2005/2006 Rio Grande Valley Work Place Travel Survey
Technical Summary

Texas Department of Transportation
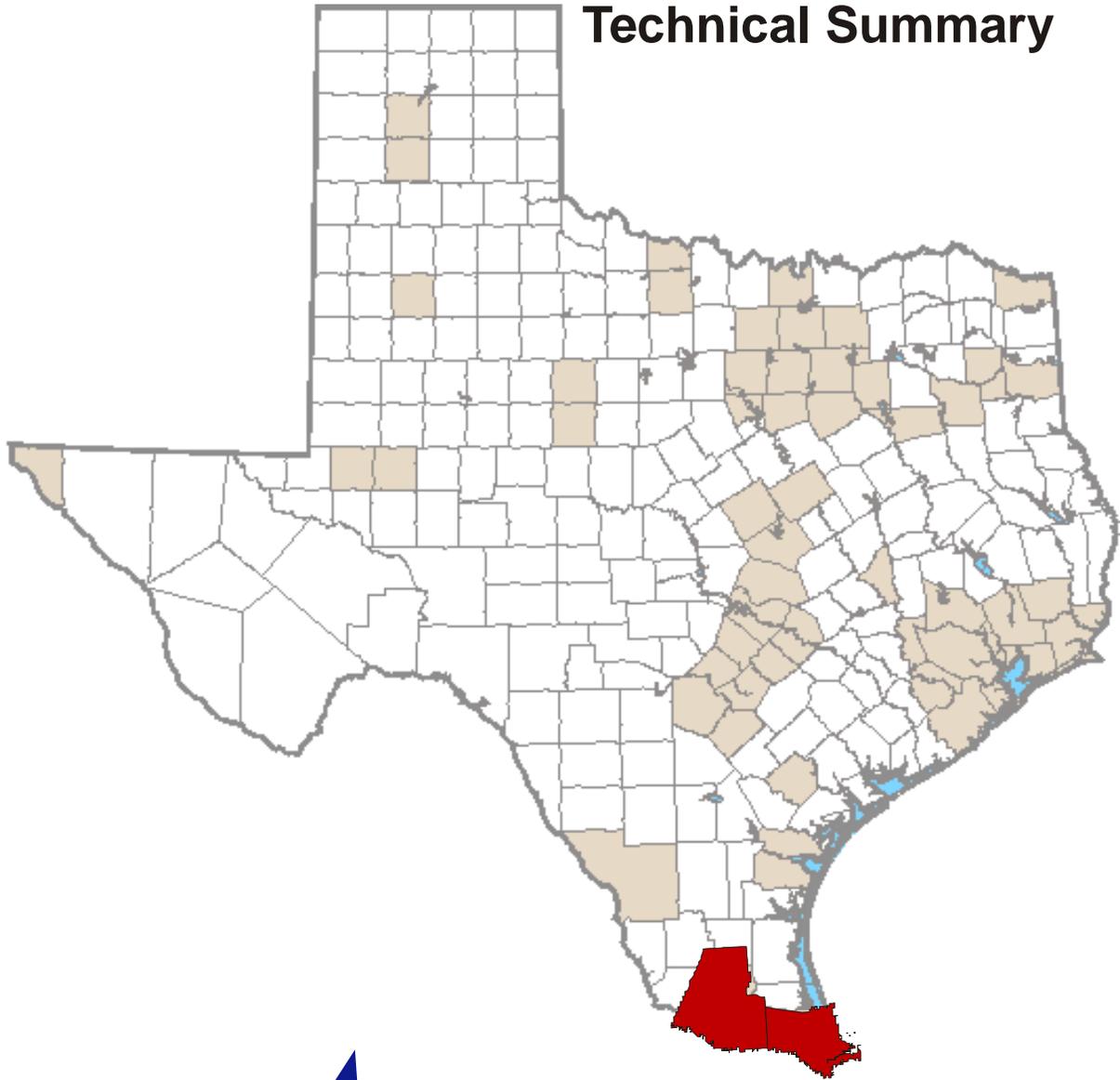
Prepared by the Texas Transportation Institute August 2008

2005/06 Rio Grande Valley Work Place Travel Survey

TECHNICAL SUMMARY

Texas Department of Transportation Travel Survey Program

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INTRODUCTION

In 2004 - 2006, the Transportation Planning and Programming (TPP) Division of the Texas Department of Transportation (TxDOT) funded a comprehensive set of travel surveys in Hidalgo and Cameron counties, Texas (referred to as the Rio Grande Valley). These surveys measure and identify travel patterns within Hidalgo and Cameron counties. The data obtained will be used to develop and update the travel demand model for three Metropolitan Planning Organizations — Hidalgo County, Harlingen-San Benito, and Brownsville. The surveys conducted include a household travel/activity survey with a Global Positioning System component, a work place survey, an external station survey, a travel time and delay survey, and two special generator surveys conducted as part of the work place survey.

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

WORK PLACE SURVEY

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

RIO GRANDE VALLEY STUDY AREA

The boundary established for the Valley work place survey included Hidalgo and Cameron counties. Figure 1 shows these counties relative to the state of Texas. The counties are located in the southern portion of Texas along the Texas-Mexico border. The population of Hidalgo and Cameron county based on the 2000 census was 904,690. The population during the time period of this survey in 2006 was estimated by the census to be 1,097,724. Data from the Texas Workforce Commission (TWC) indicated that nearly 16,000 work place establishments are located in the two counties with a total employment of just over 300,000 in 2004. The

population and work places in the two counties are concentrated in a number of cities including McAllen, Pharr, Harlingen, San Benito, Brownsville and others. This area is one of the primary gateways for the movement of people and freight between Mexico, Texas, and the U.S.
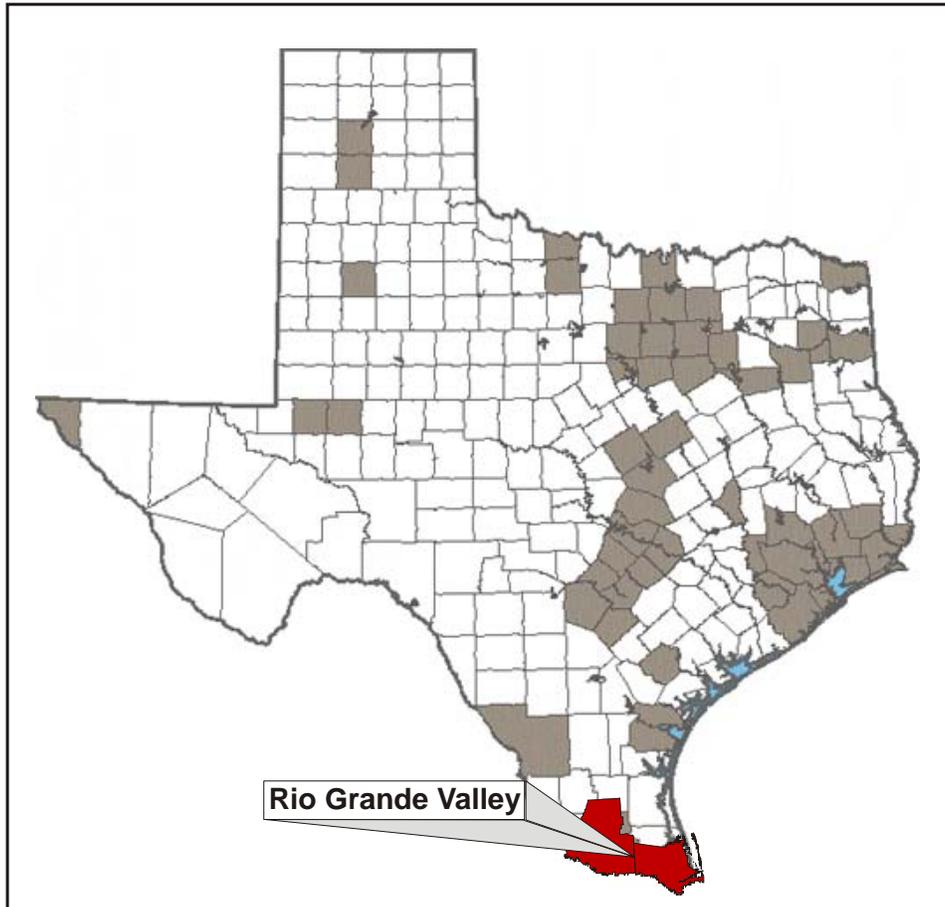
Figure 1. Rio Grande Valley Study Area.

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. These groupings were based on the standard industrial classification (SIC) code for establishments shown in Table 1.

Table 1. Standard Industrial Classification Groupings by Employment Type.

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 which essentially stand alone with their own access points and parking facilities. Persons traveling to these establishments are attracted to just that establishment. Non-Free standing establishments are those that share access points and parking. These are usually located in multi-use developments and persons traveling to an establishment in these developments may or may not make several stops at different establishments within the development. Figures 2 and 3 show examples of these types of establishments.

For travel demand modeling purposes, the Rio Grande Valley study area is divided into distinct areas called traffic analysis zones (TAZ). These zones are grouped according to the level of activity within the zone as measured by the density of population and employment within the zone. There were five area types used in the valley. These were the central business district (CBD), the central business district fringe (CBD Fringe), urban, suburban, and rural.

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 Valley and the second was a partial survey of randomly selected business establishments. A full survey consists of six data collection efforts. The first is a general survey of the establishment to determine its status as

free/non-free standing, the number of employees, amount of parking, number of daily deliveries, hours of operation, and other general information. The second is a survey of the employees at the establishment where each is asked to record their trips for a 24-hour period in a travel diary. The third is an intercept survey (during the same time period) of the visitors (i.e., non-employees) at the establishment. The fourth is a survey of the commercial vehicles that travel to the site on the same day as the employee and visitor surveys. The fifth data collection is a count of either persons or vehicles arriving and departing the establishment and a count of the commercial vehicles arriving and departing the establishment. The sixth, and last data collection effort, is a survey of the vehicles owned or leased by the establishment and used for business purposes. The Valley work place survey is the first survey to include the survey of vehicles owned and leased by the establishment. It is also the first survey to collect data on the number and type of vehicles owned and leased by establishments for business purposes.

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

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

PHASE 1 FINDINGS

Based on data from the TWC, the number of establishments in Hidalgo and Cameron counties in 2004 was 4,265 Basic, 3,726 Retail, and 7,843 Service. A random sample of 5 percent of each category of establishments was conducted by phone to ascertain the location of the establishment

(i.e., to determine the zone and area type where it was located), whether the establishment was free or non-free standing, and to determine the number of employees at the establishment. Table 2 presents the results of this survey.

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

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

SAMPLING PLAN

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

Table 5 presents the final sampling plan for Phase 2 of the Rio Grande Valley work place survey. The sampling is weighted to obtain more surveys of retail and service than basic establishments. This was intentional 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. It should also be noted that two of the full survey service establishments to be surveyed were the

Brownsville/South Padre Island International Airport and the Valley International Airport. These were considered special generators and were analyzed and discussed separately.

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

Note in Table 6 that the employment type Education has been included and four area types are used. After the surveys were completed, the decision was made to develop trip production rates for education, pre-kindergarten through 12th grade. This created the necessity to develop corresponding attraction rates for education employment. Since this was not considered in the 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 were surveyed. The area type designations changed with the new zone system and only four types were used. These are the reasons the final distribution of surveyed sites do not match the sampling plan.

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

| | Employment Type - Basic | | | | | | | | | | | | |
| Number Employees | CBD Area Type 1 | | CBD Fringe Area Type 2 | | Urban Area Type 3 | | Suburban Area Type 4 | | Rural Area Type 5 | | Total | | |
	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	Total
1500 +							1				1		1
1000-1499													
500-999									1		1		1
200-499					1		7		2		10		10
100-199	1	1			3		14	1	13		31	2	33
50-99					2		9		14	1	25	1	26
25-49	3		1		6	1	13	3	9	1	32	5	37
10-24				1	9		22	4	15	1	46	6	52
5-9					1	2	10	5	15	1	26	8	34
1-4			2		3		5	2	8		18	2	20
Totals	4	1	3	1	25	3	81	15	77	4	190	24	214
	5		4		28		96		81		214		

| | Employment Type - Retail | | | | | | | | | | | | |
| Number Employees | CBD Area Type 1 | | CBD Fringe Area Type 2 | | Urban Area Type 3 | | Suburban Area Type 4 | | Rural Area Type 5 | | Total | | |
	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	Total
1500 +													
1000-1499													
500-999					1						1		1
200-499					3		3	1	1	1	7	2	9
100-199	4	1			10		10	1	5	1	29	3	32
50-99		2	1		2		6	2	4	1	13	5	18
25-49	4	1	1		11	2	14	3	7		37	6	43
10-24	2	4	1		10	3	11	5	8	4	32	16	48
5-9		3	1	1	8	2	7	2	3	2	19	10	29
1-4			1		1	1	1	1	2		5	2	7
Totals	10	11	5	1	46	8	52	15	30	9	143	44	187
	21		6		54		67		39		187		

| | Employment Type - Service | | | | | | | | | | | | |
| Number Employees | CBD Area Type 1 | | CBD Fringe Area Type 2 | | Urban Area Type 3 | | Suburban Area Type 4 | | Rural Area Type 5 | | Total | | |
	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	FS	N-FS	Total
1500 +													
1000-1499					1						1		1
500-999					1				1		2		2
200-499					2	1	3		2	1	7	2	9
100-199					3		8		2		13		13
50-99					15	1	11	2	9		35	3	38
25-49	1	2			6	3	5	3	7	2	19	10	29
10-24	7	2	3	4	16	10	24	15	9	11	59	42	101
5-9	3	3	5	1	14	20	16	16	12	11	50	51	101
1-4	5	5	2	4	20	17	15	16	6	9	48	51	99
Totals	16	12	10	9	78	52	82	52	48	34	234	159	393
	28		19		130		134		82		393		

Table 3. Phase 1 Surveyed Establishments.

