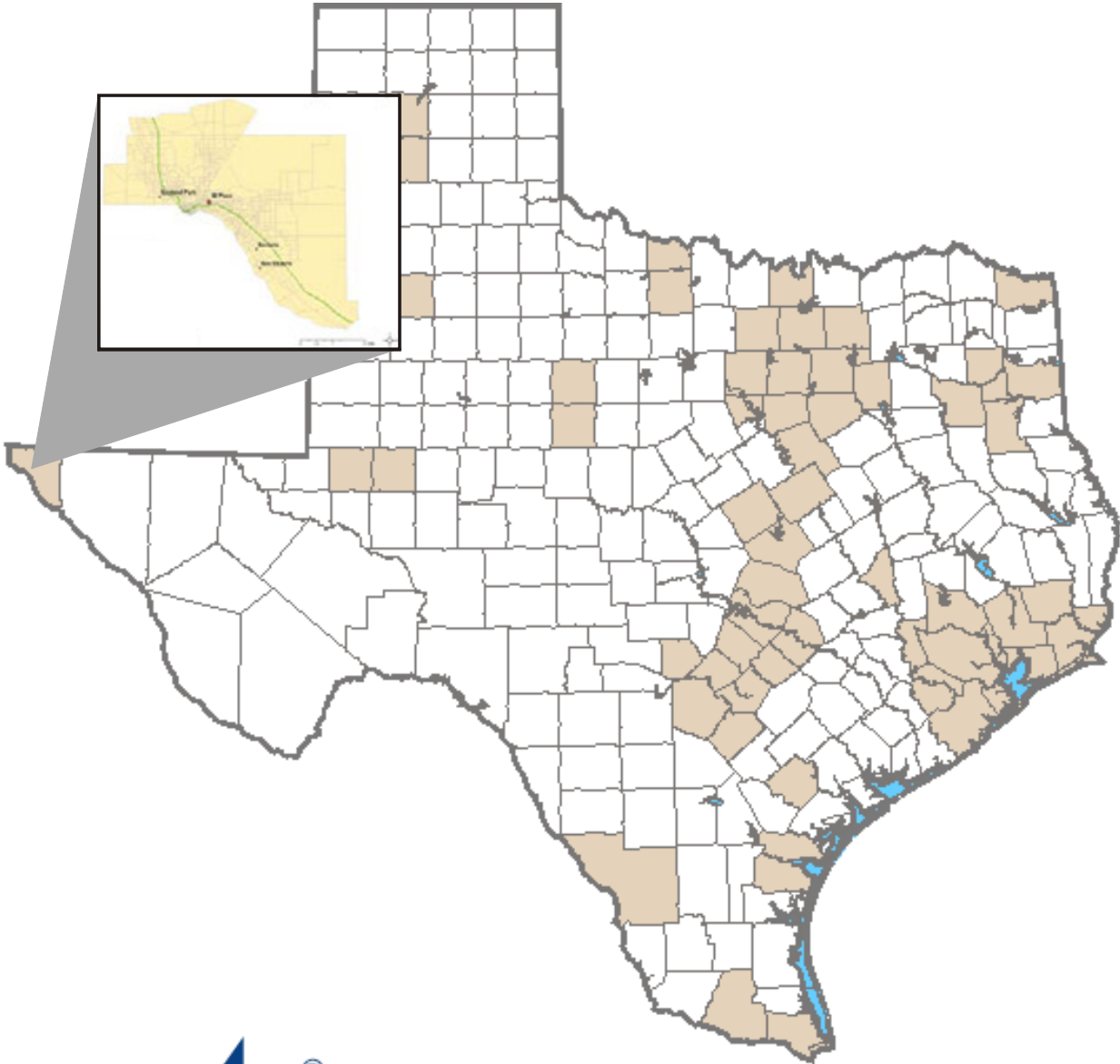


2010 El Paso Work Place Travel Survey Technical Summary



Prepared by the
Texas A&M Transportation Institute
June 2013

2010 El Paso Work Place Travel Survey

TECHNICAL SUMMARY

Texas Department of Transportation Travel Survey Program

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INTRODUCTION

In 2010 and 2011, the Transportation Planning and Programming (TPP) Division of the Texas Department of Transportation (TxDOT) funded a work place and special generator survey in the El Paso Metropolitan Planning Organization (MPO) study area, which included household, work place, and commercial vehicle surveys. The purpose of the surveys was to collect data and information needed as input to the MPO travel demand model to forecast traffic levels on area roadways, evaluate the region's transportation plan, and aid in the region's air quality conformity analyses. Most urbanized areas in Texas (as well as in the U.S. and abroad) rely on travel forecasting models as a tool in their transportation planning and air quality analysis efforts. Since modeling results may be used in determining the conformity or non-conformity status of transportation plans to federal clean air regulations, the use of accurate and up-to-date data from the regional travel surveys is important to TxDOT and MPOs across the state.

The El Paso MPO study area, shown in Figure 1, is located in far west Texas, which covers El Paso County, and includes the City of El Paso as the urban center. American Community Survey (ACS) estimates suggest a population of 820,790 persons, a total land area of 1,013 square miles, and population density of 810 persons per square mile for the study area.

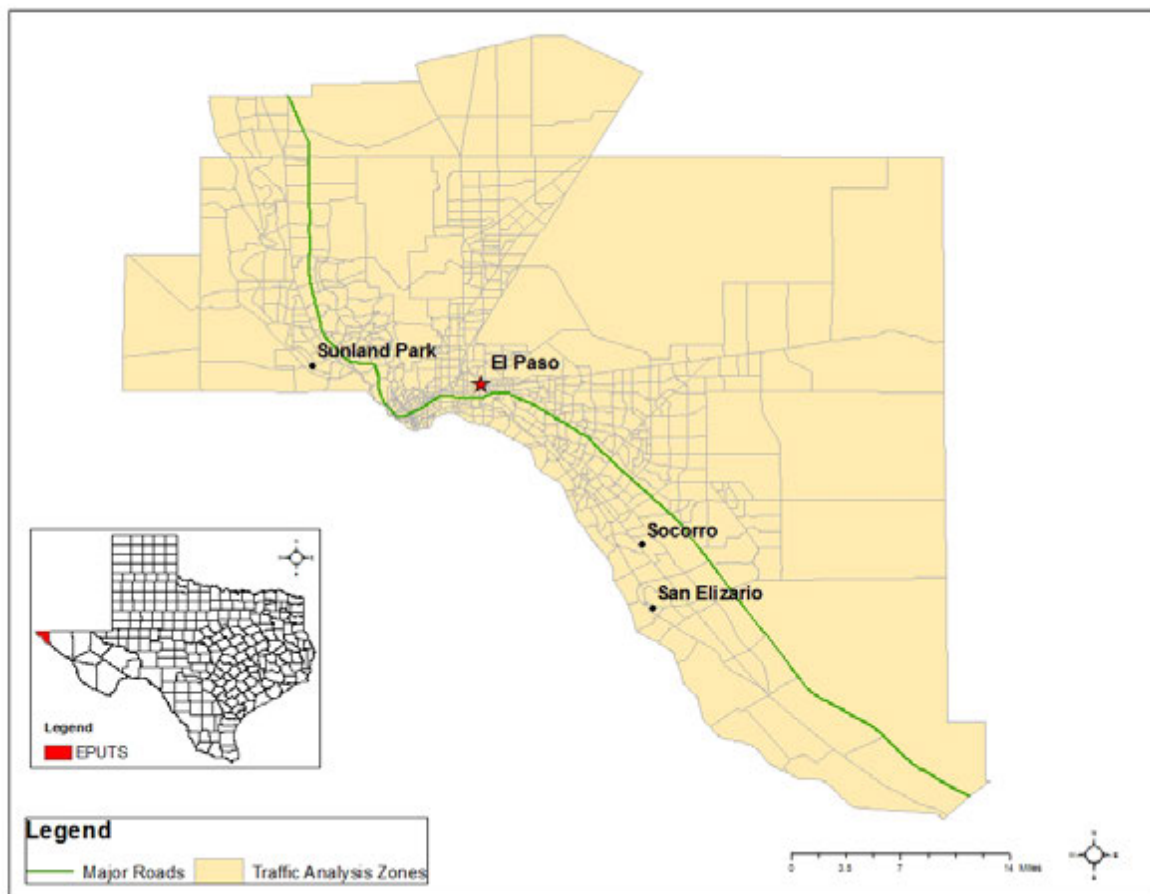


Figure 1. El Paso MPO Study Area.

This report presents a technical summary of the work place and special generator surveys. It documents the data collected and presents the results of the data analysis. The forms used in the surveys are included in the Appendix of this report.

SURVEY METHODOLOGY

The work place and special generator travel surveys were conducted during the period between March 2010 through March 2011. TxDOT contracted with Gram Traffic to conduct the El Paso Work Place Survey. The Texas A&M Transportation Institute (TTI) provided technical assistance to both TxDOT and Gram Traffic in the effort.

The El Paso Work Place Survey consisted of the following four data collection efforts.

- *Establishment Survey.* This survey determined whether the status of the work place was free standing (i.e., points of vehicle access and parking were clearly established and were designed to serve that work place only) or non-free standing (i.e., vehicle access points

and parking were designed to serve more than one establishment). Data on total employment, number of employees at work during the travel survey day, amount of parking, number of daily deliveries, hours of operation, and other general information were collected from this survey.

- Intercept Interview Survey. This survey involved an intercept interview of persons as they entered and/or exited the establishments. Survey participants were randomly selected, and included both employees and non-employees.
- Person or Vehicle Count. This task involved counting all vehicles entering and exiting surveyed establishments during their normal operating hours using Accumulative Count Recorders (ACRs). For those sites not suitable for vehicle counts, manual counts of persons were conducted. The counts were performed at each entrance and exit beginning a minimum of one hour prior to the location's normal operating hours and ending no later than one hour after normal operating hours.
- Commercial Vehicle Count. This task involved counting the number of commercial vehicles accessing the establishment (i.e., making deliveries or pick-ups or other purposes) using ACRs, video cameras, or manual counts.

The surveyed establishments were classified according to their free standing or non-free standing status, and further distinguished as either full survey sites or partial survey sites. Full survey sites included all the previously mentioned data collection activities, while partial survey sites only collected general information (i.e., establishment survey) and did not include intercept interview surveys. Counts were conducted at all surveyed sites.

The establishments were grouped into four types of employment – basic, retail, service, and education. These categories are based on the North American Industry Classification System (NAICS) code for establishments as shown in Table 1.

Table 1. NAICS Groupings by Employment Type.

Employment Type	NAICS Code	Industry Group
Basic	11	Agriculture, Forestry, Fishing and Hunting
	21	Mining, Quarrying, and Oil and Gas Extraction
	22	Utilities
	23	Construction
	31-33	Manufacturing
	42	Wholesale Trade
	48-49	Transportation and Warehousing (except 491)
	5111	Newspaper Publishers/Book Publishers/Directory Publishers
	5112	Software Publishers
	512	Motion Picture and Sound Recording (except 51213)
	5151	Radio and TV Broadcasting
	5152	TW Cable
	5173	Telecommunications Resellers
	5174	Satellite Network
	5175	Cable and Other Program Distribution
Retail	44-45	Retail
	51213	Motion Picture Theaters
	71	Arts, Entertainment, and Recreation
	722	Food Service and Drinking Places
	491	Post Offices
Service	516 - 5172	Internet Publishing and Telecommunications
	5179	Other Telecommunications
	518-519	Internet Service Providers and New Syndicates
	52	Finance and Insurance
	53	Real Estate and Rental and Leasing
	54	Professional, Scientific, and Technical Services
	55-56	Company Management and Administrative Support
	6114-6116	Business, Technical Trade, and Other Schools
	6117	Educational Support Services
	62	Health Care and Social Assistance (including hospitals)
	721	Accommodations (hotels)
	81	Other Service and Repair and Maintenance
	92	Public Administration (including Justice, Public Order, and Safety)
	9999	Unknown
Education	6111	Elementary and Secondary Schools
	6112-6113	Jr. Colleges, Colleges, Universities, and Professional Schools

SAMPLING AND RECRUITMENT

The sampling plan included 300 full surveys and 300 partial surveys. Table 2 shows the sampling targets for each employment category by type of survey.

Table 2. Sampling Targets by Employment Category and Survey Type.

Employment Type	Type of Survey	
	Full	Partial
Basic	45	45
Retail	105	105
Service	105	105
Education	45	45
Total	300	300

The survey sample was drawn from a listing of establishments generated from the Texas Workforce Commission (TWC) database. The establishments were sorted by work place category and then placed in random order for sampling. Each listing included the name, address and NAICS code of the work place. A total of 13,905 work places were included in the list, which consisted of 3,799 basic, 3,301 retail, 6,435 service, and 370 education types of establishments.

Overall, 1,957 establishments were contacted as part of the El Paso Work Place Survey recruitment. Table 3 shows a summary of the work place survey recruitment by employment type and business location, and contacts were tracked based on the following two categories.

- Agreed to Participate. The establishment is located within the study area and agreed to participate as a full or partial survey.
- Refused to Participate. The establishment refused to participate in the survey and may or may not have provided general data.

Table 3. Work Place Survey Recruitment Participation.

Employment Type	Agreed to Participate	Refused to Participate	Total
Basic	90	313	403
Education	210	435	645
Retail	210	584	794
Service	90	25	115
Total	600	1,357	1,957

The longitude and latitude coordinates, zone, and area types of the establishments were not collected during the survey recruitment. Therefore, a geocoding tool was used to generate the longitude and latitude coordinates for each site in order to determine the zone where the site was located, and to determine its area type.

Area type is determined by the density and land use activity within a Traffic Analysis Zone (TAZ). It is based on population and employment relative to the area (size) of the zone. The density values are in persons and employment per acre and are classified into five or six ranges of values that define the area types depending on the size of the study area. The range of density values for each area type varies from one urban area to another.

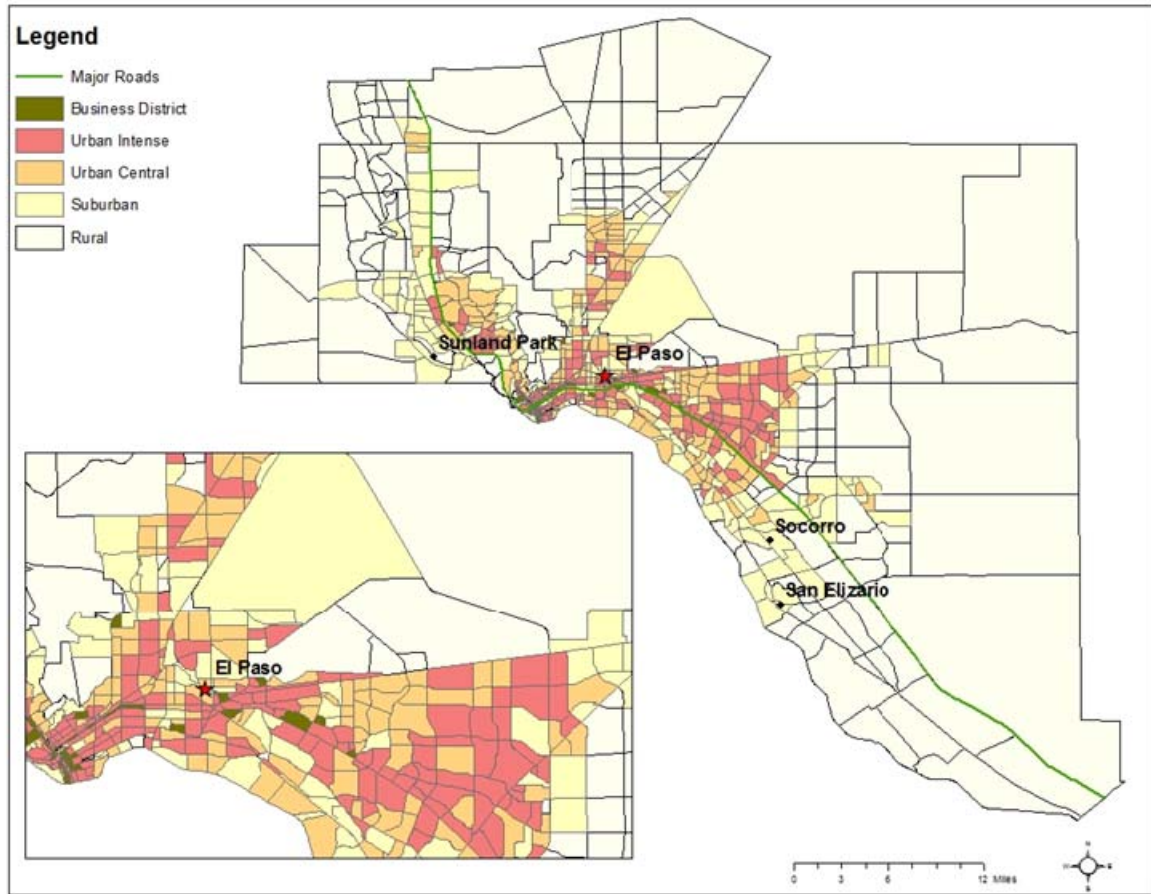


Figure 2. El Paso Area Types.

