
<td>CBD</td>
<td>1.895</td>
<td>1.310</td>
<td>1.432</td>
<td>0</td>
<td>0.102</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>1.916</td>
<td>1.347</td>
<td>1.148</td>
<td>1.825</td>
<td>0.102</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>1.594</td>
<td>1.348</td>
<td>1.591</td>
<td>1.933</td>
<td>0.102</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>2.827</td>
<td>0.777</td>
<td>1.778</td>
<td>0</td>
<td>0.102</td>
</tr>
<tr>
<td>HBNW(^2) Retail Attractions</td>
<td>CBD</td>
<td>14.995</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>14.423</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>15.300</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>33.935</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HBNW Other Attractions</td>
<td>CBD</td>
<td>1.778</td>
<td>2.520</td>
<td></td>
<td>0.372</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>2.563</td>
<td>3.565</td>
<td></td>
<td>0.372</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.666</td>
<td>4.828</td>
<td></td>
<td>0.372</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>15.286</td>
<td>52.167</td>
<td></td>
<td>0.372</td>
<td></td>
</tr>
<tr>
<td>HBNW School Attractions</td>
<td>CBD</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td></td>
<td></td>
<td></td>
<td>11.191</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td></td>
<td></td>
<td></td>
<td>10.384</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>NHB(^3) Destination</td>
<td>CBD</td>
<td>0.412</td>
<td>1.357</td>
<td>0.406</td>
<td>0</td>
<td>0.286</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0.630</td>
<td>3.562</td>
<td>0.606</td>
<td>0.742</td>
<td>0.286</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.187</td>
<td>2.393</td>
<td>0.690</td>
<td>0.690</td>
<td>0.286</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0.936</td>
<td>4.449</td>
<td>0</td>
<td>0</td>
<td>0.286</td>
</tr>
<tr>
<td>NHB(^3) Origin</td>
<td>CBD</td>
<td>0.701</td>
<td>1.910</td>
<td>0.584</td>
<td>0</td>
<td>0.286</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0.555</td>
<td>3.595</td>
<td>0.850</td>
<td>2.207</td>
<td>0.286</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.015</td>
<td>3.451</td>
<td>1.096</td>
<td>2.048</td>
<td>0.286</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>1.284</td>
<td>7.735</td>
<td>17.389</td>
<td>0</td>
<td>0.286</td>
</tr>
<tr>
<td>External Destination</td>
<td>CBD</td>
<td>0.067</td>
<td>1.197</td>
<td>0.369</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0</td>
<td>0.160</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0</td>
<td>0.077</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0</td>
<td>0.097</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td>External Origin</td>
<td>CBD</td>
<td>0.044</td>
<td>0.567</td>
<td>0.307</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0</td>
<td>0.144</td>
<td>0.009</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0</td>
<td>0.123</td>
<td>0.021</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0</td>
<td>0.292</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td>Non Resident</td>
<td>CBD</td>
<td>0.067</td>
<td>1.735</td>
<td>0.860</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0</td>
<td>1.464</td>
<td>0.109</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0</td>
<td>1.217</td>
<td>0.250</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0</td>
<td>3.839</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
</tbody>
</table>

\(^1\) HBW – Home Based Work; \(^2\) HBNW – Home Based Non-Work; \(^3\) NHB – Non-Home Based.

Table 19. Raw Commercial Vehicle Attraction Rates.

<table>
<thead>
<tr>
<th>Area Type</th>
<th>Commercial Vehicle Trips</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Per Basic Employee</td>
<td>Per Retail Employee</td>
<td>Per Service Employee</td>
<td>Per Education Employee</td>
<td>Per Household</td>
</tr>
<tr>
<td>CBD</td>
<td>0.138</td>
<td>0.198</td>
<td>0.641</td>
<td>0</td>
<td>0.030</td>
</tr>
<tr>
<td>Urban</td>
<td>0.096</td>
<td>0.170</td>
<td>0.103</td>
<td>0</td>
<td>0.030</td>
</tr>
<tr>
<td>Suburban</td>
<td>0.044</td>
<td>0.283</td>
<td>0.249</td>
<td>0</td>
<td>0.030</td>
</tr>
<tr>
<td>Rural</td>
<td>0.316</td>
<td>0.276</td>
<td>0.556</td>
<td>0</td>
<td>0.030</td>
</tr>
</tbody>
</table>
MODEL RATE DEVELOPMENT

The workplace survey data must be converted into recommended attraction rates for use in travel demand models. Attraction rates are estimates of the number of trips per employee that will be attracted to a site and/or zone. These are developed for each trip purpose, area type, and employment type. The rates shown in Tables 17 through 19 may be used in the travel demand model directly, but these rates typically estimate more trips than those estimated from the household and other surveys. Note that data were not available in some area types, particularly for the Education employment category. Rates must be developed for these missing data. To develop rates that produce estimates more in line with those developed from the household, external station, and commercial vehicle surveys, the rates shown in Tables 17 through 19 were applied to estimates of employment and households for the Valley study area.

Table 20 shows the employment estimates for the Valley study area. At the time of this analysis, estimates of education employment were not available by area type. Total education employment was estimated to be 49,126 based on data from the TWC. Since limited survey data had been collected for education workplaces, the decision was made to use average rates by trip purpose and assume these rates would be constant for all four area types.

Table 20. Employment Estimates for the Valley Study Area.

<table>
<thead>
<tr>
<th>Area Type</th>
<th>Employment Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Basic</td>
</tr>
<tr>
<td>CBD</td>
<td>2,703</td>
</tr>
<tr>
<td>Urban</td>
<td>23,108</td>
</tr>
<tr>
<td>Suburban</td>
<td>26,405</td>
</tr>
<tr>
<td>Rural</td>
<td>11,165</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>63,381</td>
</tr>
</tbody>
</table>

Estimates of trips by trip purpose were developed by multiplying the trip rates shown in Tables 17 through 19 by the employment estimates shown in Table 20 and by the number of households by area type. Table 21 shows these estimates with the estimates from the Valley
household survey, external station survey, and commercial vehicle survey. Note that these are raw unadjusted estimates for the work place survey.

### Table 21. Raw Unadjusted Travel Estimates for the Valley Study Area.

<table>
<thead>
<tr>
<th>Trip Purpose/Type</th>
<th>Work Place Survey</th>
<th>Household Survey&lt;sup&gt;1&lt;/sup&gt;</th>
<th>External Station Survey</th>
<th>Commercial Vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Person</td>
<td>Vehicle</td>
<td>Person</td>
<td>Vehicle</td>
</tr>
<tr>
<td>Home Based Work</td>
<td>573,117</td>
<td>490,421</td>
<td>593,945</td>
<td>528,731</td>
</tr>
<tr>
<td>Home Based Non-Work Retail</td>
<td>2,201,303</td>
<td>1,081,028</td>
<td>575,926</td>
<td>331,674</td>
</tr>
<tr>
<td>Home Based Non-Work Other</td>
<td>2,166,876</td>
<td>1,618,226</td>
<td>685,412</td>
<td>374,439</td>
</tr>
<tr>
<td>Home Based Non-Work Edu. (K-12)</td>
<td>1,112,164</td>
<td>529,947</td>
<td>816,091</td>
<td>233,990</td>
</tr>
<tr>
<td>NHB – Destinations</td>
<td>735,330</td>
<td>411,779</td>
<td>912,139</td>
<td>556,269</td>
</tr>
<tr>
<td>NHB - Origins</td>
<td>1,266,144</td>
<td>844,062</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>External Destinations</td>
<td>36,819</td>
<td>17,810</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>External Origins</td>
<td>34,125</td>
<td>16,282</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Non-Resident</td>
<td>256,198</td>
<td>129,222</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Commercial Vehicles&lt;sup&gt;2&lt;/sup&gt;</td>
<td>-</td>
<td>56,514</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<sup>1</sup> Based on the smoothed adjusted trip rates; <sup>2</sup> Internal trips only.

The data in Table 21 indicates the estimates of HBW trips match reasonably close between the household and work place surveys. The estimates of HBNW trips from the household survey are significantly lower than the estimates from the work place survey. The estimates of NHB destinations from the household survey are higher than the estimates of NHB origin from the work place survey. These differences in estimates are not uncommon due to the small number of observations in the work place survey and the observed high variances in the attraction rates between work places. Part of the difficulty for the Valley study lies in the fact the zonal structure was modified, the area types changed, and the trip purpose categories were modified after the survey was conducted.
Typically, NHB destinations and origins are set equal in travel models. The rates for NHB destinations and origins were summed and averaged to reflect this same type of adjustment. While the estimates of external destinations and origins from the workplace survey are significantly less than those from the external station survey, this is not unexpected due to the fact that the external station survey includes trips that go to residences. These numbers are presented for information purposes only since current travel demand models do not use external destination or origin rates. The estimates of the internal commercial vehicle trips from the workplace survey are less than the estimate from the commercial vehicle survey. Given the limited number of surveys in some of the stratification cells and high variability of attraction rates, the raw rates from the workplace survey were adjusted as follows:

1. attraction rates for area type 4 (Rural) were set equal to the aggregate attraction rates for each employment type calculated for all area types combined;
2. attraction rates for education employment were calculated for all surveyed sites aggregated over all area types and assumed to be the same for each area type; and
3. all attraction rates were adjusted to balance the aggregate estimates with the aggregate estimates of trip productions for each trip purpose.

Tables 22 and 23 show the final recommended trip rates.
Table 22. Recommended Person Trip Attraction Rates.

<table>
<thead>
<tr>
<th>Trip Purpose</th>
<th>Area Type</th>
<th>Person Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Per Basic Employee</td>
</tr>
<tr>
<td>HBW¹</td>
<td>CBD</td>
<td>2.072</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>3.218</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>1.623</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>2.104</td>
</tr>
<tr>
<td></td>
<td>CBD</td>
<td>13.392</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>13.538</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>13.400</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>14.245</td>
</tr>
<tr>
<td>HBNW²</td>
<td>Retail</td>
<td>CBD</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>13.538</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>13.400</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>14.245</td>
</tr>
<tr>
<td>HBNW Other</td>
<td>CBD</td>
<td>1.386</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>1.632</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.333</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0.988</td>
</tr>
<tr>
<td>HBNW School</td>
<td>CBD</td>
<td>16.612</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>16.612</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>16.612</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>16.612</td>
</tr>
<tr>
<td>NHB³</td>
<td>CBD</td>
<td>0.690</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0.856</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.123</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0.427</td>
</tr>
</tbody>
</table>

¹ HBW – Home Based Work; ² HBNW – Home Based Non-Work; ³ NHB – Non-Home Based.

Table 23. Recommended Auto Driver Trip Attraction Rates.

<table>
<thead>
<tr>
<th>Trip Purpose</th>
<th>Area Type</th>
<th>Auto Driver Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Per Basic Employee</td>
</tr>
<tr>
<td>HBW¹</td>
<td>CBD</td>
<td>1.895</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>1.916</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>1.594</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>1.743</td>
</tr>
<tr>
<td></td>
<td>CBD</td>
<td>5.252</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>2.051</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>5.358</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>5.579</td>
</tr>
<tr>
<td>HBNW²</td>
<td>Retail</td>
<td>CBD</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>2.051</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>5.358</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>5.579</td>
</tr>
<tr>
<td>HBNW Other</td>
<td>CBD</td>
<td>0.817</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>1.177</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.306</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0.692</td>
</tr>
<tr>
<td>HBNW School</td>
<td>CBD</td>
<td>4.763</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>4.763</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>4.763</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>4.763</td>
</tr>
<tr>
<td>NHB³</td>
<td>CBD</td>
<td>0.570</td>
</tr>
<tr>
<td></td>
<td>Urban</td>
<td>0.872</td>
</tr>
<tr>
<td></td>
<td>Suburban</td>
<td>0.259</td>
</tr>
<tr>
<td></td>
<td>Rural</td>
<td>0.505</td>
</tr>
</tbody>
</table>

¹ HBW – Home Based Work; ² HBNW – Home Based Non-Work; ³ NHB – Non-Home Based.
The final set of attraction rates are those for commercial vehicles. These rates were developed using the commercial vehicle counts conducted at the surveyed establishments and data from the commercial vehicle survey. The raw commercial vehicle rates were adjusted to bring the total number of commercial vehicle attractions in balance with the estimate of total internal commercial vehicle trips developed from the commercial vehicle survey. Table 24 shows the recommended rates.

<table>
<thead>
<tr>
<th>Area Type</th>
<th>Per Basic Employee</th>
<th>Per Retail Employee</th>
<th>Per Service Employee</th>
<th>Per Education Employee</th>
<th>Per Household</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBD</td>
<td>0.928</td>
<td>0.142</td>
<td>0.286</td>
<td>0.197</td>
<td>0.030</td>
</tr>
<tr>
<td>Urban</td>
<td>0.645</td>
<td>0.122</td>
<td>0.046</td>
<td>0.197</td>
<td>0.030</td>
</tr>
<tr>
<td>Suburban</td>
<td>0.300</td>
<td>0.203</td>
<td>0.111</td>
<td>0.197</td>
<td>0.030</td>
</tr>
<tr>
<td>Rural</td>
<td>2.124</td>
<td>0.200</td>
<td>0.248</td>
<td>0.197</td>
<td>0.030</td>
</tr>
</tbody>
</table>

**SUMMARY OF FINDINGS**

The 2005/06 Rio Grande Valley Work Place Survey was conducted in two phases. The first phase consisted of a telephone survey of randomly selected establishments to ascertain their location in the study area in terms of area type and the type of establishment in terms of free and non-free standing. The number of establishments surveyed in Phase 1 was 794. Nearly 29 percent of these establishments were found to be non-free standing.

The second phase of the work place survey consisted of five data collection efforts at 97 randomly selected establishments and two data collection efforts at 205 establishments. The five data collection efforts consisted of an employee survey, a visitor (non-employee) survey, a general establishment survey, a commercial vehicle survey, and person or vehicle counts at the establishment. The two data collection efforts at the remaining establishments consisted of a survey of the establishment to determine its employment and number of employees at work on a pre-selected day and person or vehicle counts at the establishment. All person and vehicle counts were conducted during the establishments operating hours.
Two establishments were identified as special generators and the full five data collection efforts were conducted at those sites. Those sites were the Brownsville-South Padre Island International Airport and the Valley International Airport.

A total of 262 employees participated at the 97 establishments that were fully surveyed. The number of visitors surveyed at those sites totaled 2,650. Information was collected on 625 site-related trips for the employees and 5,300 trips for the visitors. Certain demographic data were also collected on both employees and visitors. The average household size for those participating in the survey was 3.7. This was higher than the 2000 census estimate of 3.4 persons per household. The average household income for participants was $43,687 and the median household income was $31,152. The 2000 census reported the average household income for the Valley was $34,817 and the median household income was $30,035.

Basic employment was found to have the smallest attraction trip rates and retail employment had the highest. The number of HBW person trip attractions per employee (average) ranged from a low of 1.25 to a high of 3.22. The number of HBNW person trip attractions per employee ranged from a low of 0.77 to a high of 61.59. The number of NHB person trip destinations per employee ranged from a low of 0.23 to a high of 7.54. The number of non-resident person trips per employee ranged from a low of 0.07 to a high of 6.37. These values represent the observed data from the survey and not the final recommendations.

Travel by non-residents in the Valley area is a significant amount, over 250,000 daily person trips. The distribution of trips by purpose as estimated from the work place survey appear to reasonably estimate the amount of home-based work travel and over estimate the amount of home-based non-work travel.

Tables 17 through 19 show the trip rates as observed in the work place survey. These rates were adjusted based on estimates of travel from the Valley household survey, external station survey, and commercial vehicle survey. These adjustments used estimates of employment for the Valley study area from the TWC. Tables 22 through 24 show the adjusted rates. Since adjustments to observed trip rates are highly sensitive to the amount of employment and the distribution of
employment, note that additional adjustments may be necessary in the calibration phase of the travel demand model to achieve acceptable results. The rates presented in Tables 22 through 24 are recommended for use in the Valley travel demand model subject to further adjustments to achieve acceptable results.
APPENDIX:
RIO GRANDE VALLEY WORK PLACE TRAVEL SURVEY FORMS
AND DATA FILE FORMAT
<table>
<thead>
<tr>
<th>Form Name</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form A – Workplace Establishment Survey, General Information Form</td>
<td>1</td>
</tr>
<tr>
<td>Form B – Employee Survey</td>
<td></td>
</tr>
<tr>
<td>Part I – Household Information</td>
<td>1</td>
</tr>
<tr>
<td>Part II – Trip Information</td>
<td>8</td>
</tr>
<tr>
<td>Form C – Non-Employee (Visitor) Survey, Free Standing Workplace</td>
<td>1</td>
</tr>
<tr>
<td>Form D – Non Employee (Visitor) Survey, Non-Free Standing Workplace</td>
<td>1</td>
</tr>
<tr>
<td>Form E – Workplace Delivery Vehicle Survey</td>
<td>2</td>
</tr>
<tr>
<td>Form F – Workplace Own/Lease Vehicle Survey, Part 1</td>
<td></td>
</tr>
<tr>
<td>Part I – Vehicle Information</td>
<td>1</td>
</tr>
<tr>
<td>Part II – Travel Log</td>
<td>3</td>
</tr>
<tr>
<td>Example Evaluation Form</td>
<td>1</td>
</tr>
</tbody>
</table>
### Workplace Information

<table>
<thead>
<tr>
<th>Name</th>
<th>Street Address</th>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
<th>Telephone</th>
</tr>
</thead>
</table>

### Management Information

- **CEO/Administrator**
  - Name: _____________________
  - Telephone: ________________
  - Title: ________________

- **Personnel Manager**
  - Name: _____________________
  - Telephone: ________________
  - Title: ________________

- **Security Director**
  - Name: _____________________
  - Telephone: ________________
  - Title: ________________

### Traffic Counts / Hours of Operation

- **Weekday Hours of Operation:** ________________
- **Commercial Cargo Vehicles:** ________________
- **Non-Commercial Vehicle Count:** ________________
- **Person Count:** ________________
- **Commercial Service Vehicles:** ________________

### Employment Information

- **Total Employees (Full and part time):** ________________
- **Number at Work on Survey Day:** ________________
- **If multiple shifts:** ________________
  - Times: ________________
  - If multiple shifts: ________________
  - Number of employees per shift: ________________

### Parking Information (Optional)

- **Parking Spaces:** ________________
  - Number: ________________
  - Location: ________________
  - Parking Fee(s): ________________

### Delivery Information

- **Loading Docks:** ________________
  - Number: ________________
  - Location(s): ________________

- **Delivery Hours (If Restricted):** ________________
  - No. of Deliveries: ________________
  - on Day of Survey: ________________

### Transit Information

- **Bus Stops(s):** ________________
  - Number: ________________
  - Location(s): ________________

- **Bus Route(s):** ________________
  - Name(s)/Number(s): ________________

### Layout / Site Plan

- **Requested:** ________________
  - Date: ________________
  - Location: ________________

- **Received:** ________________
  - Date: ________________
  - Location: ________________

### Number/Type of Vehicles owned/Leased for Commercial/Business Purposes

- **Commercial Cargo Transport Vehicles:** ________________
- **Commercial Service Vehicles:** ________________
- **Cars:** ________________
- **Vans:** ________________
- **SUV's:** ________________
- **Pickup Trucks:** ________________
**WORK PLACE EMPLOYEE SURVEY**

*Form B*

**Record Types 5 & 6**  
**Survey Location**  
**Sample Number**  
**Site Number**  
**Travel Day (Month/Day)**

**PART 1: HOUSEHOLD INFORMATION**  
(if you have participated in prior survey, please fill out this form anyway)

Home Address  
___________________________________________  
Street Address  
___________________________________________  
City  
County  
State  
Zip Code

How many people live at your home address? (Do not count guests)  
__________________________________________________________________________  
How many people in your household (including yourself) are employed (Include full and part-time)?  
__________________________________________________________________________  
How many vehicles (cars, vans, light trucks, motorcycles) are available for use by members of your household?  
__________________________________________________________________________

**Please list all vehicles available to your household (including company cars, rental cars, motorcycles, etc) and complete the following:**

<table>
<thead>
<tr>
<th>Veh. No.</th>
<th>Year</th>
<th>Make</th>
<th>Model</th>
<th>Vehicle Type</th>
<th>Circle One Odometer Readings on Travel Day</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Beginning</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1) Diesel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2) Gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3) Other</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1) Diesel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2) Gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3) Other</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1) Diesel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2) Gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3) Other</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1) Diesel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2) Gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3) Other</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1) Diesel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2) Gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3) Other</td>
</tr>
</tbody>
</table>

If you add up the annual incomes of all members of the household, into what range does it fall? (Check one)

1) □ Less than $5,000  
2) □ $5,000 to $9,999  
3) □ $10,000 to $14,999  
4) □ $15,000 to $19,999  
5) □ $20,000 to $24,999  
6) □ $25,000 to $29,999  
7) □ $30,000 to $34,999  
8) □ $35,000 to $39,999  
9) □ $40,000 to $49,999  
10) □ $50,000 to $59,999  
11) □ $60,000 to $74,999  
12) □ $75,000 to $99,999  
13) □ $100,000 to $124,999  
14) □ $125,000 to $149,999  
15) □ $150,000 or more  
16) □ Don’t Know  
17) □ Refused

This completes the general information needed. Please fill out the attached travel questionnaire to record the trips that you make on the travel day.  
Thank you for your help.

