# 2005/2006 San Antonio Area Work Place Travel Survey
## Technical Summary

**Texas Department of Transportation**

# 20005/06 San Antonio Work Place Travel Survey

## TECHNICAL SUMMARY

**Texas Department of Transportation Travel Survey Program**

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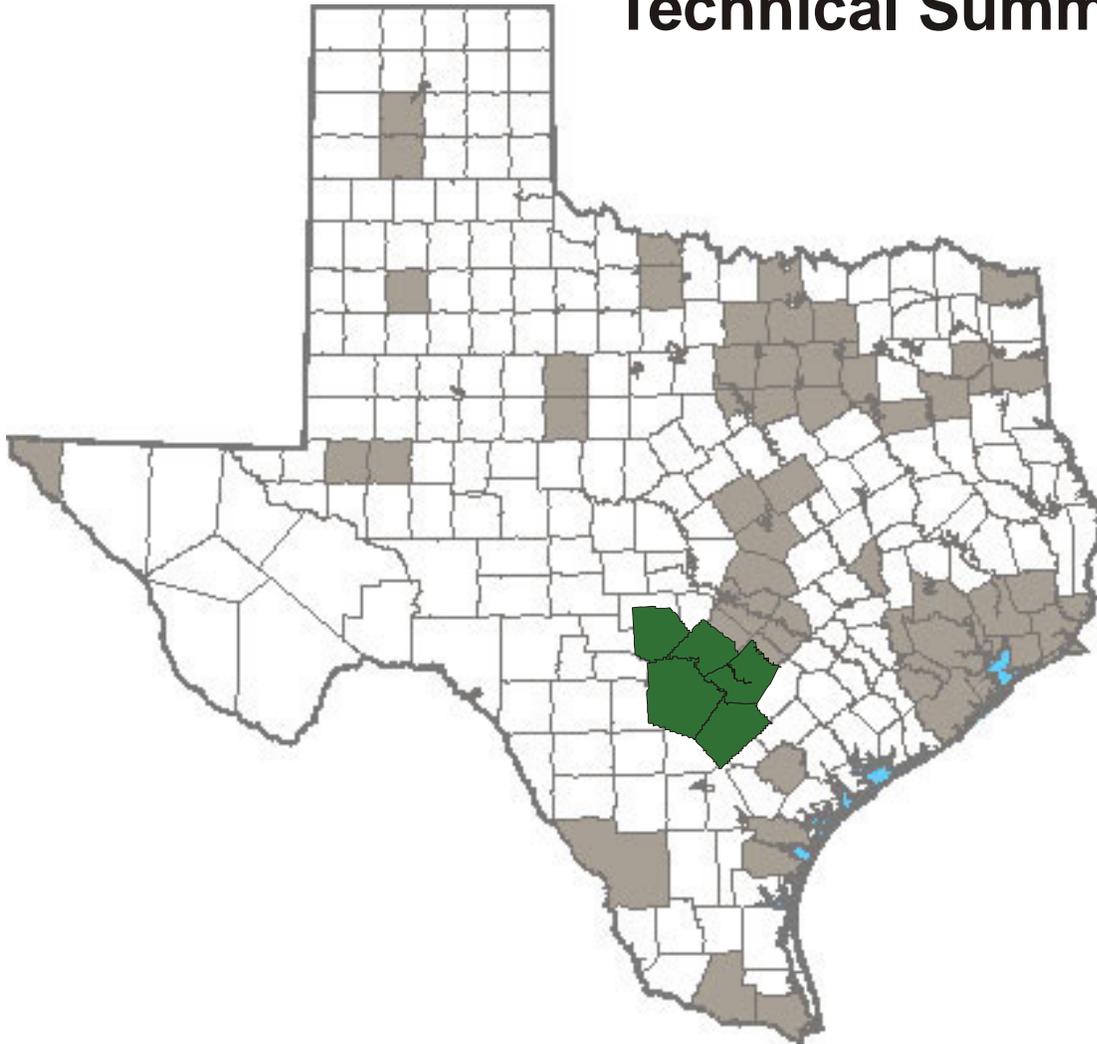
of the
Texas Transportation Institute

February 2009

TEXAS TRANSPORTATION INSTITUTE
The Texas A&M University System
College Station, Texas  77843-3135

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**INTRODUCTION**

In 2005 - 2006, the Transportation Planning and Programming (TPP) Division of the Texas Department of Transportation (TxDOT) funded a comprehensive set of travel surveys in Bexar, Comal, Guadalupe, Kendall, and Wilson counties (referred to as the San Antonio study area). These surveys measured and identified travel patterns within those five counties as well as travel into, out of, and through that area. The data obtained will be used in the development and update of the travel demand model for the San Antonio-Bexar County Metropolitan Planning Organization. The surveys conducted include a household travel/activity survey with a Global Positioning System component, a work place survey, an external station survey, and a commercial vehicle survey.

This report presents a Technical Summary of the 2005/06 San Antonio 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 San Antonio study area consisting of Bexar, Comal, Guadalupe, Kendall, and Wilson counties. 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.

**San Antonio Srudy Area**

The boundary established for the San Antonio work place survey included Bexar, Comal, Guadalupe, Kendall, and Wilson counties. Figure 1 shows these counties relative to the state of Texas. The counties are located in the south central portion of Texas. The population in the five county area based on the 2000 Census was 1,616,126. The population during the time period of this survey in 2006 was estimated by the Census to be 1,830,754. Data from the Texas Workforce Commission (TWC) indicated that over 35,000 work place establishments are located in the five counties with a total employment of over 700,000 in 2005.
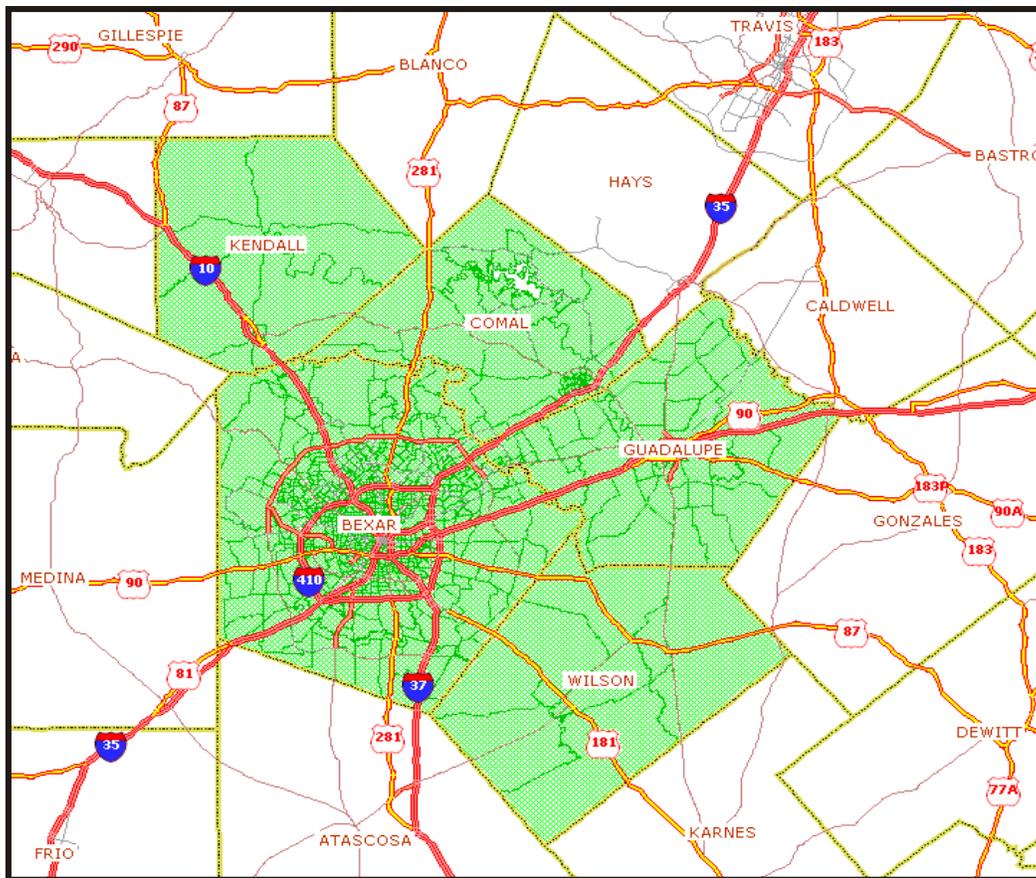


**Figure 1. San Antonio Study Area.**

**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. Table 1 shows these groupings based on the standard industrial classification (SIC) code for establishments.

**Table 1. Standard Industrial Classification Groupings by Employment Type.**

| Employment Type | SIC Range | Industry Group |
|---|---|---|
| Basic | 1000 - 1499 | Mining |
| | 1500 - 1799 | Construction |
| | 2000 - 3999 | Manufacturing |
| | 4000 - 4999 | Transportation, Communications, Public Utilities |
| | 5000 - 5199 | Wholesale Trade |
| Retail | 5200 - 5999 | Retail Trade |
| Service | 6000 - 6799 | Finance, Insurance, Real Estate |
| | 7000 - 8199 | Services |
| | 8200 - 8299 | Education Services |
| | 8300 - 8999 | Services |
| | 9000 - 9799 | Government |

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 that 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 San Antonio 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.



**Figure 2. Example of a Free-Standing Business Establishment.**



**Figure 3. Example of Non-Free Standing Business Establishments.**

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 study area 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 effort 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 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.

Appendix A shows the survey instruments and data file formats used in the survey.

**Phase 1 Findings**
Based on data from the TWC, the number of establishments in the five counties in 2005 was 8,097 Basic, 7,757 Retail, and 19,460 Service (including 569 Education establishments). A random sample of 5 percent of each category of establishments was conducted by telephone to ascertain the location of the establishment (i.e., to determine the area type of the zone in which 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 San Antonio study area was 153,625, the number of retail employees was 170,200, and the number of service employees was 404,839. The employment at the sites that were surveyed in Phase 1 was 63,635 basic employees, 46,193 retail employees, and 164,248 service employees. This indicates the sites surveyed in Phase 1 represented approximately 41 percent of all basic employment, 27 percent of all retail employment, and 41 percent of all service employment.

**SAMPLING PLAN**

The number of establishments to be surveyed had been pre-determined as 100 full survey sites and 350 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 work place establishments in the San Antonio study area. The five area types have been collapsed into three sampling areas to reduce the potential for small sample bias.

Table 5 presents the final sampling plan for Phase 2 of the San Antonio work place survey. The sampling is weighted to obtain more surveys of retail and service than basic establishments. This is done intentionally because previous work place 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.

**Table 2. Results of 5 Percent Sample in Phase 1.**

| No. Employees | CBD Area Type 1 | | CBD Fringe Area Type 2 | | Urban Area Type 3 | | Suburban Area Type 4 | | Rural Area Type 5 | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Employment Type - Basic** | | | | | | | | | | | | | |
| | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | Total |
| 1500 + | 1 | | 2 | 1 | 1 | 1 | 2 | | | | 6 | 2 | 8 |
| 1000-1499 | 1 | | 1 | | | 1 | 1 | | | | 3 | 1 | 4 |
| 500-999 | 2 | | 3 | 1 | 2 | 2 | 6 | 1 | 1 | | 14 | 4 | 18 |
| 200-499 | | | 11 | | 15 | | 12 | 2 | 2 | 1 | 40 | 3 | 43 |
| 100-199 | | | 17 | 3 | 13 | 7 | 10 | 3 | 1 | | 41 | 13 | 54 |
| 50-99 | | | 21 | 8 | 9 | 1 | 14 | 4 | 9 | 1 | 53 | 14 | 67 |
| 25-49 | 2 | | 14 | 5 | 17 | 8 | 12 | 4 | 13 | | 58 | 17 | 75 |
| 10-24 | 3 | | 13 | 10 | 15 | 4 | 17 | 5 | 7 | | 55 | 19 | 74 |
| 5-9 | | 1 | 6 | 6 | 6 | 3 | 8 | 2 | 4 | | 24 | 12 | 36 |
| 1-4 | 1 | | 2 | 3 | 6 | 2 | 3 | 2 | 3 | | 15 | 7 | 22 |
| **Totals** | **10** | **1** | **90** | **37** | **84** | **29** | **85** | **23** | **40** | **2** | **309** | **92** | **401** |
| | **11** | | **127** | | **113** | | **108** | | **42** | | **401** | | |

| No. Employees | CBD Area Type 1 | | CBD Fringe Area Type 2 | | Urban Area Type 3 | | Suburban Area Type 4 | | Rural Area Type 5 | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Employment Type - Retail** | | | | | | | | | | | | | |
| | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | Total |
| 1500 + | | | | | 1 | 1 | | | | | 1 | 1 | 2 |
| 1000-1499 | | | | 1 | 1 | | | 1 | | | 1 | 2 | 3 |
| 500-999 | | | 2 | 5 | 1 | 1 | 1 | | | | 4 | 6 | 10 |
| 200-499 | | 2 | 14 | 8 | 9 | 4 | 8 | 5 | 2 | | 33 | 19 | 52 |
| 100-199 | | 1 | 15 | 7 | 9 | 4 | 5 | 5 | 2 | | 31 | 17 | 48 |
| 50-99 | | 3 | 12 | 11 | 5 | 5 | 2 | 4 | 3 | 1 | 22 | 24 | 46 |
| 25-49 | 1 | 5 | 27 | 20 | 20 | 8 | 10 | 10 | 8 | 3 | 66 | 46 | 112 |
| 10-24 | 3 | 2 | 16 | 9 | 14 | 4 | 5 | 6 | 4 | 2 | 42 | 23 | 65 |
| 5-9 | | 1 | 9 | 6 | 1 | 5 | 3 | 5 | 2 | 3 | 15 | 20 | 35 |
| 1-4 | | 2 | 2 | 1 | | 1 | 1 | 2 | | | 3 | 6 | 9 |
| **Totals** | **4** | **16** | **97** | **68** | **61** | **33** | **35** | **38** | **21** | **9** | **218** | **164** | **382** |
| | **20** | | **165** | | **94** | | **73** | | **30** | | **382** | | |

| No. Employees | CBD Area Type 1 | | CBD Fringe Area Type 2 | | Urban Area Type 3 | | Suburban Area Type 4 | | Rural Area Type 5 | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Employment Type - Service** | | | | | | | | | | | | | |
| | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | FS | N-FS | Total |
| 1500 + | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 1 | | | 8 | 9 | 17 |
| 1000-1499 | 1 | | | 3 | 1 | | 1 | | 1 | | 4 | 3 | 7 |
| 500-999 | 4 | 1 | 12 | 5 | 10 | 7 | 4 | 1 | | | 30 | 14 | 44 |
| 200-499 | 3 | 2 | 20 | 29 | 11 | 5 | 9 | 6 | | | 43 | 42 | 85 |
| 100-199 | 6 | 8 | 44 | 33 | 51 | 8 | 23 | 8 | 4 | | 128 | 57 | 185 |
| 50-99 | 9 | 10 | 43 | 45 | 55 | 15 | 28 | 11 | 23 | 2 | 158 | 83 | 241 |
| 25-49 | 3 | 9 | 13 | 27 | 18 | 10 | 11 | 5 | 5 | 2 | 50 | 53 | 103 |
| 10-24 | 3 | 10 | 23 | 45 | 19 | 16 | 21 | 12 | 5 | 4 | 71 | 87 | 158 |
| 5-9 | 1 | 5 | 12 | 18 | 16 | 10 | 12 | 8 | 6 | 2 | 47 | 43 | 90 |
| 1-4 | | 3 | 9 | 16 | 3 | 12 | 7 | 5 | 4 | 2 | 23 | 38 | 61 |
| **Totals** | **33** | **49** | **177** | **226** | **187** | **85** | **117** | **57** | **48** | **12** | **562** | **429** | **991** |
| | **82** | | **403** | | **272** | | **174** | | **60** | | **991** | | |

**Table 3. Phase 1 Surveyed Establishments.**

| Sample Area | Basic | Retail | Service | Total |
|---|---|---|---|---|
| 1 – CBD, CBD Fringe | 138 | 185 | 485 | 808 |
| 2 – Urban, Suburban | 221 | 167 | 446 | 834 |
| 3 – Rural | 42 | 30 | 60 | 132 |
| **Total** | **401** | **382** | **991** | **1,774** |

**Table 4. Estimated Distribution of Establishments in San Antonio Study Area.**

| Sample Area | Basic | Retail | Service | Total |
|---|---|---|---|---|
| 1 – CBD, CBD Fringe | 2,786 | 3,757 | 9,524 | 16,067 |
| 2 – Urban, Suburban | 4,462 | 3,391 | 8,758 | 16,611 |
| 3 – Rural | 849 | 609 | 1,178 | 2,636 |
| **Total** | **8,097** | **7,757** | **19,460** | **35,314** |

**Table 5. San Antonio Work Place Survey Phase 2 Sampling Plan.**

| Sample Area | Basic | | Retail | | Service | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Full | Partial | Full | Partial | Full | Partial | Full | Partial |
| 1 – CBD, CBD Fringe | 8 | 20 | 20 | 45 | 20 | 80 | 48 | 145 |
| 2 – Urban, Suburban | 8 | 30 | 15 | 30 | 15 | 100 | 38 | 160 |
| 3 – Rural | 4 | 10 | 5 | 5 | 5 | 30 | 14 | 45 |
| **Totals** | **20** | **60** | **40** | **80** | **40** | **210** | **100** | **350** |

Table 6 presents the distribution of sites surveyed. During the course of the survey, the vendor encountered problems and there were problems with the amount of funding allocated for the survey. As a result, the survey was terminated and the number of sites surveyed was less than that scheduled in the sampling plan. 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.

One notable change that occurred after the survey was initiated was the desire to have attraction rates developed for education establishments. Note in Table 6 that the employment type "Education" has been included. After the surveys were initiated, the decision was made to develop trip production rates for education – pre-kindergarten through 12$^{th}$ grade. This created the necessity to develop corresponding attraction rates for education employment. Since this was not considered in the work place survey design, the sampling plan did not specify the number of education establishments to be surveyed and as a result, only a limited number was surveyed. These are the reasons the final distribution of surveyed sites do not match the sampling plan.

**Table 6. Distribution of Sites Surveyed.**

| Sample Area | Basic | | Retail | | Service | | Education | | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Full | Partial | Full | Partial | Full | Partial | Full | Partial | Full | Partial |
| 1 – CBD | 2 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 4 | 3 |
| 2 – CBD Fringe | 4 | 11 | 3 | 3 | 10 | 20 | 0 | 16 | 17 | 50 |
| 2 – Urban | 1 | 12 | 1 | 6 | 4 | 10 | 1 | 3 | 7 | 31 |
| 3 – Suburban | 6 | 17 | 3 | 3 | 2 | 11 | 0 | 3 | 11 | 34 |
| 4 - Rural | 3 | 5 | 1 | 1 | 0 | 3 | 0 | 2 | 4 | 11 |
| Totals | 16 | 46 | 8 | 13 | 18 | 46 | 1 | 24 | 43 | 129 |

**Sampling Results**

Figure 4 shows the locations of the establishments that participated in the work place survey. A total of 43 establishments had complete full surveys. The majority of these were basic and service establishments with the fewest being retail establishments. A total of 341 employees and 625 visitors (i.e., non-employees) were surveyed. The employment at the sites that were surveyed totaled 5,418. The sampling rate for the employees at the sites surveyed was about 6.3 percent. There were 129 sites where a partial survey was conducted. The employment at those sites totaled 13,509. Total employment represented in the work place survey was 18,927, about 2.6 percent of the total employment in the San Antonio study area. Tables 7 and 8 present the breakdown of sites, surveyed employees, surveyed visitors, total employment, and employees at work by area type and employment type for full and partial surveyed establishments.

The work place survey included questions concerning 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 the distributions reported in the 2000 Census for the San Antonio study area.

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 that observed in the 2000 Census in the San Antonio study area. The participants in the survey typically came from households with more vehicles available than the population of the San Antonio study area. The participants in the survey came from households with incomes that fell primarily in the range $40,000 to $100,000. Households with lower incomes were generally under represented while households with higher incomes were over represented. The distribution of households above $125,000 matched that reported in the census fairly well.