Sample Area	Basic	Retail	Service	Total
1 – CBD, CBD Fringe	9	27	47	83
2 – Urban, Suburban	124	121	264	509
3 – Rural	81	39	82	202
Total	214	187	393	794

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

Sample Area	Basic	Retail	Service	Total
1 – CBD, CBD Fringe	179	538	938	1,655
2 – Urban, Suburban	2,471	2,411	5,269	10,151
3 – Rural	1,615	777	1,636	4,028
Total	4,265	3,726	7,843	15,834

Table 5. Rio Grande Valley 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	5	3	5	15	7	12	17	30
2 – Urban, Suburban	5	8	19	57	36	62	60	127
3 – Rural	5	4	6	18	12	21	23	43
Totals	15	15	30	90	55	95	100	200

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	3	1	5	8	6	8	0	0	14	17
2 – Urban	3	5	20	50	23	53	3	1	49	109
3 – Suburban	2	7	10	29	16	23	0	4	77	63
4 - Rural	2	1	3	7	1	8	0	0	6	16
Totals	10	14	38	94	46	92	3	5	97	205

SAMPLING RESULTS

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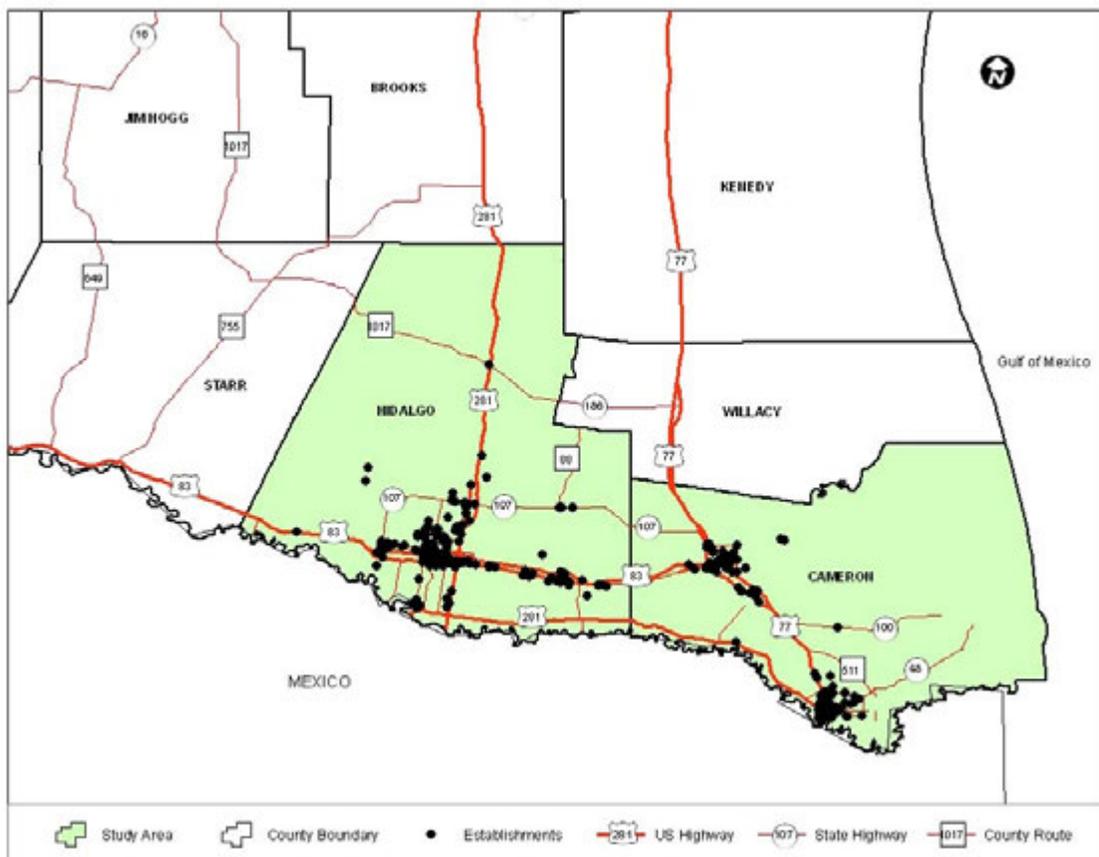
Figure 4. Rio Grande Valley Work Place Survey Locations.

Table 7. Full Survey Establishments.

Area Type	Item	Employment Type				Totals
		Basic	Retail	Service	Education	
CBD	Number of Sites	3	5	6	0	14
	Surveyed Employees	8	16	11	0	35
	Surveyed Visitors	66	184	81	0	331
	Total Employment	265	128	70	0	463
	Employees at Work	195	100	59	0	354
Urban	Number of Sites	3	20	23	3	49
	Surveyed Employees	7	54	58	16	135
	Surveyed Visitors	24	730	291	50	1095
	Total Employment	70	696	394	155	1315
	Employees at Work	61	553	157	139	910
Suburban	Number of Sites	2	10	16	0	28
	Surveyed Employees	5	34	38	0	77
	Surveyed Visitors	25	744	164	0	933
	Total Employment	103	565	211	0	879
	Employees at Work	53	506	199	0	758
Rural	Number of Sites	2	3	1	0	6
	Surveyed Employees	4	9	2	0	15
	Surveyed Visitors	30	259	2	0	291
	Total Employment	14	51	3	0	68
	Employees at Work	14	35	2	0	51

Table 8. Partial Survey Establishments.

Area Type	Item	Employment Type				Totals
		Basic	Retail	Service	Education	
CBD	Number of Sites	1	8	8	0	17
	Total Employment	25	216	150	0	391
	Employees at Work	20	167	106	0	293
Urban	Number of Sites	5	50	53	1	109
	Total Employment	243	1785	1026	80	3,134
	Employees at Work	163	1347	564	70	2,144
Suburban	Number of Sites	7	29	23	4	63
	Total Employment	694	1365	215	222	2,496
	Employees at Work	633	997	176	210	2,016
Rural	Number of Sites	1	7	8	0	16
	Total Employment	5	242	51	0	298
	Employees at Work	1	170	46	0	217

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

Figures 6 and 7, respectively, present the distributions of persons by vehicles available and by household income. The households represented by survey participants were larger in size than the population in the Valley. The participants in the survey typically came from households with more vehicles available than the population of the valley. The participants in the survey came from households with incomes that fell mostly in the range $20,000-to-$40,000. Households with lower incomes were generally under represented while households with higher incomes were represented in about the same proportion as they occur in the population. The distribution of households above $40,000 matched that reported in the census fairly well.

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

The data were also summarized by the reported trip purpose. Figure 9 presents the breakdown of percentage of observed trips by home-based work (HBW), home based non-work (HBNW), non-home based destinations (NHB-D), non-home based origins (NHB-O), external destinations, external origins, and non-resident trips. HBW attractions are those trips with one end at the home and the other at the work (as indicated by the reported trip purpose).
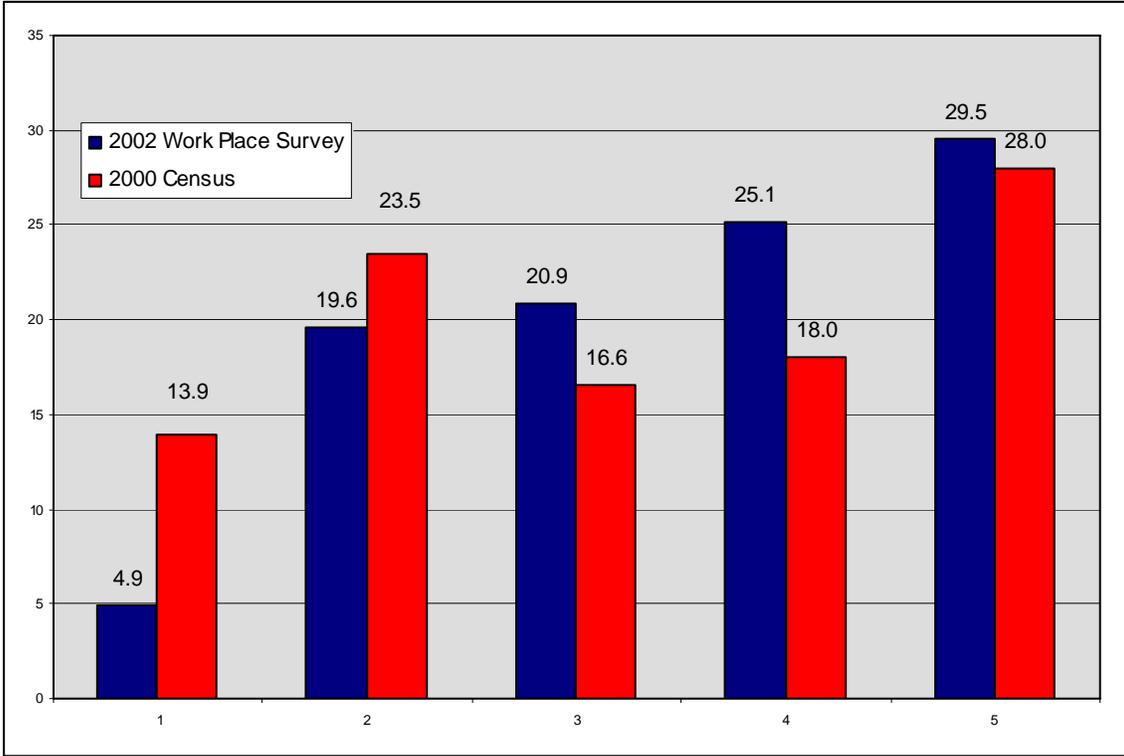
Figure 5. Distribution of Households by Household Size.
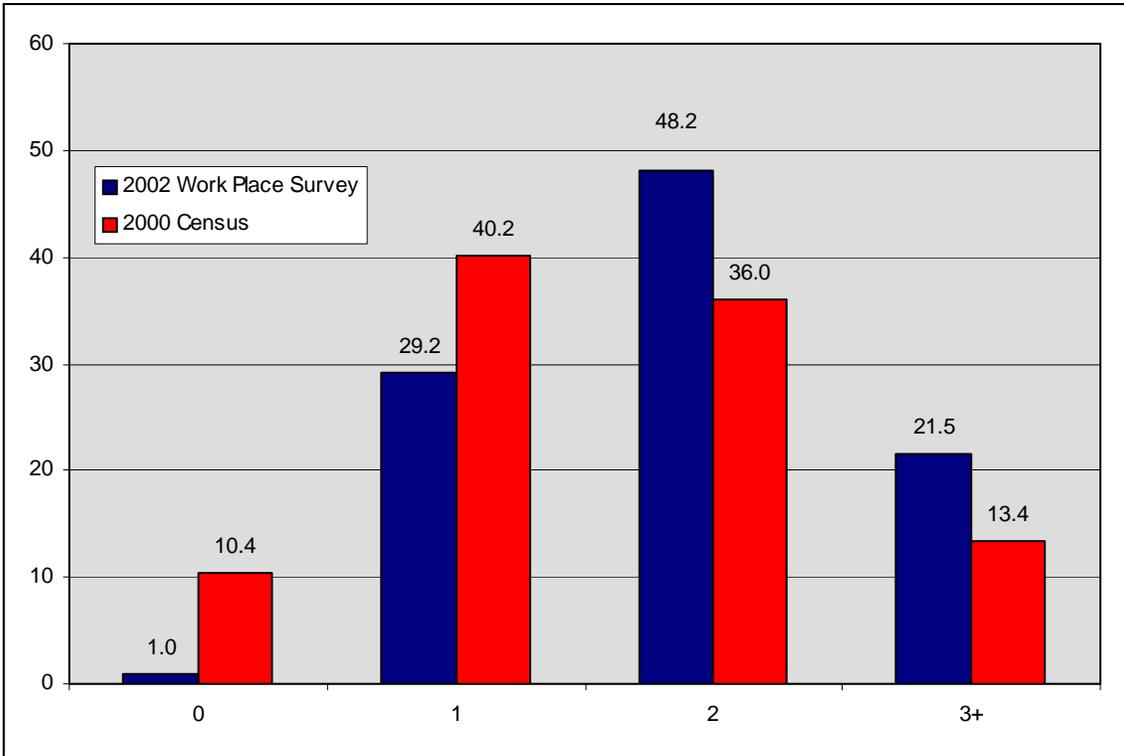
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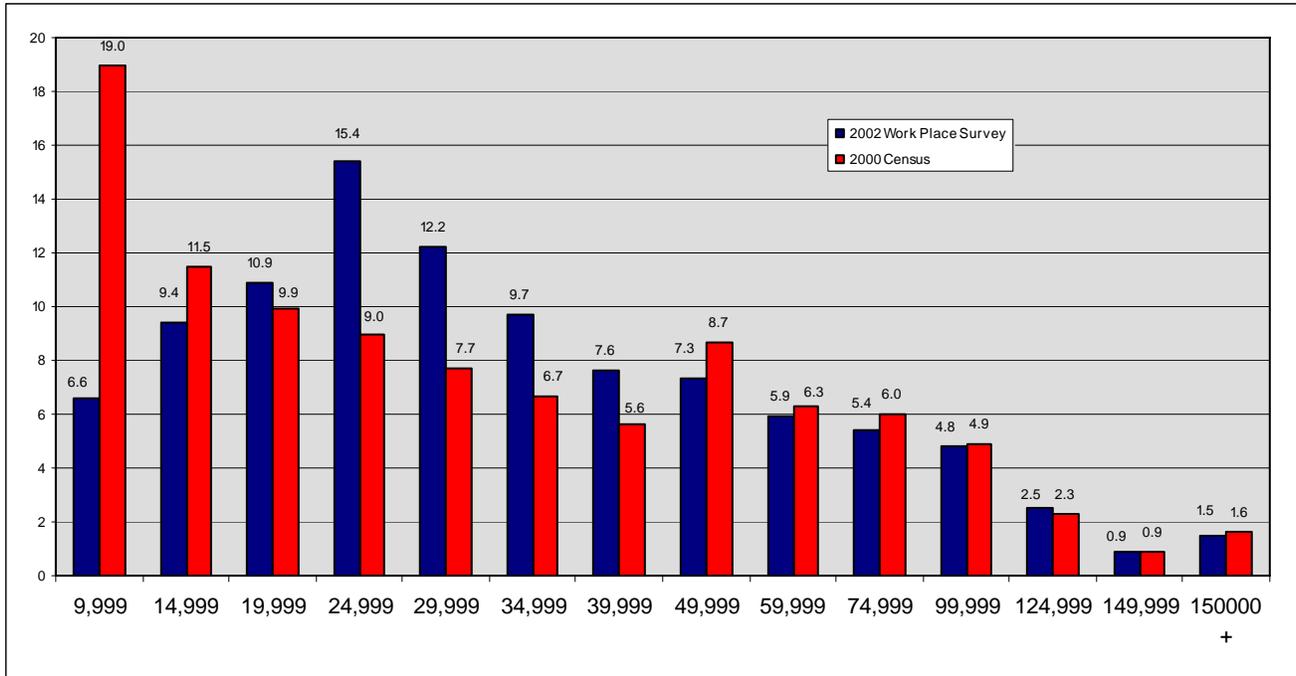
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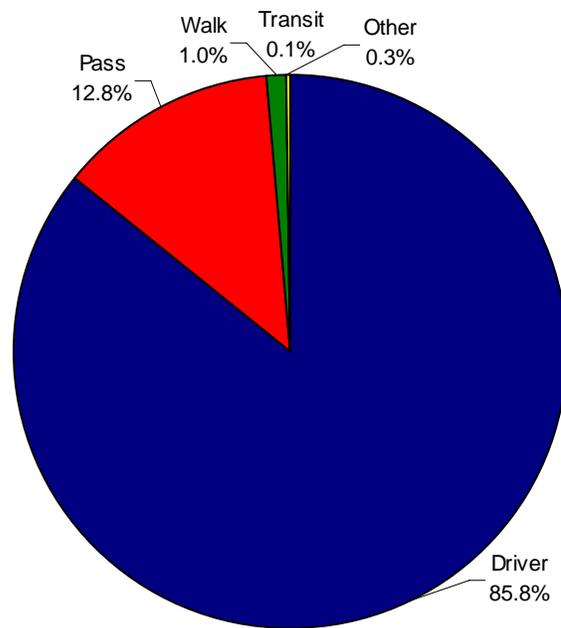
Figure 8. Distribution of Surveyed Trips by Mode of Travel.
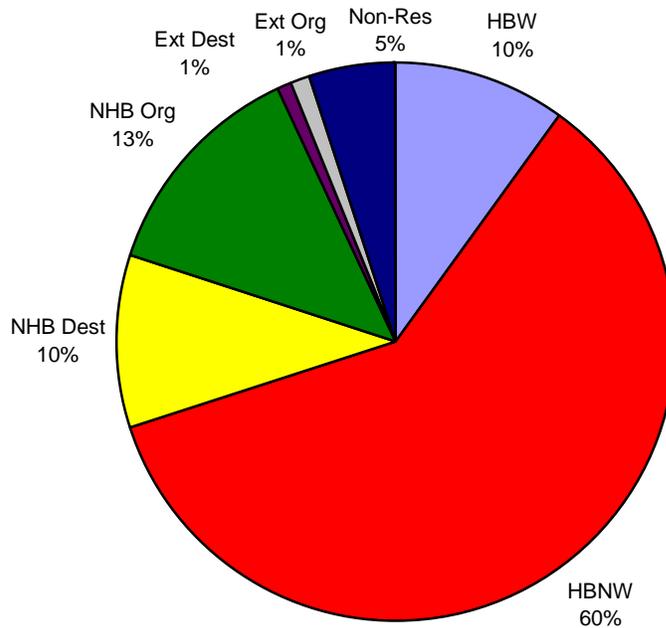
Figure 9. Distribution of Surveyed Trips by Trip Purpose.