*Rio Grande Valley Work Place Travel Survey*
### Form B - PART 2: TRIP INFORMATION

**SITE # __________________________**

**SAMPLE # ______________________**

**PLEASE ENTER YOUR:**

TRAVEL DAY: ___________________

DEPARTURE TIME: ____________ am / pm

---

**BEGIN:**  
MY FIRST TRIP TODAY BEGAN AT:  

[ ] (1) Home  
[ ] (2) Work  
[ ] (99) Other Location

(Fill in address)

(Place/address or nearest intersection, city, county, state, zip code)

---

#### 1. FIRST I WENT TO:

<table>
<thead>
<tr>
<th>Location Address</th>
<th>When did you get here/leave here?</th>
<th>Type of activity at this location (check one)</th>
<th>Purpose of Trip (check one)</th>
<th>Mode of Transportation (check one)</th>
<th>Number of persons in vehicle (including self)</th>
<th>If you took the bus … (answer questions below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(0) Residential</td>
<td>(1) Leave / Return Home</td>
<td>(1) Driver (car/truck/van)</td>
<td>Number of people</td>
<td>What was the bus fare?:</td>
</tr>
<tr>
<td>Address or nearest intersection</td>
<td></td>
<td>(1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing</td>
<td>(2) Go to Work</td>
<td>(2) Passenger (car/truck/van)</td>
<td>Year</td>
<td>$ _________</td>
</tr>
<tr>
<td>City / state / zip</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(2) Retail trade, shopping for food, gas, clothes, home garden. Restaurants. Any place that sells something</td>
<td>(3) Work Related</td>
<td>(3) Walk</td>
<td>Make</td>
<td></td>
</tr>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement</td>
<td>(4) School</td>
<td>(4) Bicycle</td>
<td>Model</td>
<td></td>
</tr>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(4) Other</td>
<td>(5) Social/Recreation</td>
<td>(5) Bus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(5) Eat Out</td>
<td>(6) Work Related</td>
<td>(6) School Bus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(6) Work Related</td>
<td>(7) Shop</td>
<td>(7) Taxi/Paid Limousine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(7) Change Travel Mode</td>
<td>(8) Pick-up/Drop-off Passenger</td>
<td>(8) Commercial Cargo Transport Vehicle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(8) Pick-up/Drop-off Passenger</td>
<td>(9) Commercial Service Vehicle</td>
<td>(9) Commercial Service Vehicle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(9) Personal Business</td>
<td>(10) Motorcycle</td>
<td>(10) Motorcycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of Place</td>
<td>[ ] a.m.  [ ] p.m.</td>
<td>(10) Motorcycle</td>
<td>(11) Other</td>
<td>(11) Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

If you paid parking, what was parking cost? $ _______

---

Thanks for your help with this important survey! **We are collecting ‘complete’ information on all travel during the day. Please include ANY and ALL stops including lunch, convenient store, shopping, etc. We appreciate your cooperation**
### Form B - PART 2: TRIP INFORMATION (continued)

<table>
<thead>
<tr>
<th>Location Address</th>
<th>When did you get here/leave here?</th>
<th>Type of activity at this location (check one)</th>
<th>Purpose of Trip (check one)</th>
<th>Mode of Transportation (check one)</th>
<th>Number of persons in vehicle (including self)</th>
<th>If driver, what vehicle was used?</th>
<th>If you took the bus ... (answer questions below)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(0) Residential</td>
<td>(1) Leave / Return Home</td>
<td>(1) Driver (car/truck/van)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) Industrial, Manufacturing, Agricultural,</td>
<td>(2) Go to Work</td>
<td>(2) Passenger (car/truck/van)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Mining / Refining, Transportation, Warehousing</td>
<td>(3) Work Related</td>
<td>(3) Walk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td>(4) School</td>
<td>(4) Bicycle</td>
<td></td>
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<td></td>
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<td></td>
<td>(5) Social/Recreation</td>
<td>(5) Bus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(6) Eat Out</td>
<td>(6) School Bus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(7) Shop</td>
<td>(7) Taxi/Paid Limousine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(8) Pick-up/Drop-off Passenger</td>
<td>(8) Commercial Cargo Transport Vehicle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(9) Change Travel Mode</td>
<td>(9) Commercial Service Vehicle</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
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<td>(10) Personal Business</td>
<td>(10) Motorcycle</td>
<td></td>
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<td>(11) Other</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a.m.</td>
<td>(0) Residential</td>
<td>(1) Leave / Return Home</td>
<td>(1) Driver (car/truck/van)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>p.m.</td>
<td></td>
<td>(2) Go to Work</td>
<td>(2) Passenger (car/truck/van)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1) Industrial, Manufacturing, Agricultural,</td>
<td>(3) Work Related</td>
<td>(3) Walk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Mining / Refining, Transportation, Warehousing</td>
<td>(4) School</td>
<td>(4) Bicycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td>(5) Social/Recreation</td>
<td>(5) Bus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(6) Eat Out</td>
<td>(6) School Bus</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>(7) Shop</td>
<td>(7) Taxi/Paid Limousine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(8) Pick-up/Drop-off Passenger</td>
<td>(8) Commercial Cargo Transport Vehicle</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
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<td></td>
<td>(9) Change Travel Mode</td>
<td>(9) Commercial Service Vehicle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(10) Personal Business</td>
<td>(10) Motorcycle</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>(11) Other</td>
<td>(11) Other</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 2. NEXT I WENT TO:
- **Location Address**
- **When did you get here/leave here?**
- **Type of activity at this location (check one)**
- **Purpose of Trip (check one)**
- **Mode of Transportation (check one)**
- **Number of persons in vehicle (including self)**
- **If driver, what vehicle was used?**
- **If you took the bus ... (answer questions below)**
- **If you paid parking, what was parking cost?**

#### 3. NEXT I WENT TO:
- **Location Address**
- **When did you get here/leave here?**
- **Type of activity at this location (check one)**
- **Purpose of Trip (check one)**
- **Mode of Transportation (check one)**
- **Number of persons in vehicle (including self)**
- **If driver, what vehicle was used?**
- **If you took the bus ... (answer questions below)**
- **If you paid parking, what was parking cost?**
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<thead>
<tr>
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<th>Mode of Transportation (check one)</th>
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<th>If you took the bus … (answer questions below)</th>
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<td></td>
<td></td>
<td>(0) Residential</td>
<td>(1) Leave / Return Home</td>
<td>(1) Driver (car/truck/van)</td>
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<td>(2) Go to Work</td>
<td>(2) Passenger (car/truck/van)</td>
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</table>

4. NEXT I WENT TO:

- Name of Place
- Address or nearest intersection
- City / state / zip
- If this place is outside Cameron/Hidalgo counties, what road were you on when you entered / exited the area
- (road name)
- Do you normally work at or out of this location? Yes No

5. NEXT I WENT TO:

- Name of Place
- Address or nearest intersection
- City / state / zip
- If this place is outside Cameron/Hidalgo counties, what road were you on when you entered / exited the area
- (road name)
- Do you normally work at or out of this location? Yes No
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<tr>
<th>Location Address</th>
<th>When did you get here/ leave here?</th>
<th>Type of activity at this location (check one)</th>
<th>Purpose of Trip (check one)</th>
<th>Mode of Transportation (check one)</th>
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<th>If driver, what vehicle was used?</th>
<th>If you took the bus … (answer questions below)</th>
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<td>(1) Leave / Return Home</td>
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### Form B - PART 2: TRIP INFORMATION (continued)

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<th>Type of activity at this location (check one)</th>
<th>Purpose of Trip (check one)</th>
<th>Mode of Transportation (check one)</th>
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</table>

**If you paid parking, what was parking cost?**

$________

**If this place is outside Cameron/Hidalgo counties, what road were you on when you entered / exited the area?**

(road name)

**Do you normally work at or out of this location?**

Yes [ ] No [ ]

---

**9. NEXT I WENT TO:**

<table>
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<tr>
<th>Location Address</th>
<th>When did you get here/leave here?</th>
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</table>

**If you paid parking, what was parking cost?**

$________

**If this place is outside Cameron/Hidalgo counties, what road were you on when you entered / exited the area?**

(road name)

**Do you normally work at or out of this location?**

Yes [ ] No [ ]

---

**If you took the bus … (answer questions below)**
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<th>Mode of Transportation (check one)</th>
<th>Number of persons in vehicle (including self)</th>
<th>If driver, what vehicle was used?</th>
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<td>Name of Place</td>
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<td>Year</td>
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<td>Address or nearest intersection</td>
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<td>Mode of Transportation (check one)</td>
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<td>Mode of Transportation (check one)</td>
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<td>If you paid parking, what was parking cost?: $__________ Per __________ Hour __________ Day __________ Month __________</td>
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14. NEXT I WENT TO:

- (0) Residential
- (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing
- (2) Retail trade, shopping for food, gas, clothes, home garden. Restaurants. Any place that sells something
- (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement
- (4) Other

- (1) Leave / Return Home
- (2) Go to Work
- (3) Work Related
- (4) School
- (5) Social/Recreation
- (6) Eat Out
- (7) Shop
- (8) Pick-up/Drop-off Passenger
- (9) Change Travel Mode
- (10) Personal Business
- (11) Other

- (1) Driver (car/truck/van)
- (2) Passenger (car/truck/van)
- (3) Walk
- (4) Bicycle
- (5) Bus
- (6) School Bus
- (7) Taxi/Paid Limousine
- (8) Commercial Cargo Transport Vehicle
- (9) Commercial Service Vehicle
- (10) Motorcycle
- (11) Other

15. NEXT I WENT TO:

- (0) Residential
- (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing
- (2) Retail trade, shopping for food, gas, clothes, home garden. Restaurants. Any place that sells something
- (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement
- (4) Other

- (1) Leave / Return Home
- (2) Go to Work
- (3) Work Related
- (4) School
- (5) Social/Recreation
- (6) Eat Out
- (7) Shop
- (8) Pick-up/Drop-off Passenger
- (9) Change Travel Mode
- (10) Personal Business
- (11) Other

- (1) Driver (car/truck/van)
- (2) Passenger (car/truck/van)
- (3) Walk
- (4) Bicycle
- (5) Bus
- (6) School Bus
- (7) Taxi/Paid Limousine
- (8) Commercial Cargo Transport Vehicle
- (9) Commercial Service Vehicle
- (10) Motorcycle
- (11) Other
## VISITOR TRAVEL SURVEY

**Free Standing Workplace**

**Record Type 8**

**Site #**

**Survey Area**

**Date:**

**Interviewer**

**Area Type**

**Address:** _________________________________________________

**Interviewer** ____________________

**Location:** ____________________________________________________________

### Questions

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<th>Person 2</th>
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<td>b. No – continue interview</td>
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<td>2. In what city do you live?</td>
<td>a. Yes ☐ No ☐ (If NO go to Question 4)</td>
<td>a. Yes ☐ No ☐ (If NO go to Question 4)</td>
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<td>3a. Is that outside of Cameron or Hidalgo county?</td>
<td>☐ Yes ☐ No ☐ (If NO go to Question 4)</td>
<td>☐ Yes ☐ No ☐ (If NO go to Question 4)</td>
</tr>
<tr>
<td>(If NO go to Question 4)</td>
<td>(If YES go to 3b)</td>
<td>(If YES go to 3b)</td>
</tr>
<tr>
<td>3b. If YES ask: Did you stay over night in the Cameron/Hidalgo area?</td>
<td>☐ Yes ☐ No ☐ (If NO go to Question 4)</td>
<td>☐ Yes ☐ No ☐ (If NO go to Question 4)</td>
</tr>
<tr>
<td>(If YES go to 3c)</td>
<td>(If YES go to 3c)</td>
<td>(If YES go to 3c)</td>
</tr>
<tr>
<td>3c. If YES – Where did you stay?</td>
<td>☐ Yes ☐ No ☐ (If NO go to Question 4)</td>
<td>☐ Yes ☐ No ☐ (If NO go to Question 4)</td>
</tr>
<tr>
<td></td>
<td>(If YES go to 3c)</td>
<td>(If YES go to 3c)</td>
</tr>
<tr>
<td>3d. If NO – Which roadway did you use to enter the area? (airport is an</td>
<td>☐ Yes ☐ No ☐ (If NO go to Question 4)</td>
<td>☐ Yes ☐ No ☐ (If NO go to Question 4)</td>
</tr>
<tr>
<td>option)</td>
<td>(If YES go to 3c)</td>
<td>(If YES go to 3c)</td>
</tr>
<tr>
<td></td>
<td>(If YES go to 3c)</td>
<td>(If YES go to 3c)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. What is your home address or nearest two intersecting streets?</td>
<td>a. ☐ Yes ☐ No ☐ Refused (If YES go to Question 7)</td>
<td>a. ☐ Yes ☐ No ☐ Refused (If YES go to Question 7)</td>
</tr>
<tr>
<td>5a. Did you travel here directly from your home with no stops?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(if YES go to Question 7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5b. If NO where did you start your trip that brought you to ___?</td>
<td>(Address or nearest intersection)</td>
<td>(Address or nearest intersection)</td>
</tr>
<tr>
<td>6a. Is that location:</td>
<td>a. ☐ In Cameron County? (Go to Question 7)</td>
<td>a. ☐ In Cameron County? (Go to Question 7)</td>
</tr>
<tr>
<td>6b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo</td>
<td>☐ In Hidalgo County? (Go to Question 7)</td>
<td>☐ In Hidalgo County? (Go to Question 7)</td>
</tr>
<tr>
<td>area?</td>
<td>☐ In Mexico? (Go to 6b)</td>
<td>☐ In Mexico? (Go to 6b)</td>
</tr>
<tr>
<td>6c. If outside of Cameron/Hidalgo County, what street or highway were</td>
<td>☐ Outside Cameron or Hidalgo County (Go to 6c)</td>
<td>☐ Outside Cameron or Hidalgo County (Go to 6c)</td>
</tr>
<tr>
<td>you on when you entered Cameron/Hidalgo County?</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. What approximate time did you arrive at this location today?</td>
<td>a.m / p.m</td>
<td>a.m / p.m</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. How did you arrive here at the ___? (Choose from arrival options)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9a. If car/truck/van ask: How many people, including yourself, were in</td>
<td>a) # people __________________________</td>
<td>a) # people __________________________</td>
</tr>
<tr>
<td>the vehicle?</td>
<td>b) Fare $_________________________</td>
<td>b) Fare $_________________________</td>
</tr>
<tr>
<td>9b. If bus, ask: What fare did you pay?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. What is the reason for coming here today? (Choose from trip purpose</td>
<td>Number ______________________</td>
<td>Number ______________________</td>
</tr>
<tr>
<td>options)</td>
<td>Other ________________________</td>
<td>Other ________________________</td>
</tr>
<tr>
<td>11. When you leave here are you going straight home with no stops?</td>
<td>☐ Yes (Home) ☐ No (Other) -Continue (if YES go to Question 14)</td>
<td>☐ Yes ☐ No (Other) -Continue (if YES go to Question 14)</td>
</tr>
<tr>
<td>(If Q.11 = Yes, then skip)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. What is the address of the place you will be going?</td>
<td>(Address or nearest intersection)</td>
<td>(Address or nearest intersection)</td>
</tr>
</tbody>
</table>

---

**Rio Grande Valley Work Place Travel Survey**
<table>
<thead>
<tr>
<th>Questions</th>
<th>Person 1</th>
<th>Person 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>(If Q.11 = Yes, then skip)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13a. Is that location?</td>
<td>☐ In Cameron County? (Go to Question 14)</td>
<td>☐ In Cameron County? (Go to Question 14)</td>
</tr>
<tr>
<td>13b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo area?</td>
<td>☐ In Hidalgo County? (Go to Question 14)</td>
<td>☐ In Hidalgo County? (Go to Question 14)</td>
</tr>
<tr>
<td></td>
<td>☐ Outside Cameron or Hidalgo County (Go to 13c)</td>
<td>☐ Outside Cameron or Hidalgo County (Go to 13c)</td>
</tr>
<tr>
<td>13c. If outside of Cameron/Hidalgo County, what street or highway will you be on when you leave Cameron/Hidalgo Co.?</td>
<td>b. __________________________</td>
<td>b. __________________________</td>
</tr>
<tr>
<td></td>
<td>c. __________________________</td>
<td>c. __________________________</td>
</tr>
<tr>
<td>14. How many people live at your home address? (Do not count guests)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. How many vehicles are available for use by members of your household?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. If you combined the annual income of all members of your household, into what range would it fall?</td>
<td>Range: __________________________</td>
<td>Range: __________________________</td>
</tr>
</tbody>
</table>

**Arrival Option**

1. Driver (car/truck/van)
2. Passenger (car/truck/van)
3. Walk
4. Bicycle
5. Bus
6. School Bus
7. Taxi/Paid Limousine
8. Commercial Cargo Transport Vehicle
9. Commercial Service Vehicle
10. Motorcycle
11. Other – specify in block
12. Non-Response

**Trip Purpose Options**

1. Work related
2. School
3. Social/recreational/visit
4. Shop
5. Eat out
6. Pick up/drop off passenger
7. Change travel mode
8. Delivery – pick up/drop off
9. Other – specify in block
99. Non-response