**Table 7. Full Survey Establishments.**

| Area Type | Item | Employment Type | | | | Totals |
|-----------|------|-------|--------|---------|-----------|--------|
| | | Basic | Retail | Service | Education | |
| CBD | No. of Sites | 2 | 0 | 2 | 0 | 4 |
| | Surveyed Employees | 16 | 0 | 28 | 0 | 44 |
| | Surveyed Visitors | 43 | 0 | 28 | 0 | 71 |
| | Total Employment | 1,000 | 0 | 340 | 0 | 1,340 |
| | Employees at Work | 942 | 0 | 273 | 0 | 1,215 |
| CBD Fringe | No. of Sites | 4 | 3 | 10 | 0 | 17 |
| | Surveyed Employees | 20 | 16 | 79 | 0 | 115 |
| | Surveyed Visitors | 29 | 84 | 122 | 0 | 235 |
| | Total Employment | 107 | 326 | 663 | 0 | 1,096 |
| | Employees at Work | 88 | 198 | 531 | 0 | 817 |
| Urban | No. of Sites | 1 | 1 | 4 | 1 | 7 |
| | Surveyed Employees | 5 | 5 | 29 | 7 | 46 |
| | Surveyed Visitors | 5 | 49 | 145 | 12 | 211 |
| | Total Employment | 11 | 55 | 1,583 | 69 | 1,718 |
| | Employees at Work | 9 | 24 | 1,493 | 67 | 1,593 |
| Suburban | No. of Sites | 6 | 3 | 2 | 0 | 11 |
| | Surveyed Employees | 50 | 23 | 8 | 0 | 81 |
| | Surveyed Visitors | 16 | 42 | 4 | 0 | 62 |
| | Total Employment | 182 | 910 | 12 | 0 | 1,104 |
| | Employees at Work | 159 | 891 | 9 | 0 | 1,059 |
| Rural | No. of Sites | 3 | 1 | 0 | 0 | 4 |
| | Surveyed Employees | 51 | 4 | 0 | 0 | 55 |
| | Surveyed Visitors | 15 | 31 | 0 | 0 | 46 |
| | Total Employment | 153 | 7 | 0 | 0 | 160 |
| | Employees at Work | 145 | 4 | 0 | 0 | 149 |

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 trips made by people walking or using 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).

**Table 8. Partial Survey Establishments.**

| Area Type | Item | Employment Type | | | | Totals |
| --- | --- | --- | --- | --- | --- | --- |
| | | Basic | Retail | Service | Education | |
| CBD | No. of Sites | 1 | 0 | 2 | 0 | 3 |
| | Total Employment | 62 | 0 | 445 | 0 | 507 |
| | Employees at Work | 38 | 0 | 256 | 0 | 294 |
| CBD Fringe | No. of Sites | 11 | 3 | 20 | 16 | 50 |
| | Total Employment | 454 | 290 | 1,416 | 1,489 | 3,649 |
| | Employees at Work | 420 | 201 | 1,305 | 1,409 | 3,335 |
| Urban | No. of Sites | 12 | 6 | 10 | 3 | 31 |
| | Total Employment | 500 | 2,676 | 1,303 | 456 | 4,935 |
| | Employees at Work | 464 | 2,172 | 1,012 | 454 | 4,102 |
| Suburban | No. of Sites | 17 | 3 | 11 | 3 | 34 |
| | Total Employment | 1,998 | 635 | 657 | 500 | 3,790 |
| | Employees at Work | 1,909 | 366 | 607 | 481 | 3,363 |
| Rural | No. of Sites | 5 | 1 | 3 | 2 | 11 |
| | Total Employment | 211 | 8 | 79 | 330 | 628 |
| | Employees at Work | 184 | 5 | 73 | 314 | 576 |
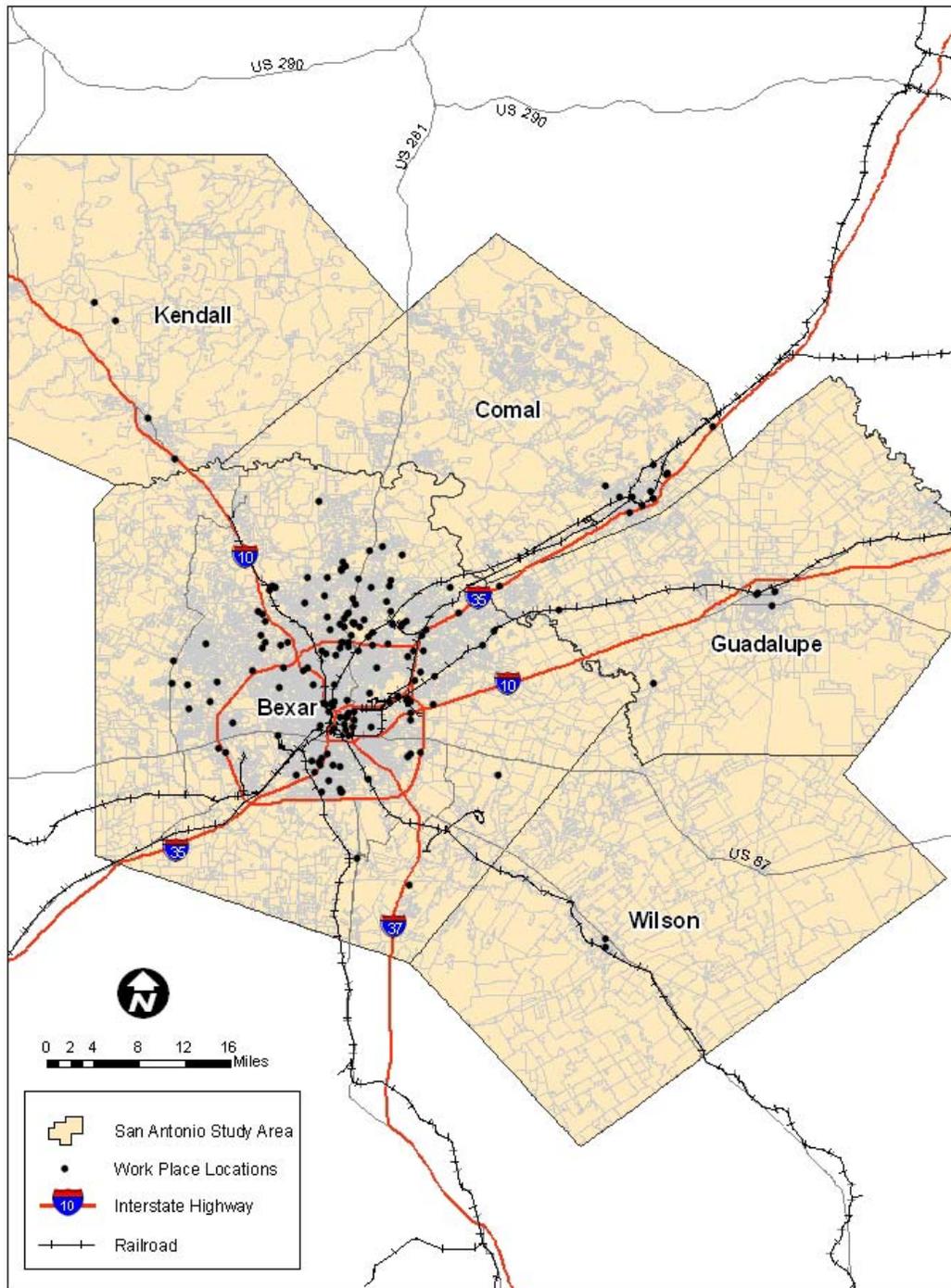
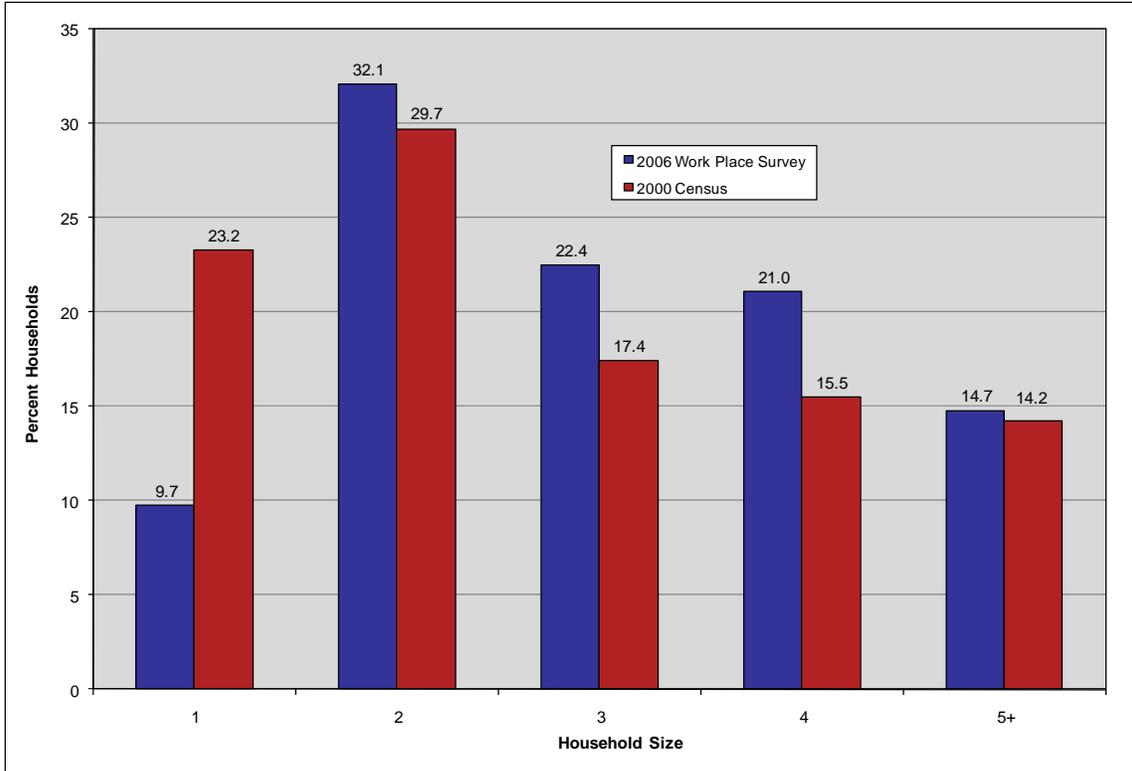**Figure 4. San Antonio Work Place Survey Locations.**

**Figure 5. Distribution of Households by Household Size.**
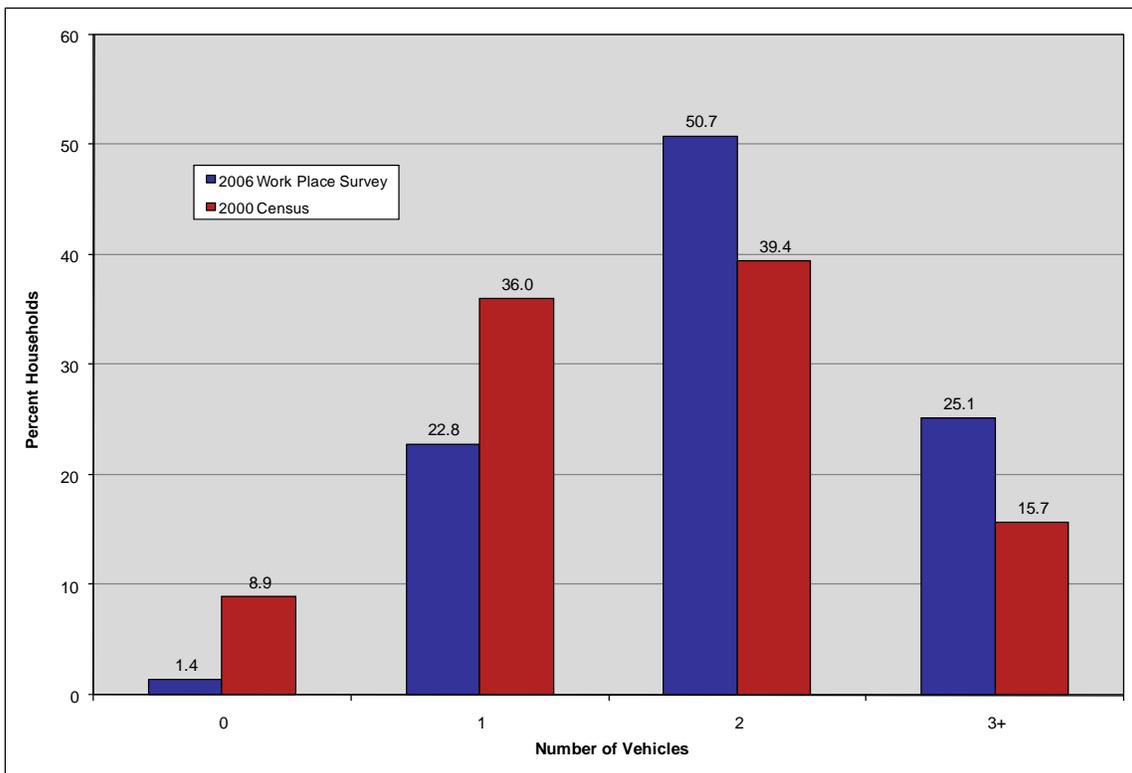


**Figure 6. Distribution of Households by Vehicles Available.**
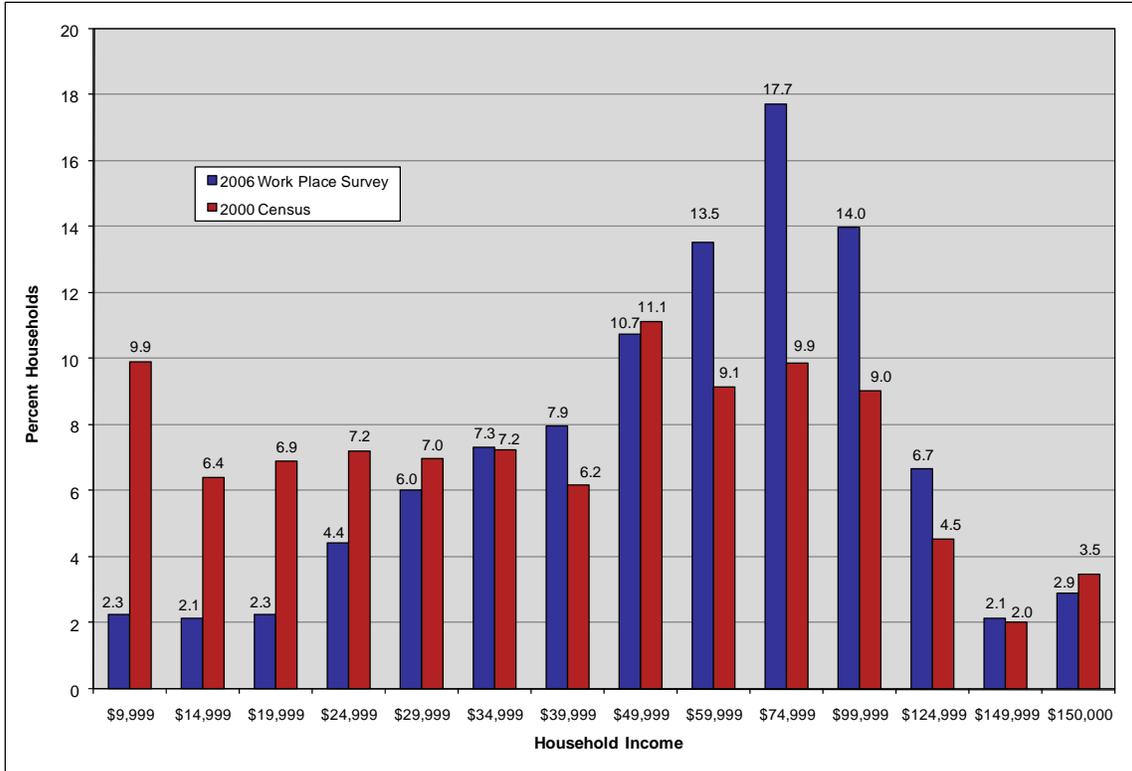
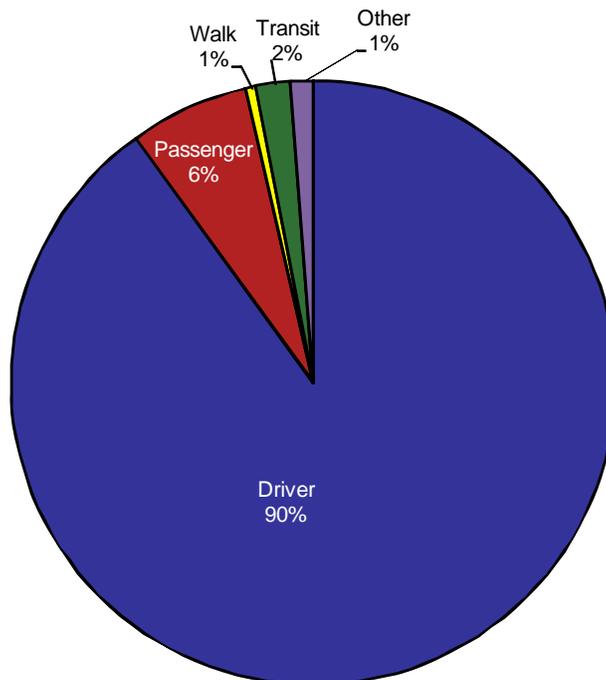**Figure 7. Distributions of Households by Household Income Range.**



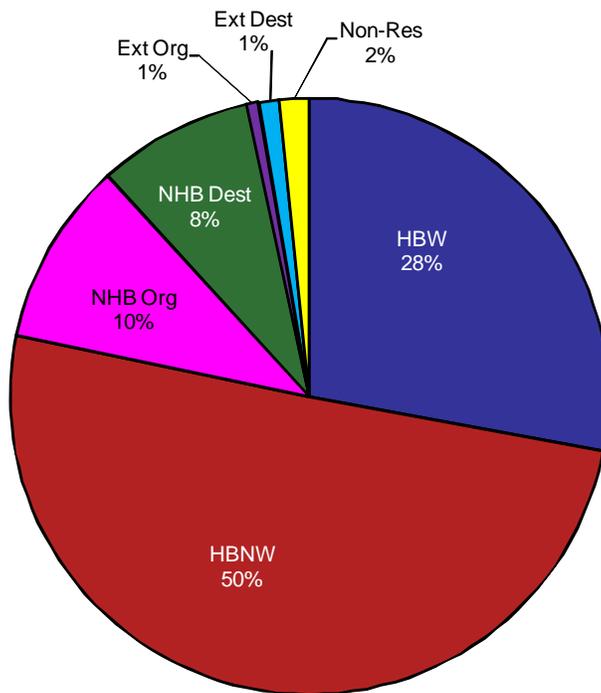**Figure 8. Distribution of Surveyed Trips by Mode of Travel.**

**Figure 9. Distribution of Surveyed Trips by Trip Purpose.**

HBNW trips are those trips with one end at the 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 estimate the travel distance for the surveyed trips. 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 fairly consistent with observed characteristics in other urban areas. Generally, the average trip length for HBW trips is higher than those for HBNW and NHB. Generally the trip length for HBNW and NHB are about the same value. This was not the case for the San Antonio area. It should be noted that for NHB trips, there were not many observations. The trip length frequency distributions are 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 the table shows, this is not the case for the San Antonio study area. Due to the small number of observations for non-resident trips, it is not recommended that average trip lengths be used for modeling those trips.