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

Since the data were geocoded to the TAZs, the transportation network was used to add the travel distance to the surveyed trip records. These data were then processed to compute the average trip length in travel distance as well as the trip length frequency distributions for person and vehicle trips by trip purpose. Table 9 presents the average travel distances per trip for the surveyed trips and the number of observations for each average. Figures 10 and 11 present the trip length frequency distributions for person and vehicle trips in travel distance. The average trip lengths and trip length frequency distributions are shown only for HBW, HBNW, NHB destinations, and non-resident travel.

The survey data are primarily used to develop attraction rates (i.e., trips per employee) for modeling these trip purposes. The average trip lengths are not consistent with observed characteristics in other urban areas. Generally, the average trip length for HBW trips is higher than those for HBNW and NHB. The trip length for HBNW and NHB are typically about the same value. The urban form of the valley consists of three major areas, each represented by a Metropolitan Planning Organization. This may explain the non-typical relationships in average trip length.

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

Table 9. Average Trip Length by Trip Purpose.

Trip Purpose/Type	Person Trips		Vehicle Trips	
	Observations	Miles	Observations	Miles
HBW	540	5.9	499	5.9
HBNW	3,397	6.3	2,906	6.2
NHB Destinations	572	5.2	504	5.4
Non-Resident	283	11.7	226	11.9
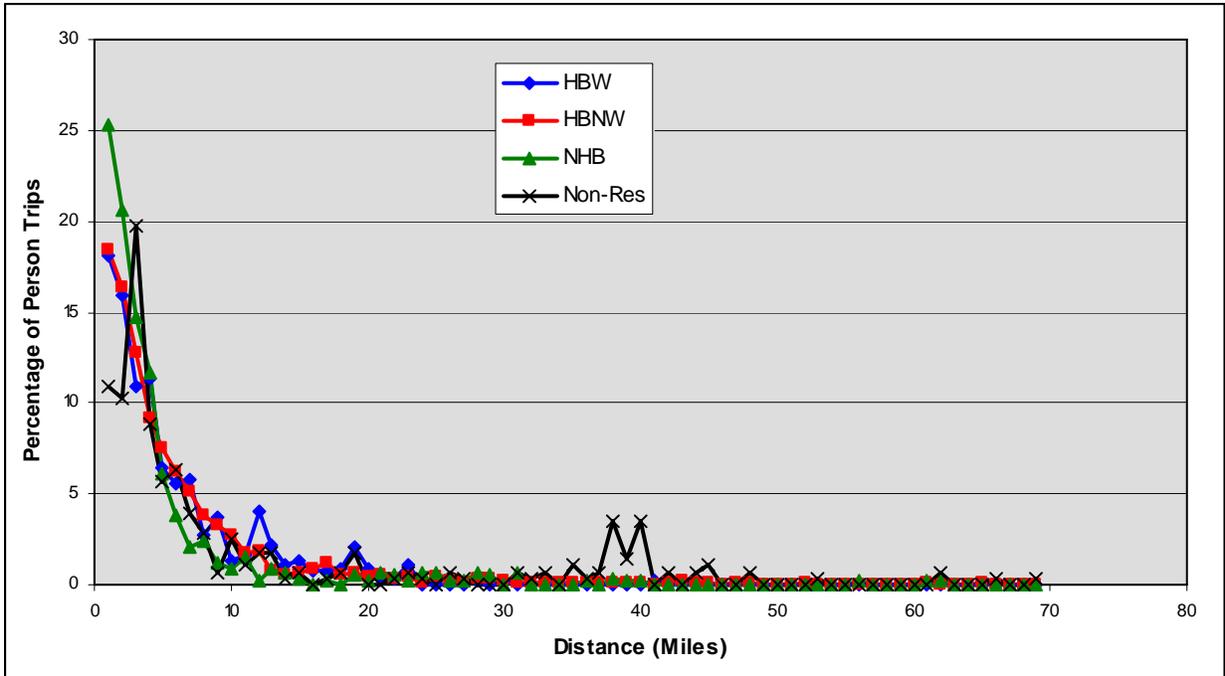
Figure 10. Survey Person Trip Length Frequency Distributions.
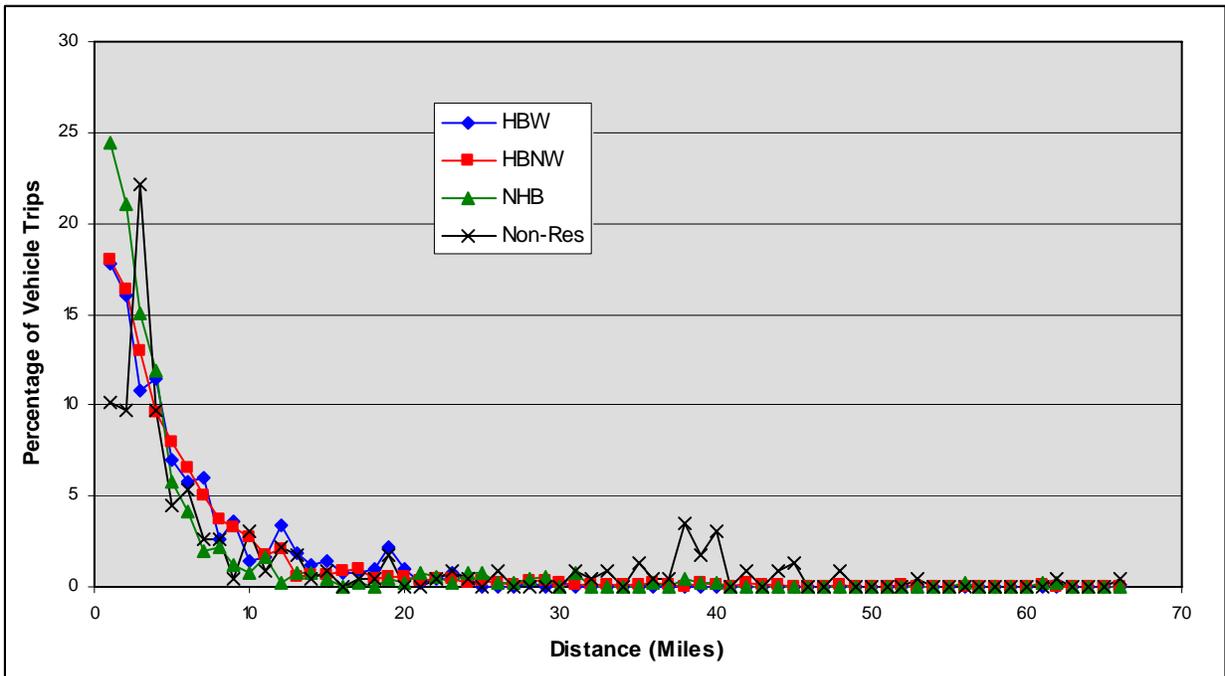
Figure 11. Survey Vehicle Trip Length Frequency Distributions.

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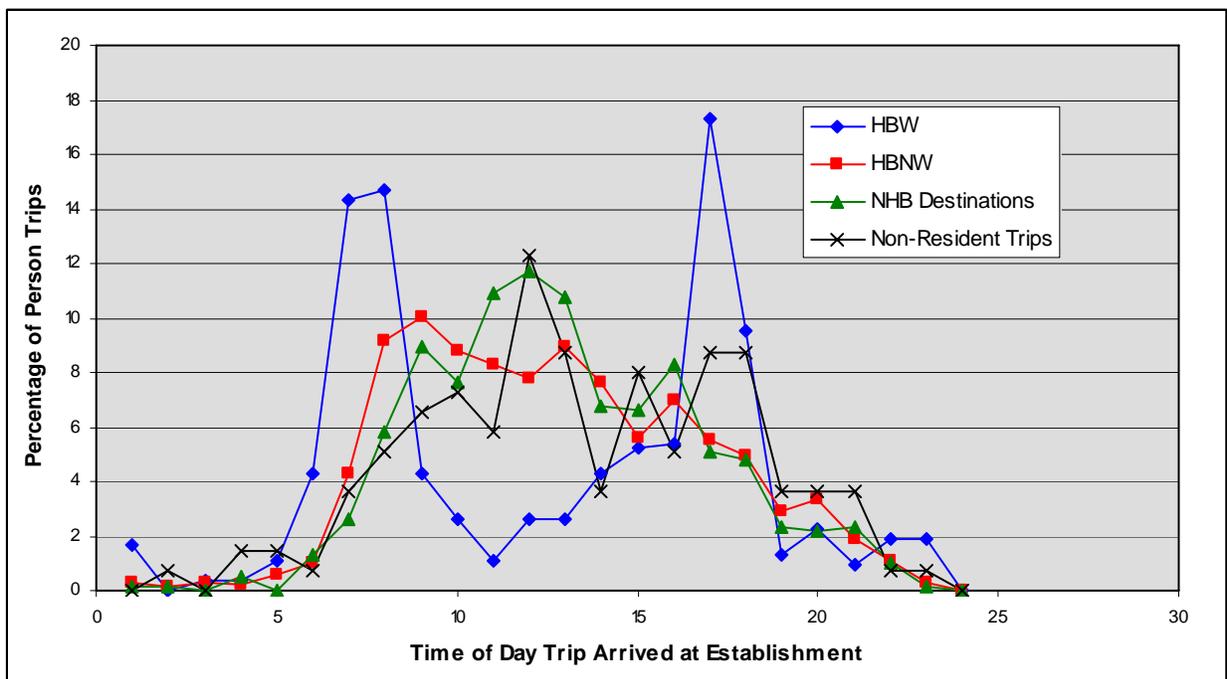
Figure 12. Distribution of Person Trips by Time of Arrival at Establishments.

COMMERCIAL VEHICLE SURVEY

In addition to the employee and visitor surveys, a count and survey of commercial vehicles at the work places was also conducted. This data provides information on the commercial vehicles attracted to the establishments, their travel patterns, type of cargo, etc. The commercial vehicle count at all of the work places was 1,652; 1,064 cargo vehicles and 588 service vehicles. Commercial vehicles were surveyed at 23 work places. The number of vehicles surveyed was 67 and data were collected on each vehicle trip to the site and where the vehicle was going after it

left the site. Of the 67 trips to the sites, 2 (3 percent) began at a location outside the study area and were classified as external destinations. None of the external destinations came from Mexico. Of the 67 trips from the surveyed sites, 3 (4 percent) were destined for a location out of the study area and classified as external origins. None were destined for Mexico.

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

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

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

Table 10 shows the distribution of surveyed vehicles by vehicle class and type of cargo being transported. Two of every three vehicles reported carrying food, health, or beauty products. The second highest reported cargo was wood products. Cargos of textiles, rubber, plastic, styrofoam products, and miscellaneous shipments were the next most frequently reported.
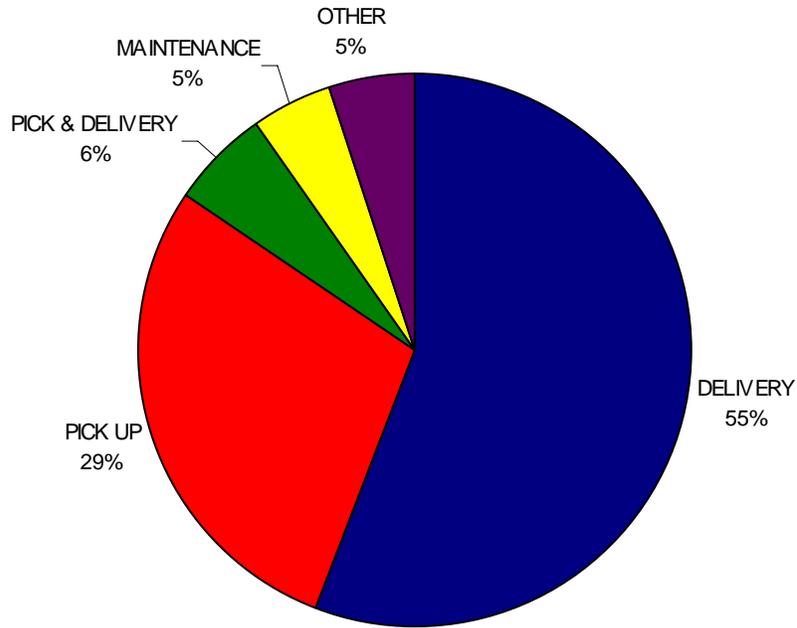
Figure 13. Distribution of All Commercial Vehicles by Purpose at Establishments.
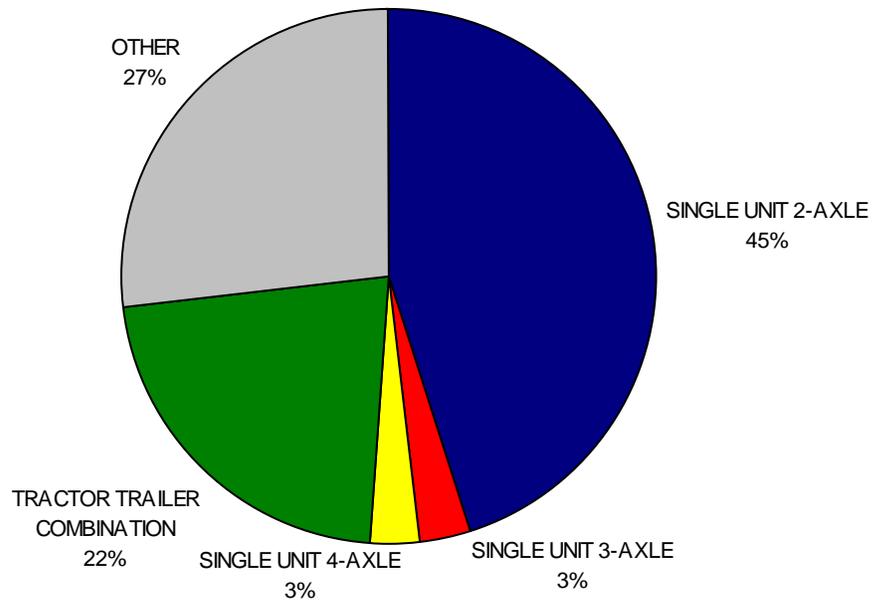
Figure 14. Distribution of Commercial Vehicles by Type of Vehicle.