**Household Income Range**

1. Less than $5,000
2. $5,000 – $9,999
3. $10,000 – $14,999
4. $15,000 – $19,999
5. $20,000 – $24,999
6. $25,000 – $29,999
7. $30,000 – $34,999
8. $35,000 – $39,999
9. $40,000 – $49,999
10. $50,000 – $59,999
11. $60,000 – $74,999
12. $75,000 – $99,999
13. $100,000 – $124,999
14. $125,000 – $149,999
15. $150,000 or more
98. Don’t Know
99. Refused

**Cameron County / Mexico Bridges**

1. Gateway International Bridge (SH 4)
2. Veterans International / Los Tomates Bridge (US 83/77 Expressway)
3. B&M Bridge (Business 77)
4. Free Trade / Los Indios Bridge (FM 509)
5. Progresso International Bridge (FM 1015)
6. Pharr / Reynosa International Bridge (spur 600 from US 281)
7. McAllen-Hidalgo-Reynosa Bridge (spur 600 to spur 241)
8. Los Ebanos Ferry (near FM 886 to US 83)
<table>
<thead>
<tr>
<th>Questions</th>
<th>Person 1</th>
<th>Person 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Do you work in this building?</td>
<td>1) Yes</td>
<td>1) Yes</td>
</tr>
<tr>
<td>a. Yes – stop interview</td>
<td>2) No</td>
<td>2) No</td>
</tr>
<tr>
<td>b. No – continue interview</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. In what city do you live?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3a. Is that outside of Cameron or Hidalgo County?</td>
<td>a. □ Yes □ No</td>
<td>a. □ Yes □ No</td>
</tr>
<tr>
<td>(If NO go to question 4)</td>
<td>(If NO go to 3b)</td>
<td>(If NO go to 4)</td>
</tr>
<tr>
<td>3b. If YES ask: Did you stay over night in the Cameron/Hidalgo area?</td>
<td>b. □ Yes □ No</td>
<td>b. □ Yes □ No</td>
</tr>
<tr>
<td>(If YES go to 3c)</td>
<td>(If NO go to 3d)</td>
<td>(If NO go to 3d)</td>
</tr>
<tr>
<td>3c. If YES – Where did you stay?</td>
<td>c. ______________________________</td>
<td>c. ______________________________</td>
</tr>
<tr>
<td>3d. If NO – Which roadway did you use to enter the area? (airport is an</td>
<td>d. ______________________________</td>
<td>d. ______________________________</td>
</tr>
<tr>
<td>option)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. What is your home address or nearest two intersecting streets?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5a. Did you travel here directly from your home with no stops?</td>
<td>a. □ Yes □ No</td>
<td>a. □ Yes □ No</td>
</tr>
<tr>
<td>(if YES go to Question 7)</td>
<td>(IF NO continue)</td>
<td>(IF NO continue)</td>
</tr>
<tr>
<td>5b. If NO where did you start your trip that brought you to____________</td>
<td>b. __________________________________</td>
<td>b. __________________________________</td>
</tr>
<tr>
<td>(Address or nearest intersection)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6a. Is that location:</td>
<td>a. □ In Cameron County? (Go to 7)</td>
<td>a. □ In Cameron County? (Go to 7)</td>
</tr>
<tr>
<td>6b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo</td>
<td>□ In Hidalgo County? (Go to 7)</td>
<td>□ In Hidalgo County? (Go to 7)</td>
</tr>
<tr>
<td>area?</td>
<td>□ In Mexico? (Go to 6b)</td>
<td>□ In Mexico? (Go to 6b)</td>
</tr>
<tr>
<td>6c. If outside of Cameron/Hidalgo County, what street or highway were</td>
<td>b. ______________________________</td>
<td>b. ______________________________</td>
</tr>
<tr>
<td>you on when you entered Cameron/Hidalgo County?</td>
<td>c. ______________________________</td>
<td>c. ______________________________</td>
</tr>
<tr>
<td>7. What approximate time did you arrive at this location today?</td>
<td>_______ a m / _______ p m</td>
<td>_______ a m / _______ p m</td>
</tr>
<tr>
<td>8. How did you arrive here at the ____________________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Choose from arrival options)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9a. If car/truck/van ask: How many people, including yourself, were in</td>
<td>a) # people_____________________</td>
<td>a) # people_____________________</td>
</tr>
<tr>
<td>the vehicle?</td>
<td>b) Fare $___________________</td>
<td>b) Fare $___________________</td>
</tr>
<tr>
<td>9b. If bus, ask: What fare did you pay?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. What is the reason for coming here today? (Choose from trip purpose</td>
<td>Number __________________________</td>
<td>Number __________________________</td>
</tr>
<tr>
<td>options)</td>
<td>Other ____________________________</td>
<td>Other ____________________________</td>
</tr>
<tr>
<td>11. Is this the 1st store / establishment you have visited since</td>
<td>□ Yes □ No □ Refused</td>
<td>□ Yes □ No □ Refused</td>
</tr>
<tr>
<td>arriving at this building / center?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. How many stores /establishments have you visited in this center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>during this trip?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Questions</td>
<td>Person 1</td>
<td>Person 2</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>13. How many more stores or businesses do you plan to visit in this center / building?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. When you leave here are you going straight home with no stops?</td>
<td>☐ Yes ☐ No (If YES go to Question 17)</td>
<td>☐ Yes ☐ No (If YES go to Question 17)</td>
</tr>
<tr>
<td>15. What is the address of the place you will be going?</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Address or nearest intersection)</td>
<td>(Address or nearest intersection)</td>
</tr>
<tr>
<td>16a. Is that location in:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo area?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16c. If outside of Cameron/Hidalgo County what street or highway will you be on when you leave Cameron County?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. ☐ In Cameron County? (Go to Question 17)</td>
<td>☐ In Hidalgo County? (Go to Question 17)</td>
<td>☐ In Cameron County? (Go to Question 17)</td>
</tr>
<tr>
<td>b. ☐ In Mexico? (Go to 16b)</td>
<td>☐ Outside Cameron or Hidalgo County(Go to 16c)</td>
<td>☐ In Hidalgo County? (Go to Question 17)</td>
</tr>
<tr>
<td>c. ☐ Outside Cameron or Hidalgo County(Go to 16c)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17. How many people live at your home address? (Do not count guests)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18. How many vehicles are available for use by members of your household?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19. If you combined the annual income of all members of your household, into what range would it fall?</td>
<td>Range: ___________________________ (see below for ranges)</td>
<td>Range: ___________________________ (see below for ranges)</td>
</tr>
</tbody>
</table>

**Arrival Option**

1) Driver (car/truck/van)  
2) Passenger (car/truck/van)  
3) Walk  
4) Bicycle  
5) Bus  
6) School Bus  
7) Taxi/Paid Limousine  
8) Commercial Cargo Transport Vehicle  
9) Commercial Service Vehicle  
10) Motorcycle  
11) Other – specify in block  
99) Non-Response

**Trip Purpose Options**

1) Work related  
2) School  
3) Social/recreational/visit  
4) Shop  
5) Eat out  
6) Pick up/drop off passenger  
7) Change travel mode  
8) Delivery – pick up/drop off  
9) Other – specify in block  
99) Non-response

**Household Income Range**

1.) Less than $5,000  
2.) $5,000 – $9,999  
3.) $10,000 - $14,999  
4.) $15,000 - $19,999  
5.) $20,000 - $24,999  
6.) $25,000 - $29,999  
7.) $30,000 - $34,999  
8.) $35,000 - $39,999  
9.) $40,000 - $49,999  
10) $50,000 - $59,999  
11) $60,000 - $74,999  
12) $75,000 - $99,999  
13) $100,000 - $124,999  
14) $125,000 - $149,999  
15) $150,000 or more  
98) Don’t Know  
99) Refused

**Cameron County / Mexico Bridges**

1. Gateway International Bridge (SH 4)  
2. Veterans International / Los Tomates Bridge (US 83/77 Expressway)  
3. B&M Bridge (Business 77)  
4. Free Trade / Los Indios Bridge (FM 509)  
5. Progresso International Bridge (FM 1015)  
6. Pharr / Reynosa International Bridge (spur 600 from US 281)  
7. McAllen-Hidalgo-Reynosa Bridge (spur 600 to spur 241)  
8. Los Ebanos Ferry (near FM 886 to US 83)
## Workplace Delivery Vehicle Survey

**Form E**

<table>
<thead>
<tr>
<th>Questions</th>
<th>Vehicle 1</th>
<th>Vehicle 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Time of Arrival</td>
<td>__________ a.m. / __________ p.m.</td>
<td>__________ a.m. / __________ p.m.</td>
</tr>
<tr>
<td>2. Number of People in Vehicle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Standard Vehicle Class (choose from vehicle class options)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Vehicle Type</td>
<td>[ ] 1 – Cargo Transport</td>
<td>[ ] 2 Service</td>
</tr>
<tr>
<td></td>
<td>[ ] 1 – Cargo Transport</td>
<td>[ ] 2 Service</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>a.</th>
<th>a.</th>
</tr>
</thead>
<tbody>
<tr>
<td>b.</td>
<td>b.</td>
</tr>
<tr>
<td>c. 1. □ Leaded Gas</td>
<td>c. 1. □ Leaded Gas</td>
</tr>
<tr>
<td>2. □ Unleaded Gas</td>
<td>4. □ Propane</td>
</tr>
<tr>
<td>3. □ Diesel</td>
<td>5. □ Other</td>
</tr>
</tbody>
</table>

| 5a. What year is this vehicle? | a. ______________________ (year) | a. ______________________ (year) |
| 5b. Gross vehicle weight? | b. ______________________ (weight) | b. ______________________ (weight) |
| 5c. Leaded, unleaded, diesel, propane, or other kind of fuel? | c. 1. □ Leaded Gas | c. 1. □ Leaded Gas |
| | 2. □ Unleaded Gas | 4. □ Propane |
| | 3. □ Diesel | 5. □ Other |

| 6. What is the mileage on your odometer? | | |
| 7. What is the cargo? (Enter Description.) | | |
| 8. What is the weight of the cargo being delivered in pounds? | | |
| 9. What is the weight of the cargo being picked up in pounds? | | |

| 10. Did your cargo originate in Mexico? | □ Yes □ No □ Refused | □ Yes □ No □ Refused |

| 11. What is your reason for coming here today? | □ (Choose from trip purpose options) | □ (Choose from trip purpose options) |

| 12. What is the address of the last place you got into your vehicle? | | |
| (place/address or nearest intersection/city) | | |

| 13a. Is that location: | a. □ In Cameron County? (Go to Question 14) | a. □ In Cameron County? (Go to Question 14) |
| 13b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo County area? | □ In Hidalgo County? (Go to Question 14) | □ In Hidalgo County? (Go to Question 14) |
| | □ In Mexico? (Go to 13b) | □ In Mexico? (Go to 13b) |
| | □ Outside of Cameron County (Go to 13c) | □ Outside of Cameron County (Go to 13c) |

| 13c. If outside of Cameron/Hidalgo County, what street or highway were you on when you entered the Cameron/Hidalgo area? | a. □ In Cameron County? (Go to Question 14) | a. □ In Cameron County? (Go to Question 14) |
| b. □ In Hidalgo County? (Go to Question 14) | □ In Hidalgo County? (Go to Question 14) |
| | □ In Mexico? (Go to 13b) | □ In Mexico? (Go to 13b) |
| | □ Outside of Cameron County (Go to 13c) | □ Outside of Cameron County (Go to 13c) |
| c. | | |

| 14. What was your purpose for being at that location? | □ (Choose from trip purpose options) | □ (Choose from trip purpose options) |

| 15. What approximate time did you leave that location? | __________ a.m. / __________ p.m. | __________ a.m. / __________ p.m. |

| 16. What is the address of the place you will be going when you leave? | | |
| (place/address or nearest intersection/city) | | |
Workplace Survey, Form E (continued)

17a. Is that location:  
- [ ] In Cameron County? (Go to Question 18)  
- [ ] In Hidalgo County? (Go to Question 18)  
- [ ] In Mexico? (Go to Question 18)  
- [ ] Outside of Cameron County? (Go to Question 18)  

17b. If in Mexico, what bridge will you use to leave the Cameron/Hidalgo County area?  
- [ ] In Cameron County? (Go to Question 18)  
- [ ] In Hidalgo County? (Go to Question 18)  
- [ ] In Mexico? (Go to Question 18)  
- [ ] Outside of Cameron County (Go to Question 18)  

17c. If outside Cameron/Hidalgo County, what street or highway will you be on when you leave the area the Cameron/Hidalgo County area?  
- [ ] In Cameron County? (Go to Question 18)  
- [ ] In Hidalgo County? (Go to Question 18)  
- [ ] In Mexico? (Go to Question 18)  
- [ ] Outside of Cameron County (Go to Question 18)  

18. What is your purpose for traveling to your next destination?  
- [ ] Choose from trip purpose options  
- [ ] Choose from trip purpose options  

### Vehicle Cargo Codes:

1. Farm Products
2. Forest Products
3. Marine Products
4. Metals and Minerals
5. Food, Health, and Beauty Products
6. Tobacco Products
7. Textiles
8. Wood Products
9. Printed Matter
10. Chemical Products
11. Refined Petroleum or Coal Products
12. Rubber, Plastic, and Styrofoam Products
13. Clay, Concrete, Glass, or Stone
14. Manufactured Goods/Equipment
15. Wastes
16. Miscellaneous Shipments
17. Hazardous Materials
18. Transportation
19. Unclassified Cargo
20. Driver refused to Answer
21. Unknown to Driver
22. Empty
23. No Delivery or Pickup

### Trip Purpose Options:

1. Base location / return to base location
2. Delivery
3. Pick-up
4. Delivery and Pick Up
5. Maintenance
6. Driver Needs (lunch, etc.)
7. To home
8. Buy gas/fuel
9. Other (specify)
99. Refuse/Unknown

### Standard Vehicle Class Options:

1. Passenger Car
2. Pick-up
3. Van (passenger or Mini)
4. Sport Utility Vehicle (SUV)
5. Single Unit 2-axle (6 wheels)
6. Single Unit 3-axle (10 wheels)
7. Single Unit 4-axle (14 wheels)
8. Semi (all tractor trailer combinations)
9. Other _______________ 

### Cameron County / Mexico Bridges:

1. Gateway International Bridge (SH 4)
2. Veterans International / Los Tomates Bridge (US 83/77 Expressway)
3. B&M Bridge (Business 77)
4. Free Trade / Los Indios Bridge (FM 509)
5. Progresso International Bridge (FM 1015)
6. Pharr / Reynosa International Bridge (spur 600 from US 281)
7. McAllen-Hidalgo-Reynosa Bridge (spur 600 to spur 241)
8. Los Ebanos Ferry (near FM 886 to US 83)
Record Type 20
WORKPLACE VEHICLES OWNED/LEASED SURVEY  FORM F
PART 1: VEHICLE INFORMATION
(If you have participated in prior surveys, please fill out this form anyway.)

Vehicle ID#: ______________________  Vehicle License # : ____________
Survey Location (zone): ____________  SIC Code: ____________
Travel Day: ______________________
Month / Day
Company or Name of Owner (name on registration):
________________________________________________________________________________
Address of location where vehicle was based at beginning of travel day:
________________________________________________________________________________
(Street Address or Nearest Intersection)
City                                                           State                                                                 ZIP
Vehicle Make: ______________________
Vehicle Model: ______________________
Vehicle Year: ______________________
Vehicle Fuel Type: 1) □ Leaded Gas 2) □ Unleaded Gas  3) □ Diesel  4) □ Propane
5) □ Other ______________________(Specify)
Vehicle Type 1) □ Cargo / Freight Transport Vehicle
2) □ Service Vehicle (i.e. any vehicle not used for transporting cargo or freight
Vehicle Classification:
1) □ Passenger Car                        6) □ Single Unit 3-axle (10 wheels)
2) □ Pick-up                             7) □ Single Unit 4-axle (14 wheels)
3) □ Van (Passenger or Mini)             8) □ Semi (all tractor trailer combinations)
4) □ Sport Utility Vehicle (SUV)         9) □ Other ______________________
5) □ Single Unit 2-axle (6 wheels)
Gross Vehicle Weight: _______________ pounds
Beginning Odometer Reading: _______________  Total Number of Trips: _______________
THE PLACE MY TRAVEL BEGAN TODAY WAS:

- (1) Work / Base Location
- (6) Home
- (7) Other Location (Specify Type of Place, see codes below) ____________________

(Street address or nearest intersection for place travel began)

(City, state, zip code)

When you left the above location was your vehicle: □ Fully Loaded □ Partially Loaded □ Empty
If loaded, what is the total weight in pounds of the cargo being transported? ____________

RECORD EVERY PLACE YOU GO, INCLUDING QUICK STOPS

<table>
<thead>
<tr>
<th>NAME of Place:</th>
<th>Address including city, state, and zip OR Nearest street intersection or Landmark</th>
<th>Activity of Place</th>
<th>Time of Arrival</th>
<th>Time of Departure</th>
<th>Is this the work / base location for this vehicle?</th>
<th>Type of Cargo</th>
<th>Cargo Weight (in Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLACE 1</td>
<td>Arrive: ________ am/pm Depart: ________ am/pm</td>
<td></td>
<td></td>
<td></td>
<td>- Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLACE 2</td>
<td>Arrive: ________ am/pm Depart: ________ am/pm</td>
<td></td>
<td></td>
<td></td>
<td>- Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLACE 3</td>
<td>Arrive: ________ am/pm Depart: ________ am/pm</td>
<td></td>
<td></td>
<td></td>
<td>- Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TRIP PURPOSE OPTIONS

1. Base Location / Return to Base Location
2. Delivery
3. Pick-up
4. Pick-up and Delivery
5. Maintenance (fuel, oil, etc.)
6. Driver Needs (lunch, etc.)
7. Service related business
8. Other (Please specify)
9. Medical / Hospital
10. Educational (12th grade or less)
11. Office Building (Non-Government)
12. Retail / Shopping
13. Industrial/Manufacturing
14. Other (specify)
15. Education (college, trade)
16. Government Office / Building
17. Service related business
18. Residential
19. Other
20. Intermodal Facility
21. Warehouse
22. Distribution Center
23. Construction Site
24. Federal Facility
25. Other

ACTIVITY/TYPE OF PLACE OPTIONS

1. Education (college, trade)
2. Government Office / Building
3. Service related business
4. Residential
5. Other
6. Intermodal Facility
7. Warehouse
8. Distribution Center
9. Construction Site
10. Federal Facility
11. Other
## WORKPLACE VEHICLES OWNED/LEASED SURVEY – FORM F (continued)