**Table 9. Average Trip Length by Trip Purpose.**

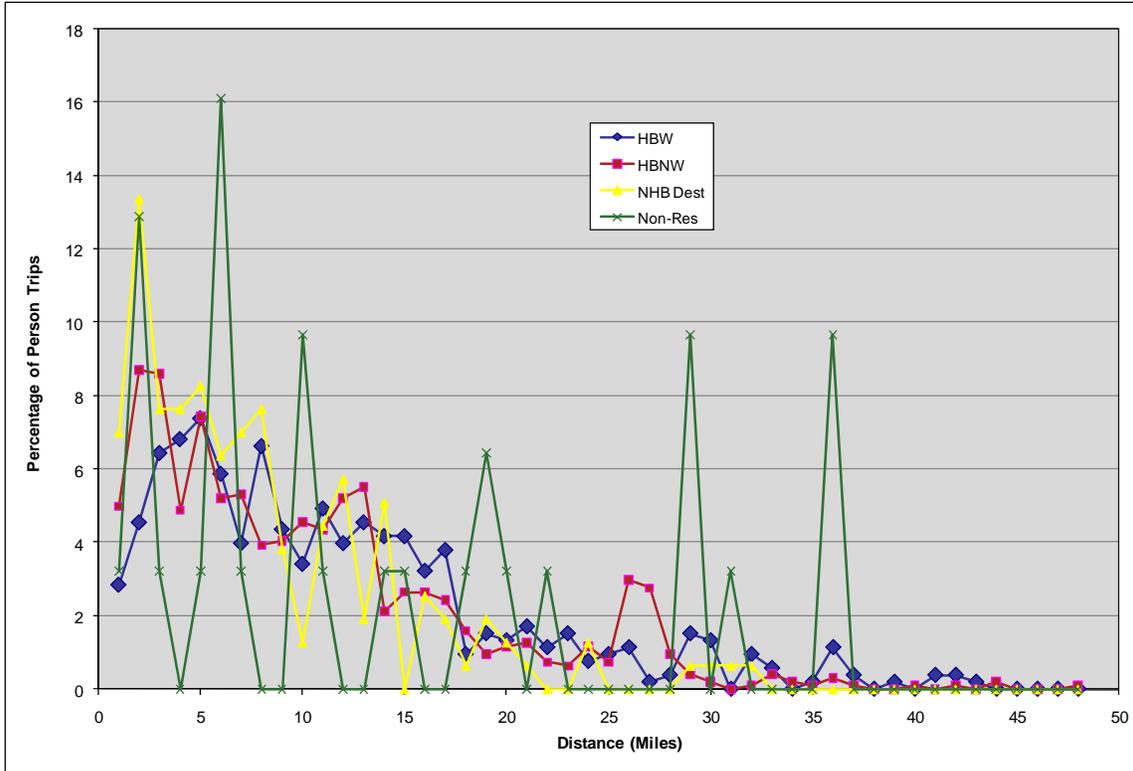| Trip Purpose/Type | Person Trips | | Vehicle Trips | |
|---|---|---|---|---|
| | Observations | Miles | Observations | Miles |
| HBW | 527 | 11.8 | 481 | 12.1 |
| HBNW | 942 | 10.6 | 845 | 10.6 |
| NHB Destinations | 157 | 8.1 | 146 | 8.3 |
| Non-Resident | 31 | 14.5 | 31 | 14.5 |

**Figure 10. Survey Person Trip Length Frequency Distributions.**
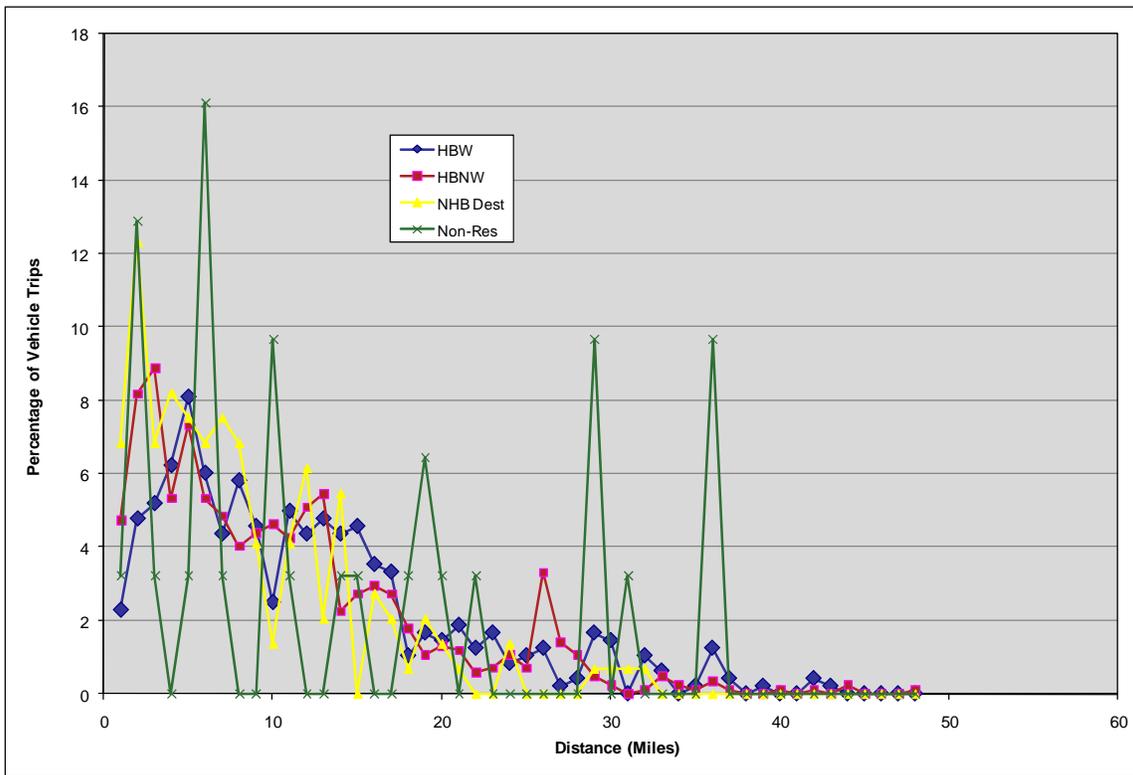


**Figure 11. Survey Vehicle Trip Length Frequency Distributions.**

Trips by trip purpose typically have distinct characteristics by time-of-day that are 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 San Antonio area are similar to those for HBW and HBNW in 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 pm. HBNW trips typically peak during the middle of the day and are spread throughout the day.

In other areas, NHB trips behaved similar to HBNW. The data for San Antonio are skewed due to the preponderance of the NHB trips being obtained from the employee survey. These trips appear to occur primarily during the morning peak, during the same time as HBW. Since most of these trips came from the employee survey, it appears these are employee trips where the employees are stopping at a location before they reach their work location. Time is shown in military terms.
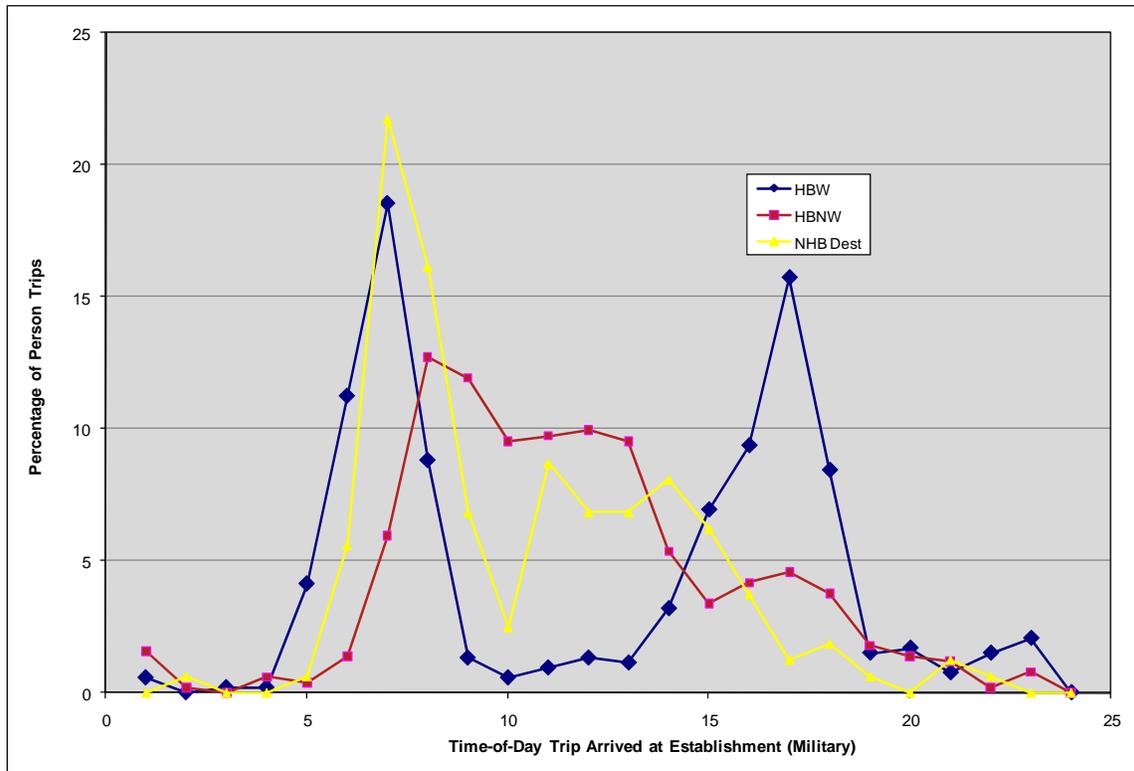


**Figure 12. Distribution of Person Trips by Time of Arrival at Establishments.**

## COMMERCIAL VEHICLE SURVEY

In addition to the employee and visitor surveys, a count and survey of commercial vehicles at the work places were also conducted. This data provides information on the commercial vehicles attracted to the establishments, their travel patterns, type of cargo, etc. The commercial vehicles count at all of the work places was 10,494; 6,036 cargo vehicles and 4,458 service vehicles.

Commercial vehicles were surveyed at 33 work places. The number of vehicles surveyed was 131 and data were collected on each vehicle trip to the site and where the vehicle was going after it left the site. Of the 131 trips to the sites, 17 (13 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 131 trips from the surveyed sites, 22 (17 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., 117) originated in the study area and 113 were destined for locations in the study area. There were 14 vehicles that originated outside the study area (not Mexico) and 18 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, 82 (63 percent), traveled to a site to make a delivery while 26 (20 percent) were picking up cargo. Six vehicles were making both deliveries and pickups.
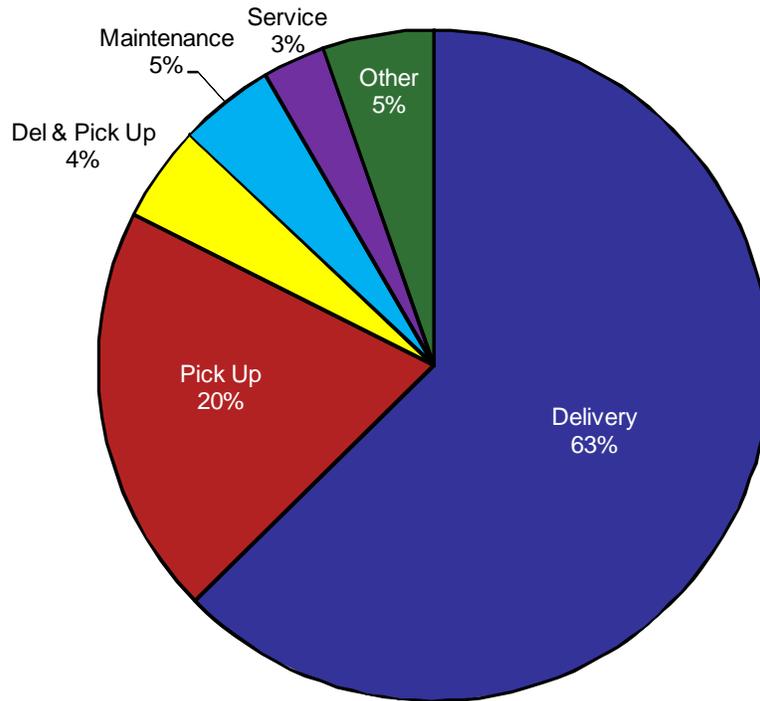


**Figure 13. Distribution of All Commercial Vehicles by Purpose at Establishments.**

Figure 14 shows the distribution of surveyed vehicles by vehicle classification. Four categories of vehicle classification 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.

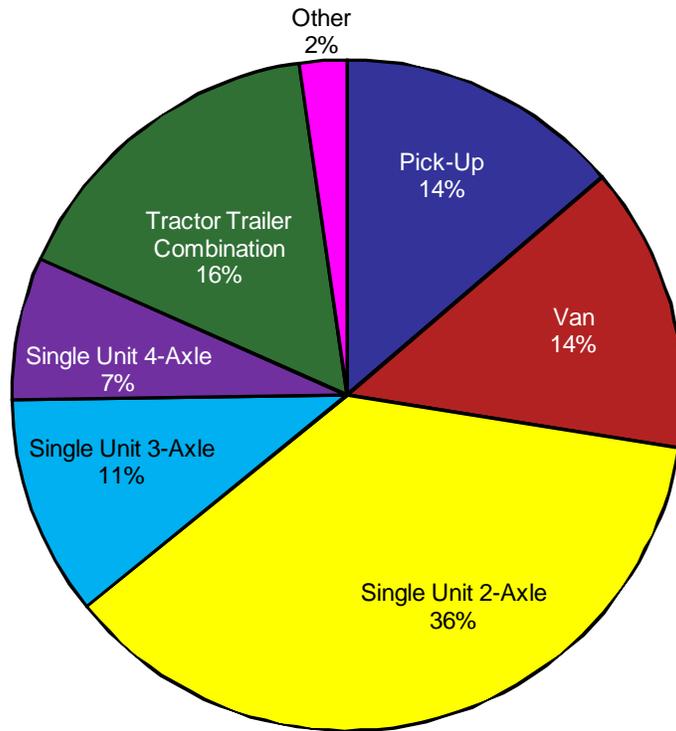**Figure 14. Distribution of Commercial Vehicles by Type of Vehicle.**

Table 10 shows the distribution of surveyed vehicles by vehicle class and type of cargo being transported. One out of every four vehicles reported carrying manufactured goods/equipment. The second highest reported cargo was metals and minerals (20 percent). Cargos of food, health, and beauty products and wood products were the next most frequently reported.

**Table 10. Distribution of Commercial Vehicles by Type of Cargo.**

| Cargo | Other | Single Unit 2-Axle | Single Unit 3-Axle | Single Unit 4-Axle | Tractor Trailer | Total |
|---|---|---|---|---|---|---|
| Farm Products | 1 | 1 | | | | 2 |
| Forest Products | | | | | | |
| Marine Products | | | | | | |
| Metals and Minerals | 5 | 15 | 1 | 3 | 3 | 27 |
| Food, Health, and Beauty Products | 3 | 9 | 3 | 1 | 1 | 17 |
| Tobacco Products | | | | | | |
| Textiles | 2 | 2 | | | | 4 |
| Wood Products | 3 | 3 | 3 | 2 | 3 | 14 |
| Printed Matter | 1 | 4 | | 2 | 1 | 8 |
| Chemical Products | | | 1 | | | 1 |
| Refined Petroleum or Coal Products | | | | | | |
| Rubber, Plastic, and Styrofoam Products | | 1 | | | | 1 |
| Clay, Concrete, Glass, or Stone | | 1 | | | | 1 |
| Manufactured Goods/Equipment | 10 | 8 | 4 | 1 | 11 | 34 |
| Wastes | | | | | | |
| Miscellaneous Shipments | 5 | | 1 | | 2 | 8 |
| Hazardous Materials | | | | | | |
| Transportation | | | | | | |
| Unclassified Cargo | | | | | | |
| Driver Refused to Answer | 1 | | | | | 1 |
| Unknown | 7 | 4 | 1 | | | 12 |
| Empty | 1 | | | | | 1 |

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 12.3 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 a strong morning peak period with a consistent distribution throughout the day until after 3 p.m.
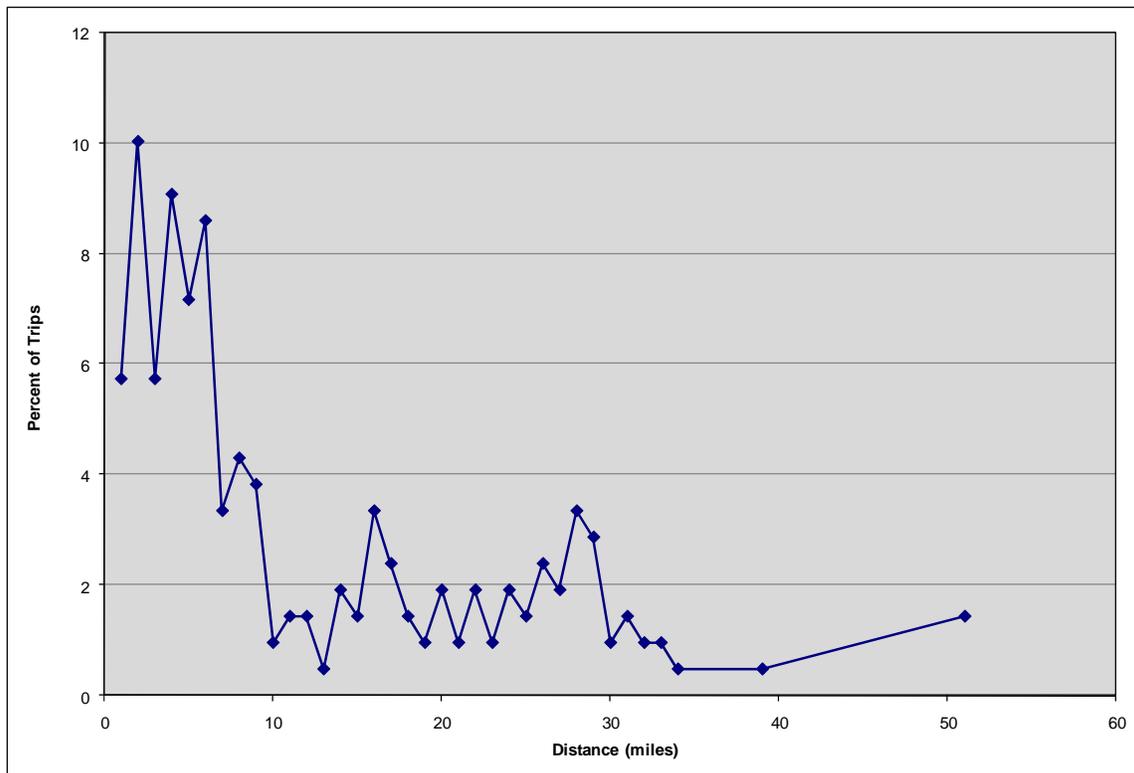


**Figure 15. Commercial Vehicle Trip Length Frequency Distribution for Distance.**
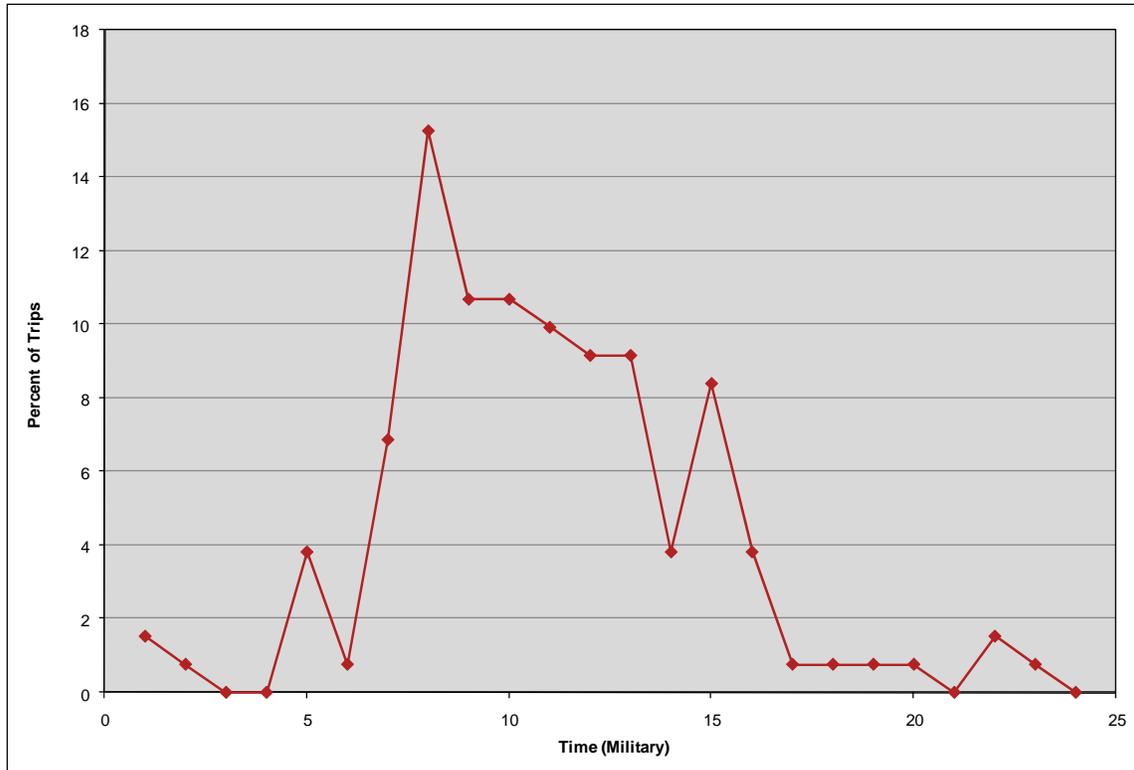
**Figure 16. Distribution of Commercial Vehicles by Time of Arrival.**

## 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. 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 kept 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 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 subgroups 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:

    a. employee vehicle trips by trip purpose and mode of travel;
    b. employee person trips by trip purpose and mode of travel;
    c. visitor vehicle trips for those sites with vehicle counts; and
    d. 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 vehicle driver, then 10 percent of the total estimated visitor vehicle trips in area type 1 and employment type 1 were estimated to be HBNW vehicle 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 calculated 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 by first estimating the commercial vehicle trips using the commercial vehicle rates from the work place survey. Rates for cells with no observations were estimated by summing the commercial vehicle counts and total employment for surveyed establishments in each employment type over all area types. Data from the commercial vehicle survey indicated 9.5 percent of all commercial vehicle trips were destined for residential land uses. The total commercial vehicle trips calculated from applying the commercial vehicle rates to the total employment were assumed to represent 90.5 percent of all commercial vehicle trips. This was used to estimate the total number of commercial vehicle trips destined for residential land uses. These were divided by the total number of households and assumed to be the same for each area type.