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

Cargo	Other	Single Unit 2-Axle	Single Unit 3-Axle	Single Unit 4-Axle	Tractor Trailer	Total
Farm Products						
Forest Products						
Marine Products						
Metals and Minerals						
Food, Health, and Beauty Products	8	24	1	2	7	42
Tobacco Products						
Textiles					2	2
Wood Products	1	1			3	5
Printed Matter	1					1
Chemical Products	1					1
Refined Petroleum or Coal Products						
Rubber, Plastic, and Styrofoam Products	1	1	1			3
Clay, Concrete, Glass, or Stone					1	1
Manufactured Goods/Equipment	1				1	2
Wastes						
Miscellaneous Shipments	1	2			1	4
Hazardous Materials						
Transportation						
Unclassified Cargo		1				1
Driver Refused to Answer						
Unknown to Driver	4	1				5
Empty						

The surveyed commercial vehicle trips that originated and were destined for locations in the study area were geocoded to the TAZs. The average trip length for these internal commercial vehicle trips was 12.4 miles. Figure 15 presents the trip length frequency distributions for commercial vehicles in travel distance. Figure 16 presents the distribution of commercial vehicles by the time they arrived at the work place. This distribution exhibits two peak periods that occur during the morning peak and mid-afternoon.
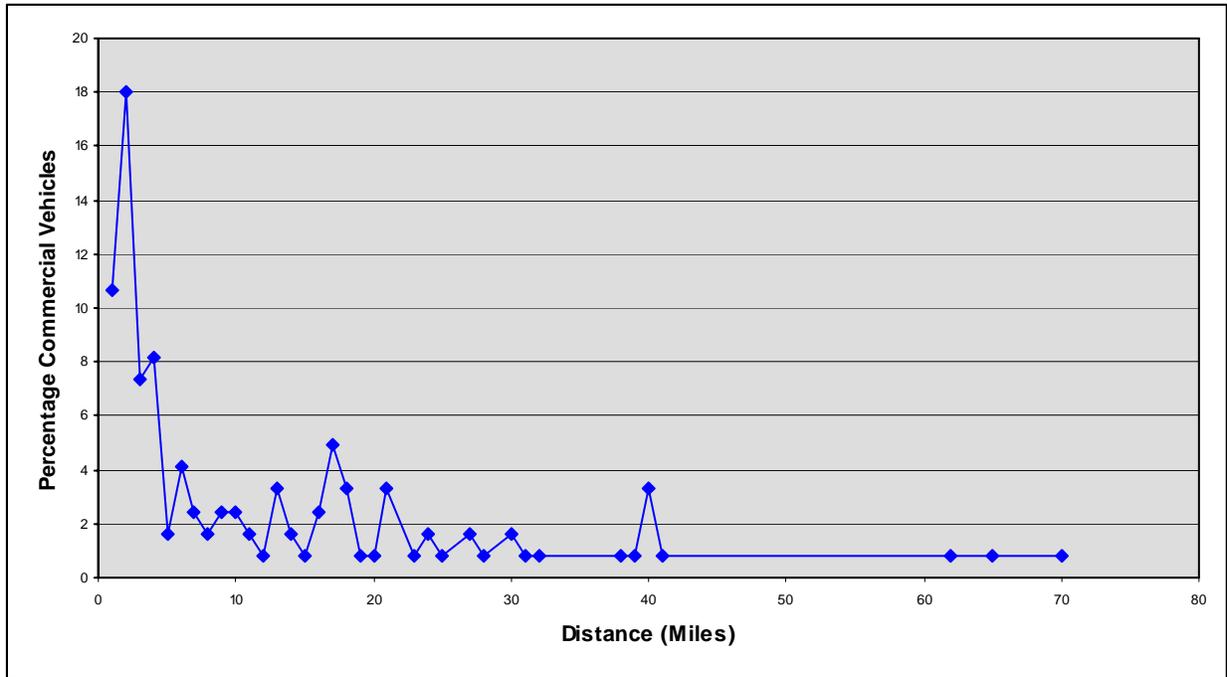
Figure 15. Commercial Vehicle Trip Length Frequency Distribution for Distance.
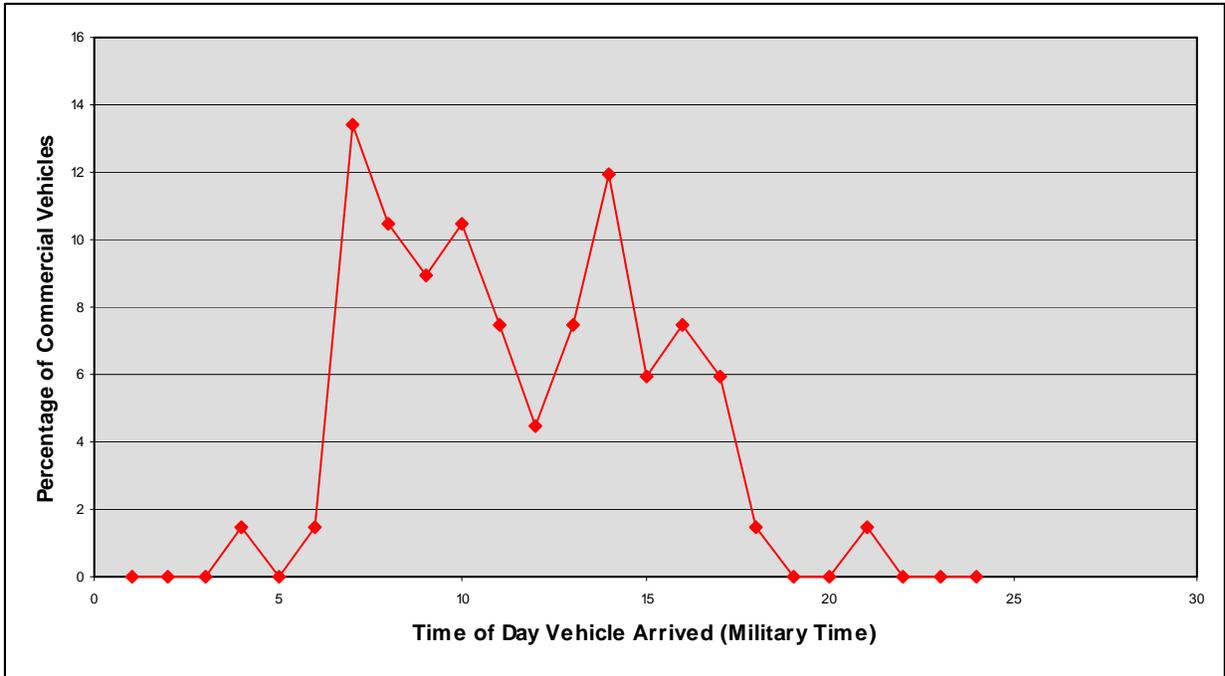
Figure 16. Distribution of Commercial Vehicles by Time of Arrival.

SPECIAL GENERATORS

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

Brownsville-South Padre Island International Airport

The Brownsville-South Padre Island International Airport was surveyed as a special generator due to its uniqueness as a transportation generator and the impact it has on the community in terms of transportation. Total employment reported at the site (this includes all businesses located on the airport property) was 24, and 19 employees were reported to be at work on the day of the survey. The number of employees that participated in the survey was 6. The number of visitors surveyed at the airport was 121 and the number of commercial vehicles counted was 10. The surveyed employees reported 18 trip ends at the airport and the visitors reported 242.

Figure 17 presents the distribution of surveyed trips by trip purpose. The majority of the surveyed trips (67 percent) at the airport were either external or made by non-residents. Of the 121 visitors surveyed, 8 percent were arriving by plane and 33 percent were departing by plane. This indicates that most of the trips that were external or non-resident were not by plane. The reported mode of travel for all of the surveyed airport employees was as a driver of a vehicle. Table 11 presents the reported modes of travel for the surveyed visitors by arrival and departure.

Visitors that reported their mode of departure as a plane were also asked where their destination was. The responses were varied with the most frequent destinations being in Texas. However, the reported destinations included cities in 30 different states and two foreign countries.
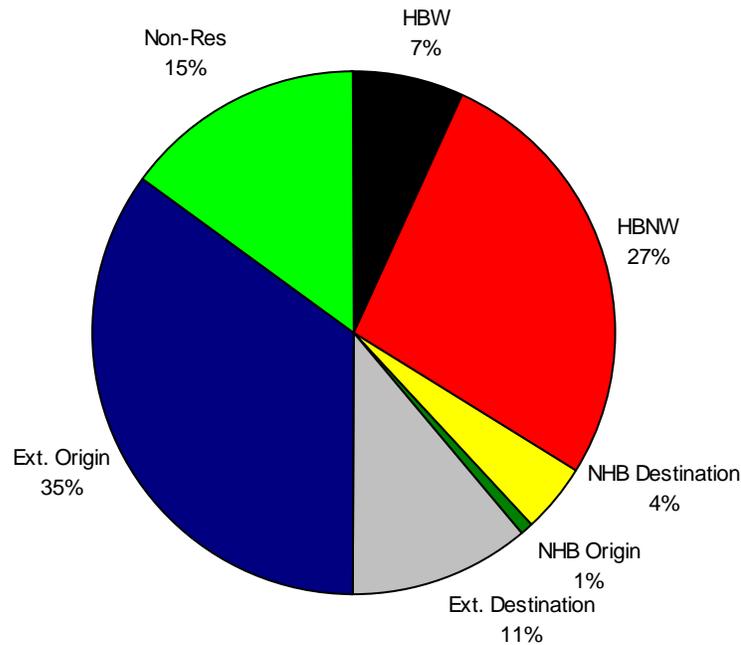
Figure 17. Distribution of Surveyed Trips at the Brownsville-South Padre Island International Airport.

Table 11. Arrival and Departure Modes of Travel for Visitors at the Brownsville-South Padre Island International Airport.

Mode	Arrivals		Departures	
	Number	Percent	Number	Percent
Driver	37	30.6	27	22.3
Passenger	40	33.0	10	8.3
Walk				
Bicycle				
Transit				
School Bus				
Taxi/Limo	3	2.5	2	1.7
Commercial Vehicle				
Motorcycle				
Airplane	19	15.7	81	66.9
Parking Shuttle				
Hotel/Motel Shuttle	3	2.5		
Rental Car	19	15.7	1	0.8
Other				
Total	121	100.0	121	100.0

The internal survey trips were geocoded for both employees and visitors to the TAZs in the Valley study area. The data were processed and average trip length computed for travel distance by trip purpose. It is recognized these data are based on a small number of observations, but they do provide a reference of comparison with the average trip lengths found for the full work place survey shown in Table 9. Table 12 shows the average trip lengths found for the airport trips.

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

Trip Purpose/Type	Person Trips	Vehicle Trips
	Miles	Miles
HBW	9.2	10.4
HBNW	13.8	13.3
NHB-Destinations	15.9	15.9
Non-Residents	12.4	10.5

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

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

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

* Per employee.

Valley International Airport

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

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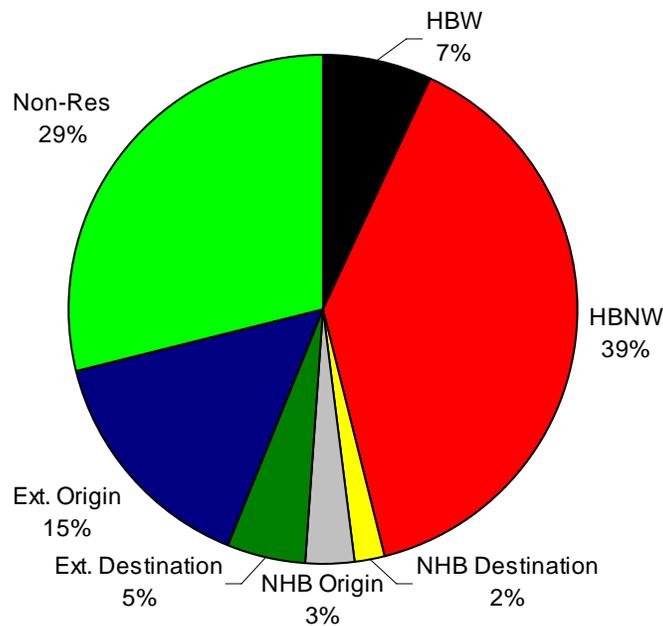
Figure 18. Distribution of Surveyed Trips at the Valley International Airport.

Visitors were also asked their destinations for departing trips and their origination points for arriving trips. The responses indicated that more than half were coming or going to locations in Texas. Areas outside Texas included cities in 13 different states and two locations in Mexico.

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

Mode	Arrivals		Departures	
	Number	Percent	Number	Percent
Driver	92	46.0	85	42.5
Passenger	25	12.5	34	17.0
Walk				
Bicycle				
Transit			1	0.5
School Bus				
Taxi/Limo	1	0.5	3	1.5
Commercial Vehicle	1	0.5		
Motorcycle	2	1.0	2	1.0
Airplane	57	28.5	51	25.5
Parking Shuttle				
Hotel/Motel Shuttle	7	3.5	4	2.0
Rental Car	15	7.5	20	10.0
Other				
Total	200	100.0	200	100.0

The internal survey trips were geocoded for both employees and visitors to the regional zones in the Valley study area. The data were processed and average trip length computed for travel distance by trip purpose. These data are based on a small number of observations and are presented only as a reference to the average trip lengths computed for the full work place surveys as shown in Table 7. Table 15 shows the average trip lengths found for the Valley International Airport trips.

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

Trip Purpose/Type	Person Trips	Vehicle Trips
	Miles	Miles
HBW	10.2	7.6
HBNW	19.6	20.4
NHB-Destinations	14.3	14.3
Non-Residents	25.8	24.8

Person counts were made at the Valley International Airport the day the surveys were conducted. These data were used to expand the survey data for employees and visitors. Additionally, counts were made of commercial vehicles to and from the airport. These data were used to develop attraction rates (i.e., attractions per employee) for the airport. Table 16 shows the expanded trips and resulting attraction rates.

Table 16. Travel Estimates for the Valley International Airport.

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

* Per employee.

SURVEY DATA EXPANSION

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

1. The employee surveys were processed for each surveyed site to calculate the number of person and vehicle trips by trip purpose and mode of travel. The average vehicle occupancy for each category of vehicle trips was also calculated by trip purpose. The trip purpose categories used were HBW, HBNW, NHB-D, NHB-O, external

destinations, external origins, and trips made by persons living outside the study area, i.e., non-residents.

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

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

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

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

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

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

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

mode of travel for all sites within each category of area type and employment type. The estimated employee person and vehicle trips by purpose and mode were then summed to produce total employee person and vehicle trips within each category of area type and employment type.

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

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

11. The completion of Steps 8 and 9 resulted in the following estimates within each category of area type and employment type:

- employee vehicle trips by trip purpose and mode of travel;
- employee person trips by trip purpose and mode of travel;
- visitor vehicle trips for those sites with vehicle counts; and
- visitor person trips for those sites with person counts.

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

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

14. The employee and visitor vehicle and person trips were summed by trip purpose and mode for each category of area type and employment type.

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

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

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

Tables 17 and 18 present the results of the data expansion and rate estimates for HBW, HBNW, NHB destinations, NHB origins, external destinations, external origins, and non-resident trips for person and auto driver trips by area type. Table 19 presents the estimated rates for commercial vehicles. Expanded survey results including rates for the two special generators were presented in the previous section in Tables 13 and 16, Brownsville-South Padre Island International Airport and the Valley International Airport. These expanded data are only for the special generator sites surveyed.