**VEHICLE LICENSE #: _____________**

**RECORD the following information about each place**

<table>
<thead>
<tr>
<th>NAME of Place:</th>
<th>Address including city, state, and zip OR Nearest street intersection or Landmark</th>
<th>What time did you arrive and depart this location? (record exact times)</th>
<th>Activity: What are you doing at this location? (see options below)</th>
<th>Type of Activity at This Location (see options below)</th>
<th>Is this the work / base location for this vehicle?</th>
<th>Type of Cargo (see options below)</th>
<th>Cargo Weight (in Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLACE 4</td>
<td></td>
<td>Arrive: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - Yes</td>
<td>Delivery</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depart: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - No</td>
<td>Picked Up</td>
<td></td>
</tr>
<tr>
<td>PLACE 5</td>
<td></td>
<td>Arrive: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - Yes</td>
<td>Delivery</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depart: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - No</td>
<td>Picked Up</td>
<td></td>
</tr>
<tr>
<td>PLACE 6</td>
<td></td>
<td>Arrive: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - Yes</td>
<td>Delivery</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depart: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - No</td>
<td>Picked Up</td>
<td></td>
</tr>
<tr>
<td>PLACE 7</td>
<td></td>
<td>Arrive: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - Yes</td>
<td>Delivery</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depart: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - No</td>
<td>Picked Up</td>
<td></td>
</tr>
<tr>
<td>PLACE 8</td>
<td></td>
<td>Arrive: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - Yes</td>
<td>Delivery</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depart: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - No</td>
<td>Picked Up</td>
<td></td>
</tr>
<tr>
<td>PLACE 9</td>
<td></td>
<td>Arrive: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - Yes</td>
<td>Delivery</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depart: __________ am/pm</td>
<td></td>
<td></td>
<td>□ - No</td>
<td>Picked Up</td>
<td></td>
</tr>
</tbody>
</table>

### TRIP PURPOSE OPTIONS

1. Base Location / Return to Base Location
2. Delivery
3. Pick-up
4. Pick-up and Delivery
5. Maintenance (fuel, oil, etc.)
6. Driver Needs (lunch, etc.)
7. Service related business
8. Other (Please specify)

### ACTIVITY/TYPE OF PLACE OPTIONS

1. Office Building (Non-Government)
2. Retail / Shopping
3. Industrial/Manufacturing
4. Medical / Hospital
5. Education (12th grade or less)
6. Education (college, trade)
7. Government Office / Building
8. Residential
9. Airport
10. Intermodal Facility
11. Warehouse
12. Distribution Center
13. Construction Site
14. Other (specify)
15. Refused / Unknown
### WORKPLACE VEHICLES OWNED/LEASED SURVEY – FORM F

**VEHICLE LICENSE #:** __________

**RECORD** the following information about each place:

<table>
<thead>
<tr>
<th>NAME of Place:</th>
<th>Address including city, state, and zip</th>
<th>OR</th>
<th>Nearest street intersection or Landmark</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PLACE 10</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PLACE 11</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PLACE 12</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PLACE 13</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PLACE 14</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PLACE 15</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### What time did you arrive and depart this location? (record exact times)

- **Arrive:** ________ am/pm
- **Depart:** ________ am/pm

#### Activity

- **What are you doing at this location?**

#### Type of Activity at This Location (see options below)

- □ - Yes
- □ - No

#### Is this the work/base location for this vehicle?

- □ - Yes
- □ - No

#### Type of Cargo (see options below)

- □ - Yes
- □ - No

#### Cargo Weight (in Pounds)

<table>
<thead>
<tr>
<th>Cargo Weight</th>
<th>Delivery</th>
<th>Picked Up</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### TRIP PURPOSE OPTIONS

<table>
<thead>
<tr>
<th>Record Type 21</th>
<th>Place Name</th>
<th>Activity/Type of Place Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Base Location / Return to Base Location</td>
<td>(5) Maintenance (fuel, oil, etc.)</td>
<td>(1) Office Building (Non-Government)</td>
</tr>
<tr>
<td>(2) Delivery</td>
<td>(6) Driver Needs (lunch, etc.)</td>
<td>(2) Retail / Shopping</td>
</tr>
<tr>
<td>(3) Pick-up</td>
<td>(7) Service related business</td>
<td>(3) Industrial/Manufacturing</td>
</tr>
<tr>
<td>(4) Pick-up and Delivery</td>
<td>(8) Other (Please specify)</td>
<td>(4) Medical / Hospital</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(5) Education (12th grade or less)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(6) Education (college, trade)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(7) Government Office / Building</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(8) Residential</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(9) Construction Site</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10) Airport</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(11) Construction Site</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(12) Distribution Center</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(13) Construction Site</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(14) Other (specify)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(15) Refused / Unknown</td>
</tr>
<tr>
<td>Place</td>
<td>Name of Place</td>
<td>Address including city, state, and zip</td>
</tr>
<tr>
<td>-------</td>
<td>---------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>16</td>
<td></td>
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<tr>
<td>17</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
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<td></td>
</tr>
</tbody>
</table>

Additional Trips Not Recorded

<table>
<thead>
<tr>
<th>Trip Purpose Options</th>
<th>Type of Place Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Base Location / Return to Base Location</td>
<td>(1) Office Building (Non-Government)</td>
</tr>
<tr>
<td>(2) Delivery</td>
<td>(2) Retail / Shopping</td>
</tr>
<tr>
<td>(3) Pick-up</td>
<td>(3) Industrial/Manufacturing</td>
</tr>
<tr>
<td>(4) Pick-up and Delivery</td>
<td>(4) Medical / Hospital</td>
</tr>
<tr>
<td>(5) Education (12th grade or less)</td>
<td>(5) Education (college, trade)</td>
</tr>
<tr>
<td>(6) Driver Needs (lunch, etc.)</td>
<td>(6) Education (college, trade)</td>
</tr>
<tr>
<td>(7) Service related business</td>
<td>(7) Government Office / Building</td>
</tr>
<tr>
<td>(8) Other (Please specify)</td>
<td>(8) Residential</td>
</tr>
<tr>
<td>(9) Airport</td>
<td>(9) Airport</td>
</tr>
<tr>
<td>(10) Intermodal Facility</td>
<td>(10) Intermodal Facility</td>
</tr>
<tr>
<td>(11) Warehouse</td>
<td>(11) Warehouse</td>
</tr>
<tr>
<td>(12) Distribution Center</td>
<td>(12) Distribution Center</td>
</tr>
<tr>
<td>(13) Construction Site</td>
<td>(13) Construction Site</td>
</tr>
<tr>
<td>(14) Other (specify)</td>
<td>(14) Other (specify)</td>
</tr>
<tr>
<td>(99) Refused / Unknown</td>
<td>(99) Refused / Unknown</td>
</tr>
</tbody>
</table>
WORKPLACE SURVEY
Site Evaluation Form
(Example)

Site Name ___________________
Sample No. __________________
Evaluator Name _______________

Please complete the worksite information.
Use the space below to sketch the site location including driveways and parking areas for the business, office building or shopping center. Write the names and phone numbers of businesses at this site on the reverse side if needed.

☐ Free standing site: A free standing site is a business located in a building by itself AND one that has its own parking area and driveways which are not used by other businesses or by through traffic. Check this box if the business meets this criteria.

☐ Non-free standing site: A workplace located in a shopping center or office building with other businesses OR in a building by itself with a parking lot shared by other businesses or has a parking area that is used through traffic. Check this box if the business is non-free standing.

Please check all that apply:
☐ Shopping Center or Mall  ☐ Separate Parking
☐ Multi-tenant Office Building  ☐ Stand alone business
☐ On-Street Parking  ☐ Parking area used as cut through
☐ Shared parking with another business

LEGEND
This file contains the general information data collected using Form A, Workplace Establishment Survey. The data is an ASCII data file.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating type of record. Here it should be 9.</td>
</tr>
<tr>
<td>2. Month</td>
<td>3</td>
<td>4</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Month establishment was surveyed.</td>
</tr>
<tr>
<td>3. Day</td>
<td>5</td>
<td>6</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Day of month establishment was surveyed.</td>
</tr>
<tr>
<td>4. Site Number</td>
<td>7</td>
<td>10</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Unique non-zero number assigned to each establishment.</td>
</tr>
<tr>
<td>5. SIC Code</td>
<td>11</td>
<td>14</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Standard Industrial Classification of the establishment.</td>
</tr>
<tr>
<td>6. Establishment Type</td>
<td>15</td>
<td>16</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the type of establishment; 1- free standing, 2- non-free standing.</td>
</tr>
<tr>
<td>7. Urban Area Type</td>
<td>17</td>
<td>18</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the area type for the urban area where the establishment is located.</td>
</tr>
<tr>
<td>8. Region Area Type</td>
<td>19</td>
<td>20</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the area type for the Valley region where the establishment is located.</td>
</tr>
<tr>
<td>9. Employment Type</td>
<td>21</td>
<td>22</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the type of employment at the establishment. See code descriptions.</td>
</tr>
<tr>
<td>10. Name</td>
<td>23</td>
<td>52</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>Name of establishment.</td>
</tr>
<tr>
<td>11. Address</td>
<td>53</td>
<td>82</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>Address of establishment.</td>
</tr>
<tr>
<td>12. City</td>
<td>83</td>
<td>97</td>
<td>Alphanum. LJ</td>
<td>A15</td>
<td>City where establishment is located.</td>
</tr>
<tr>
<td>14. Longitude</td>
<td>103</td>
<td>112</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Longitude of establishment’s address. If unknown, it should be coded 888.8888.</td>
</tr>
<tr>
<td>15. Latitude</td>
<td>113</td>
<td>122</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of establishment’s address. If unknown, it should be coded 888.8888.</td>
</tr>
<tr>
<td>16. Study Area ID</td>
<td>123</td>
<td>124</td>
<td>Alphanum LJ</td>
<td>A2</td>
<td>Code identifying the MPO study area in which the workplace is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County., R=rural</td>
</tr>
<tr>
<td>17. Workplace Zone</td>
<td>125</td>
<td>129</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Urban zone number where establishment is located.</td>
</tr>
<tr>
<td>18. Region Zone</td>
<td>130</td>
<td>134</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Region zone number where establishment is located.</td>
</tr>
<tr>
<td>19. Hours of Operation</td>
<td>135</td>
<td>136</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Number of hours in operation during a normal weekday.</td>
</tr>
<tr>
<td>20. Number of Vehicles</td>
<td>137</td>
<td>142</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Total number of vehicles entering and exiting the establishment during the 24 hours the travel survey was conducted.</td>
</tr>
<tr>
<td>21. Number of Persons</td>
<td>143</td>
<td>149</td>
<td>Numeric RJ</td>
<td>I7</td>
<td>Total number of persons counted entering and exiting the establishment during the 24 hours the travel survey was conducted.</td>
</tr>
<tr>
<td>22. Cargo Transport Vehicles</td>
<td>150</td>
<td>154</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Total number of commercial cargo transport vehicles counted entering and exiting the establishment during the 24 hours the travel survey was conducted.</td>
</tr>
<tr>
<td>23. Service Vehicles</td>
<td>155</td>
<td>159</td>
<td>I5</td>
<td>Total number of commercial service vehicles counted entering and exiting the establishment during the 24 hours the travel survey was conducted.</td>
<td></td>
</tr>
<tr>
<td>24. Total Employment</td>
<td>160</td>
<td>164</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Total number of persons (full and part time) employed at the establishment.</td>
</tr>
<tr>
<td>25. Employees at Work</td>
<td>165</td>
<td>169</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Total number of employees at work on day the travel survey was conducted.</td>
</tr>
<tr>
<td>26. Number of Shifts</td>
<td>170</td>
<td>171</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Number of work shifts at establishment.</td>
</tr>
<tr>
<td>27. Employees per Shift</td>
<td>172</td>
<td>176</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Number of employees per work shift.</td>
</tr>
<tr>
<td>28. Parking Spaces</td>
<td>177</td>
<td>182</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Number of parking spaces.</td>
</tr>
<tr>
<td>29. Parking Cost</td>
<td>183</td>
<td>189</td>
<td>Numeric RJ</td>
<td>F7.2</td>
<td>Cost per hour of parking.</td>
</tr>
<tr>
<td>30. Loading Docks</td>
<td>190</td>
<td>191</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Number of loading docks at establishment.</td>
</tr>
<tr>
<td>31. Deliveries</td>
<td>192</td>
<td>194</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Number of deliveries to establishment on day of travel survey.</td>
</tr>
<tr>
<td>32. Delivery Hours</td>
<td>195</td>
<td>197</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Hours allowed for deliveries.</td>
</tr>
<tr>
<td>33. Bus Routes</td>
<td>198</td>
<td>199</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Number of bus routes serving the establishment.</td>
</tr>
<tr>
<td>34. Number of Bus Stops</td>
<td>200</td>
<td>204</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Number of bus stops serving the establishment.</td>
</tr>
<tr>
<td>35. Cars Owned/Leased</td>
<td>205</td>
<td>209</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Number of cars owned or leased by establishment for business purposes.</td>
</tr>
<tr>
<td>36 Vans Owned/Leased</td>
<td>210</td>
<td>214</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Number of vans owned or leased by establishment for business purposes.</td>
</tr>
<tr>
<td>37. SUV’s Owned/Leased</td>
<td>215</td>
<td>219</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Number of SUVs owned or leased by establishment for business purposes.</td>
</tr>
<tr>
<td>38. Pickup Trucks Owned/Leased</td>
<td>220</td>
<td>224</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Number of pickup trucks owned or leased by establishment for business purposes.</td>
</tr>
<tr>
<td>39. Cargo Transport Vehicles Owned/Leased</td>
<td>225</td>
<td>229</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Number of cargo transport vehicles owned or leased by establishment for business purposes.</td>
</tr>
<tr>
<td>40. Service Vehicles Owned/Leased</td>
<td>230</td>
<td>234</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Number of service vehicles owned or leased by establishment for business purposes.</td>
</tr>
<tr>
<td>41. Form</td>
<td>235</td>
<td>240</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Form number</td>
</tr>
</tbody>
</table>
### Employment Type

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Office (Non Government)</td>
</tr>
<tr>
<td>2</td>
<td>Retail / Restaurant</td>
</tr>
<tr>
<td>3</td>
<td>Industrial / Manufacturing</td>
</tr>
<tr>
<td>4</td>
<td>Medical</td>
</tr>
<tr>
<td>5</td>
<td>Education – Day Care / K-12&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>6</td>
<td>Education – College, trade, other</td>
</tr>
<tr>
<td>7</td>
<td>Government</td>
</tr>
<tr>
<td>8</td>
<td>Not used</td>
</tr>
<tr>
<td>9</td>
<td>Other</td>
</tr>
<tr>
<td>99</td>
<td>Unknown/Refused</td>
</tr>
</tbody>
</table>
This file contains the household/individual information data collected using Form B, Part 1, Workplace Employee Survey. The data is an ASCII data file.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating type of record. Here it should be 5.</td>
</tr>
<tr>
<td>2. Month</td>
<td>3</td>
<td>4</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Month of travel day.</td>
</tr>
<tr>
<td>3. Day</td>
<td>5</td>
<td>6</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Day of the month of travel.</td>
</tr>
<tr>
<td>4. Site Number</td>
<td>7</td>
<td>10</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Unique non-zero number assigned to the workplace where this employee works.</td>
</tr>
<tr>
<td>5. Sample Number</td>
<td>11</td>
<td>15</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Unique non-zero number assigned to this sample (i.e. employee). This number will be assigned to the form handed out to the employee to complete and return.</td>
</tr>
<tr>
<td>6. Address</td>
<td>16</td>
<td>45</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>Home street address of the employee.</td>
</tr>
<tr>
<td>7. City</td>
<td>46</td>
<td>75</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>City where employee lives.</td>
</tr>
<tr>
<td>8. Study Area County</td>
<td>76</td>
<td>77</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating study area county where employee lives. 1=Cameron; 2=Hidalgo; 3=Other</td>
</tr>
<tr>
<td>9. Other County</td>
<td>78</td>
<td>92</td>
<td>Alphanum. LJ</td>
<td>A15</td>
<td>If county of residence is coded as other in item 8, this field should contain the name of the county the person lives in.</td>
</tr>
<tr>
<td>11. State Zone Ind.</td>
<td>98</td>
<td>98</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>If employee lives in a county that is not in the study area, but within Texas, this field should contain the letter &quot;S&quot;. Otherwise the field should be blank.</td>
</tr>
<tr>
<td>12. Study Area ID</td>
<td>99</td>
<td>100</td>
<td>Alphanum LJ</td>
<td>A2</td>
<td>Code identifying the MPO study area in which the employee resides. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural</td>
</tr>
<tr>
<td>13. Home Zone</td>
<td>101</td>
<td>105</td>
<td>Numeric RJ</td>
<td>i5</td>
<td>Urban study area zone number where employee lives. Unknown zone numbers in a study area county should be coded 8888. Mexico locations should be coded as 7777. External locations outside of a study area county but within Texas should be coded to the state zone number. External locations outside the study area but within Texas that are unknown should be coded 6666. External locations outside Texas and Mexico should be coded 9999.</td>
</tr>
<tr>
<td>14. Region Zone</td>
<td>106</td>
<td>110</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone number where employee lives.</td>
</tr>
<tr>
<td>15. Longitude</td>
<td>111</td>
<td>120</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Longitude of employee’s home address. If address is in Mexico, this should be coded as 7777.7777. If address is outside Texas and not in Mexico, this should be coded 9999.9999. If unknown but in the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded 666.6666.</td>
</tr>
<tr>
<td>16. Latitude</td>
<td>121</td>
<td>130</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of employee’s home address. If address is in Mexico, this should be coded as 7777.7777. If address is outside Texas and not in Mexico, this should be coded 9999.9999. If unknown but in the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded 666.6666.</td>
</tr>
<tr>
<td>17. Number of Persons</td>
<td>131</td>
<td>133</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Number of persons residing at employee’s home address.</td>
</tr>
<tr>
<td>18. Number Employed</td>
<td>134</td>
<td>135</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Number of persons residing at employee’s home address that are employed (including the person completing the form). This field is blank.</td>
</tr>
<tr>
<td>20. Vehicles</td>
<td>138</td>
<td>139</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the combined annual household income of all members of this household. See code definitions below.</td>
</tr>
<tr>
<td>21. Income</td>
<td>140</td>
<td>141</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Household Income Codes</td>
</tr>
</tbody>
</table>

Household Income Codes:

1 – Less than $5,000  
2 - $5,000 to $9,999  
3 - $10,000 to $14,999  
4 - $15,000 to $19,999  
5 - $20,000 to $24,999  
6 - $25,000 to $29,999  
7 - $30,000 to $34,999  
8 - $35,000 to $39,999  
9 - $40,000 to $49,999  
10 - $50,000 to $59,999  
11 - $60,000 to $74,999  
12 - $75,000 to $99,999  
13 - $100,000 to $124,999  
14 - $125,000 to $149,999  
15 - $150,000 or more  
98 – Don’t Know  
99 - Refused
The above record is followed by records containing the vehicle information completed by the employee. There should be one record for each vehicle in the following ASCII format.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating type of record. Here it should be 6.</td>
</tr>
<tr>
<td>2. Blank</td>
<td>3</td>
<td>6</td>
<td></td>
<td></td>
<td>This field should be blank.</td>
</tr>
<tr>
<td>3. Site Number</td>
<td>7</td>
<td>10</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Unique non-zero number assigned to the workplace where this employee works (Same as above).</td>
</tr>
<tr>
<td>4. Sample Number</td>
<td>11</td>
<td>15</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Unique non-zero number assigned to this sample (i.e. employee). This number will be assigned to the form handed out to the employee to complete and return (Same as above).</td>
</tr>
<tr>
<td>5. Vehicle Number</td>
<td>16</td>
<td>16</td>
<td>Numeric RJ</td>
<td>I1</td>
<td>Unique non-zero number assigned to the vehicle.</td>
</tr>
<tr>
<td>6. Year</td>
<td>17</td>
<td>20</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Year vehicle was manufactured.</td>
</tr>
<tr>
<td>7. Make</td>
<td>21</td>
<td>45</td>
<td>Alphanum. LJ</td>
<td>A25</td>
<td>Make of vehicle used for trip.</td>
</tr>
<tr>
<td>8. Model</td>
<td>46</td>
<td>70</td>
<td>Alphanum. LJ</td>
<td>A25</td>
<td>Model of vehicle used for trip.</td>
</tr>
<tr>
<td>9. Fuel Type</td>
<td>71</td>
<td>72</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating type of fuel used by vehicle; 1-Diesel, 2-Gas, 3-Other, 4-No Response or Unknown.</td>
</tr>
<tr>
<td>10. Other Description</td>
<td>73</td>
<td>82</td>
<td>Alphanum. LJ</td>
<td>A10</td>
<td>Description of fuel used by vehicle if fuel type is coded as “other”.</td>
</tr>
<tr>
<td>11. Vehicle Type</td>
<td>83</td>
<td>85</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Code indicating the type of vehicle. See code definitions below.</td>
</tr>
<tr>
<td>12. Other Vehicle Type</td>
<td>86</td>
<td>105</td>
<td>Alphanum. LJ</td>
<td>A20</td>
<td>If vehicle type is coded as other, this field should contain the description of the vehicle type</td>
</tr>
<tr>
<td>13. Beginning Mileage</td>
<td>106</td>
<td>113</td>
<td>Numeric RJ</td>
<td>I8</td>
<td>Odometer reading on vehicle at beginning of travel day.</td>
</tr>
<tr>
<td>14. Ending Mileage</td>
<td>114</td>
<td>121</td>
<td>Numeric RJ</td>
<td>I8</td>
<td>Odometer reading on vehicle at end of travel day.</td>
</tr>
</tbody>
</table>

**Item 11. Vehicle Type**

1. Motorcycle
2. Car
3. Van
4. Sport Utility Vehicle
5. Pickup Truck
6. Commercial Vehicle
7. Other
99 Refused/Unknown
This file contains the travel information for employees surveyed in the Workplace survey. The data is an ASCII data file format.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating type of record. Here it should be 7.</td>
</tr>
<tr>
<td>2. Month</td>
<td>3</td>
<td>4</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Month that travel occurred.</td>
</tr>
<tr>
<td>3. Day</td>
<td>5</td>
<td>6</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Day of the month that travel occurred.</td>
</tr>
<tr>
<td>4. Site Number</td>
<td>7</td>
<td>10</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Unique non-zero number assigned to the establishment where this employee works.</td>
</tr>
<tr>
<td>5. Sample Number</td>
<td>11</td>
<td>15</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Trip number. Beginning trip will be recorded as 0 with each subsequent trip numbered sequentially as 1,2,3, etc.</td>
</tr>
<tr>
<td>6. Trip Number</td>
<td>16</td>
<td>17</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Location. Description of location. This field contains the name/description of the location. For example, if this is the beginning of the trip and the location was home, this would have home in it.</td>
</tr>
<tr>
<td>7. Location</td>
<td>18</td>
<td>47</td>
<td>Alphanumeric</td>
<td>A30</td>
<td>Street address of location.</td>
</tr>
<tr>
<td>8. Address</td>
<td>48</td>
<td>77</td>
<td>Alphanumeric</td>
<td>A30</td>
<td>City where location is.</td>
</tr>
<tr>
<td>9. City</td>
<td>78</td>
<td>92</td>
<td>Alphanumeric</td>
<td>A15</td>
<td>Zip code for location.</td>
</tr>
<tr>
<td>10. Zip Code</td>
<td>93</td>
<td>97</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Longitude of location. If address is outside study area but in Texas, this should be coded 666.6666. If unknown but in study area, it should be coded 888.8888. If outside Texas but not Mexico, it should be coded 999.9999. If in Mexico, it should be coded 777.7777.</td>
</tr>
<tr>
<td>11. Longitude</td>
<td>98</td>
<td>107</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of location. If address is outside study area but in Texas, this should be coded 666.6666. If unknown but in study area, it should be coded 888.8888. If outside Texas but not Mexico, it should be coded 999.9999. If in Mexico, it should be coded 777.7777.</td>
</tr>
<tr>
<td>12. Latitude</td>
<td>108</td>
<td>117</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>If location is outside study area county and within Texas, this field should contain the letter &quot;S&quot; indicating a state zone number is coded in the next field.</td>
</tr>
<tr>
<td>13. State Zone Ind</td>
<td>118</td>
<td>118</td>
<td>Alphanumeric</td>
<td>A1</td>
<td>Code identifying the MPO study area in which the address is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural</td>
</tr>
<tr>
<td>14. Study Area ID</td>
<td>119</td>
<td>120</td>
<td>Alphanumeric</td>
<td>A2</td>
<td>Urban zone number of location. Locations in Mexico should be coded 7777. Locations outside of study area county but within Texas should be coded as 8888. Unknown zone numbers within a study area county should be coded as 8888. Unknown zone numbers outside of a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.</td>
</tr>
<tr>
<td>15. Zone Number</td>
<td>121</td>
<td>125</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>If location is outside study area county, this is the name of the street/highway/bridge the person was on when they entered/left the study area.</td>
</tr>
<tr>
<td>16. Region Zone Number</td>
<td>126</td>
<td>130</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Code indicating if this location is where person normally works at or out of; 1-Yes, 2-No, 99-Unknown / No Response.</td>
</tr>
<tr>
<td>17. Road</td>
<td>131</td>
<td>160</td>
<td>Alphanumeric</td>
<td>A30</td>
<td>Minute that employee arrived at this location. If this is trip number 0, this field should be blank.</td>
</tr>
<tr>
<td>18. Work Location</td>
<td>161</td>
<td>162</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Hour that employee arrived at this location. This hour should be in terms of military time. If this is trip number 0, this field should be blank.</td>
</tr>
<tr>
<td>19. Arrival Hour</td>
<td>163</td>
<td>165</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Minute that employee departed this location. This hour should be in terms of military time. If this is the last location (i.e. trip), this field should be blank.</td>
</tr>
<tr>
<td>20. Arrival Minute</td>
<td>166</td>
<td>168</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Code indicating mode of travel used in traveling to this location. See travel mode code definitions below.</td>
</tr>
<tr>
<td>21. Departure Hour</td>
<td>169</td>
<td>171</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Description of trip purpose if purpose code is “other”.</td>
</tr>
<tr>
<td>22. Departure Minute</td>
<td>172</td>
<td>174</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Description of trip purpose if purpose code is “other”.</td>
</tr>
<tr>
<td>23. Activity Type</td>
<td>175</td>
<td>176</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Type of activity at this location. 0 – Residential, 1-Basic, 2- Retail, 3 – Services, and 4 – other.</td>
</tr>
<tr>
<td>24. Other Activity</td>
<td>177</td>
<td>191</td>
<td>Alphanumeric</td>
<td>A15</td>
<td>Description of activity at location if activity type is coded as 4- other.</td>
</tr>
<tr>
<td>25. Trip Purpose</td>
<td>192</td>
<td>193</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating purpose of trip. See definitions below. For trip number 0, this should be coded as 1 if it began at home, 2 if it began at work, or as 99 if it began at another location.</td>
</tr>
<tr>
<td>26. Other Purpose</td>
<td>194</td>
<td>208</td>
<td>Alphanumeric</td>
<td>A15</td>
<td>Description of trip purpose if purpose code is “other”.</td>
</tr>
<tr>
<td>27. Mode</td>
<td>209</td>
<td>210</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>See travel mode code definitions below.</td>
</tr>
</tbody>
</table>

**Rio Grande Valley Workplace Travel Survey**
<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>28. Other Mode</td>
<td>211</td>
<td>225</td>
<td>Alphanum. LJ</td>
<td>A15</td>
<td>Description of mode of travel if mode is coded as “other”.</td>
</tr>
<tr>
<td>29. Number People</td>
<td>226</td>
<td>227</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>If mode of travel was driver, passenger, taxi, commercial vehicle, or motorcycle, this is the number of persons in the vehicle, including the person completing the form. A zero/blank should be recorded for all other modes of travel.</td>
</tr>
<tr>
<td>30. Vehicle Year</td>
<td>228</td>
<td>232</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>If mode was driver, passenger, or commercial vehicle, this is the year vehicle was manufactured. The information may come from record type 6 of employee survey.</td>
</tr>
<tr>
<td>32. Vehicle Model</td>
<td>258</td>
<td>282</td>
<td>Alphanum. LJ</td>
<td>A25</td>
<td>Model of vehicle used for trip.</td>
</tr>
<tr>
<td>34. Cost Basis</td>
<td>289</td>
<td>290</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Cost of parking if parking was paid.</td>
</tr>
<tr>
<td>35. Bus Fare</td>
<td>291</td>
<td>296</td>
<td>Numeric RJ</td>
<td>F6.2</td>
<td>Bus fare cost if trip was by bus.</td>
</tr>
<tr>
<td>36. Arrival Mode</td>
<td>297</td>
<td>298</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the mode used by the person to get to the location where they boarded the bus. This should be zero/blank for all modes of travel except bus. See code definitions.</td>
</tr>
<tr>
<td>37. Other Arrival Mode</td>
<td>299</td>
<td>313</td>
<td>Alphanum. LJ</td>
<td>A15</td>
<td>Description of arrival mode of travel if arrival is coded as “other”.</td>
</tr>
</tbody>
</table>

**Item 20 Trip Purpose Codes**

1 – Leave / Return Home
2 – Go to Work
3 – Work Related
4 – School
5 – Social / Recreation
6 – Eat Out
7 – Shop
8 – Pick up / Drop off Passenger
9 – Change Travel Mode
10 – Personal Business
11 – Other
99 – No Response

**Item 22 Mode of Transportation Codes**

1 – Driver (car/truck/van)
2 – Passenger (car/truck/van)
3 – Walk
4 – Bicycle
5 – Bus / Public Transportation
6 – School Bus
7 – Taxi / Limo
8 – Commercial Cargo Transport Vehicle
9 – Commercial Service Vehicle
10 – Motorcycle
11 – Other
99 – No Response

**Item 31 Arrival Mode Codes**

1 – Drove Auto and Parked
2 – Dropped Off
3 – Walked
4 – Carpoled
5 – Other
This file contains the travel data for non-employees (visitors) at surveyed free standing work establishments using Form C, Non-Employee Survey, Free Standing Workplace. The data is an ASCII data file.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code which indicates the type of record, here it should be 8.</td>
</tr>
<tr>
<td>2. Month</td>
<td>3</td>
<td>4</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Month workplace was surveyed.</td>
</tr>
<tr>
<td>3. Day</td>
<td>5</td>
<td>6</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Day of the month workplace was surveyed.</td>
</tr>
<tr>
<td>4. Site Number</td>
<td>7</td>
<td>10</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Unique non-zero number assigned to the establishment where these interviews were conducted.</td>
</tr>
<tr>
<td>5. Person Number</td>
<td>11</td>
<td>11</td>
<td>Numeric RJ</td>
<td>I1</td>
<td>Number of person being interviewed. This corresponds to the column number on the interview form.</td>
</tr>
<tr>
<td>6. Residence</td>
<td>12</td>
<td>36</td>
<td>Alphanum. LJ</td>
<td>A25</td>
<td>Name of city, county or country where person lives.</td>
</tr>
<tr>
<td>7. Residence Code</td>
<td>37</td>
<td>38</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating residence is not located within a county in the study area. 1-Yes, 2-No, 99-Refused / Unknown.</td>
</tr>
<tr>
<td>8. Overnight Stay</td>
<td>39</td>
<td>40</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>If residence code is 1, this field entry is a code indicating if person stayed over night in the study area; 1-Yes, 2-No, 99-Refused / Unknown.</td>
</tr>
<tr>
<td>9. Place Stayed</td>
<td>41</td>
<td>70</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>If person stayed over night, this field contains the name of the place the person stayed. If person did not stay over night, this field should be blank.</td>
</tr>
<tr>
<td>10. Entry Road</td>
<td>71</td>
<td>100</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>If person did not stay over night, this field should contain the name of the street/highway/bridge the person was on when they entered the study area. If person stayed over night, this field should be blank. Note that airport is a valid entry.</td>
</tr>
<tr>
<td>11. Home Address</td>
<td>101</td>
<td>130</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>Address where person lives. If person gives nearest intersecting streets, this should be the first street name.</td>
</tr>
<tr>
<td>12. Intersecting Street</td>
<td>131</td>
<td>160</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>If person gave nearest intersecting streets for their home address, this field should have the second street name, otherwise it is blank.</td>
</tr>
<tr>
<td>13. Longitude</td>
<td>161</td>
<td>170</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Longitude of person’s home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas this should be coded 999.9999.</td>
</tr>
<tr>
<td>14. Latitude</td>
<td>171</td>
<td>180</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of person’s home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas , this should be coded 999.9999.</td>
</tr>
<tr>
<td>15. State Zone Indicator</td>
<td>181</td>
<td>181</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>If unknown but in Texas, it should be coded as 666.6666. If unknown but in Texas, it should be coded as 666.6666. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>17. Zone</td>
<td>184</td>
<td>188</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Urban zone number where person lives. Locations in Mexico should be coded 7777. Locations outside of the study area but within Texas should be coded as 7777.</td>
</tr>
<tr>
<td>18. Region Zone No.</td>
<td>189</td>
<td>193</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Locations outside of the study area but within Texas should be coded as 7777. Locations inside of the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.</td>
</tr>
<tr>
<td>19. Origin Code</td>
<td>194</td>
<td>195</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Regional zone number where person lives. Code indicating origin of trip: 1-Home, 2-Other, Location that trip originated from (i.e. name, address, etc).</td>
</tr>
<tr>
<td>20. Origin Location</td>
<td>196</td>
<td>255</td>
<td>Alphanum. LJ</td>
<td>A60</td>
<td>Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas , this should be coded 999.9999.</td>
</tr>
<tr>
<td>21. Longitude</td>
<td>256</td>
<td>265</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>If unknown but in Texas, it should be coded as 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
</tbody>
</table>
## Visitor Survey, Free Standing Workplace Survey, Form C Format, Continued.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>22. Latitude</td>
<td>266</td>
<td>275</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>23. State Zone Indicator</td>
<td>276</td>
<td>276</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>If address not located in a county within the study area, but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.</td>
</tr>
<tr>
<td>24. Study Area ID (Origin)</td>
<td>277</td>
<td>278</td>
<td>Alphanum. LJ</td>
<td>A2</td>
<td>Code identifying the MPO study area in which the origin address is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R = rural.</td>
</tr>
<tr>
<td>25. Origin Zone</td>
<td>279</td>
<td>283</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Urban zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study area, but within Texas should be coded to the state zone system. Unknown zone numbers in a study area county should be coded as 8888. Unknown zone numbers outside of the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.</td>
</tr>
<tr>
<td>26. Regional Zone No.</td>
<td>284</td>
<td>288</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone number where trip originated.</td>
</tr>
<tr>
<td>27. Entry Facility</td>
<td>289</td>
<td>318</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>If origin is outside of a study area county, this field should contain the name of the bridge, street, or highway used to enter the study area.</td>
</tr>
<tr>
<td>28. Entry External Zone</td>
<td>319</td>
<td>323</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>If origin is outside of the study area, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.</td>
</tr>
<tr>
<td>29. Arrival Hour</td>
<td>324</td>
<td>326</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Hour person arrived at this site. This hour should be in terms of military time.</td>
</tr>
<tr>
<td>30. Arrival Minute</td>
<td>327</td>
<td>329</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Minute person arrived at this site.</td>
</tr>
<tr>
<td>31. Mode</td>
<td>330</td>
<td>331</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating mode of travel to this location. See definitions below.</td>
</tr>
<tr>
<td>32. Other Mode</td>
<td>332</td>
<td>341</td>
<td>Alphanum. LJ</td>
<td>A10</td>
<td>If mode is coded “other”, this field should contain a description of the mode given.</td>
</tr>
<tr>
<td>33. Number Persons</td>
<td>342</td>
<td>343</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>If mode of travel was driver, passenger, taxi, commercial vehicle or motorcycle, this is the number of persons in the vehicle including the person being interviewed. This field is blank for all other modes.</td>
</tr>
<tr>
<td>34. Bus Fare</td>
<td>344</td>
<td>349</td>
<td>Numeric RJ</td>
<td>F6.2</td>
<td>If mode of travel was bus, this is the bus fare paid.</td>
</tr>
<tr>
<td>35. Trip Purpose</td>
<td>350</td>
<td>351</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating purpose of trip. See code definitions below.</td>
</tr>
<tr>
<td>36. Other Purpose</td>
<td>352</td>
<td>361</td>
<td>Alphanum. LJ</td>
<td>A10</td>
<td>If purpose is coded as “other”, this contains description of purpose given.</td>
</tr>
<tr>
<td>37. Depart Destination</td>
<td>362</td>
<td>363</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Location of destination person is going.</td>
</tr>
<tr>
<td>38. Destination Location</td>
<td>364</td>
<td>423</td>
<td>Alphanum. LJ</td>
<td>A60</td>
<td>Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>39. Destination Longitude</td>
<td>424</td>
<td>433</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>40. Destination Latitude</td>
<td>434</td>
<td>443</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
</tbody>
</table>
### Visitor Survey, Free Standing Workplace Survey Form C Format Continued.