Figure 2 shows five area types in the El Paso MPO study area – Business District (BD), Urban Intense (UI), Urban Central (UC), Suburban, and Rural. Figure 3 shows the site locations of the work place survey recruitment sample within the study area, while Table 4 shows the distribution of the sites by area type and employment type.

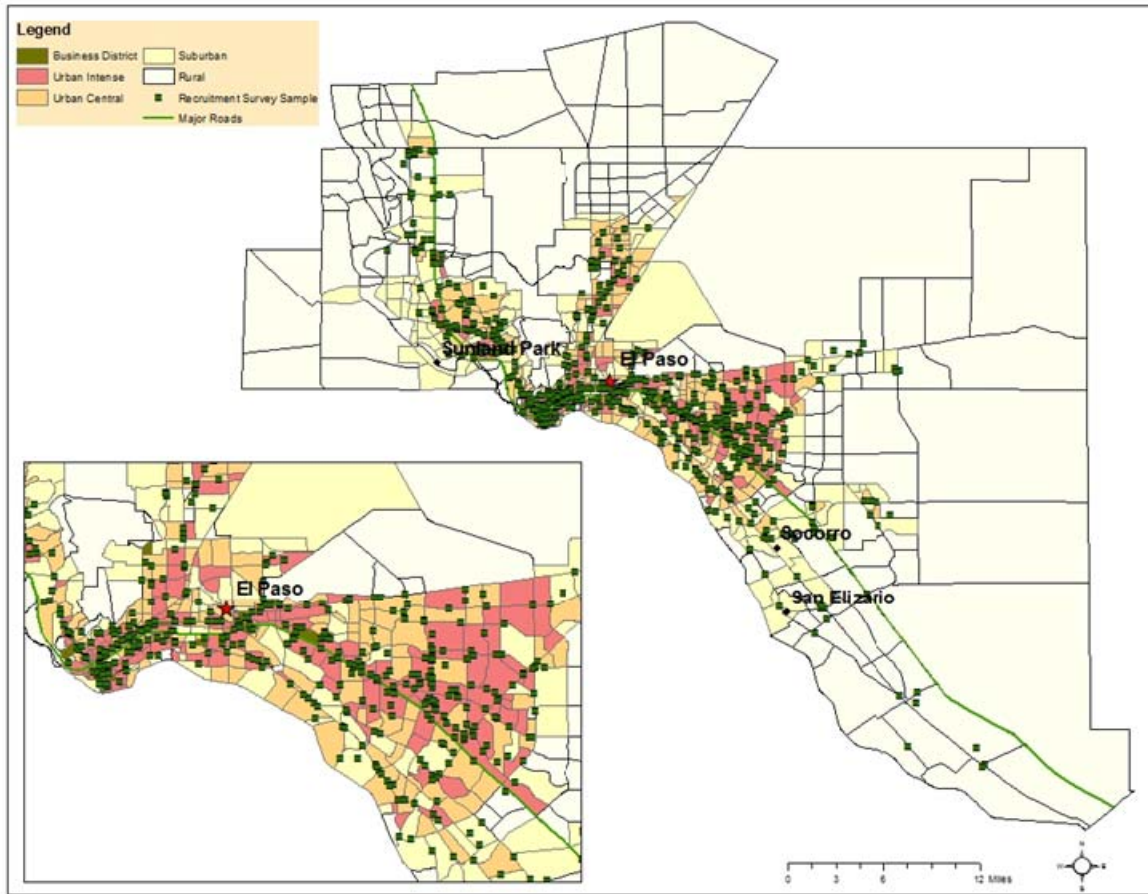


Figure 3. El Paso Work Place Survey Recruitment Sample - Site Locations.

Table 4. Work Place Survey Recruitment by Area Type and Employment Category.

Area Type	Basic	Retail	Service	Education	Total
Business District	4	7	23	1	35
Urban Intense	45	100	100	18	263
Urban Central	14	44	47	30	135
Sub-Urban	19	44	33	29	125
Rural	8	15	7	12	42
Total	90	210	210	90	600

SURVEY RESULTS

A total of 600 work place and six special generator surveys were completed in the survey. There were 300 full sites surveyed and 300 partial sites surveyed.

Figure 4 shows the general locations of surveyed establishments in the El Paso survey area by area and employment types. Table 5 shows the distribution of the full and partial work place sites by area and employment types. Table 6 and Table 7 provide further detail on key outcomes, respectively, of full and partial survey sites. The results from the special generator survey are presented in another section of this report.

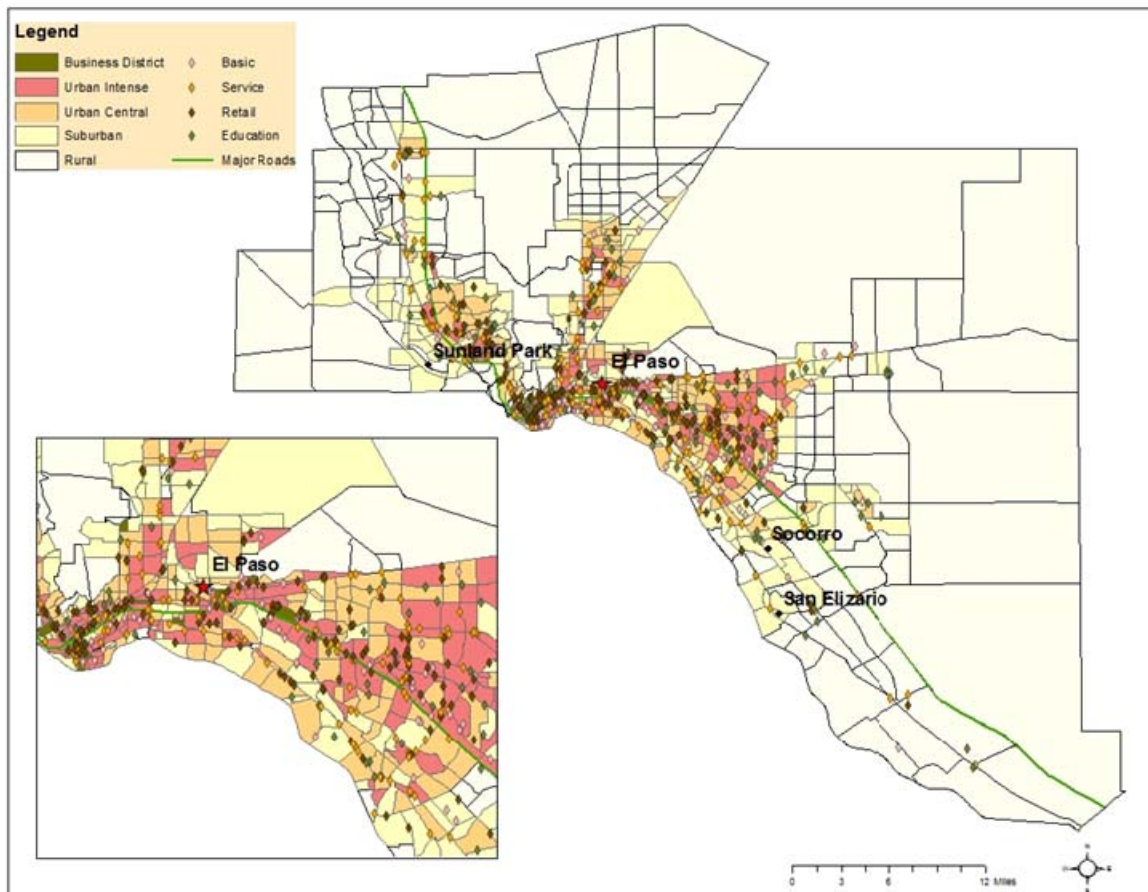


Figure 4. El Paso Work Place Surveyed Establishments.

Table 5. Distribution of Surveys by Area Type and Employment Type.

Area Type	Basic		Retail		Service		Education		Total	
	Full	Partial	Full	Partial	Full	Partial	Full	Partial	Full	Partial
Business District	2	2	5	2	14	9	1	0	22	13
Urban Intense	20	25	52	48	42	58	10	8	124	139
Urban Central	8	6	27	17	29	18	18	12	82	53
Sub-Urban	11	8	13	31	17	16	15	14	56	69
Rural	4	4	8	7	3	4	1	11	16	26
Total	45	45	105	105	105	105	45	45	300	300

Table 6. Full Establishment Survey.

	Item	Basic	Retail	Service	Education	Total
Business District	Number of sites	2	5	14	1	22
	Surveyed employees	5	58	58	32	153
	Surveyed visitors	16	192	225	24	457
	Total employment	6	95	160	80	341
	Employees at work	6	72	127	80	285
Urban Intense	Number of sites	20	52	42	10	124
	Surveyed employees	226	257	201	207	891
	Surveyed visitors	120	2,199	479	127	2,925
	Total employment	550	667	535	785	2,537
	Employees at work	397	489	417	734	2,037
Urban Central	Number of sites	8	27	29	18	82
	Surveyed employees	54	129	125	519	827
	Surveyed visitors	38	1,174	347	238	1,797
	Total employment	96	321	233	1,665	2,315
	Employees at work	83	208	221	1,605	2,117
Sub-Urban	Number of sites	11	13	17	15	56
	Surveyed employees	73	99	87	453	712
	Surveyed visitors	120	444	101	185	850
	Total employment	232	295	155	1,231	1,913
	Employees at work	139	194	119	1,153	1,605
Rural	Number of sites	4	8	3	1	16
	Surveyed employees	36	39	17	27	119
	Surveyed visitors	17	393	19	5	434
	Total employment	47	82	42	90	261
	Employees at work	47	52	28	85	212
Total	Number of sites	45	105	105	45	300
	Surveyed employees	394	582	488	1,238	2,702
	Surveyed visitors	311	4,402	1,171	579	6,463
	Total employment	931	1,460	1,125	3,851	7,367
	Employees at work	672	1,015	912	3,657	6,256

Table 7. Partial Establishment Survey.

Area Type	Item	Basic	Retail	Service	Education	Total
Business District	Number of sites	2	2	9	0	13
	Total employment	39	4	62	0	105
	Employees at work	16	3	57	0	76
Urban Intense	Number of sites	25	48	58	8	139
	Total employment	428	1208	4168	2262	8066
	Employees at work	391	863	2389	2245	5888
Urban Central	Number of sites	6	17	18	12	53
	Total employment	162	160	144	760	1226
	Employees at work	137	123	131	751	1142
Sub-Urban	Number of sites	8	31	16	14	69
	Total employment	560	416	196	991	2163
	Employees at work	554	292	179	979	2004
Rural	Number of sites	4	7	4	11	26
	Total employment	121	102	28	759	1010
	Employees at work	119	78	23	733	953
Total	Number of sites	45	105	105	45	300
	Total employment	1310	1890	4598	4772	12570
	Employees at work	1217	1359	2779	4708	10063

The full survey sites consisted of 150 free standing and 150 non-free standing sites. The total employment reported for these sites was 7,367. A total of 2,702 employees participated in the intercept interview, which represented 43 percent of the total number of employees that were at work during the survey day. A total of 6,463 non-employees, referred to in this report as visitors, participated in the intercept survey.

The partial survey sites consisted of 136 free standing and 164 non-free standing sites. The total employment reported for these sites was 12,570. No intercept surveys were conducted at these sites, but general information about the establishments was collected.

Trip Characteristics

This section presents the trip characteristics of persons entering or exiting the surveyed work places. Information on residency, trip purpose, mode of travel and occupancy, trip origins, and trip destinations were analyzed to measure the amount of trip attractions to the sites.

Residence

For all work place locations combined, the survey found that 97 percent of employees and 92 percent of visitors were residents of the survey area. Figure 5 shows the residency locations of employees of the work places who participated in the survey. The majority of surveyed employees came from the within the survey area. However, some did reside in Mexico (approximately 1 percent of all employees) and other states (approximately 2 percent of all employees), including New Mexico, Nevada, Colorado, California and Alabama. The majority of surveyed visitors reported coming from within the survey area, although 62 percent of the non-resident visitors resided in Mexico and 35 percent resided in states such as New Mexico, Colorado and California. See Figure 5 and Figure 6 for further detail.

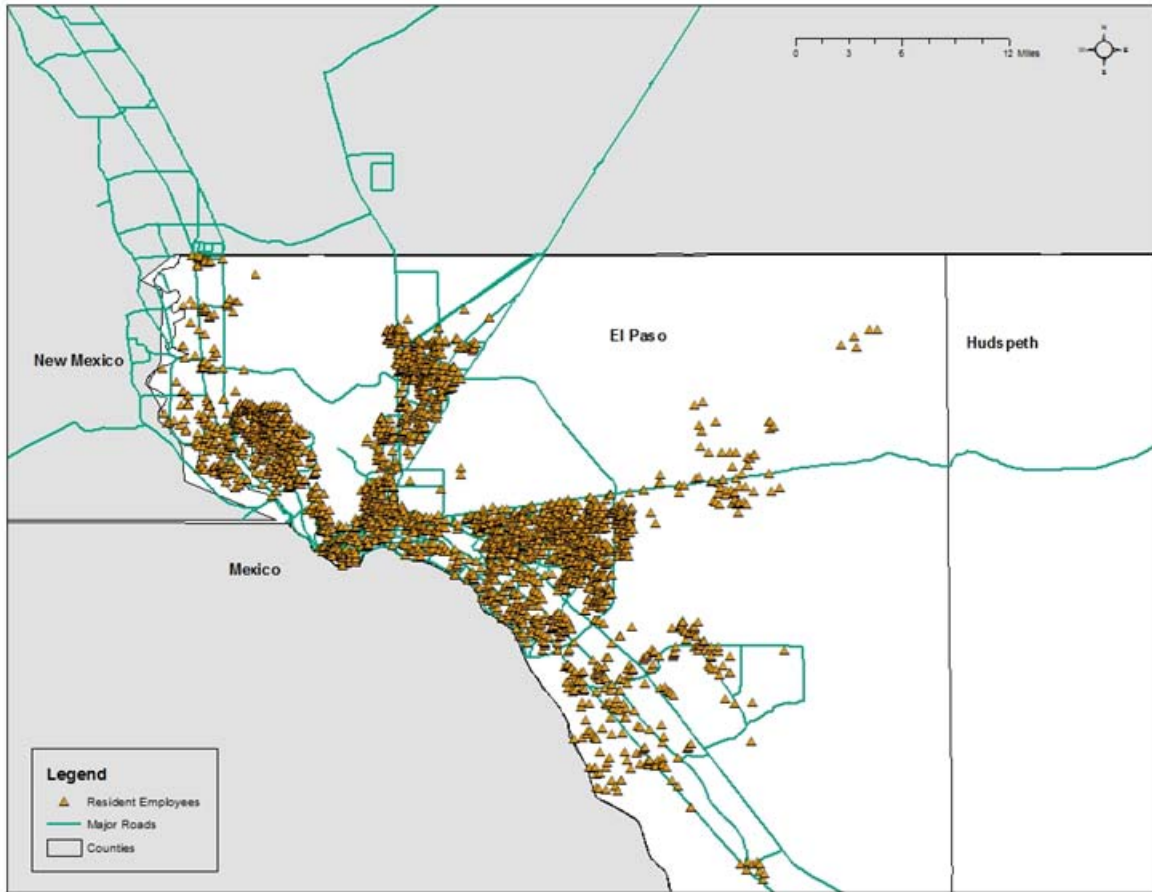


Figure 5. Residence Locations of Surveyed Employees.