Tables 11 and 12 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 vehicle driver trips by area type. Table 13 presents the estimated rates for commercial vehicles.

**Table 11. Raw Person Trip Rates.**

| Trip Purpose | Area Type | Person Trips | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| | | Per Basic Employee | Per Retail Employee | Per Service Employee | Per Education Employee | Per Household |
| HBW[1] Attractions | CBD | 1.50 | * | 1.13 | * | 0.05 |
| | CBD Fringe | 1.36 | 1.05 | 1.41 | 1.29 | 0.05 |
| | Urban | 1.30 | 1.29 | 1.35 | 1.13 | 0.05 |
| | Suburban | 1.71 | 1.38 | 1.04 | 1.31 | 0.05 |
| | Rural | 1.22 | 0.90 | 1.56 | 1.30 | 0.05 |
| HBNW[2] Retail Attractions | CBD | | * | | | |
| | CBD Fringe | | 24.78 | | | |
| | Urban | | 16.24 | | | |
| | Suburban | | 14.01 | | | |
| | Rural | | 11.87 | | | |
| HBNW Other Attractions | CBD | 1.07 | | 7.99 | | 0.40 |
| | CBD Fringe | 0.40 | | 5.08 | | 0.40 |
| | Urban | 2.23 | | 7.11 | | 0.40 |
| | Suburban | 1.49 | | 1.28 | | 0.40 |
| | Rural | 1.49 | | 3.55 | | 0.40 |
| HBNW School Attractions | CBD | | | | * | |
| | CBD Fringe | | | | 26.45 | |
| | Urban | | | | 33.89 | |
| | Suburban | | | | 45.30 | |
| | Rural | | | | 31.49 | |
| NHB[3] Destination | CBD | 0.16 | * | 0.25 | * | 0.20 |
| | CBD Fringe | 1.20 | 3.11 | 0.38 | 0.26 | 0.20 |
| | Urban | 0.37 | 0.19 | 0.77 | 0.14 | 0.20 |
| | Suburban | 0.49 | 1.85 | 0.64 | 0.26 | 0.20 |
| | Rural | 0.31 | 2.01 | 0.37 | 0.26 | 0.20 |
| NHB[3] Origin | CBD | 0.29 | * | 0.39 | * | 0.20 |
| | CBD Fringe | 1.24 | 5.41 | 0.60 | 0.21 | 0.20 |
| | Urban | 0.56 | 0.32 | 0.83 | 0.14 | 0.20 |
| | Suburban | 0.62 | 2.50 | 0.35 | 0.21 | 0.20 |
| | Rural | 0.37 | 4.97 | 0.43 | 0.21 | 0.20 |
| External Destination | CBD | 0.01 | * | 0 | * | NA |
| | CBD Fringe | 0 | 0.61 | 0.02 | 0 | NA |
| | Urban | 0 | 0 | 0.12 | 0 | NA |
| | Suburban | 0 | 1.27 | 0 | 0 | NA |
| | Rural | 0 | 1.86 | 0.04 | 0 | NA |
| External Origin | CBD | 0 | * | 0 | * | NA |
| | CBD Fringe | 0.04 | 0.21 | 0.02 | 0 | NA |
| | Urban | 0 | 0 | 0.09 | 0 | NA |
| | Suburban | 0 | 0.51 | 0 | 0 | NA |
| | Rural | 0 | 1.11 | 0.04 | 0 | NA |
| Non Resident | CBD | 0.04 | * | 0.05 | * | NA |
| | CBD Fringe | 0.40 | 0.57 | 0.31 | 0.14 | NA |
| | Urban | 0.37 | 0 | 0.15 | 0.57 | NA |
| | Suburban | 0.24 | 1.27 | 0 | 0.14 | NA |
| | Rural | 0.14 | 1.48 | 0.09 | 0.14 | NA |

[1] HBW – Home-Based Work; [2] HBNW – Home Based Non-Work; and [3] NHB – Non-Home Based.
* No observations.

**Table 12. Raw Auto Driver Trip Rates.**

| Trip Purpose | Area Type | Person Trips | | | | |
|---|---|---|---|---|---|---|
| | | Per Basic Employee | Per Retail Employee | Per Service Employee | Per Education Employee | Per Household |
| HBW[1] Attractions | CBD | 1.38 | * | 0.60 | * | 0.05 |
| | CBD Fringe | 1.36 | 0.97 | 1.41 | 1.19 | 0.05 |
| | Urban | 1.30 | 1.29 | 1.23 | 1.13 | 0.05 |
| | Suburban | 1.52 | 1.31 | 1.04 | 1.21 | 0.05 |
| | Rural | 1.15 | 0.60 | 1.29 | 1.19 | 0.05 |
| HBNW[2] Retail Attractions | CBD | | * | | | |
| | CBD Fringe | | 23.96 | | | |
| | Urban | | 16.24 | | | |
| | Suburban | | 14.01 | | | |
| | Rural | | 11.87 | | | |
| HBNW Other Attractions | CBD | 1.01 | | 7.99 | | 0.26 |
| | CBD Fringe | 0.40 | | 5.08 | | 0.26 |
| | Urban | 2.23 | | 6.61 | | 0.26 |
| | Suburban | 1.49 | | 1.28 | | 0.26 |
| | Rural | 1.49 | | 3.43 | | 0.26 |
| HBNW School Attractions | CBD | | | | * | |
| | CBD Fringe | | | | 26.45 | |
| | Urban | | | | 33.89 | |
| | Suburban | | | | 45.30 | |
| | Rural | | | | 31.49 | |
| NHB[3] Destination | CBD | 0.16 | * | 0.21 | * | 0.15 |
| | CBD Fringe | 1.20 | 3.11 | 0.38 | 0.26 | 0.15 |
| | Urban | 0.37 | 0.19 | 0.71 | 0.14 | 0.15 |
| | Suburban | 0.49 | 1.85 | 0.64 | 0.26 | 0.15 |
| | Rural | 0.31 | 2.01 | 0.34 | 0.26 | 0.15 |
| NHB[3] Origin | CBD | 0.29 | * | 0.39 | * | 0.15 |
| | CBD Fringe | 1.24 | 5.41 | 0.60 | 0.21 | 0.15 |
| | Urban | 0.56 | 0.32 | 0.80 | 0.14 | 0.15 |
| | Suburban | 0.62 | 2.50 | 0.35 | 0.21 | 0.15 |
| | Rural | 0.37 | 4.97 | 0.43 | 0.21 | 0.15 |
| External Destination | CBD | 0.01 | * | 0 | * | NA |
| | CBD Fringe | 0 | 0.61 | 0.02 | 0 | NA |
| | Urban | 0 | 0 | 0.12 | 0 | NA |
| | Suburban | 0 | 1.02 | 0 | 0 | NA |
| | Rural | 0 | 1.86 | 0.04 | 0 | NA |
| External Origin | CBD | 0 | * | 0 | * | NA |
| | CBD Fringe | 0.04 | 0.21 | 0.02 | 0 | NA |
| | Urban | 0 | 0 | 0.09 | 0 | NA |
| | Suburban | 0 | 0.26 | 0 | 0 | NA |
| | Rural | 0 | 1.11 | 0.04 | 0 | NA |
| Non Resident | CBD | 0.04 | * | 0.05 | * | NA |
| | CBD Fringe | 0.40 | 0.57 | 0.31 | 0.14 | NA |
| | Urban | 0.37 | 0 | 0.15 | 0.57 | NA |
| | Suburban | 0.24 | 1.27 | 0 | 0.14 | NA |
| | Rural | 0.14 | 1.48 | 0.09 | 0.14 | NA |

[1] HBW – Home-Based Work; [2] HBNW – Home Based Non-Work; and [3] NHB – Non-Home Based.
* No observations.

**Table 13. Raw Commercial Vehicle Attraction Rates.**

| Area Type | Commercial Vehicle Trips | | | | |
|---|---|---|---|---|---|
| | Per Basic Employee | Per Retail Employee | Per Service Employee | Per Education Employee | Per Household |
| CBD | 0.30 | * | 0.15 | * | 0.08 |
| CBD Fringe | 0.80 | 1.48 | 0.50 | 0.69 | 0.08 |
| Urban | 1.39 | 0.26 | 0.31 | 0.96 | 0.08 |
| Suburban | 0.68 | 0.33 | 0.30 | 1.56 | 0.08 |
| Rural | 0.55 | 1.47 | 0.43 | 1.72 | 0.08 |

* No observations.

**Model Rate Development**

The work place 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 11 through 13 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. 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 11 through 13 were applied to estimates of employment and households for the San Antonio study area. Table 14 shows the employment estimates for the San Antonio study area. These estimates were obtained from the San Antonio Bexar County Metropolitan Planning Organization zonal demographic data.

**Table 14. Employment Estimates for San Antonio Study Area.**

| Area Type | Employment Type | | | |
|---|---|---|---|---|
| | Basic | Retail | Service | Education |
| CBD | 7,008 | 7,982 | 38,505 | 235 |
| CBD Fringe | 43,635 | 56,986 | 207,621 | 15,105 |
| Urban | 41,604 | 52,078 | 91,509 | 13,564 |
| Suburban | 41,424 | 43,643 | 86,308 | 14,640 |
| Rural | 17,627 | 6,930 | 16,700 | 4,367 |
| **Totals** | **151,298** | **167,619** | **440,643** | **47,911** |

Estimates of trips by trip purpose were developed by multiplying the trip rates shown in Tables 11 through 13 by the employment estimates shown in Table 14 and by the number of households by area type. Cells where no establishments were surveyed were estimated by using the rates for the adjacent cell within the same employment type. These estimates are shown in Table 15 with the estimates from the San Antonio household survey, external station survey, and commercial vehicle survey. Note that these are raw unadjusted estimates for the work place survey.

**Table 15. Raw Unadjusted Travel Estimates for San Antonio Study Area.**

| Trip Purpose/Type | Work Place Survey | | Household Survey[1] | | External Station Survey | | Commercial Vehicle |
|---|---|---|---|---|---|---|---|
| | Person | Vehicle | Person | Vehicle | Person | Vehicle | Vehicle |
| Home Based Work | 1,084,138 | 1,024,399 | 1,064,554 | 960,270 | - | - | - |
| Home Based Non-Work Retail | 3,149,219 | 3,096,010 | 1,154,992 | 729,426 | - | - | - |
| Home Based Non-Work Other | 2,638,090 | 2,590,034 | 1,011,786 | 640,940 | - | - | |
| Home Based Non-Work Edu (K-12) | 1,666,113 | 1,666,113 | 1,035,111 | 338,673 | - | - | - |
| NHB – Destinations | 757,406 | 749,675 | 1,616,866 | 1,067,842 | - | - | - |
| NHB - Origins | 1,008,797 | 1,006,026 | - | - | - | - | - |
| External Destinations | 124,792 | 113,707 | - | - | 140,755 | 105,831 | - |
| External Origins | 58,786 | 47,701 | - | - | 140,755 | 105,831 | - |
| Non-Resident | 241,342 | 241,342 | - | - | - | - | - |
| Commercial Vehicles[2] | - | 542,642 | - | - | - | 43,573 | 206,882 |

[1] Based on the smoothed adjusted trip rates.
[2] Internal trips only.

The data in Table 15 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 destinations 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.

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 work place survey are 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 estimate of internal commercial vehicle trips from the work place survey is much larger 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 for all purposes except commercial vehicles were initially adjusted as follows:

- attraction rates for cells where no establishments were surveyed were set equal to the aggregate attraction rates for the employment type computed for all area types combined; and
- all attraction rates were adjusted to balance the aggregate estimates with the aggregate estimates of trip productions for each trip purpose.

The resulting rates were applied in the travel demand model and the results were not acceptable. In reviewing the results, it appeared to indicate a problem with the differences in attraction rates across area types. Given the limited number of observations in the survey, the decision was made to combine the work place survey data from the San Antonio survey with the data from the Austin work place survey data to increase the number of establishments in the data and hopefully

improve the resulting attraction rates. Rates were developed using the same procedures and then manually smoothed to reduce the extreme changes across area types.

After applying the rates to the employment estimates in the San Antonio study area, the rates were adjusted to balance the estimates of attractions with productions from the household survey. The commercial vehicle rates from the San Antonio work place survey were also adjusted to account for external commercial vehicle trips, i.e., the total estimate was reduced by the number of external commercial vehicle trips based on the external survey. Tables 16 and 17 show the final recommended trip rates. Only rates for person trips and commercial trips are shown since these are the rates needed for the travel demand model.

**Table 16. Recommended Person Trip Attraction Rates.**

| Trip Purpose | Area Type | Person Trips | | | | |
| | | Per Basic Employee | Per Retail Employee | Per Service Employee | Per Education Employee | Per Household |
|---|---|---|---|---|---|---|
| HBW[1] | CBD | 1.36 | 1.06 | 1.32 | 1.31 | 0.05 |
| | CBD Fringe | 1.27 | 1.04 | 1.43 | 1.09 | 0.05 |
| | Urban | 1.22 | 1.08 | 1.36 | 1.14 | 0.05 |
| | Suburban | 1.22 | 1.07 | 1.39 | 1.17 | 0.05 |
| | Rural | 1.20 | 1.07 | 1.22 | 1.22 | 0.05 |
| HBNW[2] Retail | CBD | | 4.80 | | | |
| | CBD Fringe | | 6.39 | | | |
| | Urban | | 6.98 | | | |
| | Suburban | | 7.58 | | | |
| | Rural | | 8.38 | | | |
| HBNW Other | CBD | 0.49 | | 0.98 | | 0.40 |
| | CBD Fringe | 0.41 | | 1.28 | | 0.40 |
| | Urban | 0.32 | | 1.46 | | 0.40 |
| | Suburban | 0.27 | | 1.55 | | 0.40 |
| | Rural | 0.22 | | 1.94 | | 0.40 |
| HBNW School | CBD | | | | 19.97 | |
| | CBD Fringe | | | | 20.42 | |
| | Urban | | | | 21.29 | |
| | Suburban | | | | 22.55 | |
| | Rural | | | | 23.60 | |
| NHB[3] | CBD | 0.74 | 5.43 | 0.83 | 5.43 | 0.20 |
| | CBD Fringe | 0.69 | 4.84 | 0.89 | 4.34 | 0.20 |
| | Urban | 0.64 | 4.54 | 1.09 | 3.55 | 0.20 |
| | Suburban | 0.57 | 4.34 | 1.18 | 2.26 | 0.20 |
| | Rural | 0.54 | 3.95 | 1.78 | 1.22 | 0.20 |

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

**Table 17. Recommended Commercial Vehicle Trip Attraction Rates.**

| Area Type | Commercial Vehicle Trips | | | | |
|---|---|---|---|---|---|
| | Per Basic Employee | Per Retail Employee | Per Service Employee | Per Education Employee | Per Household |
| CBD | 0.27 | 0.53 | 0.14 | 0.99 | 0.08 |
| CBD Fringe | 0.73 | 1.34 | 0.46 | 0.63 | 0.08 |
| Urban | 1.27 | 0.24 | 0.29 | 0.87 | 0.08 |
| Suburban | 0.62 | 0.30 | 0.27 | 1.42 | 0.08 |
| Rural | 0.50 | 1.33 | 0.39 | 1.57 | 0.08 |

## SUMMARY OF FINDINGS

The 2005/06 San Antonio 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 1,774. Nearly 39 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 43 randomly-selected establishments and two data collection efforts at 129 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.

A total of 341 employees participated at the 43 establishments that were fully surveyed. The number of visitors surveyed at those sites totaled 625. Information was collected on 679 site related trips for the employees and 1,250 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 3.1. This was higher than the 2000 Census estimate of 2.8 persons per household. The average household income for participants was $61,479 and the median household income was $55,118. The 2000 Census reported the average household income for the

five counties in the San Antonio study area was $50,125 and the median household income was $39,340.

Basic employment was found to have the smallest attraction trip rates and education employment had the highest. The number of HBW person trip attractions per employee (average) ranged from a low of 0.90 to a high of 1.71. The number of HBNW person trip attractions per employee ranged from a low of 0.40 to a high of 45.30. The number of NHB person trip destinations per employee ranged from a low of 0.14 to a high of 3.11. The number of non-resident person trips per employee ranged from a low of 0.04 to a high of 1.48. These values represent the observed data from the survey and not the final recommendations.

Travel by non-residents in the San Antonio study area is a significant amount, over 240,000 daily person trips. The distribution of trips by purpose as estimated from the work place survey appear to reasonably estimate the amount of HBW travel and over estimate the amount of HBNW travel.

Tables 11 through 13 show the trip rates as observed in the work place survey. These rates were adjusted based on estimates of travel from the household survey, external station survey, and commercial vehicle survey. These adjustments used estimates of employment for the San Antonio study area from the San Antonio-Bexar County Metropolitan Planning Organization. Tables 16 and 17 show the recommended attraction rates. Since adjustments to the observed trip rates are sensitive to the amount of employment and the distribution of employment, note that additional adjustments might be necessary in the calibration phase of the travel demand model to achieve acceptable results. The rates presented in Tables 16 and 17 are recommended for use in the San Antonio travel demand model subject to further adjustments to achieve acceptable results.

**APPENDIX A:**
**TRAVEL SURVEY FORMS**

Survey Date: _____          Site # _____
Record Type 9                                   SIC Code: _____
**WORKPLACE ESTABLISHMENT SURVEY**              Serial Code: _____
**Form A**                                      Area Type : _____
                                                Employment Type: _____
                                                ☐ Free Standing
                                                ☐ Non-Free Standing

## Workplace Information

_____
Name

_____
Street Address

_____
City                              State                    Zip Code                Telephone

## Management Information

CEO/Administrator         Name:_____Telephone:_____

                          Title:_____

Personnel Manager         Name:_____Telephone:_____

or Other Contact          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 _____ If multiple shifts:_____
                   Times                                               Number of employees per shift

## Parking Information (Optional)

Parking Spaces: _____ Parking Fee(s):_____
                Number & Location

## Delivery Information

Loading Docks: _____
               Number and Location(s)

Delivery Hours                          No. of Deliveries
(If Restricted) ——————————————————————  on Day of Survey ——————————————————————————————

## Transit Information

Bus Stops(s): _____
              Number and Location(s)

Bus Route(s): _____
              Name(s)/Numbers(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

**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:**

| Veh. No. | Year | Make | Model | Vehicle Type | | Circle One | Odometer Readings on Travel Day | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Beginning | Ending |
| 1 | | | | ☐ motorcycle ☐ car ☐ van ☐ SUV ☐ pickup | ☐ commercial vehicle ☐ other - specify _____ | 1) Diesel 2) Gas 3) Other_____ | | |
| 2 | | | | ☐ motorcycle ☐ car ☐ van ☐ SUV ☐ pickup | ☐ commercial vehicle ☐ other - specify _____ | 1) Diesel 2) Gas 3) Other_____ | | |
| 3 | | | | ☐ motorcycle ☐ car ☐ van ☐ SUV ☐ pickup | ☐ commercial vehicle ☐ other - specify _____ | 1) Diesel 2) Gas 3) Other_____ | | |
| 4 | | | | ☐ motorcycle ☐ car ☐ van ☐ SUV ☐ pickup | ☐ commercial vehicle ☐ other - specify _____ | 1) Diesel 2) Gas 3) Other_____ | | |
| 5 | | | | ☐ motorcycle ☐ car ☐ van ☐ SUV ☐ pickup | ☐ commercial vehicle ☐ other - specify _____ | 1) Diesel 2) Gas 3) Other_____ | | |

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 | 6) | ☐ $25,000 to $29,999 | 11) | ☐ $60,000 to $74,999 |
| 2) | ☐ $5,000 to $9,999 | 7) | ☐ $30,000 to $34,999 | 12) | ☐ $75,000 to $99,999 |
| 3) | ☐ $10,000 to $14,999 | 8) | ☐ $35,000 to $39,999 | 13) | ☐ $100,000 to $124,999 |
| 4) | ☐ $15,000 to $19,999 | 9) | ☐ $40,000 to $49,999 | 14) | ☐ $125,000 to $149,999 |
| 5) | ☐ $20,000 to $24,999 | 10) | ☐ $50,000 to $59,999 | 15) | ☐ $150,000 or more |

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.