#### Field Columns

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>41. State Zone Indicator</td>
<td>444</td>
<td>444</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>If address is not in a study area county, but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.</td>
</tr>
<tr>
<td>42. Study Area ID (Dest.)</td>
<td>445</td>
<td>446</td>
<td>Alphanum. LJ</td>
<td>A2</td>
<td>Code identifying the MPO study area in which the destination address is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural Urban zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in a study area county, but within Texas should be coded to the state zone system. Unknown zone numbers in a study area county should be coded as 8888. Unknown zone numbers not in a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999. Regional zone number of destination.</td>
</tr>
<tr>
<td>43. Destination Zone</td>
<td>447</td>
<td>451</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Urban zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in a study area county, but within Texas should be coded to the state zone system. Unknown zone numbers in a study area county should be coded as 8888. Unknown zone numbers not in a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.</td>
</tr>
<tr>
<td>44. Region Zone No.</td>
<td>452</td>
<td>456</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone number of destination.</td>
</tr>
<tr>
<td>45. Exit Facility</td>
<td>457</td>
<td>486</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>If destination is outside of the study area, this field should contain the name of the bridge, street, or highway used to enter the study area.</td>
</tr>
<tr>
<td>46. Exit External Zone</td>
<td>487</td>
<td>491</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>If destination is outside of a study area county this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.</td>
</tr>
<tr>
<td>47. Household Size</td>
<td>492</td>
<td>494</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Number of persons living at person’s home address.</td>
</tr>
<tr>
<td>48. Vehicles Available</td>
<td>495</td>
<td>496</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Number of vehicles available to persons in household.</td>
</tr>
<tr>
<td>50. Form Number</td>
<td>499</td>
<td>504</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Survey form number which contains raw survey data.</td>
</tr>
<tr>
<td>51. Time of Survey</td>
<td>505</td>
<td>506</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Hour</td>
</tr>
<tr>
<td>52. Time of Survey</td>
<td>507</td>
<td>508</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Minute</td>
</tr>
</tbody>
</table>

#### Item 27. Mode of Transportation Codes

1 – Driver (car/truck/van)
2 – Passenger (car/truck/van)
3 – Walk
4 – Bicycle
5 – Bus / Public Transportation
6 – School Bus
7 – Taxi / Limo
8 – Commercial Cargo Transport Vehicle
9 – Commercial Service Vehicle
10 – Motorcycle
11 – Other
99. No Response

#### Item 31. Trip Purpose Codes

1 – Work Related
2 – School Related
3 – Social / Recreational / Visit
4 – Shop
5 – Eat Out
6 – Pick Up / Drop Off Passenger
7 – Change Travel Mode
8 – Delivery – Pick Up / Drop Off
9 – Other
99 – Non-Response

#### Item 43. Household Income Codes

1 – Less than $5,000
2 - $5,000 to $9,999
3 - $10,000 to $14,999
4 - $15,000 to $19,999
5 - $20,000 to $24,999
6 - $25,000 to $29,999
7 - $30,000 to $34,999
8 - $35,000 to $39,999
9 - $40,000 to $49,999
10 - $50,000 to $59,999
11 - $60,000 to $74,999
12 - $75,000 to $99,999
13 - $100,000 to $124,999
14 - $125,000 to $149,999
15 - $150,000 or more
98 – Don’t Know
99 – refused
This file contains the travel data for non-employees (visitors) at surveyed non-free standing work establishments using Form D, Non-Employee Survey, Non-Free Standing Workplace. The data is an ASCII data file.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code which indicates the type of record, here it should be 11.</td>
</tr>
<tr>
<td>Month</td>
<td>3</td>
<td>4</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Month workplace was surveyed.</td>
</tr>
<tr>
<td>Day</td>
<td>5</td>
<td>6</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Day of the month workplace was surveyed.</td>
</tr>
<tr>
<td>Site Number</td>
<td>7</td>
<td>10</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Unique non-zero number assigned to the establishment where these interviews were conducted.</td>
</tr>
<tr>
<td>Person Number</td>
<td>11</td>
<td>11</td>
<td>Numeric RJ</td>
<td>I1</td>
<td>Number of person being interviewed. This corresponds to the column number on the interview form.</td>
</tr>
<tr>
<td>Residence</td>
<td>12</td>
<td>36</td>
<td>Alphanum. LJ</td>
<td>A25</td>
<td>Name of city, county or country where person lives.</td>
</tr>
<tr>
<td>Residence Code</td>
<td>37</td>
<td>38</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating if residence is outside study area; 1-Yes, 2-No, 99-Refused / Unknown.</td>
</tr>
<tr>
<td>Overnight Stay</td>
<td>39</td>
<td>40</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>If residence code is 1, this field entry is a code indicating if person stayed over night in the study area; 1-Yes, 2-No, 99-Refused / Unknown. If residence code is 2, this field should be blank.</td>
</tr>
<tr>
<td>Place Stayed</td>
<td>41</td>
<td>70</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>If person stayed over night, this field contains the name of the place the person stayed. If person did not stay over night, this field should be blank.</td>
</tr>
<tr>
<td>Entry Road</td>
<td>71</td>
<td>100</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>If person did not stay over night, this field should contain the name of the street/highway/bridge the person was on when they entered the study area. If person stayed over night, this field should be blank. Note that airport is a valid entry.</td>
</tr>
<tr>
<td>Residence Address</td>
<td>101</td>
<td>130</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>Address where person lives. If person gives nearest intersecting streets, this should be the first street name.</td>
</tr>
<tr>
<td>Intersecting Street</td>
<td>131</td>
<td>160</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td>If person gave nearest intersecting streets for their home address, this field should have the second street name, otherwise it is blank.</td>
</tr>
<tr>
<td>Longitude</td>
<td>161</td>
<td>170</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Longitude of person’s home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888.</td>
</tr>
<tr>
<td>Latitude</td>
<td>171</td>
<td>180</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of person’s home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888.</td>
</tr>
<tr>
<td>State Zone Indicator</td>
<td>181</td>
<td>181</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>If address is outside of the study area but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.</td>
</tr>
<tr>
<td>Study Area ID</td>
<td>182</td>
<td>183</td>
<td>Alphanum. LJ</td>
<td>A2</td>
<td>Code identifying the MPO study area in which the person lives. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural.</td>
</tr>
<tr>
<td>Zone</td>
<td>184</td>
<td>188</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Urban zone number where person lives. Locations in Mexico should be coded 7777. Locations in a study area county, but within Texas should be coded to the state zone system. Unknown zone numbers in a study area county should be coded as 8888. Unknown zone numbers outside of the study area, but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.</td>
</tr>
<tr>
<td>Regional Zone No</td>
<td>189</td>
<td>193</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone where person lives.</td>
</tr>
<tr>
<td>Origin Location</td>
<td>196</td>
<td>255</td>
<td>Alphanum. LJ</td>
<td>A60</td>
<td>Location that trip originated from (i.e. name, address, etc).</td>
</tr>
</tbody>
</table>
Visitor Survey, Free Standing Workplace Survey, Form D Format, Continued.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21. Longitude</td>
<td>256</td>
<td>265</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>22. Latitude</td>
<td>266</td>
<td>275</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>23. State Zone Indicator</td>
<td>276</td>
<td>276</td>
<td>Alphanumeric</td>
<td>A1</td>
<td>If address is not in a study area county, but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.</td>
</tr>
<tr>
<td>24. Study Area ID (Origin)</td>
<td>277</td>
<td>278</td>
<td>Alphanumeric</td>
<td>A2</td>
<td>Code identifying the MPO study area in which the origin is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R = rural</td>
</tr>
<tr>
<td>25. Origin Zone</td>
<td>279</td>
<td>283</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Urban zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of Cameron/Hidalgo county but within Texas should be coded to the state zone system. Unknown zone numbers in a study area county should be coded as 8888. Unknown zone numbers not in a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.</td>
</tr>
<tr>
<td>26. Regional Zone No.</td>
<td>284</td>
<td>288</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone where trip originated.</td>
</tr>
<tr>
<td>27. Entry Facility</td>
<td>289</td>
<td>318</td>
<td>Alphanumeric</td>
<td>A30</td>
<td>If origin is outside the study area, this field should contain the name of the bridge, street, or highway used to enter the study area.</td>
</tr>
<tr>
<td>28. Entry External Zone</td>
<td>319</td>
<td>323</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>If origin is not in a study area county this field should contain the external station number associated with the bridge, street, or highway used to enter the study area. Hour person arrived at this site. This hour should be in terms of military time. Minute person arrived at this site. Code indicating mode of travel to this location. See definitions below.</td>
</tr>
<tr>
<td>29. Arrival Hour</td>
<td>324</td>
<td>326</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>If mode is coded “other”, this field should contain a description of the mode given.</td>
</tr>
<tr>
<td>30. Arrival Minute</td>
<td>327</td>
<td>329</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>If mode of travel was driver, passenger, taxi, commercial vehicle or motorcycle, this is the number of persons in the vehicle including the person being interviewed. This field is blank for all other modes.</td>
</tr>
<tr>
<td>31. Mode</td>
<td>330</td>
<td>331</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>If mode of travel was bus, this is the bus fare paid. Code indicating purpose of trip. See code definitions below.</td>
</tr>
<tr>
<td>32. Other Mode</td>
<td>332</td>
<td>341</td>
<td>Alphanumeric</td>
<td>A10</td>
<td>If purpose is coded as “other”, this contains description of purpose given.</td>
</tr>
<tr>
<td>33. Number Persons</td>
<td>342</td>
<td>343</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating if this store/establishment is the first visited in the center since arriving; 1-Yes, 2-No, 99-Refused / Unknown. Number of stores/establishments visited in this center. Number of stores/establishments in this center person plans on visiting during this trip. Code indicating destination when person departs from this site; 1-Home, 2-Other. Location of destination person is going.</td>
</tr>
<tr>
<td>34. Bus Fare</td>
<td>344</td>
<td>349</td>
<td>Numeric RJ</td>
<td>F6.2</td>
<td>Location of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>35. Trip Purpose</td>
<td>350</td>
<td>351</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating if this store/establishment is the first visited in the center since arriving; 1-Yes, 2-No, 99-Refused / Unknown. Number of stores/establishments visited in this center. Number of stores/establishments in this center person plans on visiting during this trip. Code indicating destination when person departs from this site; 1-Home, 2-Other. Location of destination person is going.</td>
</tr>
<tr>
<td>36. Other Purpose</td>
<td>352</td>
<td>361</td>
<td>Alphanumeric</td>
<td>A10</td>
<td>Code indicating purpose of trip. See code definitions below.</td>
</tr>
<tr>
<td>37. First Store</td>
<td>362</td>
<td>363</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>If purpose is coded as “other”, this contains description of purpose given.</td>
</tr>
<tr>
<td>38. Number Visited</td>
<td>364</td>
<td>365</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating if this store/establishment is the first visited in the center since arriving; 1-Yes, 2-No, 99-Refused / Unknown. Number of stores/establishments visited in this center. Number of stores/establishments in this center person plans on visiting during this trip. Code indicating destination when person departs from this site; 1-Home, 2-Other. Location of destination person is going.</td>
</tr>
<tr>
<td>39. More Visits</td>
<td>366</td>
<td>367</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating if this store/establishment is the first visited in the center since arriving; 1-Yes, 2-No, 99-Refused / Unknown. Number of stores/establishments visited in this center. Number of stores/establishments in this center person plans on visiting during this trip. Code indicating destination when person departs from this site; 1-Home, 2-Other. Location of destination person is going.</td>
</tr>
<tr>
<td>40. Depart Destination</td>
<td>368</td>
<td>369</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating if this store/establishment is the first visited in the center since arriving; 1-Yes, 2-No, 99-Refused / Unknown. Number of stores/establishments visited in this center. Number of stores/establishments in this center person plans on visiting during this trip. Code indicating destination when person departs from this site; 1-Home, 2-Other. Location of destination person is going.</td>
</tr>
<tr>
<td>41. Destination Location</td>
<td>370</td>
<td>429</td>
<td>Alphanumeric</td>
<td>A60</td>
<td>Location of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>42. Destination Longitude</td>
<td>430</td>
<td>439</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Code indicating if this store/establishment is the first visited in the center since arriving; 1-Yes, 2-No, 99-Refused / Unknown. Number of stores/establishments visited in this center. Number of stores/establishments in this center person plans on visiting during this trip. Code indicating destination when person departs from this site; 1-Home, 2-Other. Location of destination person is going.</td>
</tr>
</tbody>
</table>
Visitor Survey, Free Standing Workplace Survey Form D Format, Continued.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>43. Destination Latitude</td>
<td>440</td>
<td>449</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666. If address is not in a study area county, but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank. Code identifying the MPO study area in which the destination is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo Count, R=rural Urban zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations outside of the study area but within Texas should be coded to the state zone system. Unknown zone numbers in a study area county should be coded as 8888. Unknown zone numbers outside of the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999. Regional zone number of destination. If destination is outside of the study area, this field should contain the name of the bridge, street, or highway used to enter the study area. If destination is outside of a study area county this field should contain the external station number associated with the bridge, street, or highway used to enter the study area. Number of persons living at person’s home address. Number of vehicles available to persons in household. Code indicating household income. See code definitions. Survey form number which contains raw survey data.</td>
</tr>
<tr>
<td>44. State Zone Indicator</td>
<td>450</td>
<td>450</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td></td>
</tr>
<tr>
<td>45. Study Area ID (Dest.)</td>
<td>451</td>
<td>452</td>
<td>Alphanum. LJ</td>
<td>A2</td>
<td></td>
</tr>
<tr>
<td>46. Destination Zone</td>
<td>453</td>
<td>457</td>
<td>Numeric RJ</td>
<td>I5</td>
<td></td>
</tr>
<tr>
<td>47. Regional Zone No</td>
<td>458</td>
<td>462</td>
<td>Numeric RJ</td>
<td>I5</td>
<td></td>
</tr>
<tr>
<td>48. Exit Facility</td>
<td>463</td>
<td>492</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td></td>
</tr>
<tr>
<td>49. Exit External Zone</td>
<td>493</td>
<td>497</td>
<td>Numeric RJ</td>
<td>I5</td>
<td></td>
</tr>
<tr>
<td>50. Household Size</td>
<td>498</td>
<td>500</td>
<td>Numeric RJ</td>
<td>I3</td>
<td></td>
</tr>
<tr>
<td>51. Vehicles Available</td>
<td>501</td>
<td>502</td>
<td>Numeric RJ</td>
<td>I2</td>
<td></td>
</tr>
<tr>
<td>52. Income</td>
<td>503</td>
<td>504</td>
<td>Numeric RJ</td>
<td>I2</td>
<td></td>
</tr>
<tr>
<td>53. Form Number</td>
<td>505</td>
<td>510</td>
<td>Numeric RJ</td>
<td>I6</td>
<td></td>
</tr>
<tr>
<td>54. Time of Survey</td>
<td>511</td>
<td>512</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Hour</td>
</tr>
<tr>
<td>55. Time of Survey</td>
<td>513</td>
<td>514</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Minute</td>
</tr>
</tbody>
</table>

### Item 27. Mode of Transportation Codes

- 1 – Driver (car/truck/van)
- 2 – Passenger (car/truck/van)
- 3 – Walk
- 4 – Bicycle
- 5 – Bus / Public Transportation
- 6 – School Bus
- 7 – Taxi / Limo
- 8 – Commercial Cargo Transport Vehicle
- 9 – Commercial Service Vehicle
- 10 – Motorcycle
- 11 – Other
- 99 – No Response

### Item 31. Trip Purpose Codes

- 1 – Work Related
- 2 – School Related
- 3 – Social / Recreational / Visit
- 4 – Shop
- 5 – Eat Out
- 6 – Pick Up / Drop Off Passenger
- 7 – Change Travel Mode
- 8 – Delivery – Pick Up / Drop Off
- 9 – Other
- 99 – Non-Response
- 98 – Don’t Know
- 99 – refused

### Item 46. Household Income Codes

<table>
<thead>
<tr>
<th>Income Range</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than $5,000</td>
<td>1</td>
</tr>
<tr>
<td>$5,000 to $9,999</td>
<td>2</td>
</tr>
<tr>
<td>$10,000 to $14,999</td>
<td>3</td>
</tr>
<tr>
<td>$15,000 to $19,999</td>
<td>4</td>
</tr>
<tr>
<td>$20,000 to $24,999</td>
<td>5</td>
</tr>
<tr>
<td>$25,000 to $29,999</td>
<td>6</td>
</tr>
<tr>
<td>$30,000 to $34,999</td>
<td>7</td>
</tr>
<tr>
<td>$35,000 to $39,999</td>
<td>8</td>
</tr>
<tr>
<td>$40,000 to $49,999</td>
<td>9</td>
</tr>
<tr>
<td>$50,000 to $59,999</td>
<td>10</td>
</tr>
<tr>
<td>$60,000 to $74,999</td>
<td>11</td>
</tr>
<tr>
<td>$75,000 to $99,999</td>
<td>12</td>
</tr>
<tr>
<td>$100,000 to $124,999</td>
<td>13</td>
</tr>
<tr>
<td>$125,000 to $149,999</td>
<td>14</td>
</tr>
<tr>
<td>$150,000 or more</td>
<td>15</td>
</tr>
<tr>
<td>$50,000 to $59,999</td>
<td>10</td>
</tr>
<tr>
<td>$60,000 to $74,999</td>
<td>11</td>
</tr>
<tr>
<td>$75,000 to $99,999</td>
<td>12</td>
</tr>
<tr>
<td>$100,000 to $124,999</td>
<td>13</td>
</tr>
<tr>
<td>$125,000 to $149,999</td>
<td>14</td>
</tr>
<tr>
<td>$150,000 or more</td>
<td>15</td>
</tr>
<tr>
<td>$25,000 to $29,999</td>
<td>6</td>
</tr>
</tbody>
</table>