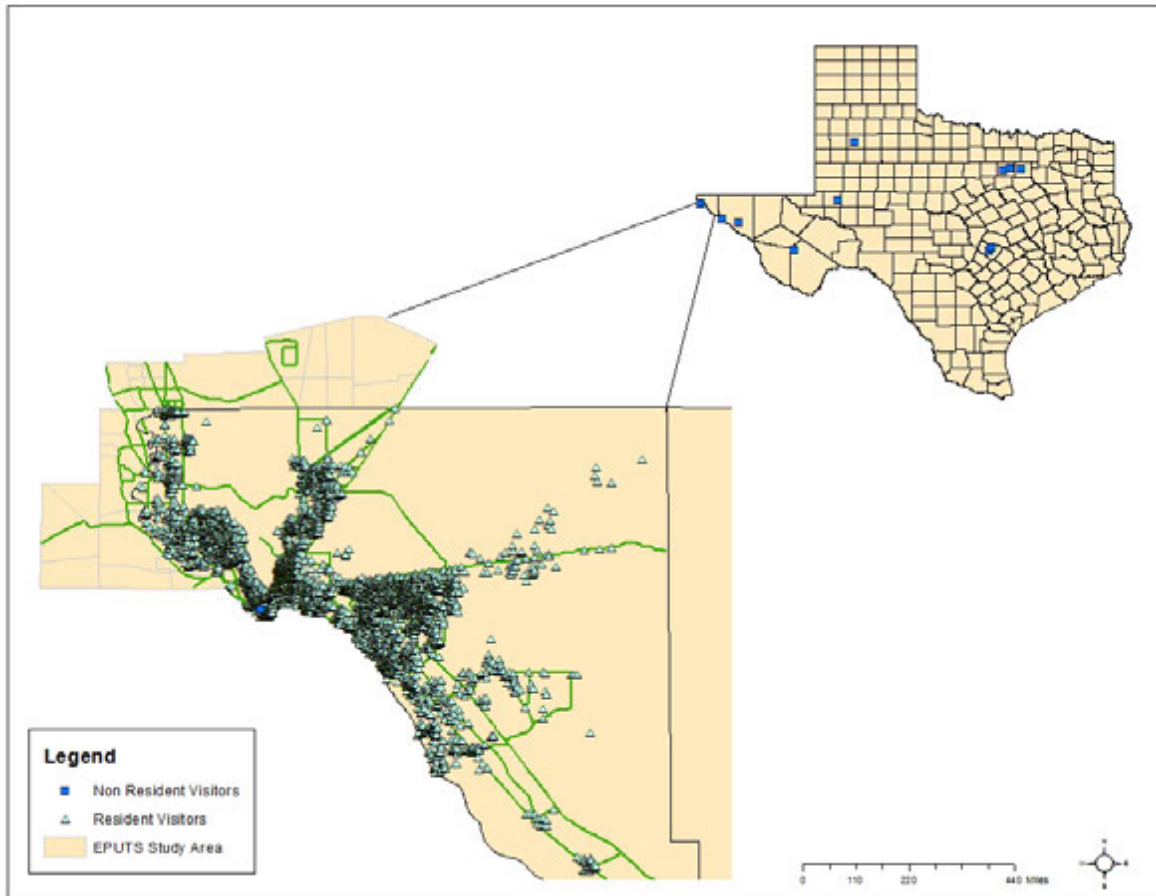


Figure 6. Residence Locations of Surveyed Visitors.

Trip Purpose

The trip purposes to the work place were identified as work-related, school-related, social/recreational, visit, shop, eat out, personal business, pick-up/drop-off passenger, change travel mode, delivery, and other. In the analysis, the trip purposes were classified according to the following trip categories.

- 1) Home-based work (HBW) – when the purpose was work-related, the origin or destination was the home, and the origin or destination was located within the study area.
- 2) Home-based non-work (HBNW) – when the purpose was not work-related, the origin or destination was the home, and the origin or destination was located within the study area.
- 3) Non home-based destination (NHB-D) – when the origin was not the home, the destination was the establishment being surveyed, and the origin was located within the study area.

- 4) Non home-based origin (NHB-O) – when the reported destination when leaving the establishment being surveyed was not the home, and the destination was located within the study area.
- 5) External trip destination (EXT-D) – when the destination was outside the study area when leaving the establishment.
- 6) External trip origin (EXT-O) – when the origin was outside the study area.
- 7) Non-resident (NON-RES) – when the person making the trip to and/or from the establishment lived outside the study area and the origin/destination of the trip was inside the study area.

Table 8 shows the number and percentage of trips by trip purposes to and from the work place. Note that these percentages could significantly change after weighting was applied to the raw data during the survey expansion process.

Table 8. Surveyed Trip Purposes to and from the Work Place.

Trip Purpose	Number of Trips	Percent of Total
HBW	4,367	23.82
HBNW	8,877	48.43
NHB-D	1,501	8.19
NHB -O	2,467	13.46
EXT-D	20	0.11
EXT-O	9	0.05
NON RES	1,089	5.94
Total	18,330	100.00

Table 9 provides the breakdown of surveyed trips by trip purpose and by area and employment types.

Table 9. Surveyed Trips to and from the Work Place

Area Type	Employment Type	Trip Purpose							Total
		HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	
Business District	Basic	9	11	8	12	0	0	2	42
	Retail	85	170	108	86	0	1	50	500
	Service	78	295	89	89	0	0	15	566
	Education	47	32	1	23	1	0	8	112
Urban Intense	Basic	342	113	51	125	0	1	60	692
	Retail	453	2,907	513	652	6	1	380	4,912
	Service	312	670	106	164	2	2	104	1,360
	Education	317	200	37	105	0	1	8	668
Urban Central	Basic	70	36	11	33	0	0	34	184
	Retail	215	1,668	246	294	3	2	178	2,606
	Service	202	510	60	143	1	0	28	944
	Education	870	356	42	206	0	0	40	1,514
Sub-Urban	Basic	137	177	14	34	2	0	22	386
	Retail	165	549	100	180	5	1	86	1,086
	Service	137	130	40	63	0	0	6	376
	Education	717	310	40	191	0	0	18	1,276
Rural	Basic	71	30	4	1	0	0	0	106
	Retail	72	678	25	43	0	0	46	864
	Service	27	26	4	11	0	0	4	72
	Education	41	9	2	12	0	0	0	64
Total	Basic	629	367	88	205	2	1	118	1,410
	Retail	990	5,972	992	1,255	14	5	740	9,968
	Service	756	1,631	299	470	3	2	157	3,318
	Education	1,992	907	122	537	1	1	74	3,634
Total Trips		4,367	8,877	1,501	2,467	20	9	1,089	18,330

Mode of Travel and Vehicle Occupancy

Table 10 shows the distribution of surveyed trips by mode of travel to and from the work place. The majority of trips were made by drivers of cars, trucks, or vans. Just over six percent were passengers of a vehicle. The average occupancy was estimated at 1.5 persons per vehicle.

Table 10. Surveyed Mode of Travel to and from the Work Place.

Mode	Number of Trips	Percent of Total Trips	Average Vehicle Occupancy
Driver (car/truck/van)	15,888	86.68	1.41
Passenger (car/truck/van)	1198	6.54	2.34
Walk	896	4.89	-
Bicycle	58	0.32	-
Bus	212	1.16	-
School Bus	14	0.08	-
Taxi/Limo	2	0.01	2.2
Commercial Cargo Transport	8	0.04	-
Commercial Service Vehicle	30	0.16	-
Motorcycle	24	0.13	1.08
Total	18,330	100.00	1.48

Trip Length

Each trip in the survey, based on its reported origin location and destination location, was geocoded either to a TAZ system for the El Paso study area, or to the statewide TAZ system when the location was outside the study area (but within the state of Texas). After the trips were geocoded, the travel distance and travel time for each trip to the surveyed work place was estimated using the transportation network available for the El Paso study area that provides the zone-to-zone trip lengths and travel times based on network speeds.

The analyses of trip length presented in this section pertain only to inter-zonal trips by the person and auto driver (vehicle) mode of travel to and from the work place, since the El Paso network only provides distances and travel times between zones and not within zones (i.e., intra-zonal). Table 11 shows the trip lengths to and from the work place by surveyed trip purpose, while Table 12 and Table 13 show the trip length frequency distributions (TLFDs), grouped at five-mile intervals. Table 14 shows the ungrouped results of TLFDs for person and vehicle trips. The average trip length to or from the work place was 5.5 miles per person trip and 5.6 miles per

vehicle trip. Seventy percent of the observed person trips traveled a distance of less than 10 miles.

Table 11. Surveyed Inter-Zonal Trip Lengths to and from the Work Place.

Trip Purpose	Total Person Miles	Number of Person Trips	Average Person Miles	Total Vehicle Miles	Number of Vehicle Trips	Average Vehicle Miles
HBW	33,168	4,557	7.28	28,779	3,857	7.46
HBNW	58,277	11,932	4.88	32,547	6,932	4.70
NHB	27,067	5,226	5.18	16,952	3,191	5.31
NON-RES	1,789.11	326	5.49	870.89	168	5.18
Total	120,301	22,041	5.46	79,149	14,148	5.59

Table 12. Surveyed Person Trips TLFDs (Grouped).

Trip Length	Trip Purpose				Total
	HBW	HBNW	NHB	NON-RES	
Less than 5 miles	2,106	8,074	3,118	179	13,477
5 to <10 miles	1,095	1,771	1,245	87	4,198
10 to <15 miles	694	1,147	535	33	2,409
15 to <20 miles	409	556	223	14	1,202
20 to <25 miles	185	267	74	6	532
25 to <30 miles	20	24	11	6	61
30+ miles	48	93	20	1	162
Total	4,557	11,932	5,226	326	22,041

Table 13. Surveyed Vehicle Trips TLFDs (Grouped).

Trip Length	Trip Purpose				Total
	HBW	HBNW	NHB	NON-RES	
Less than 5 miles	1,732	4,773	1,842	94	8,441
5 to <10 miles	929	1,027	805	48	2,809
10 to <15 miles	619	611	346	16	1,592
15 to <20 miles	363	315	137	5	820
20 to <25 miles	151	147	42	3	343
25 to <30 miles	20	10	7	1	38
30+ miles	43	49	12	1	105
Total	3,857	6,932	3,191	168	14,148

Table 14. Surveyed Person and Vehicle Trips TLFDs (Ungrouped).

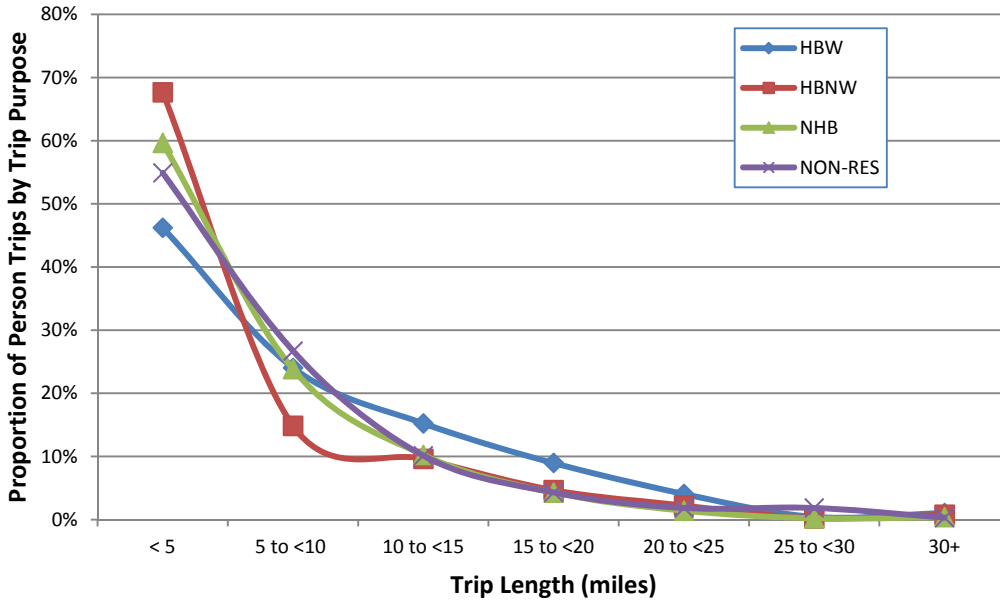
Trip Length	Trip Purpose							
	Person Trips				Vehicle Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	533	2,706	867	72	404	1,618	501	33
2	587	2,096	837	32	477	1,245	508	16
3	461	1,382	583	11	399	763	357	11
4	372	742	446	18	325	426	268	10
5	308	524	345	32	251	297	221	15
6	218	458	253	11	196	283	169	9
7	237	300	269	14	206	182	171	8
8	199	264	225	10	163	142	146	3
9	133	225	153	20	113	123	98	13
10	139	252	143	10	114	142	88	5
11	133	179	119	12	125	102	77	5
12	135	227	81	1	119	118	56	1
13	130	187	71	0	121	99	52	0
14	115	196	76	5	101	98	45	4
15	95	181	64	7	87	96	37	2
16	106	165	51	7	88	97	40	1
17	79	108	70	3	73	67	38	1
18	94	128	53	2	85	62	29	2
19	77	80	30	0	69	45	21	0
20	66	82	28	3	48	40	14	1
21	42	66	23	2	38	32	12	1
22	33	76	13	1	25	41	8	1
23	29	21	7	0	25	14	5	0
24	15	22	3	0	15	20	3	0
25	15	16	4	0	15	7	2	0
26	8	17	9	0	7	7	5	0
27	12	9	3	0	12	3	3	0
28	9	9	0	6	9	6	0	1
29	3	17	1	0	3	5	1	0
30	2	6	3	0	2	4	2	0
31	5	20	0	0	5	8	0	0
32	3	5	0	0	3	4	0	0
33	1	5	0	0	1	4	0	0
34	3	7	1	1	3	7	1	1
35	1	4	3	0	1	2	1	0
36	0	0	0	0	0	0	0	0
37	1	0	6	0	1	0	3	0
38	0	0	1	0	0	0	1	0

Table 14. Surveyed Person and Vehicle Trips TLFDs (Ungrouped), (Continued).

Trip Length	Trip Purpose							
	Person Trips				Vehicle Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
39	0	0	0	0	0	0	0	0
40	4	0	0	0	0	0	0	0
41	0	0	0	0	0	0	1	0
42	0	2	0	0	0	2	0	0
43	0	0	0	0	0	0	0	0
44	1	0	0	0	1	0	0	0
45	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0
50+	0	0	0	0	0	0	0	0
Total	4,404	10,784	4,841	280	3,730	6,211	2,984	144

Figure 7a and Figure 7b illustrate the TLFDs by purpose for person and vehicle trips to and from the work place that were included in Table 12 and Table 13. Similarly, Figure 8a and Figure 8b show the ungrouped TLFDs that were included in Table 14.

(a) Person Trips



(b) Vehicle Trips

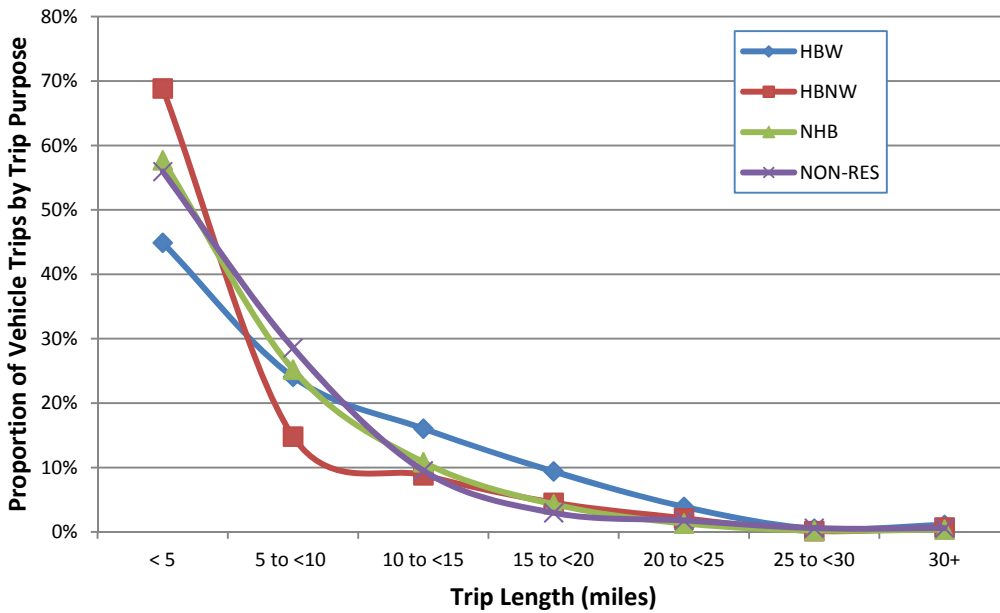
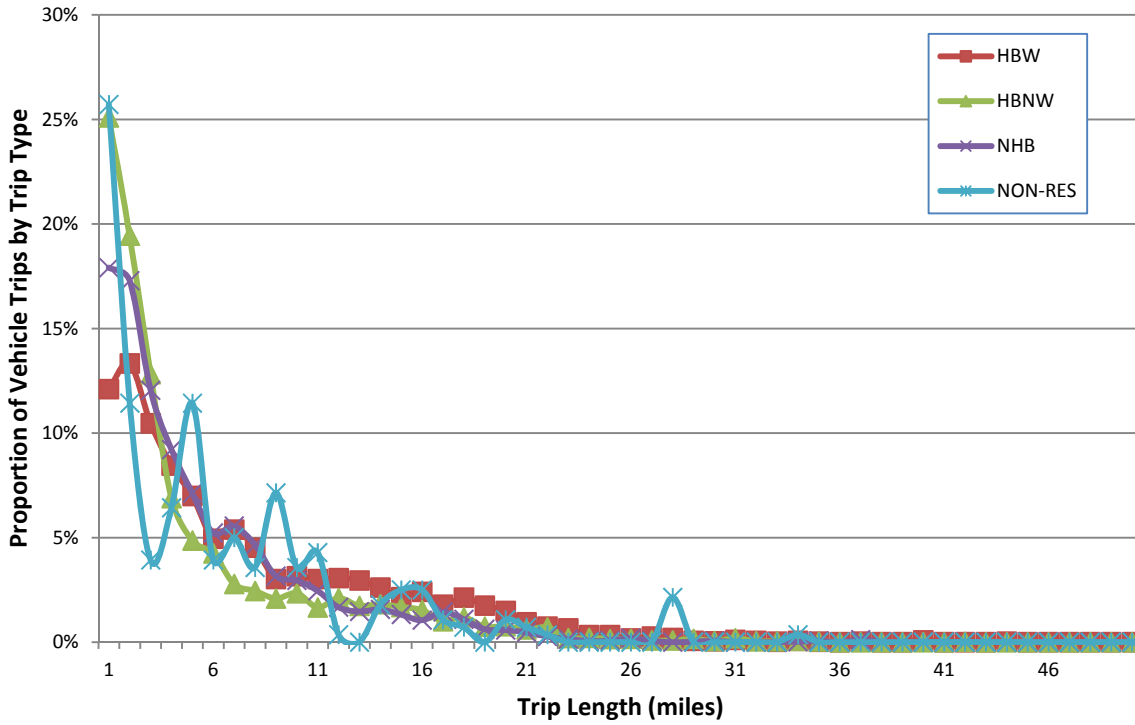


Figure 7. Person and Vehicle Trips to and from the Work Place TLFDs (Distance - Grouped).