**Form B - PART 2: TRIP INFORMATION**

SITE # _____

SAMPLE # _____

**BEGIN**:     MY FIRST TRIP TODAY BEGAN AT: ☐ (1) Home    ☐ (2) Work    ☐ (99) Other Location

**PLEASE ENTER YOUR**:

_____
(Fill in address)

TRAVEL DAY: _____

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

DEPARTURE TIME: _____ am / pm

| 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) |
|---|---|---|---|---|---|---|---|
| **1. FIRST I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes    ☐ No | ☐ a.m.<br>☐ p.m.<br><br>_____<br>Arrive<br><br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels, recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br>☐ (2) Go to Work<br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br>☐ (9) Change Travel Mode<br>☐ (10) Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |

☞ 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)**

| 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) |
|---|---|---|---|---|---|---|---|
| **2.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes          ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1)  Driver (car/truck/van)<br><br>☐ (2)  Passenger (car/truck/van)<br><br>☐ (3)  Walk<br>☐ (4)  Bicycle<br>☐ (5)  Bus<br>☐ (6)  School Bus<br>☐ (7)  Taxi / Paid Limousine<br>☐ (8)  Commercial Cargo Transport Vehicle<br><br>☐ (9)  Commercial Service Vehicle<br>☐ (10)  Motorcycle<br>☐ (11)  Other<br><br>_____ | _____<br>number of people | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br><br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |
| **3.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes          ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1)  Driver (car/truck/van)<br><br>☐ (2)  Passenger (car/truck/van)<br><br>☐ (3)  Walk<br>☐ (4)  Bicycle<br>☐ (5)  Bus<br>☐ (6)  School Bus<br>☐ (7)  Taxi / Paid Limousine<br>☐ (8)  Commercial Cargo Transport Vehicle<br><br>☐ (9)  Commercial Service Vehicle<br>☐ (10)  Motorcycle<br>☐ (11)  Other<br><br>_____ | _____<br>number of people | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br><br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |

| 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) |
|---|---|---|---|---|---|---|---|
| **4.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes        ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |
| **5.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes        ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |

| 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) |
|---|---|---|---|---|---|---|---|
| **6. NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes    ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10) Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____  Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>_____<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |
| **7. NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes    ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10) Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____  Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>_____<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |

**Form B - PART 2: TRIP INFORMATION  (continued)**

| 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) |
|---|---|---|---|---|---|---|---|
| **8. NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes      ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br>☐ (2) Go to Work<br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br>☐ (9) Change Travel Mode<br>☐ (10) Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |
| **9. NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes      ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br>☐ (2) Go to Work<br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br>☐ (9) Change Travel Mode<br>☐ (10) Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |

**Form B - PART 2: TRIP INFORMATION  (continued)**

| 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) |
|---|---|---|---|---|---|---|---|
| **10.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes        ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____  Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |
| **11.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes        ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____  Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |

**Form B - PART 2: TRIP INFORMATION  (continued)**

| 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) |
|---|---|---|---|---|---|---|---|
| **12.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes          ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br><br>_____<br>Model<br><br><br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |
| **13.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes          ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br><br>_____<br>Model<br><br><br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |

**Form B - PART 2: TRIP INFORMATION  (continued)**

| 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) |
|---|---|---|---|---|---|---|---|
| **14.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes        ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |
| **15.  NEXT I WENT TO:**<br><br>_____<br>Name of Place<br><br>_____<br>Address or nearest intersection<br><br>_____<br>City / state / zip<br><br>If this place is outside of  x,y, and z counties, what road were you on when you entered / exited the area<br><br>_____<br>(road name)<br><br>Do you normally work at or out of this location?<br>☐ Yes        ☐ No | _____<br>Arrive<br><br>☐ a.m.<br>☐ p.m.<br><br>_____<br>Depart<br><br>☐ a.m.<br>☐ p.m. | ☐ (0) Residential<br><br>☐ (1) Industrial, Manufacturing, Agricultural, Construction Mining / Refining, Transportation, Warehousing<br><br>☐ (2) Retail trade, shopping for food, gas, clothes, home, garden. Restaurants. Any place that sells something<br><br>☐ (3) Services - banking, medical, governmental educational, repair, hotels recreation, amusement<br><br>☐ (4) Other<br>_____ | ☐ (1) Leave / Return Home<br><br>☐ (2) Go to Work<br><br>☐ (3) Work Related<br>☐ (4) School<br>☐ (5) Social/Recreation<br>☐ (6) Eat Out<br>☐ (7) Shop<br>☐ (8) Pick-up/Drop-off Passenger<br><br>☐ (9) Change Travel Mode<br><br>☐ (10)  Personal Business<br>☐ (11) Other<br><br>_____ | ☐ (1) Driver (car/truck/van)<br>☐ (2) Passenger (car/truck/van)<br>☐ (3) Walk<br>☐ (4) Bicycle<br>☐ (5) Bus<br>☐ (6) School Bus<br>☐ (7) Taxi / Paid Limousine<br>☐ (8) Commercial Cargo Transport Vehicle<br>☐ (9) Commercial Service Vehicle<br>☐ (10) Motorcycle<br>☐ (11) Other<br><br>_____ | _____<br>number of people<br><br>**If you paid parking, what was parking cost?**<br><br>$____.____ | _____<br>Year<br><br>_____<br>Make<br><br>_____<br>Model<br><br>Per<br>☐ Hour<br>☐ Day<br>☐ Month | What was the bus fare?:<br><br>$ _____<br><br>How did you get to the bus stop?<br><br>☐ (1) Drove and parked<br>☐ (2) Dropped off<br>☐ (3) Walked<br>☐ (4) Carpooled<br>☐ (5) Other<br><br>_____ |

# VISITOR TRAVEL SURVEY
**Form C**

Site # _____
Date: _____/_____/_____
Interviewer _____
Area Type _____

Address: _____

Date: _____     Location: _____

| Questions | Person 1 | Person 2 |
|---|---|---|
| 1. Do you work in this building?<br> a. Yes – stop interview<br> b. No – continue interview | 1) Yes<br>2) No | 1) Yes<br>2) No |
| 2. In what city or county do you live? | | |
| 3a. Is that outside of x,y,or,z county? (If NO go to question 4)<br><br>3b. If YES ask: Did you stay over night in one of the above counties?<br><br>3c. If YES – Where did you stay?<br><br>3d. If NO – Which roadway did you use to enter the area? (airport is an option) | a. ☐ Yes   ☐ No   (If NO go to Question 4)<br><br>b. ☐ Yes   ☐ No   (If NO go to Question 4)<br><br>c. _____<br><br>d. _____ | a. ☐ Yes   ☐ No   (If NO go to Question 4)<br><br>b. ☐ Yes   ☐ No   (If NO go to Question 4)<br><br>c. _____<br><br>d. _____ |
| 4. What is your home address or nearest two intersecting streets? | | |
| 5a. Did you travel here directly from your home with no stops? (if YES go to Question 7)<br><br>5b. If NO where did you start your trip that brought you to_____ ? | a. ☐ Yes     ☐ No<br>(If YES go to Question 7)<br><br>b. _____<br>(Address or nearest intersection) | a. ☐ Yes     ☐ No<br>(If YES go to Question 7)<br><br>b. _____<br>(Address or nearest intersection) |
| 6a. Is that location:<br><br><br><br>6b. If outside of X,Y, or Z county, what street or highway were you on when you entered the area? | a. ☐ In X County?<br>   ☐ In Y County?<br>   ☐ In Z County?<br>   ☐ Outside of XY and Z counties<br><br>b. _____<br><br>_____ | a. ☐ In X County?<br>   ☐ In Y County?<br>   ☐ In Z County?<br>   ☐ Outside of XY and Z counties<br><br>b. _____<br><br>_____ |
| 7. What approximate time did you arrive at this location today? | _____ a.m. / _____ p.m. | _____ a.m. / _____ p.m. |
| 8. How did you arrive here at the _____ today? (Choose from arrival options) | | |
| 9a. If car/truck/van ask: How many people, including yourself, were in the vehicle?<br>9b. If bus, ask: What fare did you pay? | a) # people_____<br><br>b) Fare $_____._____ | a) # people_____<br><br>b) Fare $_____._____ |
| 10. What is the reason for coming here today? (Choose from trip purpose options) | Number _____<br><br>Other _____ | Number _____<br><br>Other _____ |
| 11. When you leave here are you going straight home with no stops? | ☐ Yes    ☐ No<br>(If YES go to Question 14) | ☐ Yes    ☐ No<br>(If YES go to Question 14) |
| (If Q.11 = Yes, then skip)<br><br>12. What is the address of the place you will be going? | _____<br><br>_____<br>(Address or nearest intersection) | _____<br><br>_____<br>(Address or nearest intersection) |

| Questions | Person 1 | Person 2 |
|---|---|---|
| (If Q.11 = Yes, then skip)<br><br>13a. Is that location: | a. ☐ In X County?<br>☐ In Y County?<br>☐ In Z County?<br>☐ Outside of XY and Z counties | a. ☐ In X County?<br>☐ In Y County?<br>☐ In Z County?<br>☐ Outside of XY and Z counties |
| 13b. If outside of X,Y, or Z county what street or highway will you be on when you leave this area? | b. _____<br><br>_____ | b. _____<br><br>_____ |
| 14. How many people live at your home address? (Do not count guests) | | |
| 15. How many vehicles are available for use by members of your household? | | |
| 16. If you combined the annual income of all members of your household, into what range would it fall? | Range: _____<br>(see below for ranges) | Range: _____<br>(see below for ranges) |

| **Arrival Option** | **Trip Purpose Options** | **Household Income Range** |
|---|---|---|
| 1) Driver (car/truck/van)<br>2) Passenger (car/truck/van)<br>3) Walk<br>4) Bicycle<br>5) Bus<br>6) School Bus<br>7) Taxi / Paid Limousine<br>8) Commercial Cargo Transport Vehicle<br>9) Commercial Service Vehicle<br>10) Motorcycle<br>11) Other – specify in block<br>99) Non-Response | 1) Work related<br>2) School<br>3) Social / recreational / visit<br>4) Shop<br>5) Eat out<br>6) Pick up / drop off passenger<br>7) Change travel mode<br>8) Delivery – pick up / drop off<br>9) Other – specify in block<br>99) Non-response | 1.) Less than $5,000    9) $40,000 - $49,999<br>2.) $5,000 – $9,999    10) $50,000 - $59,999<br>3.) $10,000 - $14,999    11) $60,000 - $74,999<br>4.) $15,000 - $19,999    12) $75,000 - $99,999<br>5.) $20,000 - $24,999    13) $100,000 - $124,999<br>6.) $25,000 - $29,999    14) $125,000 - $149,999<br>7.) $30,000 - $34,999    15) $$150,000 or more<br>8.) $35,000 - $39,999 |

# VISITOR TRAVEL SURVEY
**Form D**

**Non Free Standing Workplace**
_____Survey Area
Site # _____
Date: _____/_____/_____
Interviewer _____
Area Type _____

Address: _____

Date: _____     Location: _____

| Questions | Person 1 | Person 2 |
|---|---|---|
| 1. Do you work in this building?<br> c.   Yes – stop interview<br> d.   No – continue interview | 1) Yes<br>2) No | 1) Yes<br>2) No |
| 2.  In what city or county do you live? | | |
| 3a.  Is that outside of X,Y, or Z county? (If NO go to question 4)<br><br>3b. If YES ask: Did you stay over night in X,Y, or Z county?<br>3c. If YES – Where did you stay?<br>3d. If NO – Which roadway did you use to enter the area? (airport is an option) | a. ☐ Yes  ☐ No<br>(If NO go to Question 4)<br><br>b. ☐ Yes  ☐ No<br>(If NO go to Question 4)<br><br>c. _____<br><br>d. _____ | a. ☐ Yes  ☐ No<br>(If NO go to Question 4)<br><br>b. ☐ Yes  ☐ No<br>(If NO go to Question 4)<br><br>c. _____<br><br>d. _____ |
| 4.  What is your home address or nearest two intersecting streets? | | |
| 5a . Did you travel here directly from your home with no stops? (if YES go to Question 7)<br><br>5b. If NO where did you start your trip that brought you to_____ ? | a. ☐ Yes        ☐ No<br>(If YES go to Question 7)<br><br>b. _____<br>(Address or nearest intersection) | a. ☐ Yes        ☐ No<br>(If YES go to Question 7)<br><br>b. _____<br>(Address or nearest intersection) |
| 6a. Is that location in X,Y, or Z county?<br><br><br><br>6b. If outside of one of these counties, what street or highway were you on when you entered this area? | a.  ☐ In X County?<br>☐ In Y County?<br>☐ In Z County?<br>☐ Outside of XY and Z counties<br><br>b. _____<br>_____ | a.  ☐ In X County?<br>☐ In Y County?<br>☐ In Z County?<br>☐ Outside of XY and Z counties<br><br>b. _____<br>_____ |
| 7.  What approximate time did you arrive at this location today? | _____ a.m.  / _____ p.m. | _____ a.m.  / _____ p.m. |
| 8.  How did you arrive here at the _____ today? (Choose from arrival options) | | |
| 9a.  If car/truck/van ask: How many people, including yourself, were in the vehicle?<br>9b.  If bus, ask: What fare did you pay? | a) # people_____<br><br>b) Fare $_____._____ | a) # people_____<br><br>b) Fare $_____._____ |
| 10.  What is the reason for coming here today? (Choose from trip purpose options) | Number _____<br><br>Other _____ | Number _____<br><br>Other _____ |
| 11.  Is this the 1st store / establishment you have visited since arriving at this building / center? | | |
| 12.  How many stores /establishments have you visited in this center during this trip? | | |
| 13.  How many more stores or businesses do you plan to visit in this center / building? | | |

Workplace Visitor Survey, Form D Continued

| Questions | Person 1 | Person 2 |
|---|---|---|
| 14. When you leave here are you going straight home with no stops? | ☐ Yes    ☐ No<br>(If YES go to Question 14) | ☐ Yes    ☐ No<br>(If YES go to Question 14) |
| (If Q.11 = Yes, then skip)<br><br>15. What is the address of the place you will be going? | _____<br><br>_____<br>(Address or nearest intersection) | _____<br><br>_____<br>(Address or nearest intersection) |
| (If Q.11 = Yes, then skip)<br><br>16a. Is that location in:<br><br><br><br>16c. If outside one of these counties, what street or highway will you be on when you leave this area? | a. ☐ In X County?<br>☐ In Y County?<br>☐ In Z County?<br>☐ Outside of XY and Z counties<br><br>b. _____<br><br>_____ | a. ☐ In X County?<br>☐ In Y County?<br>☐ In Z County?<br>☐ Outside of XY and Z counties<br><br>b. _____<br><br>_____ |
| 17. How many people live at your home address? (Do not count guests) | | |
| 18. How many vehicles are available for use by members of your household? | | |
| 19. If you combined the annual income of all members of your household, into what range would it fall? | Range: _____<br>(see below for ranges) | Range: _____<br>(see below for ranges) |

Workplace Visitor Survey, Form D Continued

| Arrival Option | Trip Purpose Options | Household Income Range |
|---|---|---|
| 1) Driver (car/truck/van)<br>2) Passenger (car/truck/van)<br>3) Walk<br>4) Bicycle<br>5) Bus<br>6) School Bus<br>7) Taxi / Paid Limousine<br>8) Commercial Cargo Transport Vehicle<br>9) Commercial Service Vehicle<br>10) Motorcycle<br>11) Other – specify in block<br>99) Non-Response | 1) Work related<br>2) School<br>3) Social / recreational / visit<br>4) Shop<br>5) Eat out<br>6) Pick up / drop off passenger<br>7) Change travel mode<br>8) Delivery – pick up / drop off<br>9) Other – specify in block<br>99) Non-response | 1.) Less than $5,000    9) $40,000 - $49,999<br>2.) $5,000 – $9,999    10) $50,000 - $59,999<br>3.) $10,000 - $14,999    11) $60,000 - $74,999<br>4.) $15,000 - $19,999    12) $75,000 - $99,999<br>5.) $20,000 - $24,999    13) $100,000 - $124,999<br>6.) $25,000 - $29,999    14) $125,000 - $149,999<br>7.) $30,000 - $34,999    15) $$150,000 or more<br>8.) $35,000 - $39,999 |

Record Type 10        **Workplace Delivery Vehicle Survey**
**Form E**

Workplace Site #: _____     Survey Date:_____

Zone #: _____     Interviewer: _____

| Questions | Vehicle 1 | Vehicle 2 |
|---|---|---|
| 1. Time of Arrival | _____ a.m. / _____ p.m. | _____ a.m. / _____ p.m. |
| 2. Number of People in Vehicle | | |
| 3. Standard Vehicle Class (choose from vehicle class options) | | |
| 4. Vehicle Type | ☐ 1 – Cargo Transport   ☐ 2 Service | ☐ 1 – Cargo Transport   ☐ 2 Service |
| 5a. What year is this vehicle?<br><br>5b. Gross vehicle weight?<br><br>5c. Leaded, unleaded, diesel, propane, or other kind of fuel? | a. _____ (year)<br><br>b. _____ (weight)<br><br>c.   1. ☐ Leaded Gas     4. ☐ Propane<br>      2. ☐ Unleaded Gas   5. ☐ Other<br>      3. ☐ Diesel | a. _____ (year)<br><br>b. _____ (weight)<br><br>c.   1. ☐ Leaded Gas     4. ☐ Propane<br>      2. ☐ Unleaded Gas   5. ☐ Other<br>      3. ☐ Diesel |
| 6. What is the mileage on your odometer? | | |
| 7. What is the cargo? (Choose from cargo codes) | | |
| 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? | | |
| 11. What is your reason for coming here today? | _____<br>(Choose from trip purpose options) | _____<br>(Choose from trip purpose options) |
| 12. What is the address of the last place you got into your vehicle?<br><br>(Address or nearest two intersecting streets) | _____<br><br>_____ | _____<br><br>_____ |
| 13a. Is that location:<br><br><br><br><br>13b. If outside of X,Y or Z counties county, what street or highway were you on when you entered the area? | a. ☐ In X County?<br>   ☐ In Y County?<br>   ☐ In Z County?<br>   ☐ Outside of XY and Z counties<br><br>b. _____<br>   _____ | a. ☐ In X County?<br>   ☐ In Y County?<br>   ☐ In Z County?<br>   ☐ Outside of XY and Z counties<br><br>b. _____<br>   _____ |
| 14. What was your purpose for being at that location? | _____<br>(Choose from trip purpose options) | _____<br>(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?<br><br>(place/address or nearest intersection/city) | _____<br><br>_____ | _____<br><br>_____ |

# Workplace Delivery Vehicle Survey
## Form E

Workplace Site #: _____     Survey Date:_____

Zone #: _____     Interviewer: _____

- Workplace Survey, Form E (continued)

| 17a. Is that location: | a. ☐ In X County?<br>☐ In Y County?<br>☐ In Z County?<br>☐ Outside of XY and Z counties | a. ☐ In X County?<br>☐ In Y County?<br>☐ In Z County?<br>☐ Outside of XY and Z counties | |
|---|---|---|---|
| 17b. If outside of X,Y or Z county county, what street or highway will you be on when you leave the area? | b. _____<br><br>_____ | b. _____<br><br>_____ | |
| 18. What is your purpose for traveling to your next destination? | _____<br>(Choose from trip purpose options) | _____<br>(Choose from trip purpose options) | |

### Vehicle Cargo Codes:

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

### 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)
10. Refuse / Unknown

### Standard Vehicle Class Options:

1. Single Unit 2-axle (6 wheels)
2. Single Unit 3-xle (10 wheels)
3. Single Unit 4-axle (14 wheels)

4. Semi (Tractor-Trailer combination)
5. Other _____

### Cargo Transfer Options:

1. Truck-to-truck
2. Rail-to-truck
3. Ship-to-truck
4. Airplane-to-truck
5. Warehouse-to-truck
6. Pipeline-to-Truck
7. Unknown
99 - Refused

Record Type 20

(Example Only)

**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**: _____

**WORKPLACE VEHICLES OWNED/LEASED SURVEY – FORM F**

**PART 2: Travel Log**

VEHICLE LICENSE #: _____

**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)

TRAVEL DATE_____
Month / Day

_____
(City, state, zip code)

DEPARTURE TIME: _____ a.m. / p.m.