---

**Rio Grande Valley Work Place Travel Survey**

79
This file contains the travel data for commercial vehicles surveyed in the workplace survey using Form E, Workplace Commercial Vehicle Survey. The data is an ASCII data file.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code which indicates the type of record, here it should be 10.</td>
</tr>
<tr>
<td>2. Month</td>
<td>3</td>
<td>4</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Month workplace was surveyed.</td>
</tr>
<tr>
<td>3. Day</td>
<td>5</td>
<td>6</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Day of the month workplace was surveyed.</td>
</tr>
<tr>
<td>4. Site Number</td>
<td>7</td>
<td>10</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Non-zero number assigned to the workplace.</td>
</tr>
<tr>
<td>5. Truck Number</td>
<td>11</td>
<td>11</td>
<td>Numeric RJ</td>
<td>I1</td>
<td>Truck number surveyed. This should correspond to the column number of the survey form used to collect the data.</td>
</tr>
<tr>
<td>6. Arrival Hour</td>
<td>12</td>
<td>14</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Hour vehicle arrived at location. Must be in military time.</td>
</tr>
<tr>
<td>7. Arrival Minute</td>
<td>15</td>
<td>17</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Minute vehicle arrived at location.</td>
</tr>
<tr>
<td>8. Occupancy</td>
<td>18</td>
<td>19</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Number of people in vehicle.</td>
</tr>
<tr>
<td>9. Vehicle Classification</td>
<td>20</td>
<td>21</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the classification of the vehicle. See below for code descriptions.</td>
</tr>
<tr>
<td>10. Other Classification</td>
<td>22</td>
<td>31</td>
<td>Alphanum. LJ</td>
<td>A10</td>
<td>If vehicle classification is coded as “other”, this field should contain the description recorded on the survey form for vehicle</td>
</tr>
<tr>
<td>11. Type of Vehicle</td>
<td>32</td>
<td>33</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating type of commercial vehicle. Use 1 for cargo transport vehicle and 2 for service vehicle (i.e. all others besides cargo transport)</td>
</tr>
<tr>
<td>12. Year of Vehicle</td>
<td>34</td>
<td>38</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Year vehicle was manufactured.</td>
</tr>
<tr>
<td>14. Vehicle Fuel Type</td>
<td>47</td>
<td>48</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Type of fuel used by vehicle; 1-Leaded Gas, 2-Unleaded Gas, 3-Diesel, 4-Propane, 5-Other.</td>
</tr>
<tr>
<td>15. Other Fuel</td>
<td>49</td>
<td>58</td>
<td>Alphanum. LJ</td>
<td>A10</td>
<td>If vehicle fuel type is coded “other”, this field should contain the description recorded on the survey form for vehicle</td>
</tr>
<tr>
<td>17. Vehicle Cargo</td>
<td>67</td>
<td>69</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Cargo being carried by vehicle. See code definitions below.</td>
</tr>
<tr>
<td>18. Delivery Cargo Weight</td>
<td>70</td>
<td>75</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Weight in pounds of cargo being delivered</td>
</tr>
<tr>
<td>19. Pick Up Cargo Weight</td>
<td>76</td>
<td>81</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Weight in pounds of cargo being picked up</td>
</tr>
<tr>
<td>20. Cargo Origin Country</td>
<td>82</td>
<td>83</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>If cargo originated in Mexico enter 1 for Yes and 2 for No.</td>
</tr>
<tr>
<td>21. Trip Purpose</td>
<td>84</td>
<td>85</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Purpose of trip. See code descriptions below.</td>
</tr>
<tr>
<td>22. Other Trip Purpose</td>
<td>86</td>
<td>95</td>
<td>Alphanum. LJ</td>
<td>A10</td>
<td>If trip purpose is coded as “other”, this is a description of that purpose.</td>
</tr>
<tr>
<td>23 Origin Address</td>
<td>96</td>
<td>155</td>
<td>Alphanum. LJ</td>
<td>A60</td>
<td>City and street address of last place person got into vehicle before traveling to this workplace.</td>
</tr>
<tr>
<td>24 Origin Longitude</td>
<td>156</td>
<td>165</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Longitude of location trip originated from. If location is in Mexico, this should be coded 777.777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>25 Origin Latitude</td>
<td>166</td>
<td>175</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of location trip originated from. If location is in Mexico, this should be coded 777.777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.</td>
</tr>
<tr>
<td>26 State Zone Indicator</td>
<td>176</td>
<td>176</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>Code identifying the MPO study area in which the origin is located (e.g. last place person got in vehicle) B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural.</td>
</tr>
<tr>
<td>27. Study Area ID (origin)</td>
<td>177</td>
<td>178</td>
<td>Alphanum. LJ</td>
<td>A2</td>
<td>Urban zone where trip originated. Locations in Mexico should be coded 7777. Locations not in a study area county but within Texas should be coded as 8888. Unknown zone numbers not in a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.</td>
</tr>
<tr>
<td>28 Origin Zone</td>
<td>179</td>
<td>183</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone where trip originated. If origin is outside of the study area, this field should contain the name of the bridge, street, or highway used to enter the study area</td>
</tr>
<tr>
<td>29. Regional Zone No.</td>
<td>184</td>
<td>188</td>
<td>Numeric RJ</td>
<td>I5</td>
<td></td>
</tr>
<tr>
<td>30 Entry Facility</td>
<td>189</td>
<td>218</td>
<td>Alphanum. LJ</td>
<td>A30</td>
<td></td>
</tr>
</tbody>
</table>
Workplace Delivery Vehicle Survey Interview Survey, Form E Format, Continued.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>219</td>
<td>223</td>
<td>Numeric RJ</td>
<td>I5</td>
</tr>
<tr>
<td>32</td>
<td>224</td>
<td>225</td>
<td>Numeric RJ</td>
<td>I2</td>
</tr>
<tr>
<td>33</td>
<td>226</td>
<td>235</td>
<td>Alphanumeric</td>
<td>A10</td>
</tr>
<tr>
<td>34</td>
<td>236</td>
<td>238</td>
<td>Numeric RJ</td>
<td>I3</td>
</tr>
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<td>I3</td>
</tr>
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<td>302</td>
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<td>F10.6</td>
</tr>
<tr>
<td>38</td>
<td>312</td>
<td>321</td>
<td>Numeric RJ</td>
<td>F10.6</td>
</tr>
<tr>
<td>39</td>
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<td>A1</td>
</tr>
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<td>40</td>
<td>323</td>
<td>324</td>
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<td>A2</td>
</tr>
<tr>
<td>41</td>
<td>325</td>
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<td>Numeric RJ</td>
<td>I5</td>
</tr>
<tr>
<td>42</td>
<td>330</td>
<td>334</td>
<td>Numeric RJ</td>
<td>I5</td>
</tr>
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<td>43</td>
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<td>Alphanumeric</td>
<td>A30</td>
</tr>
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<td>44</td>
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<td>369</td>
<td>Numeric RJ</td>
<td>I5</td>
</tr>
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<td>45</td>
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<td>371</td>
<td>Numeric RJ</td>
<td>I2</td>
</tr>
<tr>
<td>46</td>
<td>372</td>
<td>381</td>
<td>Alphanumeric</td>
<td>A10</td>
</tr>
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<td>47</td>
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<td>Numeric RJ</td>
<td>I7</td>
</tr>
<tr>
<td>48</td>
<td>389</td>
<td>390</td>
<td>Numeric RJ</td>
<td>I2</td>
</tr>
<tr>
<td>49</td>
<td>391</td>
<td>392</td>
<td>Numeric RJ</td>
<td>I2</td>
</tr>
</tbody>
</table>

Field Columns

**Description**

- If origin is outside the study area, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.
- Purpose for being at origin address where this trip originated. See code definitions below.
- If the origin purpose is coded as “other”, this is a description of that purpose.
- Hour vehicle departed from origin address. This time should be in military time.
- Minute vehicle departed from origin address.
- City and street address of location vehicle will be going when they leave this workplace.
- Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
- Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
- If address is outside the study area, but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
- Code identifying the MPO study area in which the persons destination (for next trip) is located B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural
- Urban zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations outside the study area but within Texas should be coded to the state zone system. Unknown zone numbers in the study area should be coded as 8888. Unknown zone numbers outside the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
- Regional zone number of destination.
- If destination is outside the study area, this field should contain the name of the bridge, street, or highway used to enter the study area.
- Purpose for traveling to the next destination. See below for code definitions.
- If the destination purpose is coded as “other”, this is a description of that purpose.
- Number of survey form.

**Item 9. Vehicle Classification Codes**

- 1 – Passenger Car
- 2 – Pick-up
- 3 – Van (passenger or min)
- 4 – Sport Utility Vehicle (SUV)
- 5 – Single Unit 2-axle (6 wheels)
- 6 – Single Unit 3-axle (10 wheels)
- 7 – Single Unit 4-axle (14 wheels)
- 8 – Semi (tractor-trailer combination)
- 9 – Other

**Items 21&41. Trip Purpose Options**

- 1 – Base location / Return to base location
- 2 – Delivery
- 3 – Pick up
- 4 – Delivery and Pick up
- 5 – Maintenance
- 6 – Driver Needs (lunch, etc)
- 7 – Buy Gas / Fuel
- 8 – Other
- 99 – Refused / Unknown
### Vehicle Cargo Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Farm Products</td>
<td>Livestock, fertilizer, dirt, landscaping, etc.</td>
</tr>
<tr>
<td>2</td>
<td>Forest Products</td>
<td>Trees, sod, etc.</td>
</tr>
<tr>
<td>3</td>
<td>Marine Products</td>
<td>Fresh fish, seafood, etc.</td>
</tr>
<tr>
<td>4</td>
<td>Metals and Minerals</td>
<td>Crude petroleum, natural gas, propane, Metals, gypsum, ores, etc.</td>
</tr>
<tr>
<td>5</td>
<td>Food, Health, and Beauty Products</td>
<td>Assorted food products, cosmetics, etc.</td>
</tr>
<tr>
<td>6</td>
<td>Tobacco Products</td>
<td>Cigarettes, cigars, and chewing tobacco</td>
</tr>
<tr>
<td>7</td>
<td>Textiles</td>
<td>Clothing, linens, etc.</td>
</tr>
<tr>
<td>8</td>
<td>Wood Products</td>
<td>Lumber, paper, cardboard, wood pulp, etc.</td>
</tr>
<tr>
<td>9</td>
<td>Printed Matter</td>
<td>Newspapers, magazines, books, etc.</td>
</tr>
<tr>
<td>10</td>
<td>Chemical Products</td>
<td>Soaps, paints, household or industrial chemicals, etc.</td>
</tr>
<tr>
<td>11</td>
<td>Refined Petroleum or Coal Products</td>
<td>Gasoline, etc.</td>
</tr>
<tr>
<td>12</td>
<td>Rubber, Plastic, and Styrofoam Products</td>
<td>Finished products of rubber, plastic, or Styrofoam</td>
</tr>
<tr>
<td>13</td>
<td>Clay, Concrete, Glass, or Stone</td>
<td>Finished products of clay, concrete, glass, or stone</td>
</tr>
<tr>
<td>14</td>
<td>Manufactured Goods/Equip.</td>
<td>Miscellaneous products, such as machinery, appliances, furniture, etc.</td>
</tr>
<tr>
<td>15</td>
<td>Wastes</td>
<td>Waste products including scrap and recyclable materials</td>
</tr>
<tr>
<td>16</td>
<td>Miscellaneous Shipments</td>
<td>U.S. mail, U.P.S., Federal Express, and other mixed cargo</td>
</tr>
<tr>
<td>17</td>
<td>Hazardous Materials</td>
<td>Hazardous chemicals and substances</td>
</tr>
<tr>
<td>18</td>
<td>Transportation</td>
<td>Automobiles, Heavy Equipment, etc.</td>
</tr>
<tr>
<td>19</td>
<td>Unclassified Cargo</td>
<td>Cargo not falling within one of the above categories</td>
</tr>
<tr>
<td>20</td>
<td>Driver Refused to Answer</td>
<td>Driver refused to answer</td>
</tr>
<tr>
<td>21</td>
<td>Unknown to Driver</td>
<td>Unknown to driver</td>
</tr>
<tr>
<td>22</td>
<td>Empty</td>
<td>Empty (including empty shipping containers)</td>
</tr>
</tbody>
</table>
Workplace Vehicles Owned/Leased Survey

This file contains general information for each vehicle included in the vehicle survey. Data for each vehicle surveyed is recorded using the following ASCII format.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code which indicates the type of record, here it should be 20.</td>
</tr>
<tr>
<td>2. Vehicle ID Number</td>
<td>3</td>
<td>5</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Unique identification number assigned to vehicle for survey purposes.</td>
</tr>
<tr>
<td>3. Vehicle License Num.</td>
<td>6</td>
<td>15</td>
<td>Alphanumeric LJ</td>
<td>A10</td>
<td>License number of the vehicle being surveyed.</td>
</tr>
<tr>
<td>4. Month</td>
<td>16</td>
<td>17</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Month of vehicle travel day.</td>
</tr>
<tr>
<td>5. Day</td>
<td>18</td>
<td>19</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Day of the month of vehicle travel day.</td>
</tr>
<tr>
<td>6. Name</td>
<td>20</td>
<td>49</td>
<td>Alphanumeric LJ</td>
<td>A30</td>
<td>Name of the person or company to which the vehicle is registered.</td>
</tr>
<tr>
<td>7. Base Address</td>
<td>50</td>
<td>79</td>
<td>Alphanumeric LJ</td>
<td>A30</td>
<td>Address of the person or company to which the vehicle is registered and based.</td>
</tr>
<tr>
<td>8. SIC Code</td>
<td>80</td>
<td>85</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Four digit Standard Industrial Classification of the business at the base location.</td>
</tr>
<tr>
<td>9. Study Area ID (Base)</td>
<td>86</td>
<td>87</td>
<td>Alphanumeric LJ</td>
<td>A2</td>
<td>Code identifying the MPO study area in which the base is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo Count, R=rural.</td>
</tr>
<tr>
<td>10. Zone</td>
<td>88</td>
<td>92</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Urban zone where base is located. Unknown zones should be coded as 8888.</td>
</tr>
<tr>
<td>11. Regional Zone No</td>
<td>93</td>
<td>97</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone where base is located.</td>
</tr>
<tr>
<td>12. Longitude</td>
<td>98</td>
<td>107</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Longitude of the base location. Unknown longitudes should be coded as 888.8888.</td>
</tr>
<tr>
<td>13. Latitude</td>
<td>108</td>
<td>117</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of the base location. Unknown latitudes should be coded as 888.8888.</td>
</tr>
<tr>
<td>16. Year of Vehicle</td>
<td>168</td>
<td>171</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Year vehicle was manufactured. Unknown years should be coded as 9999.</td>
</tr>
<tr>
<td>17. Vehicle Fuel Type</td>
<td>172</td>
<td>173</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Type of fuel used by vehicle. 1 – Leaded Gas; 2 – Unleaded Gas; 3 – Diesel; 4 – Propane; 5 – Other.</td>
</tr>
<tr>
<td>18. Fuel Type Other</td>
<td>174</td>
<td>183</td>
<td>Alphanumeric LJ</td>
<td>A10</td>
<td>If item 14 is coded as “other”, this is a description of the type of fuel. Otherwise this field is blank.</td>
</tr>
<tr>
<td>19. Vehicle Class.</td>
<td>184</td>
<td>185</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the classification of the vehicle. See below for code descriptions.</td>
</tr>
<tr>
<td>20. Other Vehicle</td>
<td>186</td>
<td>205</td>
<td>Alphanumeric LJ</td>
<td>A20</td>
<td>If item 16 is coded as “other”, this field should contain a description of the vehicle. Otherwise this field is blank.</td>
</tr>
<tr>
<td>21. Vehicle Type</td>
<td>206</td>
<td>207</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating type of commercial vehicle. 1 is used for cargo and/or freight transport and 2 is used for service vehicles.</td>
</tr>
<tr>
<td>23. Odometer</td>
<td>214</td>
<td>220</td>
<td>Numeric RJ</td>
<td>I7</td>
<td>Odometer mileage on the vehicle at the beginning of the survey day. Refusals or unknown values should be coded as 9999999.</td>
</tr>
<tr>
<td>24. More Trips</td>
<td>221</td>
<td>224</td>
<td>Numeric RJ</td>
<td>I4</td>
<td>Total number of trips made by vehicle on its survey day including any additional trips made but not recorded in diary due to lack of space.</td>
</tr>
</tbody>
</table>

The above record will be followed by the records containing the trip diary information for the commercial vehicle.
This file contains trip information for each vehicle included in the commercial vehicle survey. Data for each commercial vehicle surveyed is recorded using the following ASCII format.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code which indicates the type of record, here it should be 21.</td>
</tr>
<tr>
<td>2. Vehicle ID Number</td>
<td>3</td>
<td>5</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Unique identification number assigned to vehicle for survey purposes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Must match the number used in data format for record type 20.</td>
</tr>
<tr>
<td>3. Vehicle Lic. Number</td>
<td>6</td>
<td>15</td>
<td>Alphanumeric</td>
<td>A10</td>
<td>License number of the vehicle being surveyed.</td>
</tr>
<tr>
<td>4. Trip Number</td>
<td>16</td>
<td>17</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Trip number. Beginning trip will be recorded as 0 with each subsequent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>trip numbered sequentially as 1,2,3, etc.</td>
</tr>
<tr>
<td>5. Address Field 1</td>
<td>18</td>
<td>47</td>
<td>Alphanumeric</td>
<td>A30</td>
<td>Name of location and address of first street name or nearest</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>intersecting streets to the location. If name and address exceed field</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>size it should be continued in item 6.</td>
</tr>
<tr>
<td>6. Address Field 2</td>
<td>48</td>
<td>77</td>
<td>Alphanumeric</td>
<td>A30</td>
<td>Continuation of name of location and address in item 5 or second street</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>name of intersecting streets to the location.</td>
</tr>
<tr>
<td>7. State Zone Indicator</td>
<td>78</td>
<td>78</td>
<td>Numeric RJ</td>
<td>I1</td>
<td>If location is within Texas and geocoded to a state zone, this field</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>should have a 1 in it. Otherwise this field is blank.</td>
</tr>
<tr>
<td>8. Study Area ID</td>
<td>79</td>
<td>80</td>
<td>Numeric LJ</td>
<td>A2</td>
<td>Code identifying the MPO study area in which the address is located. B =</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Brownsville, S = Harlingen San Benito, H = Hidalgo County, R = rural.</td>
</tr>
<tr>
<td>9. Zone</td>
<td>81</td>
<td>85</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Urban zone number of location. Unknown zones in study area should be</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>coded as 8888. Locations in Mexico should be coded as 7777. Locations</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>outside study area but within Texas should be coded to the state zone</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>system. Locations outside of study area but within Texas that cannot be</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>geocoded should be coded to 6666. Locations outside of Texas should be</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>coded as 9999.</td>
</tr>
<tr>
<td>10. Regional Zone No</td>
<td>86</td>
<td>90</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone number of location.</td>
</tr>
<tr>
<td>11. Longitude</td>
<td>91</td>
<td>100</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Longitude of location. Unknown longitudes in study area should be</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>coded as 888.8888. Longitudes for locations in Mexico should be coded</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>as 777.7777. Longitudes for locations outside Texas should be coded</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>999.9999. Unknown locations outside study area but in Texas should be</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>coded 666.6666.</td>
</tr>
<tr>
<td>12. Latitude</td>
<td>101</td>
<td>110</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>Latitude of location. Unknown latitudes in study area should be coded</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>as 888.8888. Latitudes for locations in Mexico should be coded as 777.7777</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Latitudes for locations outside Texas should be coded 999.9999. Unknown</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>locations outside study area but in Texas should be coded 666.6666.</td>
</tr>
<tr>
<td>13. Work Indicator</td>
<td>111</td>
<td>112</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating if this location is base location for the vehicle. 1 – Yes;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 – No.</td>
</tr>
<tr>
<td>14. County Indicator</td>
<td>113</td>
<td>114</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the county the address is located. Codes to be provided</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>later</td>
</tr>
<tr>
<td>15. Arrival Hour</td>
<td>115</td>
<td>116</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Hour that the vehicle arrived at this location. This hour should be in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>military format. For trip 0, this field should be blank.</td>
</tr>
<tr>
<td>16. Arrival Minute</td>
<td>117</td>
<td>118</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Minute that the vehicle arrived at this location. For trip 0, this field</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>should be blank.</td>
</tr>
<tr>
<td>17. Departure Hour</td>
<td>119</td>
<td>120</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Hour that the vehicle departed this location. This hour should be in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>military format. If this is the last trip, this field should be blank.</td>
</tr>
<tr>
<td>18. Departure Minute</td>
<td>121</td>
<td>122</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Minute that the vehicle departed this location. If this is the last trip,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>this field should be blank.</td>
</tr>
<tr>
<td>19. Type of Place/Activity</td>
<td>123</td>
<td>124</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the type of place at this location. See activity code</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>descriptions below.</td>
</tr>
<tr>
<td>20. Other Place</td>
<td>125</td>
<td>144</td>
<td>Alphanumeric</td>
<td>A20</td>
<td>If the type of place is coded as “other&quot;, this field should contain the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>description of the land use activity at this location.</td>
</tr>
<tr>
<td>21. Trip Purpose</td>
<td>145</td>
<td>146</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating purpose of trip. See definitions below. For place</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>number 0 (first trip), this should be coded as 1 if it began at the base</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>location, 6 if it began at home, or as 7 if it began at another location.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>If trip purpose is coded as “other&quot;, this field should contain the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>description of the trip purpose given.</td>
</tr>
<tr>
<td>22. Other Purpose</td>
<td>147</td>
<td>166</td>
<td>Alphanumeric</td>
<td>A20</td>
<td></td>
</tr>
</tbody>
</table>
### Field Columns