(a) Person Trips



(b) Vehicle Trips

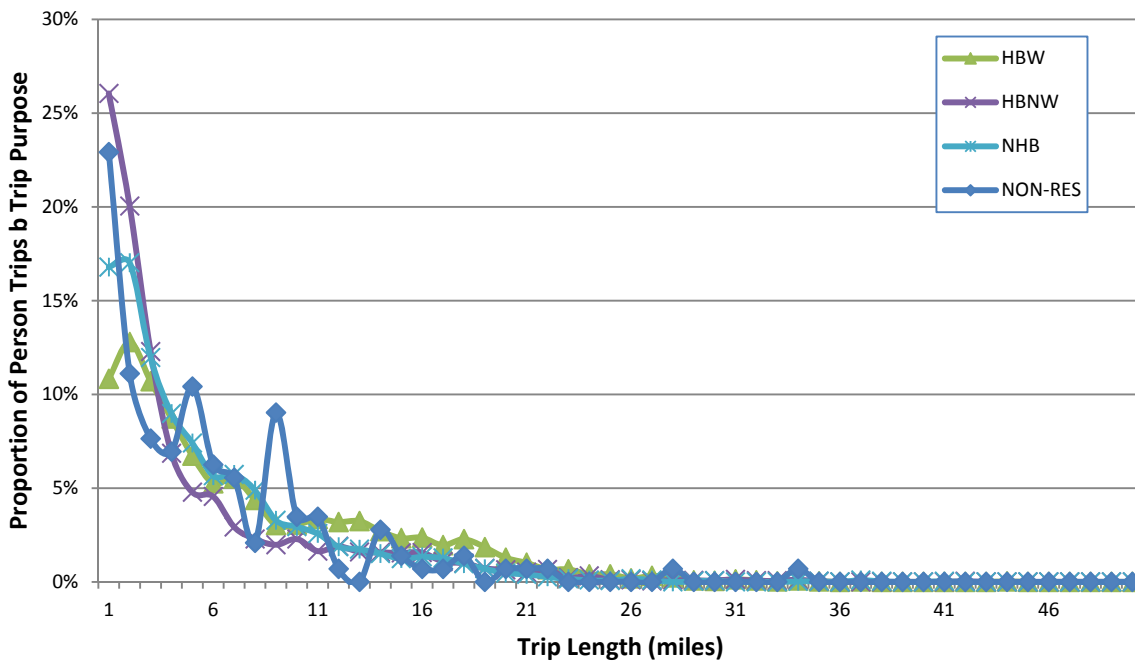


Figure 8. Person and Vehicle Trips to and from the Work Place TLFDs (Distance - Ungrouped).

Table 15 shows the travel time to and from the work place by surveyed trip purpose, while Table 16 and Table 17 show the TLFDs, grouped at five-minute intervals. Table 18 shows the ungrouped results of TLFDs for person and vehicle trips. The average travel time to and from the work place was 9.9 minutes per person trip and 10.1 minutes per vehicle trip. Half of all trips (52 percent) were less than ten minutes in duration.

Table 15. Person and Vehicle Travel Time by Trip Purpose.

Trip Purpose	Total Person Minutes	Number of Person Trips	Average Person Minutes	Total Vehicle Minutes	Number of Vehicle Trips	Average Vehicle Minutes
HBW	58,119	4,557	12.75	50,272	3,857	13.03
HBNW	107,408	11,932	9.00	60,332	6,932	8.70
NHB-D	49,323	5,226	9.44	30,809	3191	9.66
NON-RES	3108.97	326	9.54	1534.02	168	9.13
Total	217,960	22,041	9.89	142,947	14,148	10.10

Table 16. Person Trips Travel Time Frequency Distribution (Grouped).

Trip Length	HBW	HBNW	NHB	NON-RES	Total
<5	878	4479	1562	131	7,050
5 to <10	883	2645	936	38	4,502
10 to <15	975	2063	1273	51	4,362
15 to <20	536	822	573	44	1,975
20 to <25	477	715	449	29	1,670
25 to <30	371	586	203	11	1,171
30 to <35	235	341	153	10	739
35 to <40	124	159	36	4	323
40 to <45	45	63	25	1	134
45 to <50	17	37	8	7	69
50 to <55	8	17	2	0	27
55 to <60	4	3	6	0	13
60+	4	2	0	0	6
Total	4,557	11,932	5,226	326	22,041

Table 17. Vehicle Trips Travel Time Frequency Distribution (Grouped).

Trip Length	HBW	HBNW	NHB	NON-RES	Total
<5	675	2712	889	64	4,340
5 to <10	757	1530	560	21	2,868
10 to <15	834	1186	800	31	2,851
15 to <20	459	472	373	24	1,328
20 to <25	418	389	292	13	1,112
25 to <30	334	314	133	7	788
30 to <35	207	176	98	3	484
35 to <40	105	85	19	2	211
40 to <45	39	33	17	1	90
45 to <50	17	19	5	2	43
50 to <55	8	11	2	0	21
55 to <60	2	3	3	0	8
60+	2	2	0	0	4
Total	3,857	6,932	3,191	168	14,148

Table 18. Person and Vehicle Trips Travel Time Frequency Distribution (Ungrouped).

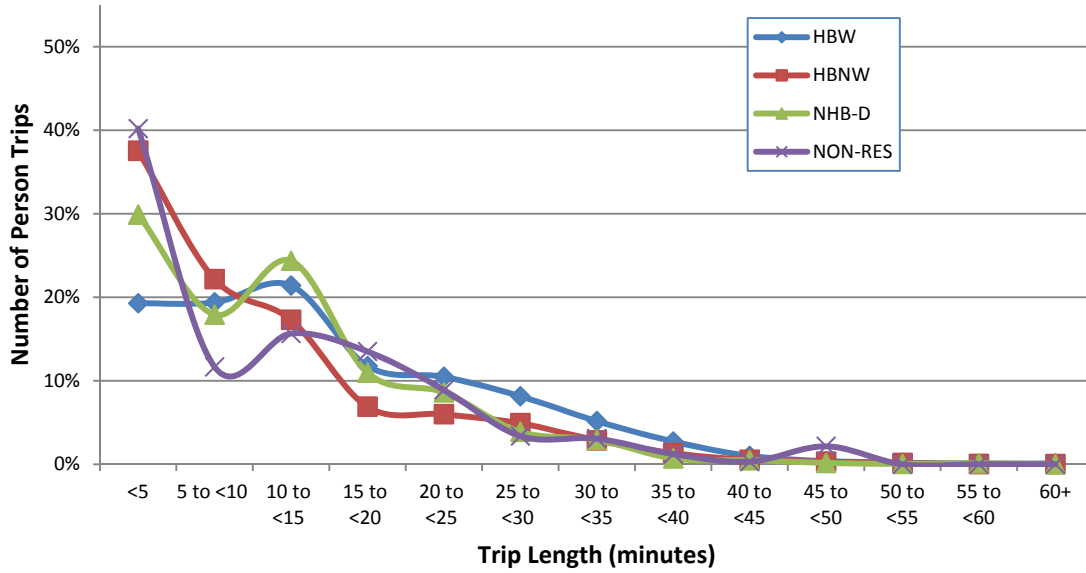
Trip Duration	Trip Purpose							
	Person Trips				Vehicle Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	37	381	177	26	35	250	90	15
2	207	1,381	429	53	161	842	238	23
3	272	1,529	481	28	206	908	278	16
4	362	1,182	473	24	273	708	283	10
5	335	1,311	485	21	293	777	290	11
6	269	865	367	6	237	515	238	6
7	312	692	319	5	253	375	184	4
8	208	569	296	14	181	300	193	7
9	221	436	252	24	178	242	151	12
10	176	343	235	14	154	220	153	10
11	178	257	170	11	153	164	120	5
12	149	231	170	9	136	138	99	5
13	139	195	159	5	125	112	106	2
14	128	199	161	7	101	98	102	5
15	127	183	107	14	106	100	74	8
16	96	157	113	19	78	84	81	10
17	99	155	101	4	94	78	63	2
18	104	139	91	0	86	81	57	0
19	82	166	86	4	75	101	50	1
20	71	136	45	0	64	74	31	0
21	113	151	46	2	100	84	29	2
22	119	137	50	4	100	75	31	3
23	89	150	69	5	76	65	43	0
24	57	114	55	5	55	66	33	3
25	63	120	33	4	61	54	22	0
26	65	66	59	3	52	50	31	1
27	53	84	35	0	50	47	24	0
28	58	105	34	0	58	54	21	0
29	55	66	24	0	48	33	18	0
30	64	65	8	0	47	41	6	0
31	37	66	18	4	36	35	8	3
32	59	49	12	0	53	31	5	0
33	26	62	11	3	22	22	4	1
34	17	21	8	0	17	9	6	0
35	14	27	8	0	12	22	6	0
36	7	18	3	1	7	11	2	1
37	9	14	6	0	9	7	2	0
38	15	11	5	0	7	7	4	0

Table 18. Person and Vehicle Trips Travel Time Frequency Distribution (Ungrouped), (Continued).

Trip Duration	Trip Purpose							
	Person Trips				Vehicle Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
39	10	5	3	0	8	2	2	0
40	13	11	2	6	12	5	2	0
41	7	4	2	0	7	1	1	1
42	5	10	1	0	5	4	1	0
43	4	14	2	0	4	4	2	0
44	4	12	0	0	4	5	0	0
45	3	7	0	0	3	5	1	0
46	2	5	0	1	1	4	0	1
47	5	9	0	0	3	4	0	0
48	1	4	0	0	4	2	1	0
49	1	6	2	0	1	6	2	0
50+	10	6	6	0	6	6	3	0
Total	4,557	11,926	5,219	326	3,857	6,928	3,191	168

Figure 9a and Figure 9b illustrate the TLFs by purpose for person and vehicle trips to and from the work place that were included in Table 16 and Table 17. Similarly, Figure 10a and Figure 10b show the ungrouped TLFs that were included in Table 18.

(a) Person Trips



(b) Vehicle Trips

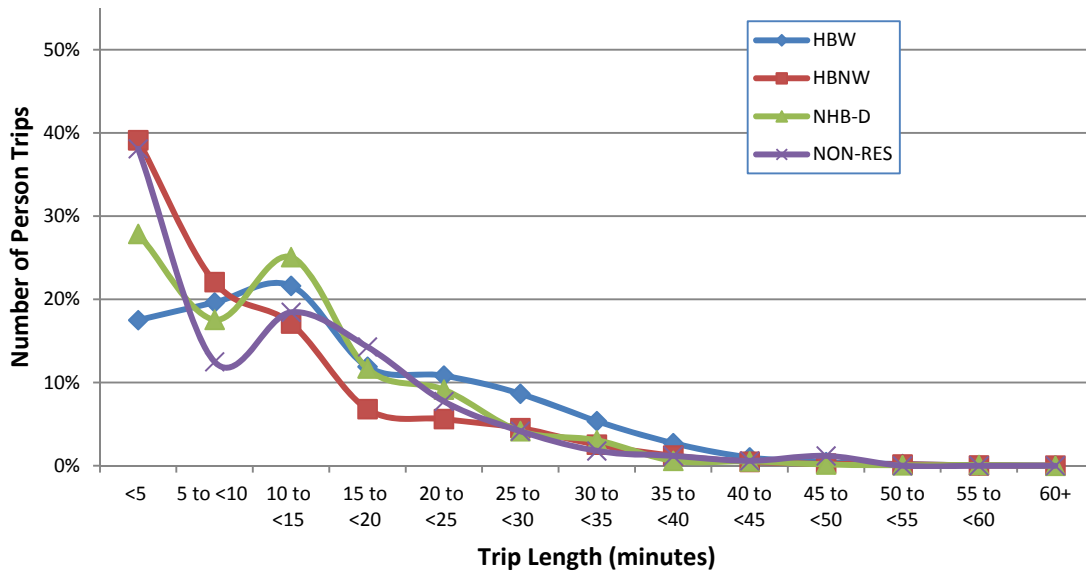
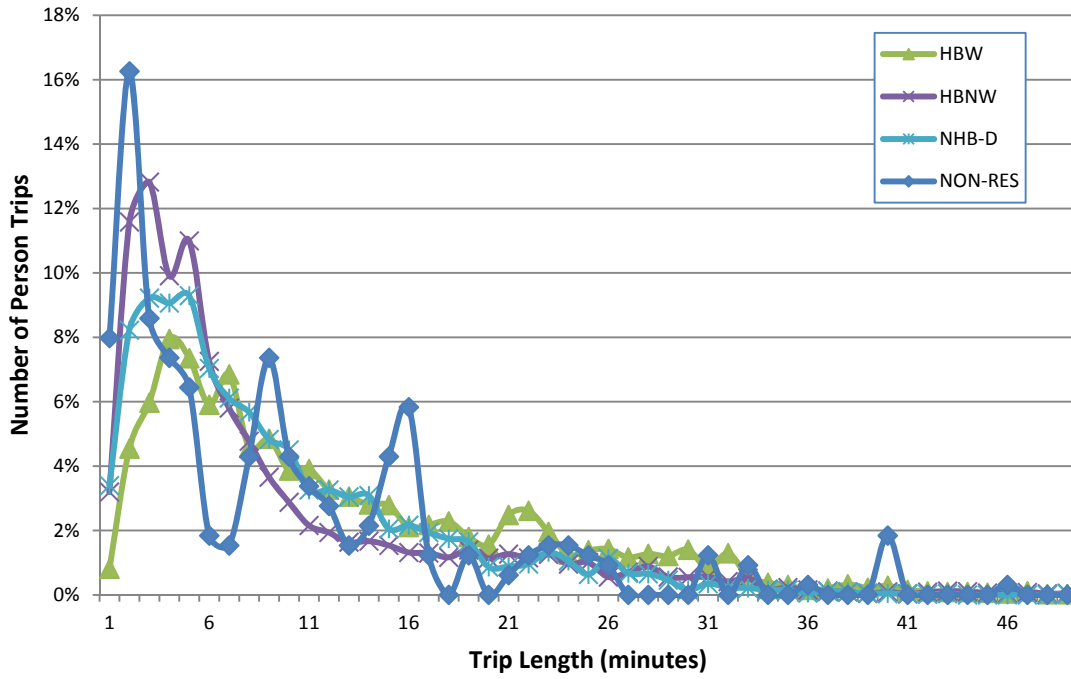


Figure 9. Person and Vehicle Trips to and from the Work place TLFs (Time - Grouped).