Table 17. 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	2.072	1.310	1.841	0	0.122
	Urban	3.218	1.702	1.245	2.381	0.122
	Suburban	1.623	1.481	1.728	2.459	0.122
	Rural	2.104	1.566	1.417	0	0.122
HBNW[2] Retail Attractions	CBD		30.935			
	Urban		31.272			
	Suburban		30.954			
	Rural		61.585			
HBNW Other Attractions	CBD	3.201		3.657		0.722
	Urban	3.770		5.726		0.722
	Suburban	0.769		8.616		0.722
	Rural	27.765		52.167		0.722
HBNW School Attractions	CBD				0	
	Urban				23.485	
	Suburban				21.793	
	Rural				0	
NHB[3] Destination	CBD	0.479	3.107	0.683	0	0.480
	Urban	0.932	6.813	0.898	1.687	0.480
	Suburban	0.231	4.267	0.962	1.568	0.480
	Rural	2.184	7.543	0	0	0.480
NHB[3] Origin	CBD	0.901	3.974	1.075	0	0.480
	Urban	0.781	6.971	1.295	4.098	0.480
	Suburban	0.015	6.086	1.846	3.803	0.480
	Rural	1.897	12.911	17.389	0	0.480
External Destination	CBD	0.067	2.646	0.983	0	NA
	Urban	0	0.383	0	0	NA
	Suburban	0	0.185	0	0	NA
	Rural	0	0.097	0	0	NA
External Origin	CBD	0.044	1.071	0.799	0	NA
	Urban	0	0.319	0.009	0	NA
	Suburban	0	0.262	0.042	0	NA
	Rural	0	0.583	0	0	NA
Non Resident	CBD	0.067	4.570	1.844	0	NA
	Urban	0	3.331	0.182	0	NA
	Suburban	0	2.111	0.375	0	NA
	Rural	0	6.366	0	0	NA

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

Table 18. 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	1.895	1.310	1.432	0	0.102
	Urban	1.916	1.347	1.148	1.825	0.102
	Suburban	1.594	1.348	1.591	1.933	0.102
	Rural	2.827	0.777	1.778	0	0.102
HBNW[2] Retail Attractions	CBD		14.995			
	Urban		14.423			
	Suburban		15.300			
	Rural		33.935			
HBNW Other Attractions	CBD	1.778		2.520		0.372
	Urban	2.563		3.565		0.372
	Suburban	0.666		4.828		0.372
	Rural	15.286		52.167		0.372
HBNW School Attractions	CBD				0	
	Urban				11.191	
	Suburban				10.384	
	Rural				0	
NHB[3] Destination	CBD	0.412	1.357	0.406	0	0.286
	Urban	0.630	3.562	0.606	0.742	0.286
	Suburban	0.187	2.393	0.690	0.690	0.286
	Rural	0.936	4.449	0	0	0.286
NHB[3] Origin	CBD	0.701	1.910	0.584	0	0.286
	Urban	0.555	3.595	0.850	2.207	0.286
	Suburban	0.015	3.451	1.096	2.048	0.286
	Rural	1.284	7.735	17.389	0	0.286
External Destination	CBD	0.067	1.197	0.369	0	NA
	Urban	0	0.160	0	0	NA
	Suburban	0	0.077	0	0	NA
	Rural	0	0.097	0	0	NA
External Origin	CBD	0.044	0.567	0.307	0	NA
	Urban	0	0.144	0.009	0	NA
	Suburban	0	0.123	0.021	0	NA
	Rural	0	0.292	0	0	NA
Non Resident	CBD	0.067	1.735	0.860	0	NA
	Urban	0	1.464	0.109	0	NA
	Suburban	0	1.217	0.250	0	NA
	Rural	0	3.839	0	0	NA

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

Table 19. 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	0.138	0.198	0.641	0	0.030
Urban	0.096	0.170	0.103	0	0.030
Suburban	0.044	0.283	0.249	0	0.030
Rural	0.316	0.276	0.556	0	0.030

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 17 through 19 may be used in the travel demand model directly, but these rates typically estimate more trips than those estimated from the household and other surveys. Note that data were not available in some area types, particularly for the Education employment category. Rates must be developed for these missing data. To develop rates that produce estimates more in line with those developed from the household, external station, and commercial vehicle surveys, the rates shown in Tables 17 through 19 were applied to estimates of employment and households for the Valley study area.

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

Table 20. Employment Estimates for the Valley Study Area.

Area Type	Employment Type		
	Basic	**Retail**	**Service**
CBD	2,703	6,551	7,482
Urban	23,108	30,075	58,512
Suburban	26,405	19,380	35,127
Rural	11,165	7,441	16,396
Total	63,381	63,447	117,517

Estimates of trips by trip purpose were developed by multiplying the trip rates shown in Tables 17 through 19 by the employment estimates shown in Table 20 and by the number of households by area type. Table 21 shows these estimates with the estimates from the Valley

household survey, external station survey, and commercial vehicle survey. Note that these are raw unadjusted estimates for the work place survey.

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

Trip Purpose/Type	Work Place Survey		Household Survey[1]		External Station Survey		Commercial Vehicle
	Person	Vehicle	Person	Vehicle	Person	Vehicle	Vehicle
Home Based Work	573,117	490,421	593,945	528,731	-	-	-
Home Based Non-Work Retail	2,201,303	1,081,028	575,926	331,674	-	-	-
Home Based Non-Work Other	2,166,876	1,618,226	685,412	374,439	-	-	
Home Based Non-Work Edu. (K-12)	1,112,164	529,947	816,091	233,990	-	-	-
NHB – Destinations	735,330	411,779	912,139	556,269	-	-	-
NHB - Origins	1,266,144	844,062	-	-	-	-	-
External Destinations	36,819	17,810	-	-	83,588	58,865	-
External Origins	34,125	16,282	-	-	83,588	58,865	-
Non-Resident	256,198	129,222	-	-	-	-	-
Commercial Vehicles[2]	-	56,514	-	-	-		89,192

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

The data in Table 21 indicates the estimates of HBW trips match reasonably close between the household and work place surveys. The estimates of HBNW trips from the household survey are significantly lower than the estimates from the work place survey. The estimates of NHB destinations from the household survey are higher than the estimates of NHB origin from the work place survey. These differences in estimates are not uncommon due to the small number of observations in the work place survey and the observed high variances in the attraction rates between work places. Part of the difficulty for the Valley study lies in the fact the zonal structure was modified, the area types changed, and the trip purpose categories were modified after the survey was conducted.

Typically, NHB destinations and origins are set equal in travel models. The rates for NHB destinations and origins were summed and averaged to reflect this same type of adjustment. While the estimates of external destinations and origins from the work place survey are significantly less than those from the external station survey, this is not unexpected due to the fact that the external station survey includes trips that go to residences. These numbers are presented for information purposes only since current travel demand models do not use external destination or origin rates. The estimates of the internal commercial vehicle trips from the work place survey are less than the estimate from the commercial vehicle survey. Given the limited number of surveys in some of the stratification cells and high variability of attraction rates, the raw rates from the work place survey were adjusted as follows:

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

Tables 22 and 23 show the final recommended trip rates.

Table 22. Recommended Person Trip Attraction Rates.

Trip Purpose	Area Type	Person Trips				
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee	Per Household
HBW[1]	CBD	2.072	1.310	1.841	2.419	0.122
	Urban	3.218	1.702	1.245	2.419	0.122
	Suburban	1.623	1.481	1.728	2.419	0.122
	Rural	2.104	1.566	1.417	2.419	0.122
HBNW[2] Retail	CBD		13.392			
	Urban		13.538			
	Suburban		13.400			
	Rural		14.245			
HBNW Other	CBD	1.386		1.583		0.722
	Urban	1.632		2.479		0.722
	Suburban	0.333		3.730		0.722
	Rural	0.988		3.149		0.722
HBNW School	CBD				16.612	
	Urban				16.612	
	Suburban				16.612	
	Rural				16.612	
NHB[3]	CBD	0.690	3.541	0.879	2.792	0.480
	Urban	0.856	6.892	1.100	2.792	0.480
	Suburban	0.123	5.177	1.404	2.792	0.480
	Rural	0.427	6.197	1.329	2.792	0.480

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

Table 23. Recommended Auto Driver Trip Attraction Rates.

Trip Purpose	Area Type	Auto Driver Trips				
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee	Per Household
HBW[1]	CBD	1.895	1.474	1.611	1.878	0.102
	Urban	1.916	1.515	1.292	1.878	0.102
	Suburban	1.594	1.517	1.790	1.878	0.102
	Rural	1.743	1.476	1.443	1.878	0.102
HBNW[2] Retail	CBD		5.252			
	Urban		2.051			
	Suburban		5.358			
	Rural		5.579			
HBNW Other	CBD	0.817		1.157		0.372
	Urban	1.177		1.637		0.372
	Suburban	0.306		2.217		0.372
	Rural	0.692		2.273		0.372
HBNW School	CBD				4.763	
	Urban				4.763	
	Suburban				4.763	
	Rural				4.763	
NHB[3]	CBD	0.570	1.879	0.562	0.993	0.286
	Urban	0.872	4.931	0.839	0.993	0.286
	Suburban	0.259	3.313	0.955	0.993	0.286
	Rural	0.505	6.769	1.647	0.993	0.286

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

The final set of attraction rates are those for commercial vehicles. These rates were developed using the commercial vehicle counts conducted at the surveyed establishments and data from the commercial vehicle survey. The raw commercial vehicle rates were adjusted to bring the total number of commercial vehicle attractions in balance with the estimate of total internal commercial vehicle trips developed from the commercial vehicle survey. Table 24 shows the recommended rates.

Table 24. 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	0.928	0.142	0.286	0.197	0.030
Urban	0.645	0.122	0.046	0.197	0.030
Suburban	0.300	0.203	0.111	0.197	0.030
Rural	2.124	0.200	0.248	0.197	0.030

SUMMARY OF FINDINGS

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

The second phase of the work place survey consisted of five data collection efforts at 97 randomly selected establishments and two data collection efforts at 205 establishments. The five data collection efforts consisted of an employee survey, a visitor (non-employee) survey, a general establishment survey, a commercial vehicle survey, and person or vehicle counts at the establishment. The two data collection efforts at the remaining establishments consisted of a survey of the establishment to determine its employment and number of employees at work on a pre-selected day and person or vehicle counts at the establishment. All person and vehicle counts were conducted during the establishments operating hours.

Two establishments were identified as special generators and the full five data collection efforts were conducted at those sites. Those sites were the Brownsville-South Padre Island International Airport and the Valley International Airport.

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

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

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

Tables 17 through 19 show the trip rates as observed in the work place survey. These rates were adjusted based on estimates of travel from the Valley household survey, external station survey, and commercial vehicle survey. These adjustments used estimates of employment for the Valley study area from the TWC. Tables 22 through 24 show the adjusted rates. Since adjustments to observed trip rates are highly sensitive to the amount of employment and the distribution of

employment, note that additional adjustments may be necessary in the calibration phase of the travel demand model to achieve acceptable results. The rates presented in Tables 22 through 24 are recommended for use in the Valley travel demand model subject to further adjustments to achieve acceptable results.

APPENDIX:
RIO GRANDE VALLEY WORK PLACE TRAVEL SURVEY FORMS
AND DATA FILE FORMAT

FORM A – Workplace Establishment Survey, General Information Form   1 Page

FORM B – Employee Survey
     Part I – Household Information   1 Page
     Part II – Trip Information   8 Pages

FORM C – Non-Employee (Visitor) Survey, Free Standing Workplace   1 Page

FORM D – Non Employee (Visitor) Survey, Non-Free Standing Workplace   1 Page

FORM E – Workplace Delivery Vehicle Survey   2 Pages

FORM F – Workplace Own/Lease Vehicle Survey, Part 1
     Part I – Vehicle Information   1 Page
     Part II – Travel Log   3 Pages

Example Evaluation Form   1 Page

Survey Date: _____   County_____   Site # _____
Record Type 9   SIC Code: _____
WORKPLACE ESTABLISHMENT SURVEY   Zone   : _____
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

_____

Site Number

_____

Sample 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
2) ☐ $5,000 to $9,999
3) ☐ $10,000 to $14,999
4) ☐ $15,000 to $19,999
5) ☐ $20,000 to $24,999

6) ☐ $25,000 to $29,999
7) ☐ $30,000 to $34,999
8) ☐ $35,000 to $39,999
9) ☐ $40,000 to $49,999
10) ☐ $50,000 to $59,999
11) ☐ $60,000 to $74,999

12) ☐ $75,000 to $99,999
13) ☐ $100,000 to $124,999
14) ☐ $125,000 to $149,999
15) ☐ $150,000 or more
98) ☐ Don't Know
99) ☐ Refused

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

☞ 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**

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

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

Rio Grande Valley Work Place Travel Survey

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

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

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

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

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

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

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

VISITOR TRAVEL SURVEY
Form C

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?
  a. Yes – stop interview
  b. No – continue interview
	1) Yes
	2) No
		1) Yes
		2) No

2. In what city do you live?		

3a. Is that outside of Cameron or Hidalgo county?
(If NO go to question 4)
 	
3b. If YES ask: Did you stay over night in the Cameron/Hidalgo area?
 	
3c. If YES – Where did you stay?
 	
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)
	  (If yes go to 3b)
	
	b. ☐ Yes ☐ No (If NO go to 3d)
	(If yes go to 3c)
	
	c. _____
	
	d. _____
		a. ☐ Yes ☐ No (If NO go to Question 4)
		  (If yes go to 3b)
		
		b. ☐ Yes ☐ No (If NO go to 3d)
		(If yes go to 3c
		
		c. _____
		
		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) 5b. If NO where did you start your trip that brought you to___This location____ ?	a. ☐ Yes ☐ No ☐ Refused (If YES go to Question 7) b. _____ (Address or nearest intersection)	a. ☐ Yes ☐ No ☐ Refused (If YES go to Question 7) b. _____ (Address or nearest intersection)

6a. Is that location:
 	
6b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo area?
 	
6c. If outside of Cameron/Hidalgo County, what street or highway were you on when you entered Cameron/Hidalgo County?
	a. ☐ In Cameron County? (Go to Question 7)
	   ☐ In Hidalgo County?(Go to Question 7)
	   ☐ In Mexico? (Go to 6b)
	 ☐ Outside Cameron or Hidalgo County (Go to 6c)
	
	b. _____
	
	c. _____
		a. ☐ In Cameron County? (Go to Question 7)
		   ☐ In Hidalgo County? (Go to Question 7)
		   ☐ In Mexico? (Go to 6b)
		 ☐ Outside Cameron or Hidalgo County(Go to 6c)
		
		b. _____
		
		c. _____

7. What approximate time did you arrive at this location today?	_____ a.m / _____ p m	_____ am / _____ p m
8. How did you arrive here at the _____This Location_____ today? (Choose from arrival options)		
9a. If car/truck/van ask: How many people, including yourself, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a) # people_____ b) Fare $_____._____	a) # people_____ b) Fare $_____._____
10. What is the reason for coming here today? (Choose from trip purpose options)	Number _____ Other _____	Number _____ Other _____
11. When you leave here are you going straight home with no stops?	☐ Yes (Home) ☐ No (Other) -Continue (If YES go to Question 14)	☐ Yes ☐ No (Other) -Continue (If YES go to Question 14)
(If Q.11 = Yes, then skip) 12. What is the address of the place you will be going?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)

Questions	Person 1	Person 2

(If Q.11 = Yes, then skip)
 	
13a. Is that location:
 	
13b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo area?
 	