**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**

| RECORD the following information about each place<br><br>*NAME of Place:*         *Address including city, state, and zip OR Nearest street intersection or Landmark* | What time did you arrive and depart this location?<br>(record exact times) | **Activity**<br>What are you doing at this Location<br>**See options below** | What type of place is this?<br>(see options below) | Is this the work / base location for this vehicle? | Type of Cargo<br>What is it? | Cargo Weight<br>(in pounds) |
|---|---|---|---|---|---|---|
| **PLACE 1** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery _____<br><br>Picked Up |
| **PLACE 2** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery _____<br><br>Picked Up |
| **PLACE 3** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery _____<br><br>Picked Up |

| **Activity OPTIONS** | | **TYPE OF PLACE OPTIONS** | | |
|---|---|---|---|---|
| **(1)** Base Location / Return to Base Location | **(5)** Maintenance (fuel, oil, etc.) | **(1)** Office Building (non-government) | **(6)** Education (college, trade) | **(11)** Warehouse |
| **(2)** Delivery | **(6)** Driver Needs (lunch, etc.) | **(2)** Retail / Shopping | **(7)** Government Office / Building | **(12)** Distribution Center |
| **(3)** Pick-up | **(7)** Service related business | **(3)** Industrial / Manufacturing | (8) Residential | (13) Construction Site |
| **(4)** Pick-up and Delivery | (8) Other (please specify) | **(4)** Medical / Hospital | (9) Airport | (14) Other (specify) |
| | | (5) Education (12th grade or less) | (10) Intermodal Facility | (99) Refused / Unknown |

# WORKPLACE VEHICLES OWNED/LEASED SURVEY – FORM F
## (continued)

VEHICLE LICENSE #: _____

| | RECORD the following information about each place<br><br>*NAME of Place:*  *Address including city, state, and zip*<br>*OR*<br>*Nearest street intersection or Landmark* | What time did you arrive and depart this location?<br>(record exact times) | Activity<br>What are you doing at this location?<br>(see options on bottom of page 1) | Type of Activity at This Location<br>(see options on bottom of page 1) | Is this the work / base location for this vehicle? | Type of Cargo<br>(see options on bottom of page 1) | Cargo Weight<br>(in pounds) |
|---|---|---|---|---|---|---|---|
| PLACE 4 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| PLACE 5 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| PLACE 6 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| PLACE 7 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| PLACE 8 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| PLACE 9 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |

| Activity OPTIONS | | TYPE OF PLACE OPTIONS | | |
|---|---|---|---|---|
| **(1)** Base Location / Return to Base Location | **(5)** Maintenance (fuel, oil, etc.) | **(1)** Office Building (non-government) | **(6)** Education (college, trade) | **(11)** Warehouse |
| **(2)** Delivery | **(6)** Driver Needs (lunch, etc.) | **(2)** Retail / Shopping | **(7)** Government Office / Building | **(12)** Distribution Center |
| **(3)** Pick-up | **(7)** Service related business | **(3)** Industrial / Manufacturing | (8) Residential | (13) Construction Site |
| **(4)** Pick-up and Delivery | (8) Other (please specify) | **(4)** Medical / Hospital | (9) Airport | (14) Other (specify) |
| | | (5) Education (12th grade or less) | (10) Intermodal Facility | (99) Refused / Unknown |

**WORKPLACE VEHICLES OWNED/LEASED SURVEY – FORM F**
**(continued)**

VEHICLE LICENSE #: _____

| | RECORD the following information about each place<br><br>*NAME of Place:*      *Address including city, state, and zip OR Nearest street intersection or Landmark* | What time did you arrive and depart this location?<br><br>(record exact times) | Activity<br>What are you doing at this location?<br>(see options on bottom of page 1) | Type of Activity at This Location<br>(see options on bottom of page 1) | Is this the work / base location for this vehicle? | Type of Cargo<br>(see options on bottom of page 1) | Cargo Weight<br>(in pounds) |
|---|---|---|---|---|---|---|---|
| **PLACE 10** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| **PLACE 11** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| **PLACE 12** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| **PLACE 13** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| **PLACE14** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |
| **PLACE 15** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | ☐ - Yes<br>☐ - No | | Delivery<br><br>Picked Up |

| Activity OPTIONS | | TYPE OF PLACE OPTIONS | | |
|---|---|---|---|---|
| **(1)** Base Location / Return to Base Location | **(5)** Maintenance (fuel, oil, etc.) | **(1)** Office Building (non-government) | **(6)** Education (college, trade) | **(11)** Warehouse |
| **(2)** Delivery | **(6)** Driver Needs (lunch, etc.) | **(2)** Retail / Shopping | **(7)** Government Office / Building | **(12)** Distribution Center |
| **(3)** Pick-up | **(7)** Service related business | **(3)** Industrial / Manufacturing | (8) Residential | (13) Construction Site |
| **(4)** Pick-up and Delivery | (8) Other (please specify) | **(4)** Medical / Hospital | (9) Airport | (14) Other (specify) |
| | | (5) Education (12th grade or less) | (10) Intermodal Facility | (99) Refused / Unknown |

**WORKPLACE VEHICLES OWNED/LEASED SURVEY – FORM F
(continued)**

VEHICLE LICENSE #: _____

*San Antonio Work Place Travel Survey Technical Summary*

| | RECORD the following information about each place<br><br>*NAME of Place:*  *Address including city, state, and zip*<br>*OR*<br>*Nearest street intersection or Landmark* | What time did you arrive and depart this location?<br><br>(record exact times) | Activity<br>What are you doing at this location?<br>(see options on bottom of page 1) | Type of Activity at This Location<br>(see options on bottom of page 1) | Is this the work / base location for this vehicle? | Type of Cargo<br>(see options on bottom of page 1) | Cargo Weight<br>(in pounds) |
|---|---|---|---|---|---|---|---|
| **PLACE 16** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | □ - Yes<br>□ - No | | Delivery<br><br>Picked Up |
| **PLACE 17** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | □ - Yes<br>□ - No | | Delivery<br><br>Picked Up |
| **PLACE 18** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | □ - Yes<br>□ - No | | Delivery<br><br>Picked Up |
| **PLACE 19** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | □ - Yes<br>□ - No | | Delivery<br><br>Picked Up |
| **PLACE 20** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | | □ - Yes<br>□ - No | | Delivery<br><br>Picked Up |

| Activity OPTIONS | | TYPE OF PLACE OPTIONS | | |
|---|---|---|---|---|
| **(1)** Base Location / Return to Base Location | **(5)** Maintenance (fuel, oil, etc.) | **(1)** Office Building (non-government) | **(6)** Education (college, trade) | **(11)** Warehouse |
| **(2)** Delivery | **(6)** Driver Needs (lunch, etc.) | **(2)** Retail / Shopping | **(7)** Government Office / Building | **(12)** Distribution Center |
| **(3)** Pick-up | **(7)** Service related business | **(3)** Industrial / Manufacturing | (8) Residential | (13) Construction Site |
| **(4)** Pick-up and Delivery | (8) Other (please specify) | **(4)** Medical / Hospital | (9) Airport | (14) Other (specify) |
| | | (5) Education (12th grade or less) | (10) Intermodal Facility | (99) Refused / Unknown |

**COMMERCIAL VEHICLE SURVEY**
**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

Type of Place vehicle was based at on beginning of travel day. (SEE BELOW)_____


Vehicle Info:   Make _____; Model:_____; Year:_____

Vehicle Type          1) ☐  Major Cargo / Freight Transport  (e.g., regional or long haul, bulk loads/shipments, etc.)

                      2) ☐  Local Service or Delivery (e.g. plumbing/landscaping contractors, local government
                               fleet or maintenance vehicles, local FedEx/UPS deliveries, etc.)

Vehicle Fuel:          1) ☐ Leaded Gas   2) ☐ Unleaded Gas   3) ☐ Diesel   4) ☐ Propane

                      5) ☐ Other _____(Specify)

Vehicle Classification:
          1) ☐  Single Unit 2-axle (6 wheels)
          2) ☐  Single Unit 3-axle (10 wheels)
          3) ☐  Single Unit 4-axle (14 wheels)
          4) ☐  Semi (all Tractor-Trailer combinations)
          5) ☐  Other _____

          Gross Vehicle Weight: _____ pounds

          **Beginning Odometer Reading: _____    Number of Trips Total: _____**

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

Record Type 21     **COMMERCIAL VEHICLE TRAVEL SURVEY**     VEHICLE LICENSE #: _____

**PART 2:   Travel Log**

**THE PLACE MY TRAVEL BEGAN TODAY WAS:**

At Work / Base Location?       □ - YES       □ - NO       What Type of Place is This? (See Options Below) _____

_____
(Street address or nearest intersection for place travel began)          TRAVEL DATE_____
Month / Day

a.m.
_____          DEPARTURE TIME: _____
_____ p.m.
(City, state, zip code)

When you left the above location was you vehicle:   □ Fully Loaded    □ Partially Loaded   □ Empty

If loaded, what is the weight of the cargo being transported?  _____ (pounds/lbs.)

| RECORD the following information about each place<br><br>*NAME of Place:*          ***Address including city, state, and zip***<br>***OR***<br>***Nearest street intersection or Landmark*** | What time did you arrive and depart this location?<br><br>(record exact times) | Activity –<br>What are you doing at this location?<br>(see options below) | Is this the work / base location for this vehicle? | What type of place is this?<br>(see options below) | Type of Cargo<br><br>What is it? | Cargo Weight<br><br>(in pounds/lbs.) |
|---|---|---|---|---|---|---|
| **PLACE 1** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 2** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 3** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |

| ACTIVITY  OPTIONS | | TYPE OF PLACE OPTIONS | | |
|---|---|---|---|---|
| **(1)** Base Location / Return to Base Location<br>**(2)** Delivery<br>**(3)** Pick-up<br>**(4)** Pick-up and Delivery<br>**(5)** Maintenance (fuel, oil, etc.) | **(6)** Driver Needs (lunch, etc.)<br>**(7)** Other<br>**(8)** To Home<br>**(9)** Service Related (to job or work site)<br>**(99)** Refused / Unknown | **(1)** Office Building<br>**(2)** Retail / Shopping<br>**(3)** Industrial / Manufacturing<br>**(4)** Medical / Hospital<br>**(5)** Education (12th grade or less) | **(6)** Educational (college, trade)<br>**(7)** Government Office/Building<br>**(8)** Residential<br>**(9)** Airport<br>**(10)** Intermodal Facility | **(11)** Warehouse<br>**(12)** Distribution Center<br>**(13)** Construction Site<br>**(14)** Other (specify)<br>**(99)** Refused / Unknown |

# COMMERCIAL VEHICLE TRAVEL SURVEY (con't.)

VEHICLE LICENSE #: _____

| | RECORD the following information about each place<br><br>*NAME of Place:*  *Address including city, state, and zip*<br>*OR*<br>*Nearest street intersection or Landmark* | What time did you arrive and depart this location?<br><br>(record exact times) | Activity –<br>What are you doing at this location?<br>(see options below) | Is this the work / base location for this vehicle? | What type of place is this?<br>(see options below) | Type of Cargo<br><br>What is it? | Cargo Weight<br><br>(in pounds/lbs.) |
|---|---|---|---|---|---|---|---|
| PLACE 4 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| PLACE 5 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| PLACE 6 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| PLACE 7 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| PLACE 8 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| PLACE 9 | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |

| ACTIVITY OPTIONS | | TYPE OF PLACE OPTIONS | | |
|---|---|---|---|---|
| **(1)** Base Location / Return to Base Location | **(6)** Driver Needs (lunch, etc.) | **(1)** Office Building | **(6)** Educational (college, trade) | **(11)** Warehouse |
| **(2)** Delivery | **(7)** Other | **(2)** Retail / Shopping | **(7)** Government Office/Building | **(12)** Distribution Center |
| **(3)** Pick-up | **(8)** To Home | **(3)** Industrial / Manufacturing | **(8)** Residential | **(13)** Construction Site |
| **(4)** Pick-up and Delivery | **(9)** Service Related (to job or work site) | **(4)** Medical / Hospital | **(9)** Airport | **(14)** Other (specify) |
| **(5)** Maintenance (fuel, oil, etc.) | **(99)** Refused / Unknown | **(5)** Education (12th grade or less) | **(10)** Intermodal Facility | **(99)** Refused / Unknown |

# COMMERCIAL VEHICLE TRAVEL SURVEY (con't.)     VEHICLE LICENSE #: _____

| RECORD the following information about each place<br><br>*NAME of Place:*     *Address including city, state, and zip*<br>*OR*<br>*Nearest street intersection or Landmark* | What time did you arrive and depart this location?<br>(record exact times) | Activity –<br>What are you doing at this location?<br>(see options below) | Is this the work / base location for this vehicle? | What type of place is this?<br>(see options below) | Type of Cargo<br>What is it? | Cargo Weight<br>(in pounds/lbs.) |
|---|---|---|---|---|---|---|
| **PLACE 10** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 11** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 12** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 13** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 14** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 15** | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | ☐ - YES<br><br>☐ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |

| ACTIVITY OPTIONS | | TYPE OF PLACE OPTIONS | | |
|---|---|---|---|---|
| **(1)** Base Location / Return to Base Location | **(6)** Driver Needs (lunch, etc.) | **(1)** Office Building | **(6)** Educational (college, trade) | **(11)** Warehouse |
| **(2)** Delivery | **(7)** Other | **(2)** Retail / Shopping | **(7)** Government Office/Building | **(12)** Distribution Center |
| **(3)** Pick-up | **(8)** To Home | **(3)** Industrial / Manufacturing | **(8)** Residential | **(13)** Construction Site |
| **(4)** Pick-up and Delivery | **(9)** Service Related (to job or work site) | **(4)** Medical / Hospital | **(9)** Airport | **(14)** Other (specify) |
| **(5)** Maintenance (fuel, oil, etc.) | **(99)** Refused / Unknown | **(5)** Education (12th grade or less) | **(10)** Intermodal Facility | **(99)** Refused / Unknown |

# COMMERCIAL VEHICLE TRAVEL SURVEY (con't.)

VEHICLE LICENSE #: _____

| | RECORD the following information about each place<br><br>*NAME of Place:*  *Address including city, state, and zip*<br>*OR*<br>*Nearest street intersection or Landmark* | What time did you arrive and depart this location?<br>(record exact times) | Activity –<br>What are you doing at this location?<br>(see options below) | Is this the work / base location for this vehicle? | What type of place is this?<br>(see options below) | Type of Cargo<br><br>What is it? | Cargo Weight<br><br>(in pounds/lbs.) |
|---|---|---|---|---|---|---|---|
| **PLACE 16** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 17** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 18** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 19** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 20** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |
| **PLACE 21** | | Arrive:_____a.m./p.m.<br><br>Depart: _____a.m./p.m. | | □ - YES<br><br>□ - NO | | | _____<br>Picked-Up<br>_____<br>Dropped-Off |

| ACTIVITY OPTIONS | | TYPE OF PLACE OPTIONS | | |
|---|---|---|---|---|
| **(1)** Base Location / Return to Base Location | **(6)** Driver Needs (lunch, etc.) | **(1)** Office Building | **(6)** Educational (college, trade) | **(11)** Warehouse |
| **(2)** Delivery | **(7)** Other | **(2)** Retail / Shopping | **(7)** Government Office/Building | **(12)** Distribution Center |
| **(3)** Pick-up | **(8)** To Home | **(3)** Industrial / Manufacturing | **(8)** Residential | **(13)** Construction Site |
| **(4)** Pick-up and Delivery | **(9)** Service Related (to job or work site) | **(4)** Medical / Hospital | **(9)** Airport | **(14)** Other (specify) |
| **(5)** Maintenance (fuel, oil, etc.) | **(99)** Refused / Unknown | **(5)** Education (12th grade or less) | **(10)** Intermodal Facility | **(99)** Refused / Unknown |

**APPENDIX B:**
**ASCII FORMAT FILES**

Workplace Establishment General Information
Survey Form A File Format

This file will contain the general information data collected using Form A, Workplace Establishment Survey. The data should be in an ASCII data file.