(a) Person Trips



(b) Vehicle Trips

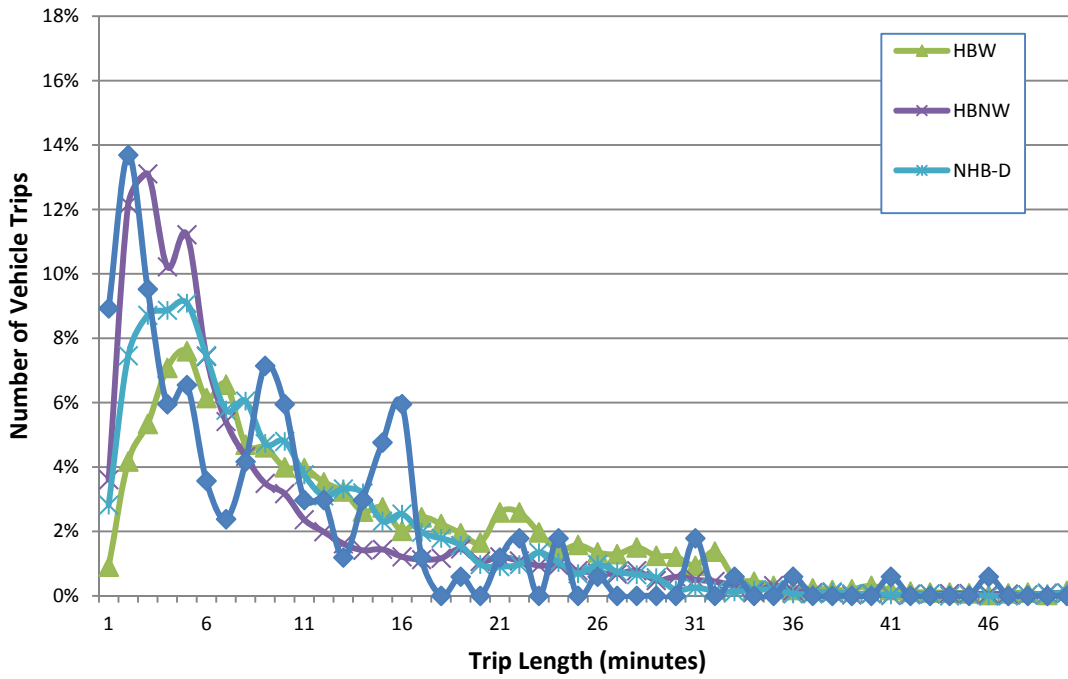


Figure 10. Person and Vehicle Trips to and from the Work place TLFDs (Time - Ungrouped).

SPECIAL GENERATORS

Special generators are those establishments that are considered unique trip attractors. These may include major shopping centers, hospitals, colleges/universities, recreational facilities, military bases, airports, and other land use developments that have unique trip generation characteristics and therefore require modeling outside the typical travel demand modeling framework.

Five special generators were surveyed in the El Paso MPO study area. These included El Paso International Airport, Thomason General Hospital-UMC, Cielo Vista Mall, University of Texas El Paso, and Fort Bliss. Figure 11 shows their locations and corresponding area types.

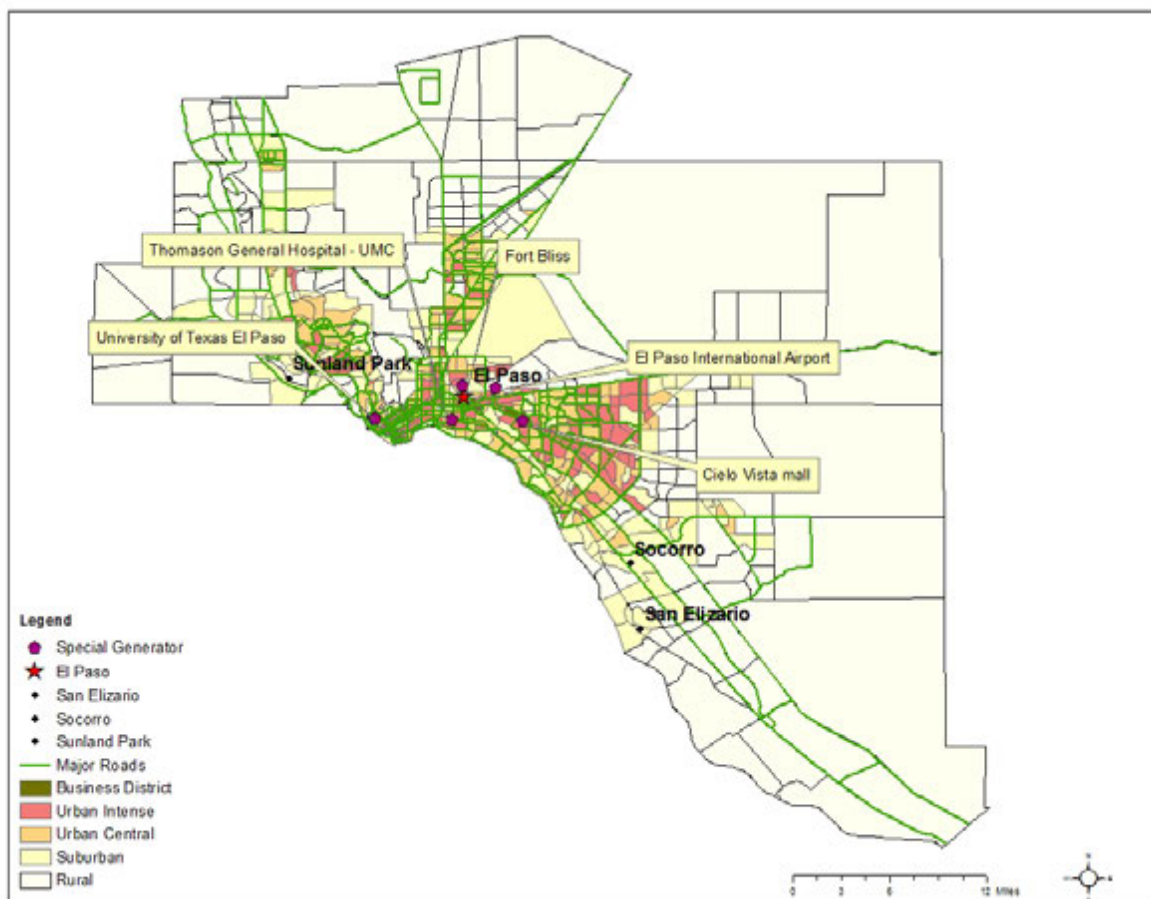


Figure 11. El Paso Special Generators.

The methodology used to survey special generators was the same as that used for full work place surveys. It includes a general survey, an intercept survey, person and/or vehicle counts, and commercial vehicle counts.

Table 19 provides a summary of the general data collected from the special generator surveys, while Table 20 shows the distribution of total trips to and from the surveyed establishments by trip purpose.

Table 19. El Paso Special Generators Data Summary.

Special Generator	Employees		Surveys		Counts		
	Total	At Work	Employees	Non Employee	Non Commercial Vehicle	Person	Commercial Vehicle
El Paso International Airport	800	750	325	351	28,841	0	1,647
Thomason General Hospital-UMC	2,100	1,900	324	315	18,402	0	817
Cielo Vista Mall	1,200	1,000	157	551	24,183	0	434
University of Texas El Paso	4,000	3,750	31	588	45,122	0	2,545
Fort Bliss	2,500	2,400	662	299	61,094	0	3,055
Total	10,600	9,800	1,499	2,104	177,642	0	8,498

Table 20. Surveyed Total Trips to and from the Establishments by Trip Purpose Summary.

Trip Type	El Paso International Airport	Thomason General Hospital-UMC	Cielo Vista Mall	University of Texas El Paso	Fort Bliss	Total
HBW	581	562	246	54	1,012	2,455
HBNW	302	560	748	997	576	3,183
NHB-D	29	38	115	21	77	280
NHB-O	56	88	158	90	204	596
EXT-D	21	0	1	0	1	23
EXT-O	11	0	0	0	0	11
NON-RES	352	30	148	76	52	658
Total	1,352	1,278	1,416	1,238	1,922	7,206

The trip characteristics observed from each special generator are described by mode of travel, trip purpose, trip length and travel time. The analyses of trip length pertain to inter-zonal trips since the El Paso network matrix provides only distances and travel times between zones and not within zones based on vehicle speeds. It is important to note that the results presented throughout this section were based on raw trip data. These results may change after weighting is applied to the raw data during the survey expansion.

El Paso International Airport

A total of 325 employees and 351 non-employees participated in the survey. Vehicle counts estimated a total of 28,841. Figure 12 shows the mode of travel used by survey participants to travel to and from the El Paso International Airport. Approximately 80 percent of the respondents were vehicle drivers or passengers. The average vehicle occupancy was 1.2 persons for employee trips and 2.9 persons for visitor trips.

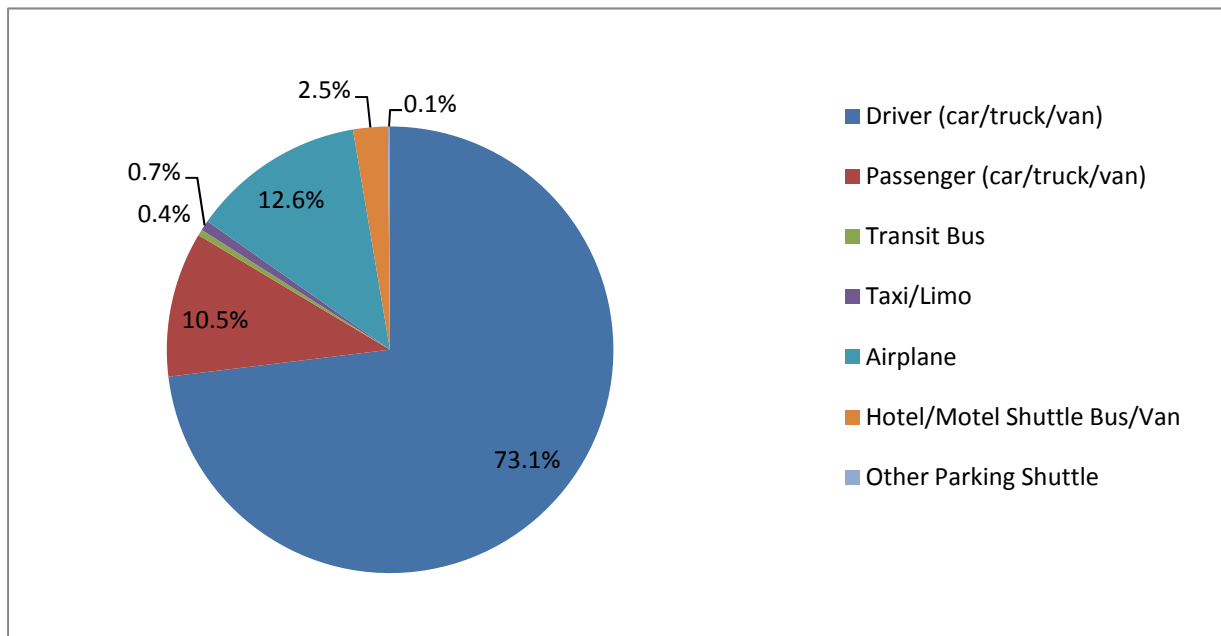


Figure 12. Mode of Travel to and from the El Paso International Airport.

Table 21 shows the number and percentage of surveyed trips to and from the El Paso International Airport by trip purpose, while Table 22 and Table 23 show the inter-zonal trip lengths and travel times to and from the El Paso International Airport by trip purpose for person and vehicle trips, respectively. The average trip length and average travel time per person trip was 8.9 miles and 15.3 minutes, respectively. The average trip length and average travel time per vehicle trip was 5.4 miles and 8.4 minutes, respectively.

Table 21. Surveyed Trips by Purpose to and from the El Paso International Airport.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	300	281	581	43.0
HBNW	160	142	302	22.3
NHB-D	29	0	29	2.1
NHB-O	0	56	56	4.1
EXT-D	0	21	21	1.6
EXT -O	11	0	11	0.8
NON RES	176	176	352	26.0
Total	676	676	1,352	100

Table 22. Surveyed Inter-Zonal Trip Length to and from the El Paso International Airport by Trip Purpose.

Trip Purpose	Total Person Miles	Number of Person Trips	Average Person Miles	Total Vehicle Miles	Number of Vehicle Trips	Average Vehicle Miles
HBW	12,225	1,359	9.00	8,900	969	9.19
HBNW	19,839	2,198	9.03	2,575	1,247	2.06
NHB	3,585	421	8.52	2,036	237	8.59
NON RES	1,200	146	8.22	173	84	2.06
Total	36,849	4,124	8.94	13,685	2,537	5.39

Table 23. Surveyed Inter-Zonal Travel Time to and from the El Paso International Airport by Trip Purpose.

Trip Purpose	Total Person Minutes	Number of Person Trips	Average Person Minutes	Total Vehicle Minutes	Number of Vehicle Trips	Average Vehicle Minutes
HBW	20,991	1,359	15.45	15,137	969	15.62
HBNW	34,006	2,198	15.47	2,575	1,247	2.06
NHB	6,119	421	14.53	3,461	237	14.60
NON RES	2,021	146	13.84	173	84	2.06
Total	63,137	4,124	15.31	21,346	2,537	8.41

Thomason General Hospital - UMC

A total of 324 employees and 315 non-employees participated in the survey. Vehicle counts estimated 18,402 persons. Figure 13 shows the mode of travel used by survey participants to travel to and from the Thomason General Hospital - UMC. Approximately 94 percent were drivers or passengers of cars, trucks, or vans, while 2 percent took transit. The average vehicle occupancy was 1.2 persons for employee trips and 2.0 persons for visitor trips.

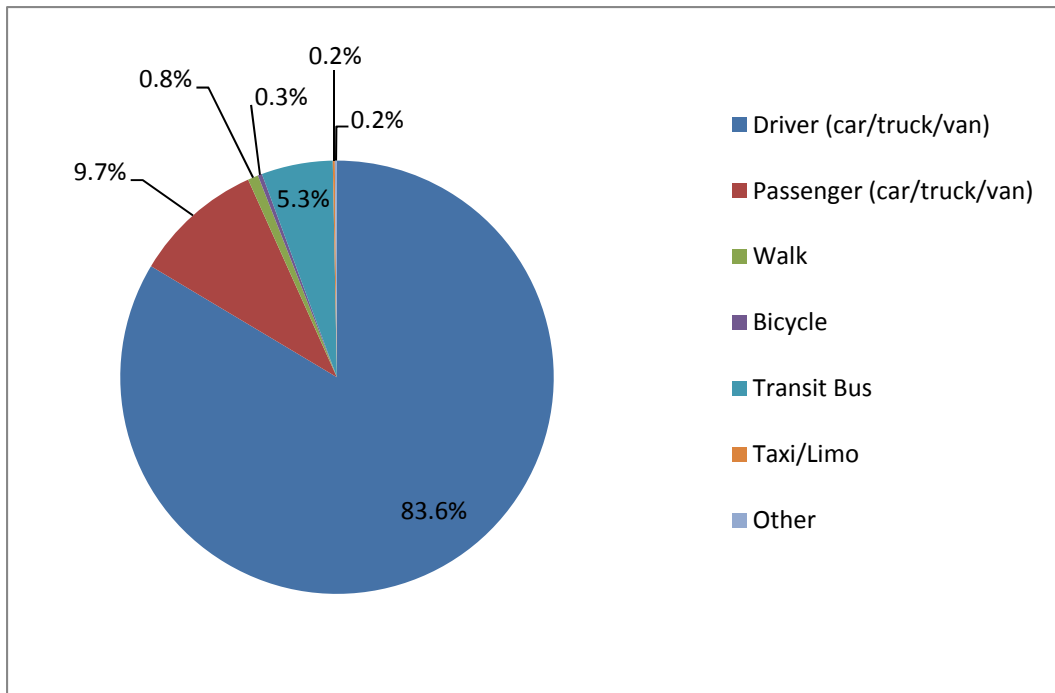


Figure 13. Mode of Travel to and from Thomason General Hospital - UMC.

Table 24 shows the number and percentage of surveyed trips to and from Thomason General Hospital – UMC by trip purpose. Table 25 and Table 26 show the inter-zonal trip lengths and travel times to and from Thomason General Hospital – UMC by trip purpose for person and vehicle trips, respectively. The average trip length and average travel time per person trip was 9.2 miles and 15.4 minutes, respectively. The average trip length and average travel time per vehicle trip was 9.3 miles and 15.6 minutes, respectively.

Table 24. Surveyed Total Trips to and from Thomason General Hospital – UMC by Trip Purpose.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	299	263	562	44.0
HBNW	287	273	560	43.8
NHB-D	38	0	38	3.0
NHB-O	0	88	88	6.9
EXT-D	0	0	0	0.0
EXT -O	0	0	0	0.0
NON RES	15	15	30	2.3
Total	639	639	1,278	100.0

Table 25. Surveyed Inter-Zonal Trip Length to and from Thomason General Hospital – UMC by Trip Purpose.

Trip Purpose	Total Person Miles	Number of Person Trips	Average Person Miles	Total Vehicle Miles	Number of Vehicle Trips	Average Vehicle Miles
HBW	13,958	1,547	9.02	9,349	984	9.50
HBNW	26,422	2,813	9.39	13,405	1,450	9.24
NHB	3,673	451	8.14	2,165	261	8.30
NON RES	5,603	606	9.25	3,131	337	9.29
Total	49,656	5,417	9.17	28,050	3,032	9.25

Table 26. Surveyed Inter-Zonal Travel Time to and from Thomason General Hospital – UMC by Trip Purpose.