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>23. Cargo</td>
<td>167</td>
<td>168</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the cargo picked up or delivered at this location. S The vendor shall code survey responses according to the cargo classifications provided below. If no cargo was picked up or delivered at this location, code 21 should be entered.</td>
</tr>
<tr>
<td>24. Other Cargo</td>
<td>169</td>
<td>198</td>
<td>Alphanumeric</td>
<td>A30</td>
<td>Code indicating if item 21 is coded as 22, this field should contain a description of the cargo. Otherwise this field is blank.</td>
</tr>
<tr>
<td>25. Load</td>
<td>199</td>
<td>200</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating if vehicle is partially or fully loaded when leaving initial location. Use 1 if fully loaded; 2 if partially loaded; and 3 if empty. This field is coded only for trip 0</td>
</tr>
<tr>
<td>26. Initial cargo weight</td>
<td>201</td>
<td>206</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Weight of cargo in pounds being carried when leaving initial location. This field is coded only for trip 0.</td>
</tr>
<tr>
<td>27. Delivery cargo weight</td>
<td>207</td>
<td>212</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Weight of cargo in pounds being delivered. This field is blank for trip 0.</td>
</tr>
<tr>
<td>28. Pick Up cargo weight</td>
<td>213</td>
<td>218</td>
<td>Numeric RJ</td>
<td>I6</td>
<td>Weight of cargo in pounds being picked up. This field is blank for trip 0.</td>
</tr>
</tbody>
</table>

### Item 18: Type of Place (Activity) Codes

1 – Office Building (Non Government)
2 – Retail / Shopping
3 – Industrial / Manufacturing Site
4 – Medical / Hospital
5 – Educational (12th Grade or less)
6 – Educational (College, Trade, etc.)
7 – Government Office / Building
8 – Residential
9 – Airport
10 – Intermodal Facility
11 – Warehouse
12 – Distribution Center
13 – Construction Site
14 – Other
99 – Refused / Unknown

### Item 20: Trip (Activity)Purpose Codes

1 – Base Location / Return to Base Location
2 – Delivery
3 – Pick-up
4 – Delivery and Pick Up
5 – Maintenance (fuel, oil, etc.)
6 – Driver Needs (lunch, etc.)
7 – Service Related
8 – Other
99 – Refused / Unknown

### Item 24: Cargo Classifications

1 - Farm Products
2 - Forest Products
3 - Marine Products
4 - Metals and Minerals
5 - Food, Health, and Beauty Products
6 - Tobacco Products
7 - Textiles
8 - Wood Products
9 - Printed Matter
10 - Chemical Products
11 - Refined Petroleum or Coal Products
12 - Clay, Concrete, Glass, or Stone
13 - Manufactured Goods/Equip.
14 - Wastes
15 - Miscellaneous Shipments
16 - Hazardous Materials
17 - Transportation
18 - Unclassified Cargo
19 - Driver Refused to Answer
20 - Unknown to Driver
21 - Empty

Cargo Descriptions:
- Livestock, fertilizer, dirt, landscaping, etc.
- Trees, sod, etc.
- Fresh fish, seafood, etc.
- Crude petroleum, natural gas, propane, Metals, gypsum, ores, etc.
- Assorted food products, cosmetics, etc.
- Cigarettes, cigars, and chewing tobacco
- Clothing, linens, etc.
- Lumber, paper, cardboard, wood pulp, etc.
- Newspapers, magazines, books, etc.
- Soaps, paints, household or industrial chemicals, etc.
- Gasoline, etc.
- Finished products of rubber, plastic, or Styrofoam
- Finished products of clay, concrete, glass, or stone
- Miscellaneous products, such as machinery, appliances, furniture, etc.
- Waste products including scrap and recyclable materials
- U.S. mail, U.P.S., Federal Express, and other mixed cargo
- Hazardous chemicals and substances
- Automobiles and other transport vehicles
- Cargo not falling within one of the above categories
- Driver refused to answer
- Unknown to driver
- Empty (including empty shipping containers)
This file contains the travel data for non-employees (visitors) at surveyed free standing (airport) work establishments using Form Airport SGR, Non-Employee Survey, Free Standing (Airport) Workplace. The file has been updated to include the new regional zones as well as the original urban zones. The data is an ASCII data file.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Record Type</td>
<td>1</td>
<td>2</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>I2  Code which indicates the type of record, here it should be A1.</td>
</tr>
<tr>
<td>2. Month</td>
<td>3</td>
<td>4</td>
<td>Numeric</td>
<td>RJ</td>
<td>I2  Month workplace was surveyed.</td>
</tr>
<tr>
<td>3. Day</td>
<td>5</td>
<td>6</td>
<td>Numeric</td>
<td>RJ</td>
<td>I2  Day of the month workplace was surveyed.</td>
</tr>
<tr>
<td>4. Site Number</td>
<td>7</td>
<td>10</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>I4  Unique code assigned to the establishment where these interviews were conducted. Valley Internat’l =SG01; Brownsville/Padre Internat’l = SG02.</td>
</tr>
<tr>
<td>5. Person Number</td>
<td>11</td>
<td>11</td>
<td>Numeric</td>
<td>RJ</td>
<td>I1  Number of person being interviewed. This corresponds to the column number on the interview form. (No higher than 3)</td>
</tr>
<tr>
<td>6. Residence</td>
<td>12</td>
<td>36</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>A25 Name of city, county or country where person lives.</td>
</tr>
<tr>
<td>7. Residence Code</td>
<td>37</td>
<td>38</td>
<td>Numeric</td>
<td>RJ</td>
<td>I2  Code indicating if residence is outside study area; 1-Yes, 2-No, 99-Refused / Unknown</td>
</tr>
<tr>
<td>8. Overnight Stay</td>
<td>39</td>
<td>40</td>
<td>Numeric</td>
<td>RJ</td>
<td>I2  If residence code is 1, this field entry is a code indicating if person stayed over night in the study area; 1-Yes, 2-No, 99-Refused / Unknown. If residence code is 2 or arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>9. Place Stayed</td>
<td>41</td>
<td>70</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>A30  If person stayed over night, this field contains the name of the place the person stayed. If person did not stay over night or arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>10. Entry Road</td>
<td>71</td>
<td>100</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>A30  If person did not stay over night, this field should contain the name of the street/highway/bridge the person was on when they entered the study area. If person stayed over night or if arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>11. Home Address</td>
<td>101</td>
<td>150</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>A50  If residence code is 2, this field contains the address where person lives. If person gives nearest intersecting streets, this should be the first street name. If arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>12. Intersecting Street</td>
<td>151</td>
<td>200</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>A50  If person gave nearest intersecting streets for their home address, this field should have the second street name, otherwise it should be blank. If arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>13. Home Longitude</td>
<td>201</td>
<td>210</td>
<td>Numeric</td>
<td>RJ</td>
<td>F10.6 If residence code is 2, this is the longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If residence code is 1 or arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>14. Home Latitude</td>
<td>211</td>
<td>220</td>
<td>Numeric</td>
<td>RJ</td>
<td>F10.6 If residence code is 2, this is the latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If residence code is 1 or arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>15. Home State Zone Indicator</td>
<td>221</td>
<td>221</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>A1  If person's home is outside study area but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank. If arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>16. Study Area ID</td>
<td>222</td>
<td>222</td>
<td>Alphanumeric</td>
<td>LJ</td>
<td>A1  Code identifying the MPO study area in which the person resides. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural</td>
</tr>
</tbody>
</table>
### Visitor Survey, Free Standing (Airport) Workplace, Form Airport SGR Format, Continued.

<table>
<thead>
<tr>
<th>Item</th>
<th>Begin</th>
<th>End</th>
<th>Type</th>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>17. Home Zone</td>
<td>223</td>
<td>227</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Zone number where person lives. Locations in Mexico should be coded 7777. Locations outside of study area but within Texas should be coded to the state zone system. Unknown zone numbers outside study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999. If arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>18. State Zone Indicator</td>
<td>228</td>
<td>228</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>If regional zone is outside study area in Texas, this field contains the letter “S”. Otherwise the field is blank.</td>
</tr>
<tr>
<td>19. Regional Zone</td>
<td>229</td>
<td>233</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone where home is located.</td>
</tr>
<tr>
<td>20. Arrival Mode</td>
<td>234</td>
<td>235</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating the mode person used to arrive at location. See definitions below.</td>
</tr>
<tr>
<td>21. Arrival Mode Other</td>
<td>236</td>
<td>265</td>
<td>Alphanum LJ</td>
<td>A30</td>
<td>If arrival mode is coded “other”, this field should contain a description of the mode given.</td>
</tr>
<tr>
<td>22. Origin Code</td>
<td>266</td>
<td>267</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>Code indicating origin of trip; 1-Home (or hotel), 2-Other.</td>
</tr>
<tr>
<td>23. Origin Location</td>
<td>268</td>
<td>327</td>
<td>Alphanum. LJ</td>
<td>A60</td>
<td>If origin code is 2, this is the location that trip originated from (i.e. name, address, etc.). If origin code is 1 or arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>24. Origin Longitude</td>
<td>328</td>
<td>337</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>If origin code is 2, this is the longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If origin code is 1 or arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>25. Origin Latitude</td>
<td>338</td>
<td>347</td>
<td>Numeric RJ</td>
<td>F10.6</td>
<td>If origin code is 2, this is the latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If origin code is 1 or arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>26. Origin State Zone Indicator</td>
<td>348</td>
<td>348</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>If origin location is outside study area but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.</td>
</tr>
<tr>
<td>27. Study Area ID</td>
<td>349</td>
<td>349</td>
<td>Alphanum LJ</td>
<td>A1</td>
<td>Code identifying the MPO study area in which the origin is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural.</td>
</tr>
<tr>
<td>28. Origin Zone</td>
<td>350</td>
<td>354</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Zone for origin location. Locations in Mexico should be coded 7777. Locations outside of study area but within Texas should be coded to the state zone system. Unknown zone numbers outside study area should be coded as 8888. Unknown zone numbers outside study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999. If arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>29. State Zone Indicator</td>
<td>355</td>
<td>355</td>
<td>Alphanum. LJ</td>
<td>A1</td>
<td>If regional zone for origin is outside study area in Texas, this field contains the letter “S”. Otherwise the field is blank.</td>
</tr>
<tr>
<td>30. Regional Origin Zone</td>
<td>356</td>
<td>360</td>
<td>Numeric RJ</td>
<td>I5</td>
<td>Regional zone where origin is located.</td>
</tr>
<tr>
<td>31. Arrival Hour</td>
<td>361</td>
<td>363</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Hour person arrived at this site. This hour should be in terms of military time. If arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>32. Arrival Minute</td>
<td>364</td>
<td>366</td>
<td>Numeric RJ</td>
<td>I3</td>
<td>Minute person arrived at this site. If arrival mode is 10, this field should be blank.</td>
</tr>
<tr>
<td>33. Number Persons</td>
<td>367</td>
<td>368</td>
<td>Numeric RJ</td>
<td>I2</td>
<td>If arrival was by car, truck, or van, this is the number of persons in the vehicle including the person being interviewed. This field should be blank for all other modes.</td>
</tr>
<tr>
<td>Item</td>
<td>Begin</td>
<td>End</td>
<td>Type</td>
<td>Format</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------</td>
<td>-----</td>
<td>----------</td>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>34. Bus Fare</td>
<td>369</td>
<td>374</td>
<td>Numeric R</td>
<td>F6.2</td>
<td>If mode of travel was bus or taxi, this is the bus fare paid. This field should be blank for all other modes.</td>
</tr>
<tr>
<td>35. Trip Purpose</td>
<td>375</td>
<td>376</td>
<td>Numeric R</td>
<td>I2</td>
<td>Code indicating purpose of trip. See code definitions below.</td>
</tr>
<tr>
<td>36. Trip Purpose Other</td>
<td>377</td>
<td>386</td>
<td>Alphanumeric</td>
<td>A10</td>
<td>If purpose is coded as “other”, this contains description of purpose given.</td>
</tr>
<tr>
<td>37. Departure Mode</td>
<td>387</td>
<td>388</td>
<td>Numeric R</td>
<td>I2</td>
<td>Code indicating the mode person will use to depart from location. See definitions below.</td>
</tr>
<tr>
<td>38. Departure Mode Other</td>
<td>389</td>
<td>398</td>
<td>Alphanumeric</td>
<td>A10</td>
<td>If departure mode is coded “other”, this field should contain a description of the mode given.</td>
</tr>
<tr>
<td>39. Departure Destination</td>
<td>399</td>
<td>400</td>
<td>Numeric R</td>
<td>I2</td>
<td>Code indicating destination when person departs from this site; 1-Home, 2-Other.</td>
</tr>
<tr>
<td>40. Destination Location</td>
<td>401</td>
<td>460</td>
<td>Alphanumeric</td>
<td>A60</td>
<td>If departure destination is coded as 2, this field contains the location (i.e. name, address, etc) that the person is going. Otherwise, this field should be blank.</td>
</tr>
<tr>
<td>41. Destination Longitude</td>
<td>461</td>
<td>470</td>
<td>Numeric R</td>
<td>F10.6</td>
<td>If departure destination is coded as 2, this is the longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If departure destination is coded as 1, this field should be blank.</td>
</tr>
<tr>
<td>42. Destination Latitude</td>
<td>471</td>
<td>480</td>
<td>Numeric R</td>
<td>F10.6</td>
<td>If departure destination is coded as 2, this is the latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If departure destination is coded as 1, this field should be blank.</td>
</tr>
<tr>
<td>43. Destination State Zone Indicator</td>
<td>481</td>
<td>481</td>
<td>Alphanumeric</td>
<td>A1</td>
<td>If destination location is outside study area but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank. This field is also blank is departure destination is coded as 1.</td>
</tr>
<tr>
<td>44. Study Area ID</td>
<td>482</td>
<td>482</td>
<td>Alphanumeric</td>
<td>A1</td>
<td>Code identifying the MPO study area in which the destination is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R = rural.</td>
</tr>
<tr>
<td>45. Destination Zone</td>
<td>483</td>
<td>487</td>
<td>Numeric R</td>
<td>I5</td>
<td>Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations outside of study area but within Texas should be coded to the state zone system. Unknown zone numbers in study area should be coded as 8888. Unknown zone numbers outside of study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999. If departure destination is coded as 1, this field should be blank.</td>
</tr>
<tr>
<td>46. State Zone Indicator</td>
<td>488</td>
<td>488</td>
<td>Alphanumeric</td>
<td>A1</td>
<td>If regional zone for destination is outside study area in Texas, this field contains the letter “S”. Otherwise the field is blank.</td>
</tr>
<tr>
<td>47. Regional Origin Zone</td>
<td>489</td>
<td>493</td>
<td>Numeric R</td>
<td>I5</td>
<td>Regional zone where destination is located.</td>
</tr>
<tr>
<td>48. Household Size</td>
<td>494</td>
<td>496</td>
<td>Numeric R</td>
<td>I3</td>
<td>Number of persons living at person’s home address.</td>
</tr>
<tr>
<td>49. Vehicles Available</td>
<td>497</td>
<td>498</td>
<td>Numeric R</td>
<td>I2</td>
<td>Number of vehicles available to persons in household.</td>
</tr>
<tr>
<td>50. Income</td>
<td>499</td>
<td>500</td>
<td>Numeric R</td>
<td>I2</td>
<td>Code indicating household income. See code definitions.</td>
</tr>
<tr>
<td>51. Form Number</td>
<td>501</td>
<td>506</td>
<td>Numeric R</td>
<td>I6</td>
<td>Survey form number which contains raw survey data.</td>
</tr>
<tr>
<td>52. Survey Hour</td>
<td>507</td>
<td>508</td>
<td>Numeric R</td>
<td>I2</td>
<td>Hour that the survey of the person began. This hour should be in terms of military time.</td>
</tr>
<tr>
<td>53. Survey Minute</td>
<td>509</td>
<td>510</td>
<td>Numeric R</td>
<td>I2</td>
<td>Minute that the survey of the person began.</td>
</tr>
</tbody>
</table>
Visitor Survey, Free Standing (Airport) Workplace, Form Airport NEWAIR Format, Continued.

<table>
<thead>
<tr>
<th>Item 20. Mode of Arrival Codes</th>
<th>Item 35. Trip Purpose Codes</th>
<th>Item 37. Mode of Departure Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – Driver (car/truck/van)</td>
<td>1 – Leave/Return Home</td>
<td>1 – Driver (car/truck/van)</td>
</tr>
<tr>
<td>2 – Passenger (car/truck/van)</td>
<td>2 – Work Related</td>
<td>2 – Passenger (car/truck/van)</td>
</tr>
<tr>
<td>3 – Walk</td>
<td>3 – School Related</td>
<td>3 – Walk</td>
</tr>
<tr>
<td>4 – Bicycle</td>
<td>4 – Social / Recreational / Visit</td>
<td>4 – Bicycle</td>
</tr>
<tr>
<td>5 – Bus / Public Transportation</td>
<td>5 – Shop</td>
<td>5 – Bus / Public Transportation</td>
</tr>
<tr>
<td>6 – School Bus</td>
<td>6 – Eat Out</td>
<td>6 – School Bus</td>
</tr>
<tr>
<td>7 – Taxi / Limo</td>
<td>7 – Medical</td>
<td>7 – Taxi / Limo</td>
</tr>
<tr>
<td>8 – Commercial Vehicle</td>
<td>8 – Pick Up / Drop Off Passenger</td>
<td>8 – Commercial Vehicle</td>
</tr>
<tr>
<td>9 – Motorcycle</td>
<td>9 – Change Travel Mode</td>
<td>9 – Motorcycle</td>
</tr>
<tr>
<td>10 – Airplane</td>
<td>10 – Delivery – Pick Up / Drop Off</td>
<td>10 – Airplane</td>
</tr>
<tr>
<td>11 – Parking Shuttle</td>
<td>11 – Other (specify in block)</td>
<td>11 – Parking Shuttle</td>
</tr>
<tr>
<td>12 – Hotel/Motel Shuttle</td>
<td>99 – Non-Response</td>
<td>12 – Hotel/Motel Shuttle</td>
</tr>
<tr>
<td>13 – Other (specify in block)</td>
<td></td>
<td>13 – Other (specify in block)</td>
</tr>
<tr>
<td>14 – Rental Car</td>
<td></td>
<td>14 – Rental Car</td>
</tr>
<tr>
<td>99 – No Response</td>
<td></td>
<td>99 – No Response</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item 50. Household Income Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – Less than $5,000</td>
</tr>
<tr>
<td>2 - $5,000 to $9,999</td>
</tr>
<tr>
<td>3 - $10,000 to $14,999</td>
</tr>
<tr>
<td>4 - $15,000 to $19,999</td>
</tr>
<tr>
<td>5 - $20,000 to $24,999</td>
</tr>
<tr>
<td>6 - $25,000 to $29,999</td>
</tr>
<tr>
<td>7 - $30,000 to $34,999</td>
</tr>
<tr>
<td>8 - $35,000 to $39,999</td>
</tr>
<tr>
<td>9 - $40,000 to $49,999</td>
</tr>
<tr>
<td>10 - $50,000 to $59,999</td>
</tr>
<tr>
<td>11 - $60,000 to $74,999</td>
</tr>
<tr>
<td>12 - $75,000 to $99,999</td>
</tr>
<tr>
<td>13 - $100,000 to $124,999</td>
</tr>
<tr>
<td>14 - $125,000 to $149,999</td>
</tr>
<tr>
<td>15 - $150,000 or more</td>
</tr>
<tr>
<td>99 – No response</td>
</tr>
</tbody>
</table>