Field Columns

| Item | Begin | End | Type | Format | Description |
|---|---|---|---|---|---|
| 1. Record Type | 1 | 2 | Numeric RJ | I2 | Code indicating type of record. Here it should be 9. |
| 2. Month | 3 | 4 | Numeric RJ | I2 | Month establishment was surveyed. |
| 3. Day | 5 | 6 | Numeric RJ | I2 | Day of month establishment was surveyed. |
| 4. Site Number | 7 | 10 | Numeric RJ | I4 | Unique non-zero number assigned to each establishment. |
| 5. NAICS Code | 11 | 16 | Numeric RJ | I6 | Industrial Classification of the establishment. |
| 6. Survey Code | 17 | 18 | Numeric RJ | I2 | Code indicating type of survey done. 1 – Full Survey and 2 – Partial Survey. |
| 7. Establishment Type | 19 | 20 | Numeric RJ | I2 | Code indicating the type of establishment: 1- free standing, 2- non-free standing. |
| 8. Area Type | 21 | 22 | Numeric RJ | I2 | Code indicating the area type where the establishment is located. |
| 9. Employment Type | 23 | 24 | Numeric RJ | I2 | Code indicating the type of employment at the establishment. See code descriptions. |
| 10. Employment Type Other | 25 | 54 | Alphanum LJ | A30 | If employment type is coded "Other," this field should contain a description of the type of employment at the establishment. |
| 11. Name | 55 | 84 | Alphanum. LJ | A30 | Name of establishment. |
| 12. Address | 85 | 144 | Alphanum. LJ | A60 | Address of establishment. |
| 13. City | 145 | 174 | Alphanum. LJ | A30 | City where establishment is located. |
| 14. Zip Code | 175 | 179 | Numeric RJ | I5 | Zip code for establishment's location. |
| 15. Longitude | 180 | 189 | Numeric RJ | F10.0 | Longitude of establishment's address. If unknown, it should be coded 888.8888. |
| 16. Latitude | 190 | 199 | Numeric RJ | F10.0 | Latitude of establishment's address. If unknown, it should be coded 888.8888. |
| 17. Study Area ID | 200 | 201 | Alphanum. LJ | A2 | Code indicating where establishment is located in study area. 'A' - Austin study area. 'S' – San Antonio study area. 'T' – county that is not in the study area, but within Texas. |
| 18. Zone | 202 | 206 | Numeric RJ | I5 | Zone where establishment is located. |
| 19. Hours of Operation | 207 | 208 | Numeric RJ | I2 | Number of hours in operation during a normal weekday. |
| 20. Number of Vehicles | 209 | 214 | Numeric RJ | I6 | Total number of vehicles entering and exiting the establishment during the 24 hours the travel survey was conducted. |
| 21. Number of Persons | 215 | 221 | Numeric RJ | I7 | Total number of persons counted entering and exiting the establishment during the 24 hours the travel survey was conducted. |
| 22. Cargo Transport Vehicles | 222 | 226 | Numeric RJ | I5 | Total number of commercial cargo transport vehicles counted entering and exiting the establishment during the 24 hours the travel survey was conducted. |
| 23. Service Vehicles | 227 | 231 |  | I5 | Total number of commercial service vehicles counted entering and exiting the establishment during the 24 hours the travel survey was conducted. |
| 24. Total Employment | 232 | 236 | Numeric RJ | I5 | Total number of persons (full and part time) employed at the establishment. |
| 25. Employees at Work | 237 | 241 | Numeric RJ | I5 | Total number of employees at work on day the travel survey was conducted. |
| 26. Number of Shifts | 242 | 243 | Numeric RJ | I2 | Number of work shifts at establishment. |
| 27. Employees per Shift | 244 | 248 | Numeric RJ | I5 | Number of employees per work shift. |
| 28. Parking Spaces | 249 | 254 | Numeric RJ | I6 | Number of parking spaces. |
| 29. Parking Cost | 255 | 261 | Numeric RJ | F7.2 | Cost per hour of parking. |
| 30. Loading Docks | 262 | 263 | Numeric RJ | I2 | Number of loading docks at establishment. |
| 31. Deliveries | 264 | 266 | Numeric RJ | I3 | Number of deliveries to establishment on day of travel survey. |
| 32. Delivery Hours | 267 | 269 | Numeric RJ | I3 | Hours allowed for deliveries. |
| 33. Bus Routes | 270 | 271 | Numeric RJ | I2 | Number of bus routes serving the establishment. |
| 34. Number of Bus Stops | 272 | 276 | Numeric RJ | I5 | Number of bus stops serving the establishment. |
| 35. Cars Owned/Leased | 277 | 281 | Numeric RJ | I5 | Number of cars owned or leased by establishment for business purposes. |
| 36 Vans Owned/Leased | 282 | 286 | Numeric RJ | I5 | Number of vans owned or leased by establishment for business purposes. |
| 37. SUV's Owned/Leased | 287 | 291 | Numeric RJ | I5 | Number of SUVs owned or leased by establishment for business purposes. |
| 38. Pickup Trucks Owned / Leased | 292 | 296 | Numeric RJ | I5 | Number of pickup trucks owned or leased by establishment for business purposes. |
| 39. Cargo Transport Vehicles Owned / Leased | 297 | 301 | Numeric RJ | I5 | Number of cargo transport vehicles owned or leased by establishment for business purposes. |
| 40. Service Vehicles Owned / Leased | 302 | 306 | Numeric RJ | I5 | Number of service vehicles owned or leased by establishment for business purposes. |

Item 9. Employment Type

| | | |
|---|---|---|
| 1 – Office (Non Government) | 4 – Medical | 7 – Government |
| 2 – Retail / Restaurant | 5 – Education – Day Care / K-12th | 8 – Not used |
| 3 – Industrial / Manufacturing | 6 – Education – College, trade, other | 9 – Other |
| | | 99 – Unknown/Refused |

Workplace Employee Survey
Survey Form B, Part 1 Format

This file will contain the household/individual information data collected using Form B, Part 1, Workplace Employee Survey . The data should be in an ASCII data file.

Field Columns

| Item | Begin | End | Type | Format | Description |
|------|-------|-----|------|--------|-------------|
| 1. Record Type | 1 | 2 | Numeric RJ | I2 | Code indicating type of record. Here it should be 5. |
| 2. Month | 3 | 4 | Numeric RJ | I2 | Month of travel day. |
| 3. Day | 5 | 6 | Numeric RJ | I2 | Day of the month of travel. |
| 4. Site Number | 7 | 10 | Numeric RJ | I4 | Unique non-zero number assigned to the workplace where this employee works. |
| 5. Sample Number | 11 | 15 | Numeric RJ | I5 | 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. |
| 6. Address | 16 | 75 | Alphanum. LJ | A60 | Home street address or nearest intersection of the employee. |
| 7. City | 76 | 105 | Alphanum. LJ | A30 | City where employee lives. |
| 8. Study Area County | 106 | 107 | Numeric RJ | I2 | Code indicating study area county where employee lives. 1- Bexar, 2- Comal, 3- Guadalupe, 4- Kendall, 5- Wilson, 6- Travis, 7- Hays, 8- Williamson, 9- Bastrop, 10- Caldwell, 98 – Other, 99 – Refused. |
| 9. Other County | 108 | 122 | Alphanum. LJ | A15 | If county of residence is coded "Other" in item 8, this field should contain the name of the county where the person lives. |
| 10. Zip Code | 123 | 127 | Numeric RJ | I5 | Zip code where employee lives. |
| 11. Study Zone ID. | 128 | 128 | Alphanum. LJ | A1 | Code indicating study area where employee lives. 'A' - employee lives in Austin study area. 'S' – employee lives in San Antonio study area. 'T' – employee lives in county that is not in the study area, but within Texas. '9' – employee lives outside Texas. |
| 12. Zone | 129 | 133 | Numeric RJ | I5 | Zone where employee lives. Unknown zone numbers in a study area county should be coded 8888. Mexico locations should be coded 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. |
| 13. Longitude | 134 | 143 | Numeric RJ | F10.0 | Longitude of employee's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas and not in Mexico, this should be coded 999.9999. If unknown but in the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded 666.6666. |
| 14. Latitude | 144 | 153 | Numeric RJ | F10.0 | Latitude of employee's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas and not in Mexico, this should be coded 999.9999. If unknown but in the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded 666.6666. |
| 15. Number of Persons | 154 | 156 | Numeric RJ | I3 | Number of persons residing at employee's home address. |
| 16. Number Employed | 157 | 158 | Numeric RJ | I2 | Number of persons residing at employee's home address that are employed (including the person completing the form). |
| 17. Blank | 159 | 160 | Numeric RJ | | This field is blank. |
| 18. Vehicles | 161 | 162 | Numeric RJ | I2 | Number of vehicles available for use by members of employee's household. |
| 19. Income | 163 | 164 | Numeric RJ | I2 | Code Indicating the combined annual household income of all members of this household. See code definitions below. |

Household Income Codes

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

The previous 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.

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

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

Workplace Employee Survey

<div align="center">Survey Form B, Part 2 Format</div>

This file will contain the travel information for employees surveyed in the Workplace survey. The data should be in an ASCII data file format.

| Item | Begin | End | Type | Field Columns Format | Description |
|---|---|---|---|---|---|
| 1. Record Type | 1 | 2 | Numeric RJ | I2 | Code indicating type of record. Here it should be 7. |
| 2. Month | 3 | 4 | Numeric RJ | I2 | Month that travel occurred. |
| 3. Day | 5 | 6 | Numeric RJ | I2 | Day of the month that travel occurred. |
| 4. Site Number | 7 | 10 | Numeric RJ | I4 | Unique non-zero number assigned to the establishment where this employee works. |
| 5. Sample Number | 11 | 15 | Numeric RJ | I5 | 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. |
| 6. Trip Number | 16 | 17 | Numeric RJ | I2 | Trip number. Beginning trip will be recorded as 0 with each subsequent trip numbered sequentially as 1, 2, 3, etc. |
| 7. Location | 18 | 47 | Alphanum. LJ | A30 | 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, the description would be the home. |
| 8. Address | 48 | 107 | Alphanum. LJ | A60 | Street address or nearest intersection of location. |
| 9. City | 108 | 137 | Alphanum. LJ | A30 | City of the location. |
| 10. Zip Code | 138 | 142 | Numeric RJ | I5 | Zip code for location. |
| 11. Longitude | 143 | 152 | Numeric RJ | F10.0 | 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. |
| 12. Latitude | 153 | 162 | Numeric RJ | F10.0 | 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. |
| 13. Study Zone ID | 163 | 163 | Alphanum. LJ | A1 | Code indicating study area of location. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; 'or 9' – outside Texas. |
| 14. Zone Number | 164 | 168 | Numeric RJ | I5 | Zone number of location. Locations in Mexico should be coded 7777. Locations outside of study area county but within Texas should be coded to the state zone system. Unknown zone numbers within a study area county should be coded 8888. Unknown zone numbers outside of a study area county but within Texas should be coded 6666. Locations outside Texas and not in Mexico should be coded 9999. |
| 15. Work Location | 169 | 170 | Numeric RJ | I2 | Code indicating if this location is where the person normally works at or out of; 1-Yes, 2-No, or 99-Unknown / No Response. |
| 16. Arrival Hour | 171 | 173 | Numeric RJ | I3 | 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. |
| 17. Arrival Minute | 174 | 176 | Numeric RJ | I3 | Minute that employee arrived at this location. If this is trip number 0, this field should be blank. |
| 18. Departure Hour | 177 | 179 | Numeric RJ | I3 | Hour 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. |
| 19. Departure Minute | 180 | 182 | Numeric RJ | I3 | Minute that employee departed this location. If this is the last location (i.e., trip), this field should be blank. |
| 20. Activity Type | 183 | 184 | Numeric RJ | I2 | Type of activity at this location. 0 – Residential, 1-Basic, 2- Retail, 3 – Services, and 4 – other. |
| 21. Other Activity | 185 | 199 | Alphanum LJ | A15 | Description of activity at location if activity type is coded 4- other. |
| 22. Trip Purpose | 200 | 201 | Numeric RJ | I2 | Code indicating purpose of trip. See definitions below. For trip number 0, this should be coded 1 if it began at home, 2 if it began at work, or 99 if it began at another location. |
| 23. Other Purpose | 202 | 216 | Alphanum. LJ | A15 | Description of trip purpose if purpose code is "other." |
| 24. Mode | 217 | 218 | Numeric RJ | I2 | Code indicating mode of travel used in traveling to this location. See travel mode code definitions below. |

Workplace Employee Survey Survey Form B, Part 2 Format Continued.

| | | | | Field Columns | |
|---|---|---|---|---|---|
| Item | Begin | End | Type | Format | Description |
| 25. Other Mode | 219 | 233 | Alphanum. LJ | A15 | Description of mode of travel if mode is coded "Other." |
| 26. Number People | 234 | 235 | Numeric RJ | I2 | 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. |
| 27. Vehicle Year | 236 | 240 | Numeric RJ | I5 | 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. |
| 28. Vehicle Make | 241 | 265 | Alphanum. LJ | A25 | Make of vehicle used for trip. |
| 29. Vehicle Model | 266 | 290 | Alphanum. LJ | A25 | Model of vehicle used for trip. |
| 30. Parking Cost | 291 | 296 | Numeric RJ | F6.2 | Cost of parking if parking was paid. |
| 31. Cost Basis | 297 | 298 | Numeric RJ | I2 | Code indicating basis for parking cost; 1-Hourly, 2-Daily, 3-Monthly, or 4-Unknown / No Response. |
| 32. Bus Fare | 299 | 304 | Numeric RJ | F6.2 | Bus fare cost if trip was by bus. |
| 33. Arrival Mode | 305 | 306 | Numeric RJ | I2 | 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. |
| 34. Other Arrival Mode | 307 | 321 | Alphanum. LJ | A15 | Description of arrival mode of travel if arrival is coded "Other." |

| Item 20.Trip Purpose Codes | Item 22. Mode of Transportation Codes | Item 31. Arrival Mode Codes |
|---|---|---|
| 1 –Leave / Return Home | 1 – Driver (car/truck/van) | 1 – Drove Auto and Parked |
| 2 – Go to Work | 2 – Passenger (car/truck/van) | 2 – Dropped Off |
| 3 – Work Related | 3 – Walk | 3 – Walked |
| 4 – School | 4 – Bicycle | 4 – Carpooled |
| 5 – Social / Recreation | 5 – Bus / Public Transportation | 5 – Other |
| 6 – Eat Out | 6 – School Bus | |
| 7 – Shop | 7 – Taxi / Limo | |
| 8 – Pick up / Drop off Passenger | 8 – Commercial Cargo Transport Vehicle | |
| 9 – Change Travel Mode | 9 – Commercial Service Vehicle | |
| 10 – Personal Business | 10 – Motorcycle | |
| 11 – Other | 11 – Other | |
| 99 – No Response | 99 – No Response | |

Visitor Survey, Free Standing Workplace
Survey Form C Format

This file will contain the travel data for non-employees (visitors) at surveyed free standing work establishments using Form C, Non-Employee Survey, Free Standing Workplace. The data should be in an ASCII data file.

Field Columns

| Item | Begin | End | Type | Format | Description |
|---|---|---|---|---|---|
| 1. Record Type | 1 | 2 | Numeric RJ | I2 | Code which indicates the type of record, here it should be 8. |
| 2. Month | 3 | 4 | Numeric RJ | I2 | Month workplace was surveyed. |
| 3. Day | 5 | 6 | Numeric RJ | I2 | Day of the month workplace was surveyed. |
| 4. Site Number | 7 | 10 | Numeric RJ | I4 | Unique non-zero number assigned to the establishment where these interviews were conducted. |
| 5. Person Number | 11 | 11 | Numeric RJ | I1 | Number of person being interviewed. This corresponds to the column number on the interview form. |
| 6. Residence | 12 | 36 | Alphanum. LJ | A25 | Name of city, county or country where person lives. |
| 7. Residence Code | 37 | 38 | Numeric RJ | I2 | Code indicating if residence is not located within a county in the study area. 1-Yes, 2-No, 99-Refused / Unknown. |
| 8. Overnight Stay | 39 | 40 | Numeric RJ | 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, or 99-Refused / Unknown. If residence code is 2, this field should be blank. |
| 9. Place Stayed | 41 | 70 | Alphanum. LJ | A30 | 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. |
| 10. Entry Road | 71 | 100 | Alphanum. LJ | 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, this field should be blank. Note that airport is a valid entry. |
| 11. Home Address | 101 | 160 | Alphanum. LJ | A60 | Address or nearest intersecting streets where person lives. |
| 12. Home City | 161 | 190 | Alphanum. LJ | A30 | City where person lives. |
| 13. Home Zip | 191 | 195 | Alphanum. LJ | I5 | Zip Code for person's home address. |
| 14. Longitude | 196 | 205 | Numeric RJ | F10.0 | 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. If unknown but in Texas, it should be coded 666.6666. |
| 15. Latitude | 206 | 215 | Numeric RJ | F10.0 | 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. If unknown but in Texas, it should be coded 666.6666. |
| 16. Study Zone ID | 216 | 216 | Alphanum. LJ | A1 | Code indicating study area of home location. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; or '9' – outside Texas. |
| 17. Zone | 217 | 221 | Numeric RJ | I5 | Zone number where person lives. 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 within a study area should be coded 8888. Unknown zone numbers outside of the study area but within Texas should be coded 6666. Locations outside Texas and not in Mexico should be coded 9999. |
| 18. Origin Code | 222 | 223 | Numeric RJ | I2 | Code indicating origin of trip; 1-Home, or 2-Other. |
| 19. Origin Address | 224 | 283 | Alphanum. LJ | A60 | Address, nearest street intersection, or placename of location that trip originated from (i.e., name, address, etc). |
| 20. Origin City | 284 | 313 | Alphanum. LJ | A30 | City of origin address. |
| 21. Origin Zip | 314 | 318 | Numeric RJ | I5 | Zip code of origin address. |
| 22. Origin County | 319 | 320 | Numeric RJ | I2 | Code indicating county origin is located. 1- Bexar, 2- Comal, 3- Guadalupe, 4- Kendall, 5- Wilson, 6- Travis, 7- Hays, 8- Williamson, 9- Bastrop, 10- Caldwell, 11-Other in Texas, 99-Outside Texas, 77-Mexico. |

Visitor Survey, Free Standing Workplace Survey, Form C Format, Continued.

| Item | Begin | End | Type | Field Columns<br>Format | Description |
|------|-------|-----|------|--------|-------------|
| 23. Longitude | 321 | 330 | Numeric RJ | F10.0 | 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 666.6666. |
| 24. Latitude | 331 | 340 | Numeric RJ | F10.0 | 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 666.6666. |
| 25. Study Zone ID | 341 | 341 | Alphanum. LJ | A1 | Code indicating city of study area location. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; or '9' – outside Texas |
| 26. Origin Zone | 342 | 346 | Numeric RJ | I5 | 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 8888. Unknown zone numbers outside of the study area but within Texas should be coded 6666. Locations outside Texas and not in Mexico should be coded 9999. |
| 27. Entry Facility | 347 | 376 | Alphanum. LJ | A30 | 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. |
| 28. Entry External Zone | 377 | 381 | Numeric RJ | I5 | 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. |
| 29. Arrival Hour | 382 | 384 | Numeric RJ | I3 | Hour person arrived at this site. This hour should be in terms of military time. |
| 30. Arrival Minute | 385 | 387 | Numeric RJ | I3 | Minute person arrived at this site. |
| 31. Mode | 388 | 389 | Numeric RJ | I2 | Code indicating mode of travel to this location. See definitions below. |
| 32. Other Mode | 390 | 399 | Alphanum. LJ | A10 | If mode is coded "other," this field should contain a description of the mode given. |
| 33. Number Persons | 400 | 401 | Numeric RJ | I2 | 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. |
| 34. Bus Fare | 402 | 407 | Numeric RJ | F6.2 | If mode of travel was bus, this is the bus fare paid. |
| 35. Trip Purpose | 408 | 409 | Numeric RJ | I2 | Code indicating purpose of trip. See code definitions below. |
| 36. Other Purpose | 410 | 419 | Alphanum. LJ | A10 | If purpose is coded "Other," this contains description of purpose given. |
| 37. Depart Destination | 420 | 421 | Numeric RJ | I2 | Code indicating destination when person departs from this site; 1-Home, or 2-Other. |
| 38. Destination Adresses | 422 | 481 | Alphanum. LJ | A60 | Address, nearest street intersection, or placename of destination location where person is going. |
| 39. Destination City | 482 | 511 | Alphanum | A30 | City of destination address. |
| 40. Destination Zip | 512 | 516 | Numeric RJ | I5 | Zip Code of destination address. |
| 41. Destination County | 517 | 518 | Numeric RJ | I2 | Code indicating county destination is located. 1- Bexar, 2- Comal, 3- Guadalupe, 4- Kendall, 5- Wilson, 6- Travis, 7- Hays, 8- Williamson, 9- Bastrop, 10- Caldwell 11-Other in Texas, 99-Outside Texas, 77-Mexico. |
| 42. Destination Longitude | 519 | 528 | Numeric RJ | F10.0 | 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 666.6666. |
| 43. Destination Latitude | 529 | 538 | Numeric RJ | F10.0 | 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 666.6666. |

Visitor Survey, Free Standing Workplace Survey Form C Format Continued.

Field Columns

| Item | Begin | End | Type | Format | Description |
|------|-------|-----|------|--------|-------------|
| 44. Study Zone ID | 539 | 539 | Alphanum. LJ | A1 | Code indicating city of study area destination. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; or '9' – outside Texas |
| 45. Destination Zone | 540 | 544 | Numeric RJ | I5 | 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 8888. Unknown zone numbers not in a study area county but within Texas should be coded 6666. Locations outside Texas and not in Mexico should be coded 9999. |
| 46. Exit Facility | 545 | 574 | Alphanum. LJ | A30 | 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. |
| 47. Exit Extennal Zone | 575 | 579 | Numeric RJ | I5 | 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. |
| 48. Household Size | 580 | 582 | Numeric RJ | I3 | Number of persons living at person's home address. |
| 49. Vehicles Available | 583 | 584 | Numeric RJ | I2 | Number of vehicles available to persons in household. |
| 50. Income | 585 | 586 | Numeric RJ | I2 | Code indicating household income. See code definitions. |
| 51. Form Number | 587 | 592 | Numeric RJ | I6 | Survey form number which contains raw survey data. |
| 52. Hour | 593 | 595 | Numeric RJ | I3 | Hour survey was done in military time. |
| 53. Minute | 596 | 598 | Numeric RJ | I3 | Minute survey was done. |
| 54. Interviewer | 599 | 628 | Alphanum. LJ | A30 | Name of person conducting interview. |

<u>Item 28. Mode of Transportation Codes</u>

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

<u>Item 32. Trip Purpose Codes</u>

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 – No Response

<u>Item 43. Household Income Codes</u>

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

Visitor Survey, Non-Free Standing Workplace
Survey Form D Format

This file will contain 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 should be in an ASCII data file.