Trip Purpose	Total Person Miles	Number of Person Trips	Average Person Miles	Total Vehicle Miles	Number of Vehicle Trips	Average Vehicle Miles
HBW	23,674	1,547	15.30	15,768	984	16.02
HBNW	44,266	2,813	15.74	22,549	1,450	15.55
NHB	6,211	451	13.77	3,664	261	14.04
NON RES	9,466	606	15.62	5,307	337	15.75
Total	83,616	5,417	15.44	47,288	3,032	15.60

Cielo Vista Mall

A total of 157 employees, and 551 non-employees participated in the survey. Vehicle counts recorded 24,183 non-commercial vehicles and 434 commercial vehicles.

Figure 14 shows the mode of travel used by survey participants to travel to and from Cielo Vista Mall. Approximately 98 percent were drivers or passengers of cars, trucks, or vans. The remaining 2 percent biked or walked. The average vehicle occupancy was 1.3 persons for employee trips and 1.8 persons for visitor trips.

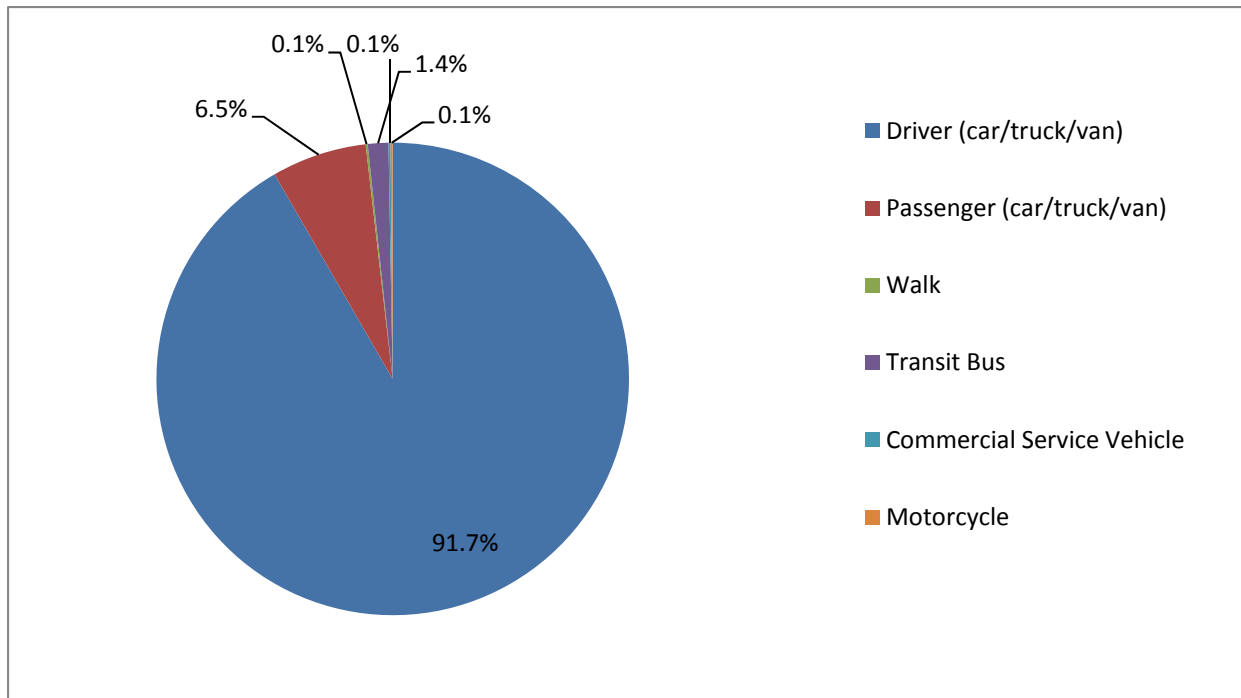


Figure 14. Mode of Travel to and from Cielo Vista Mall.

Table 27 shows the number and percentage of trips to and from Cielo Vista Mall by trip purpose. Table 28 and Table 29 show the inter-zonal trip length and travel time to and from Cielo Vista Mall by trip purpose for person and vehicle trips, respectively. The average trip length and average travel time per person trip was 7.1 miles and 12.6 minutes, respectively. The average trip length and average travel time per vehicle trip was 7.1 miles and 12.6 minutes, respectively.

Table 27. Surveyed Total Trips to and from Cielo Vista Mall by Trip Purpose.

Trip Purpose	To Work Place	From Work Place	Number of Trips	Percent of Total
HBW	127	119	246	17.4
HBNW	392	356	748	52.8
NHB-D	115	0	115	8.1
NHB-O	0	158	158	11.2
EXT-D	0	1	1	0.1
EXT-O	0	0	0	0.0
NON RES	74	74	148	10.5
Total	708	708	1,416	100.0

Table 28. Surveyed Inter-Zonal Trip Length to and from Cielo Vista Mall by Trip Purpose.

Trip Purpose	Total Person Miles	Number of Person Trips	Average Person Miles	Total Vehicle Miles	Number of Vehicle Trips	Average Vehicle Miles
HBW	2,377	350	6.79	1,872	267	7.01
HBNW	10,975	1,412	7.77	5,759	726	7.93
NHB	2,529	456	5.55	1,430	266	5.38
NON RES	666	102	6.53	282	50	5.64
Total	16,546	2,320	7.13	9,342	1,309	7.14

Table 29. Surveyed Inter-Zonal Travel Time to and from Cielo Vista Mall by Trip Purpose.

Trip Purpose	Total Person Minutes	Number of Person Trips	Average Person Minutes	Total Vehicle Minutes	Number of Vehicle Trips	Average Vehicle Minutes
HBW	4,288	350	12.25	3,358	267	12.58
HBNW	19,248	1,412	13.63	10,054	726	13.85
NHB	4,578	456	10.04	2,603	266	9.79
NON RES	1,140	102	11.17	504	50	10.08
Total	29,254	2,320	12.61	16,519	1,309	12.62

University of Texas – El Paso

A total of 31 employees, and 588 non-employees participated in the survey. Vehicle counts recorded 45,122 vehicles.

Figure 15 shows the mode of travel used by survey participants to travel to and from the University of Texas – El Paso. Approximately 80 percent were drivers or passengers of cars, trucks, or vans. Eight percent reported using some other form of transportation. The average vehicle occupancy was 1.0 persons for employee trips, 1.2 persons for student trips, and 1.2 persons for visitor trips.

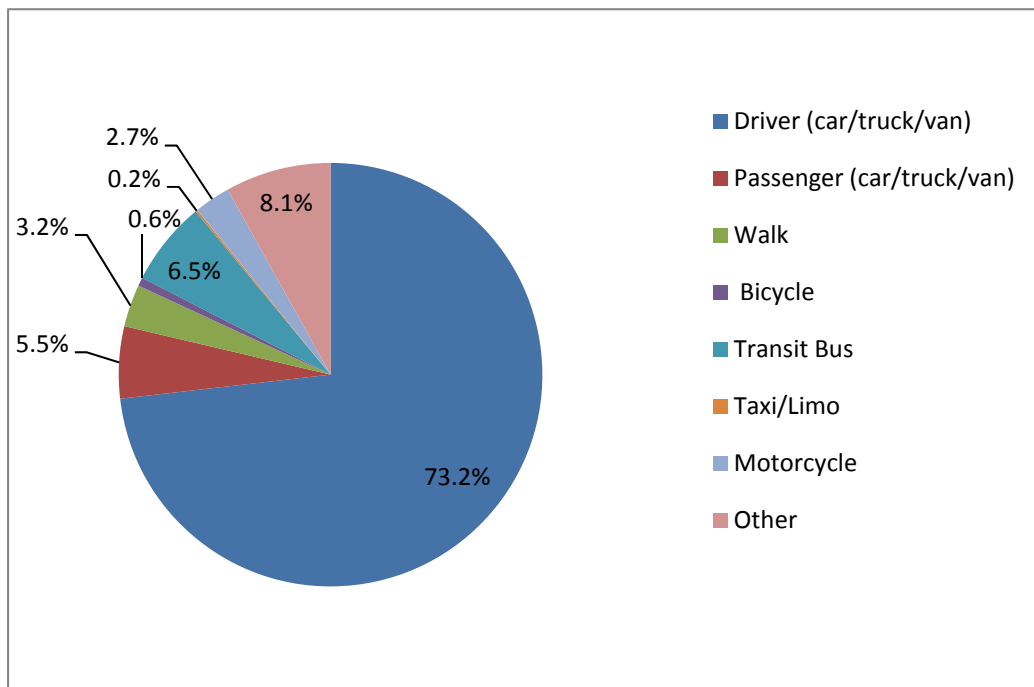


Figure 15. Mode of Travel to and from the University of Texas – El Paso.

Table 30 shows the number and percentage of surveyed trips to and from the University of Texas – El Paso by trip purpose. Table 31 and Table 32 show the inter-zonal trip lengths and travel times to and from the University of Texas – El Paso by trip purpose for person and vehicle trips, respectively. The average trip length and average travel time per person trip was 10.3 miles and 16.9 minutes, respectively. The average trip length and average travel time per vehicle trip was 10.6 miles and 17.4 minutes.

Table 30. Surveyed Total Trips to and from the Univeristy of Texas – El Paso by Trip Purpose.

Trip Purpose	To Work Place	From Work Place	Number of Trips	Percent of Total
HBW	30	24	54	4.36
HBNW	530	467	997	80.53
NHB-D	21	0	21	1.70
NHB-O	0	90	90	7.27
EXT-D	0	0	0	0.00
EXT-O	0	0	0	0.00
NON RES	38	38	76	6.14
Total	619	619	1238	100.00

Table 31. Surveyed Inter-Zonal Trip Length to the Univerity of Texas – El Paso by Trip Purpose.

Trip Purpose	Total Person Miles	Number of Person Trips	Average Person Miles	Total Vehicle Miles	Number of Vehicle Trips	Average Vehicle Miles
HBW	10,297	989	10.41	8,005	744	10.76
HBNW	18,988	1,840	10.32	13,870	1,300	10.67
NHB-D	3,248	340	9.55	2,390	243	9.84
NON RES	225	20	11.23	109	12	9.08
Total	32,757	3,189	10.27	24,374	2,299	10.60

Table 32. Surveyed Inter-Zonal Travel Time to the Univerity of Texas – El Paso by Trip Purpose.

Trip Purpose	Total Person Minutes	Number of Person Trips	Average Person Minutes	Total Vehicle Minutes	Number of Vehicle Trips	Average Vehicle Minutes
HBW	16,989	989	17.18	13,140	744	17.66
HBNW	31,215	1,840	16.96	22,650	1,300	17.42
NHB-D	5,360	340	15.76	3,931	243	16.18
NON RES	5,725	345	16.59	4,456	255	17.47
Total	59,289	3,514	16.87	44,177	2,542	17.38

Fort Bliss

A total of 662 employees, and 299 non-employees participated in the survey. Vehicle counts recorded 61,094 vehicles.

Figure 16 shows the mode of travel used by survey participants to travel to and from Fort Bliss. The majority were drivers or passengers of cars, trucks, or vans. The average vehicle occupancy was 1.4 persons for employee trips and 1.6 persons for visitor trips.

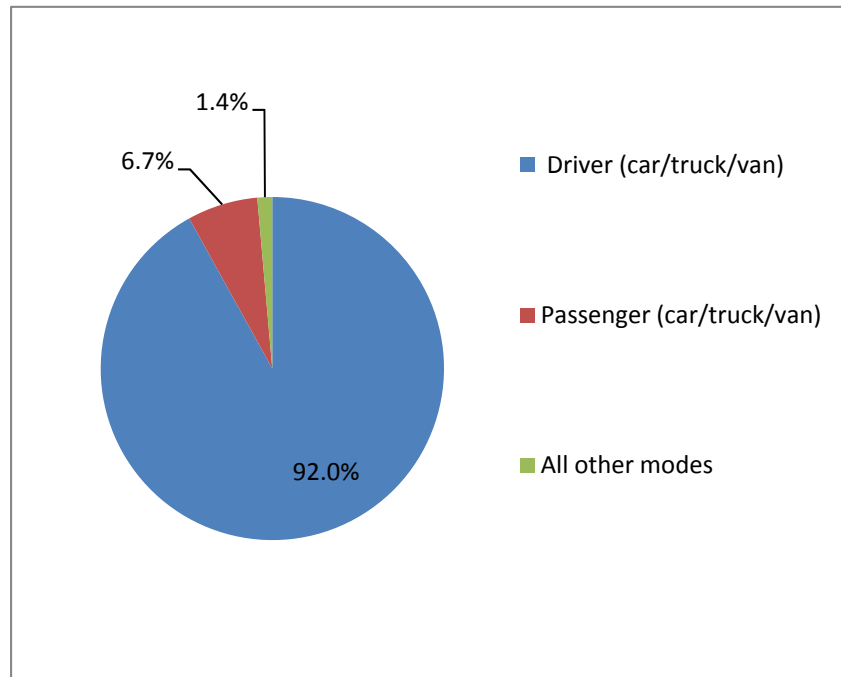


Figure 16. Mode of Travel to and from Fort Bliss.

Table 30 shows the number and percentage of surveyed trips to and from Fort Bliss by trip purpose. Table 31 and Table 32 show the inter-zonal trip lengths and travel times to and from Fort Bliss by trip purpose for person and vehicle trips, respectively. The average trip length and average travel time per person trip was 7.3 miles and 13.3 minutes, respectively. The average trip length and average travel time per vehicle trip was 7.3 miles and 13.3 minutes.

Table 33. Surveyed Total Trips to and from Fort Bliss by Trip Purpose.

Trip Purpose	To Work Place	From Work Place	Number of Trips	Percent of Total
HBW	537	475	1,012	52.65
HBNW	321	255	576	29.97
NHB-D	77	0	77	4.01
NHB-O	0	204	204	10.61
EXT-D	0	1	1	0.05
EXT-O	0	0	0	0.00
NON RES	26	26	52	2.71
Total	961	961	1,922	100.00

Table 34. Surveyed Inter-Zonal Trip Length to and from Fort Bliss by Trip Purpose.

Trip Purpose	Total Person Miles	Number of Person Trips	Average Person Miles	Total Vehicle Miles	Number of Vehicle Trips	Average Vehicle Miles
HBW	10,465	1,305	8.02	7,416	949	7.81
HBNW	7,084	908	7.80	4,018	519	7.74
NHB	1,699	400	4.25	1,084	231	4.69
NON RES	180	38	4.75	83	17	4.87
Total	19,429	2,651	7.33	12,600	1,716	7.34

Table 35. Surveyed Inter-Zonal Travel Time to Fort Bliss by Trip Purpose.

Trip Purpose	Total Person Minutes	Number of Person Trips	Average Person Minutes	Total Vehicle Minutes	Number of Vehicle Trips	Average Vehicle Minutes
HBW	18,837	1,305	14.43	13,408	949	14.13
HBNW	12,764	908	14.06	7,247	519	13.96
NHB	3,313	400	8.28	2,077	231	8.99
NON RES	334	38	8.79	152	17	8.92
Total	35,249	2,651	13.30	22,884	1,716	13.34

COMMERCIAL VEHICLE COUNTS

The commercial vehicle counts involved counting the number of cargo and service vehicles traveling to or from the surveyed establishments during the work place travel survey day. The counts were conducted using ACRs or manual counts. The counts were initiated one hour prior to intercept surveying and completed one hour after intercept surveying.

Figure 17 shows the percentage of commercial vehicle counts by employment type, while Table 36 shows the distribution of commercial vehicle counts by area type and employment type. The results show that over 40 percent of the total commercial vehicle counts were at urban establishments.