13c. If outside of Cameron/Hidalgo County, what street or highway will you be on when you leave Cameron/Hidalgo Co.?
	a. ☐ In Cameron County?(Go to Question 14)
	    ☐ In Hidalgo County? (Go to Question 14)
	    ☐ In Mexico?(Go to 13b)
	☐ Outside Cameron or Hidalgo County(Go to 13c)
	
	b. _____
	
	c. _____
		a. ☐ In Cameron County?(Go to Question 14)
		    ☐ In Hidalgo County? (Go to Question 14)
		    ☐ In Mexico? (Go to 13b)
		☐ Outside Cameron or Hidalgo County(Go to 13c)
		
		b. _____
		
		c. _____

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: _____ (see below for ranges)	Range: _____ (see below for ranges)

Arrival Option

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

Trip Purpose Options

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

Household Income Range

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

Cameron County / Mexico Bridges

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

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?
   a. Yes – stop interview
   b. No – continue interview
	1) Yes
	2) No
		1) Yes
		2) No

2. In what city do you live?		
3a. Is that outside of Cameron or Hidalgo County? (If NO go to question 4) 3b. If YES ask: Did you stay over night in the Cameron/Hidalgo area? 3c. If YES – Where did you stay? 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) (If yes go to 3b) b. ☐ Yes ☐ No (If NO go to 3d) (If yes go to 3c) c. _____ d. _____	a. ☐ Yes ☐ No (If NO go to Question 4) (If yes go to 3b) b. ☐ Yes ☐ No (If NO go to 3d) (If yes go to 3c) c. _____ 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) 5b. If NO where did you start your trip that brought you to_____ ?	a. ☐ Yes ☐ No (IF No continue) (If YES go to Question 7) b. _____ (Address or nearest intersection)	a. ☐ Yes ☐ No (IF No continue) (If YES go to Question 7) b. _____ (Address or nearest intersection)
6a. Is that location: 6b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo area? 6c. If outside of Cameron/Hidalgo County, what street or highway were you on when you entered Cameron/Hidalgo County?	a. ☐ In Cameron County? (Go to Question 7) ☐ In Hidalgo County? (Go to Question 7) ☐ In Mexico? (Go to 6b) ☐ Outside Cameron or Hidalgo County (Go to 6c) b. _____ c. _____	a. ☐ In Cameron County? (Go to Question 7) ☐ In Hidalgo County? (Go to Question 7) ☐ In Mexico? (Go to 6b) ☐ Outside Cameron or Hidalgo County (Go to 6c) b. _____ c. _____
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? 9b. If bus, ask: What fare did you pay?	a) # people_____ b) Fare $_____._____	a) # people_____ b) Fare $_____._____
10. What is the reason for coming here today? (Choose from trip purpose options)	Number _____ Other _____	Number _____ Other _____
11. Is this the 1st store / establishment you have visited since arriving at this building / center?	☐ Yes ☐ No ☐ Refused	☐ Yes ☐ No ☐ Refused
12. How many stores /establishments have you visited in this center during this trip?		

Questions	Person 1	Person 2
13. How many more stores or businesses do you plan to visit in this center / building?		
14. When you leave here are you going straight home with no stops?	☐ Yes ☐ No (If YES go to Question 17)	☐ Yes ☐ No (If YES go to Question 17)
15. What is the address of the place you will be going?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
16a. Is that location in: 16b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo area? 16c. If outside of Cameron/Hidalgo County what street or highway will you be on when you leave Cameron County?	a. ☐ In Cameron County? (Go to Question 17) ☐ In Hidalgo County? (Go to Question 17) ☐ In Mexico? (Go to 16b) ☐ Outside Cameron or Hidalgo County(Go to16c) b. _____ c. _____	a. ☐ In Cameron County? (Go to Question 17) ☐ In Hidalgo County? (Go to Question 17) ☐ In Mexico? (Go to 16b) ☐ Outside Cameron or Hidalgo County(Go to16c) b. _____ c. _____
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: _____ (see below for ranges)	Range: _____ (see below for ranges)

Arrival Option

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

Trip Purpose Options

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

Household Income Range

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

Cameron County / Mexico Bridges

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

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

6. What is the mileage on your odometer?		
7. What is the cargo? (Enter Description.)		
8. What is the weight of the cargo being delivered in pounds?		
9. What is the weight of the cargo being picked up in pounds?		
10. Did your cargo originate in Mexico?	□ Yes □ No □ Refused	□ Yes □ No □ Refused
11. What is your reason for coming here today?	_____ (Choose from trip purpose options)	_____ (Choose from trip purpose options)
12. What is the address of the last place you got into your vehicle? (place/address or nearest intersection/city)	_____ _____	_____ _____

13a. Is that location:
 	
13b. If in Mexico, what bridge did you use to enter the Cameron/Hidalgo County area?
 	
13c. If outside of Cameron/Hidalgo County, what street or highway were you on when you entered the Cameron/Hidalgo area?
	a. □ In Cameron County? (Go to Question 14)
	    □ In Hidalgo County? (Go to Question 14)
	    □ In Mexico? (Go to 13b)
	    □ Outside of Cameron County (Go to 13c)
	
	b. _____
	
	c. _____
		a. □ In Cameron County? (Go to Question 14)
		    □ In Hidalgo County? (Go to Question 14)
		    □ In Mexico? (Go to 13b)
		    □ Outside of Cameron County (Go to 13c)
		
		b. _____
		
		c. _____

14. What was your purpose for being at that location?	_____ (Choose from trip purpose options)	_____ (Choose from trip purpose options)
15. What approximate time did you leave that location?	_____ a.m. / _____ p m	_____ a.m. / _____ p m
16. What is the address of the place you will be going when you leave? (place/address or nearest intersection/city)	_____ _____	_____ _____

17a. Is that location: 17b. If in Mexico, what bridge will you use to leave the Cameron/Hidalgo County area? 17c. If outside Cameron/Hidalgo County, what street or highway will you be on when you leave the area the Cameron/Hidalgo Cnty area?	a. ☐ In Cameron County? (Go to Question 18) ☐ In Hidalgo County? (Go to Question 18) ☐ In Mexico? (Go to 17 b) ☐ Outside of Cameron County. (Go to 17c) b. _____ c. _____	a. ☐ In Cameron County? (Go to Question 18) ☐ In Hidalgo County? (Go to Question 18) ☐ In Mexico? (Go to 17b) ☐ Outside of Cameron County (Go to 17c) b. _____ c. _____	
18. What is your purpose for traveling to your next destination?	_____ (Choose from trip purpose options)	_____ (Choose from trip purpose options)	

Vehicle Cargo Codes:

1.	Farm Products	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)
23.	No Delivery or Pickup	

Trip Purpose Options:

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

Standard Vehicle Class Options:

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

Cameron County / Mexico Bridges

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

Record Type 20

WORKPLACE VEHICLES OWNED/LEASED SURVEY   FORM F
PART 1: VEHICLE INFORMATION
(If you have participated in prior surveys, please fill out this form anyway.)

Vehicle ID#: _____   Vehicle License # : _____

Survey Location (zone): _____   SIC Code: _____

Travel Day: _____
           Month / Day

Company or Name of Owner (name on registration):

_____

Address of location where vehicle was based at beginning of travel day:

_____
(Street Address or Nearest Intersection)

_____
City   State   ZIP

Vehicle Make: _____

Vehicle Model: _____

Vehicle Year: _____

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

                       5) ☐ Other _____(Specify)

Vehicle Type   1) ☐ Cargo / Freight Transport Vehicle
                  2) ☐ Service Vehicle (i.e. any vehicle not used for transporting cargo or freight

Vehicle Classification:

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

      Gross Vehicle Weight: _____ pounds

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

WORKPLACE VEHICLES OWNED/LEASED SURVEY – FORM F

PART 2:   Travel Log

VEHICLE LICENSE #: _____

Rio Grande Valley Work Place Travel Survey

THE PLACE MY TRAVEL BEGAN TODAY WAS:

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

_____
(Street address or nearest intersection for place travel began)

_____
(City, state, zip code)

TRAVEL DATE__ _____
Month / Day

DEPARTURE TIME: _____ am pm

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 *NAME of Place:* *Address including city, state, and zip OR* *Nearest street intersection or Landmark*	What time did you arrive and depart this location? (record exact times)	Activity What are you doing at this Location **(see options below)**	What type of place is this? (see options below)	Is this the work / base location for this vehicle?	Type of Cargo What is it?	Cargo Weight (in Pounds)l
PLACE 1	Arrive:_____am/pm Depart: _____am/pm			☐ - Yes ☐ - No		Delivery Picked Up
PLACE 2	Arrive:_____am/pm Depart: _____am/pm			☐ - Yes ☐ - No		Delivery Picked Up
PLACE 3	Arrive:_____am/pm Depart: _____am/pm			☐ - Yes ☐ - No		Delivery Picked Up

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

Record Type 21 | **WORKPLACE VEHICLES OWNED/LEASED SURVEY – FORM F** | VEHICLE LICENSE #: _____
(continued)

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

TRIP PURPOSE OPTIONS		ACTIVITY/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

SPECIFICATION NO
TxDOT: XXX-XX-XX
DATED: July 2003

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

VEHICLE LICENSE #: _____

Rio Grande Valley Work Place Travel Survey

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

TRIP PURPOSE OPTIONS		ACTIVITY/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

SPECIFICATION NO
TxDOT: XXX-XX-XX
DATED: July 2003

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

VEHICLE LICENSE #: _____

RECORD the following information about each place *NAME of Place:*　　　　　　　*Address including city, state, and zip* *OR* *Nearest street intersection or Landmark*		What time did you arrive and depart this location? (record exact times)	Activity What are you doing at this location? (see options below)	Type of Activity at This Location (see options below)	Is this the work / base location for this vehicle?	Type of Cargo (see options below)	Cargo Weight (in Pounds)
PLACE 16		Arrive:_____am/pm Depart: _____am/pm			☐ - Yes ☐ - No		Delivery Picked Up
PLACE 17		Arrive:_____am/pm Depart: _____am/pm			☐ - Yes ☐ - No		Delivery Picked Up
PLACE 18		Arrive:_____am/pm Depart: _____am/pm			☐ - Yes ☐ - No		Delivery Picked Up
PLACE 19		Arrive:_____am/pm Depart: _____am/pm			☐ - Yes ☐ - No		Delivery Picked Up
PLACE 20		Arrive:_____am/pm Depart: _____am/pm			☐ - Yes ☐ - No		Delivery Picked Up

Additional Trips Not Recorded_____

TRIP PURPOSE 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 SURVEY

Site Evaluation Form

(Example)

Site Name _____

Sample No. _____

Evaluator Name _____

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

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

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

Please check all that apply:

☐ Shopping Center or Mall
☐ Multi-tenant Office Building
☐ On-Street Parking
☐ Shared parking with another business

☐ Separate Parking
☐ Stand alone business
☐ Parking area used as cut through

LEGEND			
# - Tube Counters	How Many? _____	**M** – Manual Vehicle Counters	How many? _____
P – Person Counters	How many? _____	**I** – Interviewers	How Many? _____

Workplace Establishment General Information
"NEWFORMA.SDF" File Format

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

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 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. SIC Code	11	14	Numeric RJ	I4	Standard Industrial Classification of the establishment.
6. Establishment Type	15	16	Numeric RJ	I2	Code indicating the type of establishment; 1- free standing, 2- non-free standing.
7. Urban Area Type	17	18	Numeric RJ	I2	Code indicating the area type for the urban area where the establishment is located.
8. Region Area Type	19	20	Numeric RJ	I2	Code indicating the area type for the Valley region where the establishment is located
9. Employment Type	21	22	Numeric RJ	I2	Code indicating the type of employment at the establishment. See code descriptions.
10. Name	23	52	Alphanum. LJ	A30	Name of establishment.
11. Address	53	82	Alphanum. LJ	A30	Address of establishment.
12. City	83	97	Alphanum. LJ	A15	City where establishment is located.
13. Zip Code	98	102	Numeric RJ	I5	Zip code for establishment's location.
14. Longitude	103	112	Numeric RJ	F10.6	Longitude of establishment's address. If unknown, it should be coded 888.8888.
15. Latitude	113	122	Numeric RJ	F10.6	Latitude of establishment's address. If unknown, it should be coded 888.8888.
16. Study Area ID	123	124	Alphanum LJ	A2	Code identifying the MPO study area in which the workplace is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County., R=rural
17. Workplace Zone	125	129	Numeric RJ	I5	Urban zone number where establishment is located.
18. Region Zone	130	134	Numeric RJ	I5	Region zone number where establishment is located
19. Hours of Operation	135	136	Numeric RJ	I2	Number of hours in operation during a normal weekday.
20 Number of Vehicles	137	142	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	143	149	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	150	154	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	155	159		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	160	164	Numeric RJ	I5	Total number of persons (full and part time) employed at the establishment.
25. Employees at Work	165	169	Numeric RJ	I5	Total number of employees at work on day the travel survey was conducted.
26. Number of Shifts	170	171	Numeric RJ	I2	Number of work shifts at establishment.
27. Employees per Shift	172	176	Numeric RJ	I5	Number of employees per work shift.
28. Parking Spaces	177	182	Numeric RJ	I6	Number of parking spaces.
29. Parking Cost	183	189	Numeric RJ	F7.2	Cost per hour of parking.
30. Loading Docks	190	191	Numeric RJ	I2	Number of loading docks at establishment.
31. Deliveries	192	194	Numeric RJ	I3	Number of deliveries to establishment on day of travel survey.
32. Delivery Hours	195	197	Numeric RJ	I3	Hours allowed for deliveries.
33. Bus Routes	198	199	Numeric RJ	I2	Number of bus routes serving the establishment.
34. Number of Bus Stops	200	204	Numeric RJ	I5	Number of bus stops serving the establishment.
35. Cars Owned/Leased	205	209	Numeric RJ	I5	Number of cars owned or leased by establishment for business purposes
36 Vans Owned/Leased	210	214	Numeric RJ	I5	Number of vans owned or leased by establishment for business purposes
37. SUV's Owned/Leased	215	219	Numeric RJ	I5	Number of SUVs owned or leased by establishment for business purposes
38. Pickup Trucks Owned/Leased	220	224	Numeric RJ	I5	Number of pickup trucks owned or leased by establishment for business purposes
39. Cargo Transport Vehicles Owned/Leased	225	229	Numeric RJ	I5	Number of cargo transport vehicles owned or leased by establishment for business purposes
40. Service Vehicles Owned/Leased	230	234	Numeric RJ	I5	Number of service vehicles owned or leased by establishment for business purposes
41. Form	235	240	Numeric RJ	I6	Form number

Employment Type

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

Workplace Employee Survey
File "NEWFORMB.SDF" Form B, Part 1 Format

This file contains the household/individual information data collected using Form B, Part 1, Workplace Employee Survey . The data is 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	45	Alphanum. LJ	A30	Home street address of the employee.
7. City	46	75	Alphanum. LJ	A30	City where employee lives.
8. Study Area County	76	77	Numeric RJ	I2	Code indicating study area county where employee lives. 1=Cameron; 2=Hidalgo; 3=Other
9. Other County	78	92	Alphanum. LJ	A15	If county of residence is coded as other in item 8, this field should contain the name of the county the person lives in.
10. Zip Code	93	97	Numeric RJ	I5	Zip code where employee lives.
11. State Zone Ind.	98	98	Alphanum. LJ	A1	If employee lives in a county that is not in the study area, but within Texas, this field should contain the letter "S". Otherwise the field should be blank.
12. Study Area ID	99	100	Alphanum LJ	A2	Code identifying the MPO study area in which the employee resides. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural
13. Home Zone	101	105	Numeric RJ	I5	Urban study area zone number where employee lives. Unknown zone numbers in a study area county should be coded 8888. Mexico locations should be coded as 7777. External locations outside of a study area county but within Texas should be coded to the state zone number. External locations outside the study area but within Texas that are unknown should be coded 6666. External locations outside Texas and Mexico should be coded 9999.
14. Region Zone	106	110	Numeric RJ	I5	Regional zone number where employee lives.
15. Longitude	111	120	Numeric RJ	F10.6	Longitude of employee's home address. If address is in Mexico, this should be coded as 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.
16. Latitude	121	130	Numeric RJ	F10.6	Latitude of employee's home address. If address is in Mexico, this should be coded as 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.
17. Number of Persons	131	133	Numeric RJ	I3	Number of persons residing at employee's home address.
18. Number Employed	134	135	Numeric RJ	I2	Number of persons residing at employee's home address that are employed (including the person completing the form).
19. Blank	136	137	Numeric RJ		This field is blank.
20. Vehicles	138	139	Numeric RJ	I2	Number of vehicles available for use by members of employee's household.
21. Income	140	141	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 – Don't Know
		99 - Refused

The above record is followed by records containing the vehicle information completed by the employee. There should be one record for each vehicle in the following ASCII format.