Field Columns

| Item | Begin | End | Type | Format | Description |
|---|---|---|---|---|---|
| 1. Record Type | 1 | 2 | Numeric RJ | I2 | Code which indicates the type of record, here it should be 11. |
| 2. Month | 3 | 4 | Numeric RJ | I2 | Month workplace was surveyed. |
| 3. Day | 5 | 6 | Numeric RJ | I2 | Day of the month workplace was surveyed. |
| 4. Site Number | 7 | 10 | Numeric RJ | I4 | Unique non-zero number assigned to the establishment where these interviews were conducted. |
| 5. Person Number | 11 | 11 | Numeric RJ | I1 | Number of person being interviewed. This corresponds to the column number on the interview form. |
| 6. Residence | 12 | 36 | Alphanum. LJ | A25 | Name of city, county or country where person lives. |
| 7. Residence Code | 37 | 38 | Numeric RJ | I2 | Code indicating if residence is outside study area; 1-Yes, 2-No, or 99-Refused / Unknown. |
| 8. Overnight Stay | 39 | 40 | Numeric RJ | 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, or 99-Refused / Unknown. If residence code is 2, this field should be blank. |
| 9. Place Stayed | 41 | 70 | Alphanum. LJ | A30 | 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. |
| 10. Entry Road | 71 | 100 | Alphanum. LJ | 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, this field should be blank. Note that airport is a valid entry. |
| 11. Home Address | 101 | 160 | Alphanum. LJ | A60 | Address or nearest intersecting streets where person lives. |
| 12. Home City | 161 | 190 | Alphanum. LJ | A30 | City where person lives. |
| 13. Home Zip | 191 | 195 | Alphanum. LJ | I5 | Zip code of address where person lives. |
| 14. Longitude | 196 | 205 | Numeric RJ | F10.0 | 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. If unknown but in Texas, it should be coded 666.6666. |
| 15. Latitude | 206 | 215 | Numeric RJ | F10.0 | 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. If unknown but in Texas, it should be coded 666.6666. |
| 16. Study Zone ID | 216 | 216 | Alphanum. LJ | A1 | Code indicating city of study area location. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; or '9' – outside Texas. |
| 17. Zone | 217 | 221 | Numeric RJ | I5 | Zone number where person lives. 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 8888. Unknown zone numbers outside of the study area, but within Texas should be coded 6666. Locations outside Texas and not in Mexico should be coded 9999. |
| 18. Origin Code | 222 | 223 | Numeric RJ | I2 | Code indicating origin of trip; 1-Home, or 2-Other. |
| 19. Origin Address | 224 | 283 | Alphanum. LJ | A60 | Address, nearest intersecting street, or placename of location that trip originated from. |
| 20. Origin City | 284 | 313 | Alphanum LJ | A30 | City of origin address. |
| 21. Origin Zip | 314 | 318 | Alphanum RJ | I5 | Zip code of origin address. |
| 22. Origin County | 319 | 320 | Numeric RJ | I2 | Code indicating county origin is located. 1- Bexar, 2-Comal, 3- Guadalupe, 4- Kendall, 5- Wilson, 6- Travis, 7-Hays, 8- Williamson, 9- Bastrop, 10- Caldwell, 11-Other in Texas, 99-Outside Texas, or 77-Mexico. |

Visitor Survey, Free Standing Workplace Survey, Form D Format, Continued.

Field Columns

| Item | Begin | End | Type | Format | Description |
|------|-------|-----|------|--------|-------------|
| 23. Longitude | 321 | 330 | Numeric RJ | F10.0 | 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 666.6666. |
| 24. Latitude | 331 | 340 | Numeric RJ | F10.0 | 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 666.6666. |
| 25. Study Zone ID | 341 | 341 | Alphanum. LJ | A1 | Code indicating city of study area trip origin. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; or '9' – outside Texas. |
| 26. Origin Zone | 342 | 346 | Numeric RJ | I5 | 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 8888. Unknown zone numbers not in a study area county but within Texas should be coded 6666. Locations outside Texas and not in Mexico should be coded 9999. |
| 27. Entry Facility | 347 | 376 | Alphanum. LJ | A30 | 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. |
| 28. Entry External Zone | 377 | 381 | Numeric RJ | I5 | 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. |
| 29. Arrival Hour | 382 | 384 | Numeric RJ | I3 | Hour person arrived at this site. This hour should be in terms of military time. |
| 30. Arrival Minute | 385 | 387 | Numeric RJ | I3 | Minute person arrived at this site. |
| 31. Mode | 388 | 389 | Numeric RJ | I2 | Code indicating mode of travel to this location. See definitions below. |
| 32. Other Mode | 390 | 399 | Alphanum. LJ | A10 | If mode is coded "other," this field should contain a description of the mode given. |
| 33. Number Persons | 400 | 401 | Numeric RJ | I2 | 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. |
| 34. Bus Fare | 402 | 407 | Numeric RJ | F6.2 | If mode of travel was bus, this is the bus fare paid. |
| 35. Trip Purpose | 408 | 409 | Numeric RJ | I2 | Code indicating purpose of trip. See code definitions below. |
| 36. Other Purpose | 410 | 419 | Alphanum. LJ | A10 | If purpose is coded "Other," this contains description of purpose given. |
| 37. First Store | 420 | 421 | Numeric RJ | I2 | Code indicating if this store/establishment is the first visited in the center since arriving; 1-Yes, 2-No, or 99-Refused / Unknown. |
| 38. Number Visited | 422 | 423 | Numeric RJ | I2 | Number of stores / establishments visited in this center. |
| 39. More Visits | 424 | 425 | Numeric RJ | I2 | Number of stores / establishments in this center person plans on visiting during this trip. |
| 40. Depart Destination | 426 | 427 | Numeric RJ | I2 | Code indicating destination when person departs from this site; 1-Home, or 2-Other. |
| 41. Destination Address | 428 | 487 | Alphanum. LJ | A60 | Address, nearest intersection, or placename of location where person is going. |
| 42. Destination City | 488 | 517 | Alphanum LJ | A30 | City of destination address. |
| 43. Destination Zip | 518 | 522 | Numeric RJ | I5 | Zip code of destination address. |
| 44. Destination County | 523 | 524 | Numeric RJ | I2 | Code indicating county destination is located. 1- Bexar, 2-Comal, 3- Guadalupe, 4- Kendall, 5- Wilson, 6- Travis, 7-Hays, 8- Williamson, 9- Bastrop, 10- Caldwell 11-Other in Texas, 99-Outside Texas, or 77-Mexico. |
| 45. Destination Longitude | 525 | 534 | Numeric RJ | F10.0 | 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 666.6666. |

Visitor Survey, Free Standing Workplace Survey Form D Format, Continued.

Field Columns

| Item | Begin | End | Type | Format | Description |
|------|-------|-----|------|--------|-------------|
| 46. Destination Latitude | 535 | 544 | Numeric RJ | F10.0 | 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 the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded 666.6666. |
| 47. Study Zone ID | 545 | 545 | Alphanum. LJ | A1 | Code indicating city of study area trip destination. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; or '9' – outside Texas |
| 48. Destination Zone | 546 | 550 | Numeric RJ | I5 | 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 8888. Unknown zone numbers outside of the study area but within Texas should be coded 6666. Locations outside Texas and not in Mexico should be coded 9999. |
| 49. Exit Facility | 551 | 580 | Alphanum. LJ | A30 | 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 |
| 50. Exit External Zone | 581 | 585 | Numeric RJ | I5 | 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. |
| 51. Household Size | 586 | 588 | Numeric RJ | I3 | Number of persons living at person's home address. |
| 52. Vehicles Available | 589 | 590 | Numeric RJ | I2 | Number of vehicles available to persons in household. |
| 53. Income | 591 | 592 | Numeric RJ | I2 | Code indicating household income. See code definitions. |
| 54. Form Number | 593 | 598 | Numeric RJ | I6 | Survey form number which contains raw survey data. |
| 55. Hour | 599 | 601 | Numeric RJ | I3 | Hour survey was done in military time. |
| 56. Minute | 602 | 604 | Numeric RJ | I3 | Minute survey was done. |
| 57. Interviewer | 605 | 634 | Alphanum. LJ | A30 | Name of person conducting interview. |

Item 28. 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 32. 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 – No Response

Item 46. Household Income Codes

| | | |
|---|---|---|
| 1 – Less than $5,000 | 7 - $30,000 to $34,999 | 13 - $100,000 to $124,999 |
| 2 - $5,000 to $9,999 | 8 - $35,000 to $39,999 | 14 - $125,000 to $149,999 |
| 3 - $10,000 to $14,999 | 9 - $40,000 to $49,999 | 15 - $150,000 or more |
| 4 - $15,000 to $19,999 | 10 - $50,000 to $59,999 | 99 – No response |
| 5 - $20,000 to $24,999 | 11 - $60,000 to $74,999 | |
| 6 - $25,000 to $29,999 | 12 - $75,000 to $99,999 | |

**Workplace Vehicles Owned/Leased Survey**
Part 1 - Vehicle Information (Record Type 20)

This file will contain general information for each vehicle included in the vehicle survey. Data for each vehicle surveyed will be recorded using the following ASCII format.

Field Columns

| Item | Begin | End | Type | Format | Description |
|------|-------|-----|------|--------|-------------|
| 1. Record Type | 1 | 2 | Numeric RJ | I2 | Code which indicates the type of record, here it should be 20. |
| 2. Vehicle ID Number | 3 | 5 | Numeric RJ | I3 | Unique identification number assigned to vehicle for survey purposes. |
| 3. Vehicle License Num. | 6 | 15 | Alphanum. LJ | A10 | License number of the vehicle being surveyed. |
| 4. Month | 16 | 17 | Numeric RJ | I2 | Month of vehicle travel day. |
| 5. Day | 18 | 19 | Numeric RJ | I2 | Day of the month of vehicle travel day. |
| 6. Name | 20 | 49 | Alphanum. LJ | A30 | Name of the company or proprietor to which the vehicle is registered. |
| 7. Address | 50 | 109 | Alphanum. LJ | A60 | Address of the company/proprietor to which the vehicle is registered. |
| 8. City | 110 | 139 | Alphanum. LJ | A30 | City of the company/proprietor address. |
| 9. Zip | 140 | 144 | Integer | I5 | Zip Code of the company/proprietor address. |
| 10. SIC Code | 145 | 150 | Numeric RJ | I6 | Four digit Standard Industrial Classification of the business at the base location. |
| 11. Study Zone ID | 151 | 151 | Alphanum.LJ | A1 | Code indicating city of study area location. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; or '9' – outside Texas. |
| 12. Zone | 152 | 156 | Numeric RJ | I5 | Zone where base is located. Unknown zones should be coded 8888. |
| 13. Longitude | 157 | 166 | Numeric RJ | F10.6 | Longitude of the base location. Unknown longitudes should be coded 888.8888. |
| 14. Latitude | 167 | 176 | Numeric RJ | F10.6 | Latitude of the base location. Unknown latitudes should be coded 888.8888. |
| 15. Make of Vehicle | 177 | 201 | Alphanum. LJ | A25 | Make of vehicle. |
| 16. Model of Vehicle | 202 | 226 | Alphanum. LJ | A25 | Model of vehicle. |
| 17. Year of Vehicle | 227 | 230 | Numeric RJ | I4 | Year vehicle was manufactured. Unknown years should be coded 9999. |
| 18. Vehicle Fuel Type | 231 | 232 | Numeric RJ | I2 | Type of fuel used by vehicle. 1 – Unleaded Gas; 2 – Diesel; 3 – Propane; or 4 – Other. |
| 19. Fuel Type Other | 233 | 242 | Alphanum. LJ | A10 | If item 15 is coded "Other," this is a description of the type of fuel. Otherwise this field is blank. |
| 20. Vehicle Class. | 243 | 244 | Numeric RJ | I2 | Code indicating the classification of the vehicle. See below for code descriptions. |
| 21. Other Vehicle | 245 | 264 | Alphanum. LJ | A20 | If item 17 is coded "Other," this field should contain a description of the vehicle. Otherwise this field is blank. |
| 22. Vehicle Type | 265 | 266 | Numeric RJ | I2 | Code indicating type of commercial vehicle. 1 is used for cargo and / or freight transport and 2 is used for service vehicles. |
| 23. Gross Veh. Weight | 267 | 272 | Numeric RJ | I6 | Gross weight of the vehicle or total gross weight of the vehicle / trailer combination. |
| 24. Odometer | 273 | 279 | Numeric RJ | I7 | Odometer mileage on the vehicle at the beginning of the survey day. Refusals or unknown values should be coded 9999999. |
| 25. More Trips | 280 | 283 | Numeric RJ | I4 | 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. |

The above record will be followed by the records containing the trip diary information for the commercial vehicle.

Item 17: Vehicle Classification Codes

1. Passenger car
2. Pick-up Truck
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

**Austin San Antonio Work Place Travel Survey**
Workplace Vehicles Owned/Leased Survey, Trip Information (Record Type 21)

This file will contain trip information for each vehicle included in the commercial vehicle survey. Data for each commercial vehicle surveyed will be recorded using the following ASCII format.

| Item | Begin | End | Type | Field Columns Format | Description |
|------|-------|-----|------|--------|-------------|
| 1. Record Type | 1 | 2 | Numeric RJ | I2 | Code which indicates the type of record, here it should be 21. |
| 2. Veh. ID Number | 3 | 5 | Numeric RJ | I3 | Unique identification number assigned to vehicle for survey purposes. Must match the number used in data format for record type 20. |
| 3. Veh. Lic. Number | 6 | 15 | Alphanum LJ | A10 | License number of the vehicle being surveyed. |
| 4. Trip Number | 16 | 17 | Numeric RJ | I2 | Trip number. Beginning trip will be recorded as 0 with each subsequent trip numbered sequentially as 1,2,3, etc. |
| 5. Location | 18 | 47 | Alphanum LJ | A30 | Name or description of location. |
| 6. Address | 48 | 107 | Alphanum. LJ | A60 | Address or nearest street intersection, or placename first of the location. |
| 7. City | 108 | 137 | Alphanum. LJ | A30 | City corresponding to the address. |
| 8. Zip | 138 | 142 | Numeric RJ | I5 | Zip code for the address. |
| 9. Study Zone ID | 143 | 143 | Numeric RJ | I1 | Code indicating city of study area location. 'A' - in Austin study area; 'S' – in San Antonio study area; 'T' – in county that is not in the study area, but within Texas; or '9' – outside Texas |
| 10. Zone | 144 | 148 | Numeric RJ | I5 | Zone number of location. Unknown zones in study area should be coded 8888. Locations in Mexico should be coded 7777. Locations outside study area but within Texas should be coded to the state zone system. Locations outside of study area but within Texas that cannot be geocoded should be coded 6666. Locations outside of Texas should be coded 9999. |
| 11. Longitude | 149 | 158 | Numeric RJ | F10.6 | Longitude of location. Unknown longitudes in study area should be coded 888.8888. Longitudes for locations in Mexico should be coded 777.7777. Longitudes for locations outside Texas should be coded 999.9999. Unknown locations outside study area but in Texas should be coded 666.6666. |
| 12. Latitude | 159 | 168 | Numeric RJ | F10.6 | Latitude of location. Unknown latitudes in study area should be coded 888.8888. Latitudes for locations in Mexico should be coded 777.7777. Latitudes for locations outside Texas should be coded 999.9999. Unknown locations outside study area but in Texas should be coded 666.6666. |
| 13. Work Indicator | 169 | 170 | Numeric RJ | I2 | Code indicating if this location is base location for the vehicle. 1 – Yes, or 2 – No. |
| 14. County Indicator | 171 | 172 | Numeric RJ | I2 | Code indicating the county the address is located. 1- Bexar, 2- Comal, 3- Guadalupe, 4- Kendall, 5- Wilson, 6- Travis, 7- Hays, 8- Williamson, 9- Bastrop, 10- Caldwell, 98 – Other, or 99 – Refused. |
| 15. Arrival Hour | 173 | 174 | Numeric RJ | I2 | Hour that the vehicle arrived at this location. This hour should be in military format. For trip 0, this field should be blank. |
| 16. Arrival Minute | 175 | 176 | Numeric RJ | I2 | Minute that the vehicle arrived at this location. For trip 0, this field should be blank. |
| 17. Departure Hour | 177 | 178 | Numeric RJ | I2 | Hour that the vehicle departed this location. This hour should be in military format. If this is the last trip, this field should be blank. |
| 18. Departure Minute | 179 | 180 | Numeric RJ | I2 | Minute that the vehicle departed this location. If this is the last trip, this field should be blank. |
| 19. Type of Place/Activity | 181 | 182 | Numeric RJ | I2 | Code indicating the type of place at this location. See activity code descriptions below. |
| 20. Other Place | 183 | 202 | Alphanum. LJ | A20 | If the type of place is coded "Other," this field should contain the description of the land use activity at this location. |
| 21. Trip Purpose | 203 | 204 | Numeric RJ | I2 | Code indicating purpose of trip. See definitions below. For place number 0 (first trip), this should be coded 1 if it began at the base location, 6 if it began at home, or 7 if it began at another location. |
| 22. Other Purpose | 205 | 224 | Alphanum. LJ | A20 | If trip purpose is coded "Other," this field should contain the description of the trip purpose given. |

Workplace Vehicles Owned/Leased Survey, Trip Information (Record Type 21) - Continued

Field Columns

| Item | Begin | End | Type | Format | Description |
|------|-------|-----|------|--------|-------------|
| 23. Cargo | 225 | 226 | Numeric RJ | I2 | 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. |
| 24. Other Cargo | 227 | 256 | Alphanum. LJ | A30 | If item 22 is coded 22, this field should contain a description of the cargo. Otherwise this field is blank. |
| 25. Load | 257 | 258 | Numeric RJ | I2 | Code indicating if vehicle is partially or fully loaded when leaving initial location. Use 1 if fully loaded; 2 if partially loaded; or 3 if empty. This field is coded only for trip 0 |
| 26. Initial cargo weight | 259 | 264 | Numeric RJ | I6 | Weight of cargo in pounds being carried when leaving initial location. This field is coded only for trip 0. |
| 27. Delivery cargo weight | 265 | 270 | Numeric RJ | I6 | Weight of cargo in pounds being delivered. This field is blank for trip 0. |
| 28. Pick Up cargo weight | 271 | 276 | Numeric RJ | I6 | Weight of cargo in pounds being picked up. This field is blank for trip 0. |

Item 17: 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 19: Trip 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 – To Home
8 – Buy Gas/Fuel
9 – Service Related
10 - Other
99 – Refused / Unknown

| Item 24: Cargo Classifications | | | Cargo Descriptions |
|---|---|---|---|
| 1 | - | Farm Products | Livestock, fertilizer, dirt, landscaping, etc. |
| 2 | - | Forest Products | Trees, sod, etc. |
| 3 | - | Marine Products | Fresh fish, seafood, etc. |
| 4 | - | Metals and Minerals | Crude petroleum, natural gas, propane, Metals, gypsum, ores, etc. |
| 5 | - | Food, Health, and Beauty Products | Assorted food products, cosmetics, etc. |
| 6 | - | Tobacco Products | Cigarettes, cigars, and chewing tobacco |
| 7 | - | Textiles | Clothing, linens, etc. |
| 8 | - | Wood Products | Lumber, paper, cardboard, wood pulp, etc. |
| 9 | - | Printed Matter | Newspapers, magazines, books, etc. |
| 10 | - | Chemical Products | Soaps, paints, household or industrial chemicals, etc. |
| 11 | - | Refined Petroleum or Coal Products | Gasoline, etc. |
| 12 | - | Rubber, Plastic, and Styrofoam Products | Finished products of rubber, plastic, or Styrofoam |
| 13 | - | Clay, Concrete, Glass, or Stone | Finished products of clay, concrete, glass, or stone |
| 14 | - | Manufactured Goods / Equipment | Miscellaneous products, such as machinery, appliances, furniture, etc. |
| 15 | - | Wastes | Waste products including scrap and recyclable materials |
| 16 | - | Miscellaneous Shipments | U.S. mail, U.P.S., Federal Express, and other mixed cargo |
| 17 | - | Hazardous Materials | Hazardous chemicals and substances |
| 18 | - | Transportation | Automobiles and other transport vehicles |
| 19 | - | Unclassified Cargo | Cargo not falling within one of the above categories |
| 20 | - | Driver Refused to Answer | Driver refused to answer |
| 21 | - | Unknown to Driver | Unknown to driver |
| 22 | - | Empty | Empty (including empty shipping containers) |