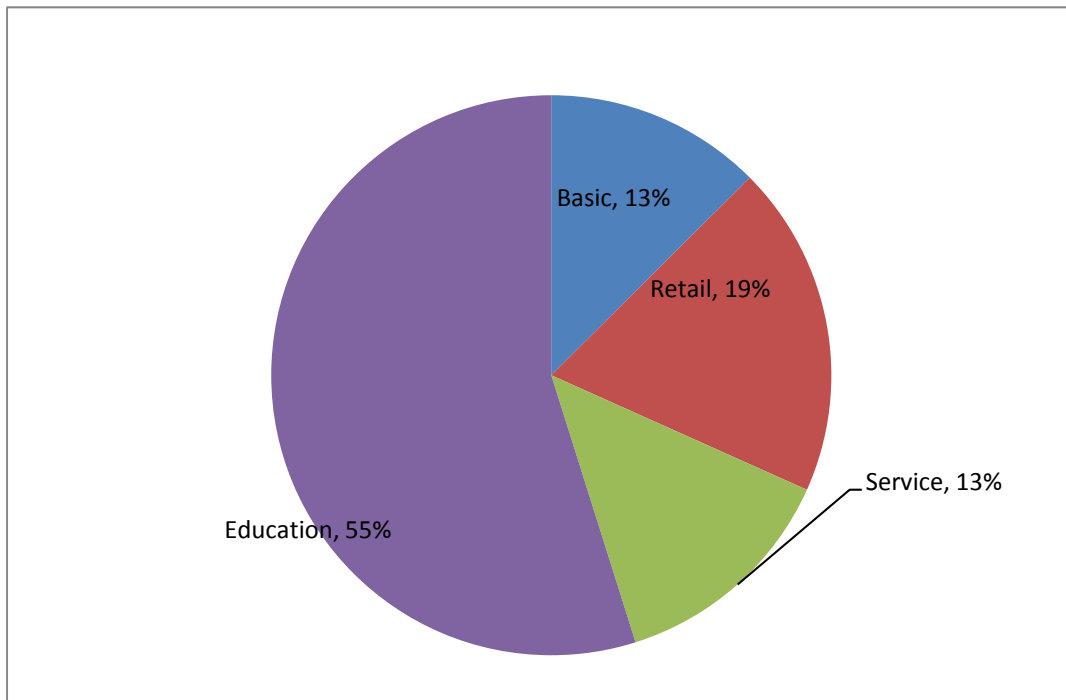


Figure 17. Commercial Vehicle Counts by Employment Type.

Table 36. Commercial Vehicle Counts by Area Type Employment Type.

Area Type	Basic	Retail	Service	Education	Total
Business District	20	28	78	16	142
Urban Intense	384	714	386	883	2,367
Urban Central	118	60	52	634	864
Sub-Urban	178	360	396	1,212	2,146
Rural	252	294	108	1,422	2,076
Total	952	1,456	1,020	4,167	7,595

SURVEY DATA EXPANSION

The expansion of work place and special generator survey data involved a series of procedures. The trips for each surveyed site were estimated separately for employees and visitors. Each trip was classified by trip purpose, both from the origin to the work place and from the work place to

the destination. The trips for each site were then summed, and stratified by area type and employment type to develop the attraction rate for each category of trip purpose by employment type. Table 37 provides a summary of key work place survey data elements collected for full survey sites stratified by area type and employment type.

Table 37. Work Place Survey Data Summary by Area Type and Employment Type.

Area Type	Item	Basic	Retail	Service	Education	Total
Business District	Number of sites	4	7	23	1	35
	Total employment	45	99	222	80	446
	Employees at work	22	75	184	80	361
	Total person count	124	2,988	4,230	0	7,342
	Total vehicle count	26	68	200	1,596	1,890
	Total commercial vehicle count	20	28	78	16	142
Urban Intense	Number of sites	45	100	100	18	263
	Total employment	978	1,875	4,703	3,047	10,603
	Employees at work	788	1,352	2,806	2,979	7,925
	Total person count	2,042	50,682	9,657	908	63,289
	Total vehicle count	3,052	37,680	10,068	37,782	88,582
	Total commercial vehicle count	384	714	386	883	2,367
Urban Central	Number of sites	14	44	47	30	135
	Total employment	258	481	377	2,425	3,541
	Employees at work	220	331	352	2,356	3,259
	Total person count	230	10,428	2,578	174	13,410
	Total vehicle count	946	14,213	3,954	34,976	54,089
	Total commercial vehicle count	252	294	108	1,422	2,076
Sub-Urban	Number of sites	19	44	33	29	125
	Total employment	792	711	351	2,222	4,076
	Employees at work	693	486	298	2,132	3,609
	Total person count	1,690	17,578	2,230	0	21,498
	Total vehicle count	3,240	21,198	796	38,010	63,244
	Total commercial vehicle count	178	360	396	1,212	2,146
Rural	Number of sites	8	15	7	12	42
	Total employment	168	184	70	849	1,271
	Employees at work	166	130	51	818	1,165
	Total person count	42	6,018	368	330	6,758
	Total vehicle count	540	3,496	1,706	12,655	18,397
	Total commercial vehicle count	118	60	52	634	864
Total	Number of sites	90	210	210	90	600
	Total employment	2,241	3,350	5,723	8,623	19,937
	Employees at work	1,889	2,374	3,691	8,365	16,319
	Total person count	4,128	87,694	19,063	1,412	112,297
	Total vehicle count	7,804	76,655	16,724	125,019	226,202
	Total commercial vehicle count	952	1,456	1,020	4,167	7,595

Table 38 and Table 39 show the expanded person and vehicle trip attraction rates, respectively. Table 40 shows the expanded commercial vehicle trip attraction rates. The external trips have been removed from the remaining tables, because they are estimated using the external station survey that was conducted in the El Paso study area and input to the travel demand model directly.

Trip rates were calculated by dividing the number of vehicle and person trips by trip purpose for each category of area type and employment type with the total employment of the same area type and employment type. The trip rates for commercial vehicles were calculated by dividing the commercial vehicle counts by the total employment.

Table 38. Expanded Person Trip Attraction Rates.

Trip Purpose	Area Type	Person Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	Business District	1.067	1.030	1.135	1.688
	Urban Intense	1.166	1.334	0.950	1.714
	Urban Central	1.213	1.135	1.623	2.021
	Sub-Urban	1.604	1.421	1.407	1.703
	Rural	2.012	1.283	1.014	1.570
HBNW Retail	Business District		16.990		
	Urban Intense		39.531		
	Urban Central		47.405		
	Sub-Urban		48.851		
	Rural		51.745		
HBNW Other Attractions	Business District	0.956		12.207	
	Urban Intense	1.781		3.068	
	Urban Central	1.760		11.660	
	Sub-Urban	4.333		4.681	
	Rural	1.726		22.357	
HBNW School Attractions	Business District				28.525
	Urban Intense				14.124
	Urban Central				16.731
	Sub-Urban				23.431
	Rural				23.776
NHB	Business District	0.689	5.298	2.773	5.894
	Urban Intense	0.813	6.164	0.445	2.196
	Urban Central	0.814	7.604	2.554	2.236
	Sub-Urban	0.658	11.049	1.554	2.456
	Rural	0.211	3.497	8.950	1.573
NON-RES	Business District	0.089	0.596	0.435	4.563
	Urban Intense	0.547	1.984	0.085	0.056
	Urban Central	0.359	1.519	0.118	0.182
	Sub-Urban	0.235	4.608	0.123	0.051
	Rural	*	2.582	0.071	*

* No Observation.

Table 39. Expanded Vehicle Trip Attraction Rates.

Trip Purpose	Area Type	Vehicle Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	Business District	0.889	0.899	1.126	1.475
	Urban Intense	1.136	1.226	0.859	1.394
	Urban Central	1.105	1.071	1.565	1.793
	Sub-Urban	1.480	1.233	1.251	1.502
	Rural	1.940	1.196	1.014	1.463
HBNW Retail	Business District		13.030		
	Urban Intense		31.523		
	Urban Central		38.651		
	Sub-Urban		29.914		
	Rural		36.495		
HBNW Other Attractions	Business District	0.600		13.284	
	Urban Intense	1.563		2.142	
	Urban Central	1.275		12.321	
	Sub-Urban	3.052		4.373	
	Rural	1.167		18.229	
HBNW School Attractions	Business District				11.275
	Urban Intense				8.199
	Urban Central				9.471
	Sub-Urban				12.995
	Rural				11.889
NHB	Business District	0.489	4.662	2.563	2.600
	Urban Intense	0.694	4.577	0.408	1.475
	Urban Central	0.653	6.242	2.406	1.462
	Sub-Urban	0.392	7.454	1.236	1.259
	Rural	0.134	2.617	4.357	0.891
NON-RES	Business District	0.033	0.884	0.667	0.813
	Urban Intense	0.370	2.234	0.048	0.051
	Urban Central	0.283	0.935	0.107	0.139
	Sub-Urban	0.171	4.716	0.120	0.045
	Rural	*	1.152	0.071	*

* No Observation.

Table 40. Expanded Commercial Vehicle Attraction Rates.

Area Type	Commercial Vehicles			
	Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
Business District	0.444	0.283	0.351	0.200
Urban Intense	0.393	0.381	0.082	0.290
Urban Central	0.977	0.611	0.286	0.586
Sub-Urban	0.225	0.506	1.128	0.545
Rural	0.702	0.326	0.743	0.747

Table 41 shows the El Paso Special Generator Survey data expansion results. The expansion procedures used were similar to the El Paso Work Place Survey expansion except that the surveyed trips were stratified only by trip purpose given that the area type and employment type for each special generator were already established.

Table 41. Expanded Special Generator Raw Trips and Attraction Rates.¹

Trip Purpose	Person Trips	Person Trip Rates	Vehicle Trips	Vehicle Trip Rates
El Paso International Airport				
HBW Attractions	1,389	1.73625	1,246	1.558
HBNW Attractions	30,522	38.1525	17,125	21.406
NHB	1,997	2.49625	1,211	1.514
NON-RES	6,147	7.68375	3,532	4.415
Commercial Vehicle Trips	1,647	2.05875	1,647	2.059
Total	41,702	52.128	24,761	30.951
Thomason General Hospital-UMC				
HBW Attractions	4,070	1.938	3,365	1.602
HBNW Attractions	26,875	12.798	12,908	6.147
NHB	1,294	0.616	860	0.409
NON-RES	326	0.155	205	0.098
Commercial Vehicle Trips	817	0.389	817	0.389
Total	33,382	15.896	18155	8.645
Cielo Vista Mall				
HBW Attractions	1,786	1.488	1,558	1.298
HBNW Attractions	25,696	21.413	14,579	12.149
NHB	4,336	3.613	2,607	2.173
NON-RES	2,776	2.313	1,405	1.171
Commercial Vehicle Trips	434	0.362	434	0.362
Total	35,027	29.189	20,583	17.153
University of Texas El Paso				
HBW Attractions	5,264	1.316	5,264	1.316
HBNW Attractions	36,384	9.096	32,732	8.183
NHB	2,637	0.659	2,317	0.579
NON-RES	1,475	0.369	1,247	0.312
Commercial Vehicle Trips	2,545	0.636	2,545	0.636
Total	48,305	12.076	44,105	11.026
Fort Bliss				
HBW Attractions	6,054	2.422	5,063	2.025
HBNW Attractions	68,873	27.549	43,707	17.483
NHB	6,307	2.523	4,515	1.806
NON-RES	3,480	1.392	1,595	0.638
Commercial Vehicle Trips	3,055	1.222	3,055	1.222
Total	87,769	35.107	57,935	23.174

¹ This rate represents attractions per employee.

Model Rate Development

The work place survey data must be converted into recommended attraction rates to be used as inputs to the travel demand model. Attraction rates, defined as the estimated number of trips per employee attracted to a site and/or zone, were developed for each trip purpose, area type, and employment type. The rates shown in Table 42 and Table 43 show the adjusted trip attraction rates for each category of trip purpose by area type and employment type, respectively. They required some adjustments in the estimation process to generate results that were more representative of the population. To normalize the distribution of observations across area types in each category of employment, adjustments were made by combining adjacent cells and allocating the number of observations for each item equally among the combined cells.

Table 42. Adjusted Survey Person Trip Rates.

Trip Purpose	Area Type	Person Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	Business District	1.067	1.030	1.135	1.688
	Urban Intense	1.166	1.334	0.950	1.714
	Urban Central	1.213	1.135	1.623	2.021
	Sub-Urban	1.604	1.421	1.407	1.703
	Rural	2.012	1.283	1.014	1.570
HBNW Retail	Business District		16.990		
	Urban Intense		39.531		
	Urban Central		47.405		
	Sub-Urban		48.851		
	Rural		51.745		
HBNW Other Attractions	Business District	0.956		12.207	
	Urban Intense	1.781		3.068	
	Urban Central	1.760		11.660	
	Sub-Urban	4.333		4.681	
	Rural	1.726		22.357	
HBNW School Attractions	Business District				28.525
	Urban Intense				14.124
	Urban Central				16.731
	Sub-Urban				23.431
	Rural				23.776
NHB	Business District	0.689	5.298	2.773	5.894
	Urban Intense	0.813	6.164	0.445	2.196
	Urban Central	0.814	7.604	2.554	2.236
	Sub-Urban	0.658	11.049	1.554	2.456
	Rural	0.211	3.497	8.950	1.573
NON-RES	Business District	0.089	0.596	0.435	4.563
	Urban Intense	0.547	1.984	0.085	0.056
	Urban Central	0.359	1.519	0.118	0.182
	Sub-Urban	0.235	4.608	0.123	0.051
	Rural	0.235	2.582	0.071	0.051

Table 43. Adjusted Survey Vehicle Trip Rates.

Trip Purpose	Area Type	Vehicle Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	Business District	0.889	0.899	1.126	1.475
	Urban Intense	1.136	1.226	0.859	1.394
	Urban Central	1.105	1.071	1.565	1.793
	Sub-Urban	1.480	1.233	1.251	1.502
	Rural	1.940	1.196	1.014	1.463
HBNW Retail Attractions	Business District		13.030		
	Urban Intense		31.523		
	Urban Central		38.651		
	Sub-Urban		29.914		
	Rural		36.495		
HBNW Other Attractions	Business District	0.600		13.284	
	Urban Intense	1.563		2.142	
	Urban Central	1.275		12.321	
	Sub-Urban	3.052		4.373	
	Rural	1.167		18.229	
HBNW School Attractions	Business District				11.275
	Urban Intense				8.199
	Urban Central				9.471
	Sub-Urban				12.995
	Rural				11.889
NHB	Business District	0.489	4.662	2.563	2.600
	Urban Intense	0.694	4.577	0.408	1.475
	Urban Central	0.653	6.242	2.406	1.462
	Sub-Urban	0.392	7.454	1.236	1.259
	Rural	0.134	2.617	4.357	0.891
NON-RES	Business District	0.033	0.884	0.667	0.813
	Urban Intense	0.370	2.234	0.048	0.051
	Urban Central	0.283	0.935	0.107	0.139
	Sub-Urban	0.171	4.716	0.120	0.045
	Rural	0.171	1.152	0.071	0.045

Table 44 and Table 45 show the raw total person and vehicle trip rates for all area types by trip purpose and employment type, respectively.

Table 44. Survey Person Trip Rates.

Employment Type	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Basic	1.39	2.66	0.71	0.37	5.12
Retail	1.31	42.64	7.24	2.47	53.66
Service	1.03	4.32	0.85	0.10	6.30
Education	1.78	18.34	2.25	0.13	22.50

Table 45. Survey Vehicle Trip Rates.

Employment Type	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Vehicle Trips
Basic	1.29	2.00	0.53	0.25	4.07
Retail	1.19	31.93	5.32	2.47	40.92
Service	0.94	3.58	0.72	0.08	5.32
Education	1.54	10.18	1.37	0.08	13.17

The next step in the development of trip rates involved the estimation of total person and vehicle trips by applying the trip attraction rates provided in Table 44 and Table 45 to the total employment estimates for the El Paso study area, shown in Table 46.

Table 46. Number of Establishments and Total Employment in the El Paso Study Area by Employment Type.

Employment Type	Number of Establishments	Reported Total Employment
Basic	3,799	67,304
Retail	3,301	57,587
Service	6,435	103,077
Education	370	19,481
Total	13,905	247,449

Table 47 and Table 48 show the estimated total person and vehicle trip attractions by employment type and trip purpose for the El Paso study area, respectively.

Table 47. Total Person Trip Attractions by Employment Type and Trip Purpose.

Employment Type	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Basic	93,373	179,027	47,828	24,567	344,794
Retail	75,568	2,455,768	416,672	142,008	3,090,015
Service	106,247	445,628	87,254	10,590	649,720
Education	34,737	357,266	43,780	2,465	438,248
Total	309,925	3,437,689	595,534	179,630	4,522,777

Table 48. Total Vehicle Trip Attractions by Employment Type and Trip Purpose.

Employment Type	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Vehicle Trips
Basic	86,916	134,278	35,439	17,119	273,751
Retail	68,743	1,838,830	306,449	142,515	2,356,537
Service	97,097	368,829	74,449	8,267	548,642
Education	30,038	198,404	26,663	1,482	256,588
Total	282,795	2,540,342	442,999	169,383	3,435,518

Table 49 shows the commercial vehicle trip attraction rates and total commercial vehicle attractions by employment type.

Table 49. Total Commercial Vehicle Trip Attractions by Employment Type.

Employment Type	Total Commercial Vehicle Trip Attraction Rates	Total Commercial Vehicle Trip Attractions
Basic	0.42	28,591
Retail	0.43	25,029
Service	0.18	18,371
Education	0.48	9,414
Total	0.38	81,406

The estimated expanded trip attractions from the work place survey were then compared with the estimated expanded trip productions from the household survey and commercial vehicle survey. Table 50 provides a summary of travel estimates from the travel surveys conducted in the El Paso study area. The results show significant differences in trip attractions and productions across trip purposes for both the work place survey and household travel survey estimates.