				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, 4-No Response or Unknown.
10. Other Description	73	82	Alphanum. LJ	A10	Description of fuel used by vehicle if fuel type is coded as "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 as 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
File "NEWFRMB2.SDF" Survey Form B, Part 2 Format

This file contains the travel information for employees surveyed in the Workplace survey. The data is 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, this would have home in it.
8. Address	48	77	Alphanum. LJ	A30	Street address of location.
9. City	78	92	Alphanum. LJ	A15	City where location is.
10. Zip Code	93	97	Numeric RJ	I5	Zip code for location.
11. Longitude	98	107	Numeric RJ	F10.6	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	108	117	Numeric RJ	F10.6	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. State Zone Ind	118	118	Alphanum. LJ	A1	If location is outside study area county and within Texas, this field should contain the letter "S" indicating a state zone number is coded in the next field.
14. Study Area ID	119	120	Alphanum. LJ	A2	Code identifying the MPO study area in which the address is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural
15. Zone Number	121	125	Numeric RJ	I5	Urban 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 as 8888. Unknown zone numbers outside of a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
16. Region Zone Number	126	130	Numeric RJ	I5	Region zone number of location.
17. Road	131	160	Alphanum. LJ	A30	If location is outside of study area county, this is the name of the street/highway/bridge the person was on when they entered/left the study area.
18. Work Location	161	162	Numeric RJ	I2	Code indicating if this location is where person normally works at or out of; 1-Yes, 2-No, 99-Unknown / No Response.
19. Arrival Hour	163	165	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.
20. Arrival Minute	166	168	Numeric RJ	I3	Minute that employee arrived at this location. If this is trip number 0, this field should be blank.
21. Departure Hour	169	171	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.
22. Departure Minute	172	174	Numeric RJ	I3	Minute that employee departed this location. If this is the last location (i.e. trip), this field should be blank.
23. Activity Type	175	176	Numeric RJ	I2	Type of activity at this location. 0 – Residential, 1-Basic, 2- Retail, 3 – Services, and 4 – other.
24. Other Activity	177	191	Alphanum LJ	A15	Description of activity at location if activity type is coded as 4- other.
25. Trip Purpose	192	193	Numeric RJ	I2	Code indicating purpose of trip. See definitions below. For trip number 0, this should be coded as 1 if it began at home, 2 if it began at work, or as 99 if it began at another location.
26. Other Purpose	194	208	Alphanum. LJ	A15	Description of trip purpose if purpose code is "other".
27. Mode	209	210	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
28. Other Mode	211	225	Alphanum. LJ	A15	Description of mode of travel if mode is coded as "other".
29. Number People	226	227	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.
30. Vehicle Year	228	232	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.
31. Vehicle Make	233	257	Alphanum. LJ	A25	Make of vehicle used for trip.
32. Vehicle Model	258	282	Alphanum. LJ	A25	Model of vehicle used for trip.
33. Parking Cost	283	288	Numeric RJ	F6.2	Cost of parking if parking was paid.
34. Cost Basis	289	290	Numeric RJ	I2	Code indicating basis for parking cost; 1-Hourly, 2-Daily, 3-Monthly, 4-Unknown / No Response.
35. Bus Fare	291	296	Numeric RJ	F6.2	Bus fare cost if trip was by bus.
36. Arrival Mode	297	298	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.
37. Other Arrival Mode	299	313	Alphanum. LJ	A15	Description of arrival mode of travel if arrival is coded as "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
File "NEWFORMC.SDF" Survey Form C Format

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

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, 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	130	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
12. Intersecting Street	131	160	Alphanum. LJ	A30	If person gave nearest intersecting streets for their home address, this field should have the second street name, otherwise it is blank.
13. Longitude	161	170	Numeric RJ	F10.6	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 as 666.6666.
14. Latitude	171	180	Numeric RJ	F10.6	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 as 666.6666.
15. State Zone Indicator	181	181	Alphanum. LJ	A1	If address is not located in a study area county, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
16. Study Area ID	182	183	Alphanum. LJ	A2	Code identifying the MPO study area in which the person lives. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural.
17. Zone	184	188	Numeric RJ	I5	Urban zone number where person lives. Locations in Mexico should be coded 7777. Locations outside of the study area but within Texas should be coded to the state zone system. Unknown zone numbers in within a study area county should be coded as 8888. Unknown zone numbers outside of the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
18. Region Zone No.	189	193	Numeric RJ	I5	Regional zone number where person lives.
19. Origin Code	194	195	Numeric RJ	I2	Code indicating origin of trip; 1-Home, 2-Other.
20. Origin Location	196	255	Alphanum. LJ	A60	Location that trip originated from (i.e. name, address, etc).
21. Longitude	256	265	Numeric RJ	F10.6	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas , this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.

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

Field Columns

Item	Begin	End	Type	Format	Description
22. Latitude	266	275	Numeric RJ	F10.6	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas , this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
23. State Zone Indicator	276	276	Alphanum. LJ	A1	If address not located in a county within the study area, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
24. Study Area ID (Origin)	277	278	Alphanum. LJ	A2	Code identifying the MPO study area in which the origin address is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural.
25. Origin Zone	279	283	Numeric RJ	I5	Urban zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study area, but within Texas should be coded to the state zone system. Unknown zone numbers in a study area county should be coded as 8888. Unknown zone numbers outside of the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
26. Regional Zone No.	284	288	Numeric RJ	I5	Regional zone number where trip originated.
27. Entry Facility	289	318	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	319	323	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	324	326	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
30. Arrival Minute	327	329	Numeric RJ	I3	Minute person arrived at this site.
31. Mode	330	331	Numeric RJ	I2	Code indicating mode of travel to this location. See definitions below.
32. Other Mode	332	341	Alphanum. LJ	A10	If mode is coded "other", this field should contain a description of the mode given.
33. Number Persons	342	343	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	344	349	Numeric RJ	F6.2	If mode of travel was bus, this is the bus fare paid.
35. Trip Purpose	350	351	Numeric RJ	I2	Code indicating purpose of trip. See code definitions below.
36. Other Purpose	352	361	Alphanum. LJ	A10	If purpose is coded as "other", this contains description of purpose given.
37. Depart Destination	362	363	Numeric RJ	I2	Code indicating destination when person departs from this site; 1-Home, 2-Other.
38. Destination Location	364	423	Alphanum. LJ	A60	Location of destination person is going.
39. Destination Longitude	424	433	Numeric RJ	F10.6	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas , this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
40. Destination Latitude	434	443	Numeric RJ	F10.6	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas , this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.

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

Field Columns

Item	Begin	End	Type	Format	Description
41. State Zone Indicator	444	444	Alphanum. LJ	A1	If address is not in a study area county, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
42. Study Area ID (Dest.)	445	446	Alphanum. LJ	A2	Code identifying the MPO study area in which the destination address is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural
43. Destination Zone	447	451	Numeric RJ	I5	Urban zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in a study area county, but within Texas should be coded to the state zone system. Unknown zone numbers in a study area county should be coded as 8888. Unknown zone numbers not in a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
44. Region Zone No.	452	456	Numeric RJ	I5	Regional zone number of destination.
45. Exit Facility	457	486	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.
46. Exit External Zone	487	491	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.
47. Household Size	492	494	Numeric RJ	I3	Number of persons living at person's home address.
48. Vehicles Available	495	496	Numeric RJ	I2	Number of vehicles available to persons in household.
49. Income	497	498	Numeric RJ	I2	Code indicating household income. See code definitions.
50. Form Number	499	504	Numeric RJ	I6	Survey form number which contains raw survey data.
51. Time of Survey	505	506	Numeric RJ	I2	Hour
52. Time of Survey	507	508	Numeric RJ	I2	Minute

Item 27. Mode of Transportation Codes

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

Item 31. Trip Purpose Codes

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

Item 43. Household Income Codes

1 – Less than $5,000
2 - $5,000 to $9,999
3 - $10,000 to $14,999
4 - $15,000 to $19,999
5 - $20,000 to $24,999
6 - $25,000 to $29,999

7 - $30,000 to $34,999
8 - $35,000 to $39,999
9 - $40,000 to $49,999
10 - $50,000 to $59,999
11 - $60,000 to $74,999
12 - $75,000 to $99,999

13 - $100,000 to $124,999
14 - $125,000 to $149,999
15 - $150,000 or more

98 – Don't Know
99 – refused

Visitor Survey, Non-Free Standing Workplace
File "NEWFORMD.SDF" Survey Form D Format

This file contains the travel data for non-employees (visitors) at surveyed non-free standing work establishments using Form D, Non-Employee Survey, Non-Free Standing Workplace. The data is an ASCII data file.

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, 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, 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	130	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
12. Intersecting Street	131	160	Alphanum. LJ	A30	If person gave nearest intersecting streets for their home address, this field should have the second street name, otherwise it is blank.
13. Longitude	161	170	Numeric RJ	F10.6	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 as 666.6666.
14. Latitude	171	180	Numeric RJ	F10.6	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 as 666.6666.
15. State Zone Indicator	181	181	Alphanum. LJ	A1	If address is outside of the study area, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
16. Study Area ID	182	183	Alphanum. LJ	A2	Code identifying the MPO study area in which the person lives. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural.
17. Zone	184	188	Numeric RJ	I5	Urban 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 as 8888. Unknown zone numbers outside of the study area, but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
18. Regional Zone No	189	193	Numeric RJ	I5	Regional zone where person lives.
19. Origin Code	194	195	Numeric RJ	I2	Code indicating origin of trip; 1-Home, 2-Other.
20. Origin Location	196	255	Alphanum. LJ	A60	Location that trip originated from (i.e. name, address, etc).

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

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

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

Field Columns

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

Item 27. Mode of Transportation Codes

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

Item 31. Trip Purpose Codes

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

Item 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	
5 - $20,000 to $24,999	11 - $60,000 to $74,999	98 – Don't Know
6 - $25,000 to $29,999	12 - $75,000 to $99,999	99 – refused

Workplace Delivery Vehicle Survey
File "NEWFORME.SDF" Survey Form E Format

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

				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 10.
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	Non-zero number assigned to the workplace.
5. Truck Number	11	11	Numeric RJ	I1	Truck number surveyed. This should correspond to the column number of the survey form used to collect the data.
6. Arrival Hour	12	14	Numeric RJ	I3	Hour vehicle arrived at location. Must be in military time.
7. Arrival Minute	15	17	Numeric RJ	I3	Minute vehicle arrived at location.
8. Occupancy	18	19	Numeric RJ	I2	Number of people in vehicle.
9. Vehicle Classification	20	21	Numeric RJ	I2	Code indicating the classification of the vehicle. See below for code descriptions.
10. Other Classification	22	31	Alphanum. LJ	A10	If vehicle classification is coded as "other", this field should contain the description recorded on the survey form for vehicle
11. Type of Vehicle	32	33	Numeric RJ	I2	Code indicating type of commercial vehicle. Use 1 for cargo transport vehicle and 2 for service vehicle (i.e. all others besides cargo transport)
12. Year of Vehicle	34	38	Numeric RJ	I5	Year vehicle was manufactured.
13. Gross Vehicle Weight	39	46	Numeric RJ	I8	Gross (empty) weight of vehicle.
14. Vehicle Fuel Type	47	48	Numeric RJ	I2	Type of fuel used by vehicle; 1-Leaded Gas, 2-Unleaded Gas, 3-Diesel, 4-Propane, 5-Other.
15. Other Fuel	49	58	Alphanum. LJ	A10	If vehicle fuel type is coded "other", this field should contain the description recorded on the survey form for the vehicle.
16. Odometer	59	66	Numeric RJ	I8	Odometer mileage on vehicle.
17. Vehicle Cargo	67	69	Numeric RJ	I3	Cargo being carried by vehicle. See code definitions below.
18. Delivery Cargo Weight	70	75	Numeric RJ	I6	Weight in pounds of cargo being delivered
19. Pick Up Cargo Weight	76	81	Numeric RJ	I6	Weight in pounds of cargo being picked up
20. Cargo Origin Country	82	83	Numeric RJ	I2	If cargo originated in Mexico enter 1 for Yes and 2 for No.
21. Trip Purpose	84	85	Numeric RJ	I2	Purpose of trip. See code descriptions below.
22 Other Trip Purpose	86	95	Alphanum. LJ	A10	If trip purpose is coded as "other", this is a description of that purpose.
23 Origin Address	96	155	Alphanum. LJ	A60	City and street address of last place person got into vehicle before traveling to this workplace.
24 Origin Longitude	156	165	Numeric RJ	F10.6	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas , this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
25 Origin Latitude	166	175	Numeric RJ	F10.6	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas , this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
26 State Zone Indicator	176	176	Alphanum. LJ	A1	If address is not in a study area county, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
27. Study Area ID (origin)	177	178	Alphanum. LJ	A2	Code identifying the MPO study area in which the origin is located (e.g. last place person got in vehicle) B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural.
28 Origin Zone	179	183	Numeric RJ	I5	Urban zone where trip originated. Locations in Mexico should be coded 7777. Locations not in a study area county but within Texas should be coded to the state zone system. Unknown zone numbers in the study area should be coded as 8888. Unknown zone numbers not in a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
29. Regional Zone No.	184	188	Numeric RJ	I5	Regional zone where trip originated.
30 Entry Facility	189	218	Alphanum. LJ	A30	If origin is outside of the study area, this field should contain the name of the bridge, street, or highway used to enter the study area

Workplace Delivery Vehicle Survey Interview Survey, Form E Format, Continued.

Item	Begin	End	Type	Field Columns Format	Description
31 Entry External Zone	219	223	Numeric RJ	I5	If origin is outside the study area, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.
32 Origin Purpose	224	225	Numeric RJ	I2	Purpose for being at origin address where this trip originated. See code definitions below.
33 Other Origin Purpose	226	235	Alphanum. LJ	A10	If the origin purpose is coded as "other", this is a description of that purpose.
34 Hour Departed	236	238	Numeric RJ	I3	Hour vehicle departed from origin address. This time should be in military time.
35 Minute Departed	239	241	Numeric RJ	I3	Minute vehicle departed from origin address.
36 Destination Address	242	301	Alphanum. LJ	A60	City and street address of location vehicle will be going when they leave this workplace.
37 Longitude	302	311	Numeric RJ	F10.6	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
38 Latitude	312	321	Numeric RJ	F10.6	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
39 State Zone Indicator	322	322	Alphanum. LJ	A1	If address is outside of the study area, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
40. Study Area ID (Dest.)	323	324	Alphanum. LJ	A2	Code identifying the MPO study area in which the persons destination (for next trip) is located B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural
41 Destination Zone	325	329	Numeric RJ	I5	Urban zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations outside the study area but within Texas should be coded to the state zone system. Unknown zone numbers in the study area should be coded as 8888. Unknown zone numbers outside the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
42. Regional Zone No	330	334	Numeric RJ	I5	Regional zone number of destination.
43 Exit Facility	335	364	Alphanum. LJ	A30	If destination is outside the study area, this field should contain the name of the bridge, street, or highway used to enter the study area
44 Exit External Zone	365	369	Numeric RJ	I5	If destination is outside the study area, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.
45 Destination Purpose	370	371	Numeric RJ	I2	Purpose for traveling to the next destination. See below for code definitions.
46 Other Destination Purpose	372	381	Alphanum. LJ	A10	If the destination purpose is coded as "other", this is a description of that purpose.
47. Form Number	382	388	Numeric RJ	I7	Number of survey form.
48. Time of Survey	389	390	Numeric RJ	I2	Hour
49. Time of Survey	391	392	Numeric RJ	I2	Minute

Item 9. Vehicle Classification Codes

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

Items 21&41. Trip Purpose Options

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

Workplace Delivery Vehicle Survey Interview Survey Form E Format Continued

<u>Vehicle Cargo Codes</u>

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/Equip.	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, etc.
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)

Workplace Vehicles Owned/Leased Survey
File "NEWFORMF.SDF" Survey Form F Format
Part 1 - Vehicle Information (Record Type 20)

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

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 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 person or company to which the vehicle is registered.
7. Base Address	50	79	Alphanum. LJ	A30	Address of the person or company to which the vehicle is registered and based.
8. SIC Code	80	85	Numeric RJ	I6	Four digit Standard Industrial Classification of the business at the base location.
9. Study Area ID (Base)	86	87	Alphanum LJ	A2	Code identifying the MPO study area in which the base is located. B = Brownsville, S =Harlingen San Benito, H = Hidalgo Count, R=rural.
10.. Zone	88	92	Numeric RJ	I5	Urban zone where base is located. Unknown zones should be coded as 8888.
11. Regional Zone No	93	97	Numeric RJ	I5	Regional zone where base is located.
12. Longitude	98	107	Numeric RJ	F10.6	Longitude of the base location. Unknown longitudes should be coded as 888.8888.
13. Latitude	108	117	Numeric RJ	F10.6	Latitude of the base location. Unknown latitudes should be coded as 888.8888.
14. Make of Vehicle	118	142	Alphanum. LJ	A25	Make of vehicle.
15. Model of Vehicle	143	167	Alphanum. LJ	A25	Model of vehicle
16. Year of Vehicle	168	171	Numeric RJ	I4	Year vehicle was manufactured. Unknown years should be coded as 9999.
17. Vehicle Fuel Type	172	173	Numeric RJ	I2	Type of fuel used by vehicle. 1 – Leaded Gas; 2 – Unleaded Gas; 3 – Diesel; 4 – Propane; 5 – Other.
18. Fuel Type Other	174	183	Alphanum. LJ	A10	If item 14 is coded as "other", this is a description of the type of fuel. Otherwise this field is blank.
19. Vehicle Class.	184	185	Numeric RJ	I2	Code indicating the classification of the vehicle. See below for code descriptions.
20. Other Vehicle	186	205	Alphanum. LJ	A20	If item 16 is coded as "other", this field should contain a description of the vehicle. Otherwise this field is blank.
21. Vehicle Type	206	207	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.
22. Gross Veh. Weight	208	213	Numeric RJ	I6	Gross weight of the vehicle or total gross weight of the vehicle/trailer combination.
23. Odometer	214	220	Numeric RJ	I7	Odometer mileage on the vehicle at the beginning of the survey day. Refusals or unknown values should be coded as 9999999.
24. More Trips	221	224	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 1-16: 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

Travel Survey File "NEWFORMF.SDF" Survey Form F-Part 2 Format
Workplace Vehicles Owned/Leased Survey, Trip Information (Record Type 21)

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

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. Vehicle 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. Vehicle 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. Address Field 1	18	47	Alphanum. LJ	A30	Name of location and address of first street name or nearest intersecting streets to the location. If name and address exceed field size it should be continued in item 6.
6. Address Field 2	48	77	Alphanum. LJ	A30	Continuation of name of location and address in item 5 or second street name of intersecting streets to the location.
7. State Zone Indicator	78	78	Numeric RJ	I1	If location is within Texas and geocoded to a state zone, this field should have a 1 in it. Otherwise this field is blank.
8. Study Area ID	79	80	Numeric LJ	A2	Code identifying the MPO study area in which the address is lcated. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural.
9. Zone	81	85	Numeric RJ	I5	Urban zone number of location. Unknown zones in study area should be coded as 8888. Locations in Mexico should be coded as 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 to 6666. Locations outside of Texas should be coded as 9999.
10. Regional Zone No	86	90	Numeric RJ	I5	Regional zone number of location.
11. Longitude	91	100	Numeric RJ	F10.6	Longitude of location. Unknown longitudes in study area should be coded as 888.8888. Longitudes for locations in Mexico should be coded as 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	101	110	Numeric RJ	F10.6	Latitude of location. Unknown latitudes in study area should be coded as 888.8888. Latitudes for locations in Mexico should be coded as 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	111	112	Numeric RJ	I2	Code indicating if this location is base location for the vehicle. 1 – Yes; 2 – No.
14. County Indicator	113	114	Numeric RJ	I2	Code indicating the county the address is located. Codes to be provided later
15. Arrival Hour	115	116	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	117	118	Numeric RJ	I2	Minute that the vehicle arrived at this location. For trip 0, this field should be blank.
17. Departure Hour	119	120	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	121	122	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	123	124	Numeric RJ	I2	Code indicating the type of place at this location. See activity code descriptions below.
20. Other Place	125	144	Alphanum. LJ	A20	If the type of place is coded as "other", this field should contain the description of the land use activity at this location.
21. Trip Purpose	145	146	Numeric RJ	I2	Code indicating purpose of trip. See definitions below. For place number 0 (first trip), this should be coded as 1 if it began at the base location, 6 if it began at home, or as 7 if it began at another location.
22. Other Purpose	147	166	Alphanum. LJ	A20	If trip purpose is coded as "other", this field should contain the description of the trip purpose given.

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

Item	Begin	End	Type	Field Columns Format	Description
23. Cargo	167	168	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	169	198	Alphanum. LJ	A30	If item 21 is coded as 22, this field should contain a description of the cargo. Otherwise this field is blank.
25. Load	199	200	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; and 3 if empty. This field is coded only for trip 0
26. Initial cargo weight	201	206	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	207	212	Numeric RJ	I6	Weight of cargo in pounds being delivered. This field is blank for trip 0.
28. Pick Up cargo weight	213	218	Numeric RJ	I6	Weight of cargo in pounds being picked up. This field is blank for trip 0.

Item 18: Type of Place (Activity) Codes

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

Item 20 : Trip (Activity)Purpose Codes

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

Item 24: Cargo Classifications			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/Equip.	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)

Visitor Survey, Free Standing (Airport) Workplace
Survey Form Airport NEWAIR Format

This file contains the travel data for non-employees (visitors) at surveyed free standing (airport) work establishments using Form Airport SGR, Non-Employee Survey, Free Standing (Airport) Workplace. The file has been updated to include the new regional zones as well as the original urban zones. The data is an ASCII data file.

Field Columns

Item	Begin	End	Type	Format	Description
1. Record Type	1	2	Alphanum LJ	I2	Code which indicates the type of record, here it should be A1.
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	Alphanum LJ	I4	Unique code assigned to the establishment where these interviews were conducted. Valley Internat'l =SG01; Brownsville/Padre Internat'l = SG02.
5. Person Number	11	11	Numeric RJ	I1	Number of person being interviewed. This corresponds to the column number on the interview form. (No higher than 3)
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, 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, 99-Refused / Unknown. If residence code is 2 or arrival mode is 10, 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 or arrival mode is 10, 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 or if arrival mode is 10, this field should be blank.
11. Home Address	101	150	Alphanum. LJ	A50	If residence code is 2, this field contains the address where person lives. If person gives nearest intersecting streets, this should be the first street name. If arrival mode is 10, this field should be blank.
12. Intersecting Street	151	200	Alphanum. LJ	A50	If person gave nearest intersecting streets for their home address, this field should have the second street name, otherwise it should be blank. If arrival mode is 10, this field should be blank.
13. Home Longitude	201	210	Numeric RJ	F10.6	If residence code is 2, this is the longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If residence code is 1 or arrival mode is 10, this field should be blank.
14. Home Latitude	211	220	Numeric RJ	F10.6	If residence code is 2, this is the latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If residence code is 1 or arrival mode is 10, this field should be blank.
15. Home State Zone Indicator	221	221	Alphanum. LJ	A1	If person's home is outside study area but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank. If arrival mode is 10, this field should be blank.
16. Study Area ID	222	222	Alphanum LJ	A1	Code identifying the MPO study area in which the person resides. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural

Visitor Survey, Free Standing (Airport) Workplace, Form Airport SGR Format, Continued.

Item	Begin	End	Type	Field Columns Format	Description
17. Home Zone	223	227	Numeric RJ	I5	Zone number where person lives. Locations in Mexico should be coded 7777. Locations outside of study area but within Texas should be coded to the state zone system. Unknown zone numbers in study area should be coded as 8888. Unknown zone numbers outside study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999. If arrival mode is 10, this field should be blank.
18. State Zone Indicator	228	228	Alphanum. LJ	A1	If regional zone is outside study area in Texas, this field contains the letter "S". Otherwise the field is blank
19. Regional Zone	229	233	Numeric RJ	I5	Regional zone where home is located.
20. Arrival Mode	234	235	Numeric RJ	I2	Code indicating the mode person used to arrive at location. See definitions below.
21. Arrival Mode Other	236	265	Alphanum LJ	A30	If arrival mode is coded "other", this field should contain a description of the mode given.
22. Origin Code	266	267	Numeric RJ	I2	Code indicating origin of trip; 1-Home (or hotel), 2-Other.
23. Origin Location	268	327	Alphanum. LJ	A60	If origin code is 2, this is the location that trip originated from (i.e. name, address, etc). If origin code is 1 or arrival mode is 10, this field should be blank.
24. Origin Longitude	328	337	Numeric RJ	F10.6	If origin code is 2, this is the longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If origin code is 1 or arrival mode is 10, this field should be blank.
25. Origin Latitude	338	347	Numeric RJ	F10.6	If origin code is 2, this is the latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If origin code is 1 or arrival mode is 10, this field should be blank.
26. Origin State Zone Indicator	348	348	Alphanum. LJ	A1	If origin location is outside study area but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank. If arrival mode is 10, this field should be blank.
27. Study Area ID	349	349	Alphanum LJ	A1	Code identifying the MPO study area in which the origin is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural
28. Origin Zone	350	354	Numeric RJ	I5	Zone for origin location. Locations in Mexico should be coded 7777. Locations outside of study area but within Texas should be coded to the state zone system. Unknown zone numbers in study area should be coded as 8888. Unknown zone numbers outside study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999. If arrival mode is 10, this field should be blank.
29. State Zone Indicator	355	355	Alphanum. LJ	A1	If regional zone for origin is outside study area in Texas, this field contains the letter "S". Otherwise the field is blank
30. Regional Origin Zone	356	360	Numeric RJ	I5	Regional zone where origin is located.
31. Arrival Hour	361	363	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time. If arrival mode is 10, this field should be blank.
32. Arrival Minute	364	366	Numeric RJ	I3	Minute person arrived at this site. If arrival mode is 10, this field should be blank.
33. Number Persons	367	368	Numeric RJ	I2	If arrival was by car, truck, or van, this is the number of persons in the vehicle including the person being interviewed. This field should be blank for all other modes.

Visitor Survey, Free Standing (Airport) Workplace, Form Airport SGR Format, Continued.

Field Columns

Item	Begin	End	Type	Format	Description
34. Bus Fare	369	374	Numeric RJ	F6.2	If mode of travel was bus or taxi, this is the bus fare paid. This field should be blank for all other modes.
35. Trip Purpose	375	376	Numeric RJ	I2	Code indicating purpose of trip. See code definitions below.
36. Trip Purpose Other	377	386	Alphanum. LJ	A10	If purpose is coded as "other", this contains description of purpose given.
37. Departure Mode	387	388	Numeric RJ	I2	Code indicating the mode person will use to depart from location. See definitions below.
38. Departure Mode Other	389	398	Alphanum LJ	A10	If departure mode is coded "other", this field should contain a description of the mode given.
39. Departure Destination	399	400	Numeric RJ	I2	Code indicating destination when person departs from this site; 1-Home, 2-Other.
40. Destination Location	401	460	Alphanum. LJ	A60	If departure destination is coded as 2, this field contains the location (i.e. name, address, etc) that the person is going. Otherwise, this field should be blank.
41. Destination Longitude	461	470	Numeric RJ	F10.6	If departure destination is coded as 2, this is the longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If departure destination is coded as 1, this field should be blank.
42. Destination Latitude	471	480	Numeric RJ	F10.6	If departure destination is coded as 2, this is the latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside study area, this should be coded 999.9999. If unknown, it should be coded 888.8888. If departure destination is coded as 1, this field should be blank.
43. Destination State Zone Indicator	481	481	Alphanum. LJ	A1	If destination location is outside study area but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank. This field is also blank is departure destination is coded as 1.
44. Study Area ID	482	482	Alphanum LJ	A1	Code identifying the MPO study area in which the destination is located. B = Brownsville, S = Harlingen San Benito, H = Hidalgo County, R=rural
45. Destination Zone	483	487	Numeric RJ	I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations outside of study area but within Texas should be coded to the state zone system. Unknown zone numbers in study area should be coded as 8888. Unknown zone numbers outside of study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999. If departure destination is coded as 1, this field should be blank.
46. State Zone Indicator	488	488	Alphanum. LJ	A1	If regional zone for destination is outside study area in Texas, this field contains the letter "S". Otherwise the field is blank
47. Regional Origin Zone	489	493	Numeric RJ	I5	Regional zone where destination is located.
48. Household Size	494	496	Numeric RJ	I3	Number of persons living at person's home address.
49. Vehicles Available	497	498	Numeric RJ	I2	Number of vehicles available to persons in household.
50. Income	499	500	Numeric RJ	I2	Code indicating household income. See code definitions.
51. Form Number	501	506	Numeric RJ	I6	Survey form number which contains raw survey data.
52. Survey Hour	507	508	Numeric RJ	I2	Hour that the survey of the person began. This hour should be in terms of military time.
53. Survey Minute	509	510	Numeric RJ	I2	Minute that the survey of the person began.

Visitor Survey, Free Standing (Airport) Workplace, Form Airport NEWAIR Format, Continued.

<u>Item 20. Mode of Arrival 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 Vehicle
9 – Motorcycle
10 – Airplane
11 – Parking Shuttle
12 – Hotel/Motel Shuttle
13 – Other (specify in block)
14 – Rental Car
99 – No Response

<u>Item 35. Trip Purpose Codes</u>

1 – Leave/Return Home
2 – Work Related
3 – School Related
4 – Social / Recreational / Visit
5 – Shop
6 – Eat Out
7 – Medical
8 – Pick Up / Drop Off Passenger
9 – Change Travel Mode
10 – Delivery – Pick Up / Drop Off
11 – Other (specify in block)
99 – Non-Response

<u>Item 37. Mode of Departure 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 Vehicle
9 – Motorcycle
10 – Airplane
11 – Parking Shuttle
12 – Hotel/Motel Shuttle
13 – Other (specify in block)
14 – Rental Car
99 – No Response

<u>Item 50. Household Income Codes</u>

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	