Table 50. Raw Travel Estimates for the El Paso Study Area.

Trip Purpose	Work Place Survey		Household Survey		Commercial Vehicle Survey
	Person	Vehicle	Person	Vehicle	Vehicle
HBW	309,925	282,795	385,044	357,056	-
HBNW Retail	2,455,768	1,838,830	420,356	281,992	-
HBNW Other	624,655	503,107	573,913	368,948	-
HBNW School	357,266	198,404	700,195	82,216	-
NHB	595,534	442,999	623,334	395,415	-
NON-RES	179,630	169,383	-	-	-
Commercial Vehicles	-	81,406	-	-	159,657

The attraction rates by trip purpose from the work place survey required further adjustments to balance the aggregate estimates of trip attractions with the aggregate estimates of trip productions from the household survey and commercial vehicle survey. Correction factors for trips were calculated by dividing the number of person and vehicle trips from the household survey with the number of person and vehicle trips from the work place survey. The NHB destination and origin trips from the work place survey were summed and averaged to reflect the adjustment when calculating the correction factor for NHB destination trips from the household survey.

The NON-RES trips from the work place survey were calculated, summed, averaged, and divided by the total employment. The resulting rates were applied to the employment data to develop an estimate of the total internal trips made by persons that did not live in the study area.

A general estimate for non-resident travel in an urban area is about 5-to-10 percent of the household internal travel. Applying this percentage to the total household person trips of 2,702,842 yields an estimated range of 135,142 to 270,284. The total non-resident travel from the work place survey, when converted to trip productions and attractions, yield an estimate of 179,630 person trips. These person estimates (and the accompanying vehicle trip estimate in Table 53) are recommended for use in the travel demand model for non-resident travel.

Table 51 and Table 52 show the recommended person and vehicle trip attraction rates by area type for each category of trip purpose and employment type, respectively. In addition to the adjustment factors developed from the trip balancing, manual smoothing of trip rates was also used in developing the recommended attraction rates. This procedure was by no means ideal, and

required careful judgment based on visual plots of the trip rates by trip purpose, area type, and employment type, and making adjustments to produce smoother curves and yield trip estimates that matched the initial total trip attraction estimates.

Table 51. Recommended Person Trip Attraction Rates.

Trip Purpose	Area Type	Person Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	Business District	1.32	1.60	1.40	1.20
	Urban Intense	1.45	1.60	1.40	1.06
	Urban Central	1.57	1.50	1.57	0.95
	Sub-Urban	2.00	1.55	1.58	0.90
	Rural	2.47	1.53	1.20	0.83
HBNW Retail	Business District		8.06		
	Urban Intense		18.75		
	Urban Central		22.49		
	Sub-Urban		23.17		
	Rural		24.55		
HBNW Other Attractions	Business District	0.86		2.90	
	Urban Intense	0.86		3.70	
	Urban Central	0.85		4.76	
	Sub-Urban	1.40		6.00	
	Rural	0.83		6.50	
HBNW School Attractions	Business District				8.00
	Urban Intense				6.00
	Urban Central				4.72
	Sub-Urban				3.80
	Rural				3.70
NHB	CBD	0.80	7.10	1.85	1.00
	CBD Fringe	0.75	6.95	0.95	0.87
	Urban	0.70	7.10	1.10	0.88
	Sub-Urban	0.64	8.10	1.35	0.97
	Rural	0.59	4.10	3.44	0.63

Table 52. Recommended Vehicle Trip Attraction Rates.

Trip Purpose	Area Type	Person Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	Business District	1.20	1.30	1.39	1.10
	Urban Intense	1.40	1.55	1.30	0.90
	Urban Central	1.57	1.41	1.45	0.86
	Sub-Urban	2.00	1.40	1.57	0.81
	Rural	2.05	1.40	1.13	0.79
	HBNW Retail	Business District		3.46	
Urban Intense			8.02		
Urban Central			10.15		
Sub-Urban			10.40		
Rural			9.50		
HBNW Other Attractions		Business District	0.30		1.70
	Urban Intense	0.47		1.50	
	Urban Central	0.50		2.28	
	Sub-Urban	0.75		3.30	
	Rural	0.38		3.80	
	HBNW School Attractions	Business District			
Urban Intense					3.43
Urban Central					2.55
Sub-Urban					2.90
Rural					2.80
NHB		Business District	0.60	4.25	1.45
	Urban Intense	0.55	4.25	0.55	0.60
	Urban Central	0.51	5.00	0.70	0.60
	Sub-Urban	0.45	5.00	1.05	0.51
	Rural	0.40	3.48	3.02	0.37

Table 53 shows the recommended commercial vehicle trip attraction rates. These rates were developed using the raw commercial vehicle trip rates from the work place survey and were adjusted and balanced with the total internal commercial vehicle trip estimates developed from the commercial vehicle survey. Table 54 shows the estimated commercial vehicle trips.

Table 53. Recommended Commercial Vehicle Trip Attraction Rates.

Area Type	Commercial Trips			
	Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
Business District	0.17	0.15	0.22	0.44
Urban Intense	0.93	0.79	0.32	0.62
Urban Central	0.93	1.43	0.49	0.80
Sub-Urban	0.92	0.69	0.33	1.42
Rural	0.38	1.09	1.08	1.14
Average	0.66	0.83	0.49	0.88

Table 54. Total Commercial Vehicle Trip Attractions.

Area Type	Employment Type				Total Vehicle Trips
	Basic	Retail	Service	Education	
Business District	687	837	4,858	5	6,388
Urban Intense	29,046	26,446	16,208	3,201	74,902
Urban Central	12,408	16,477	7,931	5,784	42,601
Sub-Urban	11,791	3,612	3,568	7,202	26,173
Rural	2,140	1,715	3,465	2,270	9,591
Total	56,074	49,088	36,030	18,463	159,655

SURVEY SUMMARY

In 2010, the TPP Division of TxDOT funded a work place and special generator survey in the El Paso MPO study area. The purpose of the survey was to collect data on the travel characteristics of employees and non-employees at basic, retail, service, and education establishments that would enable TxDOT to develop and/or update trip attraction models to forecast travel demand within the El Paso area.

The work place survey consisted of four data collection efforts, which involved a general establishment survey, an intercept interview survey, a person or vehicle count, and a commercial vehicle count. The survey establishments were classified as either full survey sites or partial survey sites. The full survey sites consisted of 300 establishments with a total reported employment of 7,367. A total of 2,702 employees and 6,463 non-employees/visitors participated in the intercept interviews. The partial survey sites consisted of 300 establishments with a total reported employment of 12,570. The partial sites did not include intercept interview surveys. The survey findings indicated that approximately 112,297 persons and 226,202 non-commercial vehicles were traveling to and from the surveyed establishments during the travel survey period. More than 7595 commercial vehicles were observed to have entered and exited the surveyed establishments during their normal operating hours.

The special generator survey included five special generators – one mall (Cielo Vista Mall), one airport (El Paso International Airport), one hospital (Thomason General Hospital - UMC), one University (University of Texas El Paso), and one military installation (Fort Bliss). The total reported employment at these four special generators was 10,600, of which 9,800 employees were estimated to be at work during the travel survey day. A total of 1,499 employees and 2,104 non-employees participated in the intercept interview survey, which generated a total of 7,206 trips from the trip origin to the establishment and from the establishments to the destination. There were 177,642 non-commercial vehicles and 8,498 commercial vehicles observed to be entering and exiting the surveyed establishments during their normal operating hours.

The expansion of work place and special generator survey data involved a series of procedures to develop the trip rate estimates for each category of trip purpose based on employment data. In the final analysis, the aggregate estimates of trip attractions from the work place survey were compared with the aggregate estimates of trip productions from the household survey, and

further adjustments were made to balance the estimated trip attractions with the estimated trip productions. The attraction rates for commercial vehicle trips were developed using commercial vehicle counts from the surveyed establishments, and were balanced with the data from the commercial vehicle survey.

Adjustments made to the observed trip rates are highly sensitive to the amount of employment and distribution of employment. Therefore, the recommended attraction rates presented in this report may require further adjustments during the calibration phase of the travel demand model for the El Paso study area to achieve results that are more acceptable.

**APPENDIX A:
DATA TABLES**

Tables B1 and B2 show the expanded person and vehicle trip attractions for each category of employment by area type and trip purpose, respectively.

Table B1: Survey Person Trips by Trip Purpose, Area Type and Employment Type.

Area Type	BASIC				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Business District	48	43	31	4	126
Urban Intense	1,140	1,742	795	535	4,212
Urban Central	313	454	210	93	1,070
Sub-Urban	1,270	3,432	521	187	5,410
Rural	338	290	36	0	664
Total	3,109	5,961	1,593	818	11,481
Area Type	RETAIL				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Business District	102	1,682	525	59	2,368
Urban Intense	2,502	74,121	11,558	3,720	91,901
Urban Central	546	22,802	3,658	731	27,736
Sub-Urban	1,010	34,733	7,856	3,277	46,875
Rural	236	9,521	644	475	10,876
Total	4,396	142,859	24,239	8,261	179,755
Area Type	SERVICE				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Business District	252	2,710	616	97	3,674
Urban Intense	4,470	14,428	2,094	399	21,391
Urban Central	612	4,396	963	45	6,016
Sub-Urban	494	1,643	546	43	2,726
Rural	71	1,565	627	5	2,268
Total	5,899	24,742	4,845	588	36,074
Area Type	EDUCATION				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Business District	135	2,282	472	365	3,254
Urban Intense	5,223	43,035	6,692	172	55,122
Urban Central	4,900	40,572	5,424	441	51,337
Sub-Urban	3,785	52,064	5,457	113	61,419
Rural	1,333	20,186	1,336	0	22,855
Total	15,376	158,139	19,379	1,091	193,985
Area Type	TOTAL				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Business District	537	6,717	1,643	525	9,421
Urban Intense	13,335	133,326	21,139	4,826	172,626
Urban Central	6,371	68,224	10,254	1,309	86,158
Sub-Urban	6,559	91,872	14,379	3,619	116,429
Rural	1,978	31,562	2,641	480	36,661
Total	28,780	331,701	50,055	10,758	421,294

Table B2: Survey Vehicle Trips by Trip Purpose, Area Type and Employment Type.

Area Type	BASIC				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Vehicle Trips
Business District	40	27	22	2	91
Urban Intense	1,111	1,529	679	362	3,680
Urban Central	285	329	169	73	856
Sub-Urban	1,172	2,417	311	136	4,035
Rural	326	196	23	0	545
Total	2,894	4,471	1,180	570	9,115
Area Type	RETAIL				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Vehicle Trips
Business District	89	1,290	462	88	1,928
Urban Intense	2,298	59,105	8,582	4,189	74,174
Urban Central	515	18,591	3,003	450	22,558
Sub-Urban	877	21,269	5,300	3,353	30,799
Rural	220	6,715	482	212	7,629
Total	3,999	106,970	17,827	8,291	137,087
Area Type	SERVICE				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Vehicle Trips
Business District	250	2,949	569	148	3,916
Urban Intense	4,041	10,073	1,919	224	16,256
Urban Central	590	4,645	907	41	6,183
Sub-Urban	439	1,535	434	42	2,450
Rural	71	1,276	305	5	1,657
Total	5,391	20,478	4,134	459	30,462
Area Type	EDUCATION				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Vehicle Trips
Business District	118	902	208	65	1,293
Urban Intense	4,249	24,983	4,494	154	33,880
Urban Central	4,349	22,968	3,547	338	31,201
Sub-Urban	3,338	28,874	2,798	100	35,109
Rural	1,242	10,094	757	0	12,093
Total	13,296	87,821	11,802	656	113,575
Area Type	TOTAL				
	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Vehicle Trips
Business District	497	5,168	1,261	302	7,228
Urban Intense	11,699	95,690	15,673	4,928	127,989
Urban Central	5,739	46,533	7,625	901	60,797
Sub-Urban	5,826	54,095	8,842	3,630	72,393
Rural	1,859	18,281	1,566	217	21,923
Total	25,620	219,767	34,965	9,977	290,329

Table B3 and B4 show the survey total person and vehicle trip attractions by trip purpose and employment type, respectively.

Table B3. Total Survey Person Trips.

Employment Type	HBW	HBNW	NHB	NON-RES	Total Person Trips
Basic	3,109	5,961	1,593	818	11,481
Retail	4,396	142,859	24,239	8,261	179,755
Service	5,899	24,742	4,845	588	36,074
Education	15,376	158,139	19,379	1,091	193,985
Total	28,780	331,701	50,055	10,758	421,294

Table B4. Total Survey Vehicle Trips.

Employment Type	HBW	HBNW	NHB	NON-RES	Total Vehicle Trips
Basic	2,894	4,471	1,180	570	9,115
Retail	3,999	106,970	17,827	8,291	137,087
Service	5,391	20,478	4,134	459	30,462
Education	13,296	87,821	11,802	656	113,575
Total	25,580	219,740	34,943	9,976	290,238

Tables B5 and B6 show the recommended person and vehicle attraction rates for all area types by employment type, respectively. Tables B7 and B8 provide the estimated total person and vehicle trip attractions using the recommended trip rates, respectively. The total trip attractions were equivalent to the total trip productions as a result of the trip balancing for HBW, HBNW, NHB and NON-RES trip purposes.

Table B5. Recommended Person Attraction Rates by Employment Type

Employment Type	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total
Basic	1.76	0.75	0.70	0.22	3.43
Retail	1.56	19.40	6.67	2.54	30.17
Service	1.43	4.77	1.74	0.37	8.31
Education	0.99	5.24	0.87	0.63	7.73

Table B6. Recommended Vehicle Attraction Rates by Employment Type

Employment Type	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total
Basic	1.64	0.48	0.50	0.15	2.78
Retail	1.41	8.31	4.40	1.95	16.06
Service	1.37	2.52	1.35	0.37	5.61
Education	0.89	3.24	0.54	0.17	4.83

Table B7. Estimated Total Person Trips by EmploymentType

Employment Type	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Basic	98,818	36,869	25,084	3,988	164,759
Retail	87,285	952,470	240,345	46,823	1,326,922
Service	80,213	234,288	62,627	6,850	383,978
Education	55,320	257,389	31,359	11,576	355,644
Total	321,636	1,481,016	359,415	69,237	2,231,303

Table B8. Estimated Total Person Trips by EmploymentType

Employment Type	HBW Attractions	HBNW Attractions	NHB	NON-RES	Total Person Trips
Basic	92,181	23,530	18,098	2,788	136,597
Retail	79,194	407,734	158,384	35,929	681,241
Service	76,751	123,492	48,770	6,850	255,862
Education	49,973	158,811	19,347	3,139	231,270
Total	298,098	713,567	244,599	48,706	1,304,970

**APPENDIX B:
SURVEY FORMS**

**EL PASO
WORK PLACE RECRUITMENT SURVEY**

Record RSE

Form G

SAMPLE NUMBER: _____ RECRUITER: _____
DATE: ____/____/____ COMPANY NAME: _____
ADDRESS: _____
CONTACT NAME / POSITION: _____ / _____
COMPANY PHONE: _____ FAX NUMBER: _____
EMPLOYMENT TYPE: _____ TRANSPORTATION ANALYSIS ZONE (TAZ #): _____

Hello, my name is _____ from (vendor name). We are working with the Texas Department of Transportation to collect travel data at area businesses. May I speak to the owner or manager, please?

(If you have to call back, get):

The manager or owner's name: _____

And, a good time to call back: _____

(If you are transferred to the owner or manager, repeat):

Hello, my name is _____ from (vendor name). We are working with the Texas Department of Transportation to collect travel data at area businesses. Your business has been randomly selected to participate in this data collection effort because TxDOT needs information about where traffic is being generated. Do you have time for me to explain how the data collection would work? It will take about 3 minutes.

If yes, continue. If NO, when can I call back? _____

If a refusal, ask if they can provide some information to assist in this study, if yes ask preliminary questions, if no thank them.

- For one single day, we would have a person outside of your business, a discrete distance away from your business. After visitors and employees leave your business, we would ask them politely to answer a few questions about where they came from and where they are going to.

Would you be willing to participate in this data collection effort?

If yes, ask:

We'll need to coordinate with someone at your workplace on the survey day. Should we coordinate with you or is there someone else you would like us coordinate with on the day of the survey?

(Name: _____). Then ask the Preliminary Questions.

If no, ask: I just explained the longer version of our data collection effort. Would you be willing to allow us to just place traffic counters at the entrances to your business? In this case, no one would ask your visitors or employees any questions, but we could still get data on the amount of traffic your business generates each day.

If the answer is yes,

We'll need to coordinate with someone at your workplace on the survey day. Should we coordinate with you or is there someone else you would like us coordinate with on the day of the survey?

(Name: _____). Tell them that we will call them back in a couple of days to let them know the day we will be there to perform the counts. Thank them and ask the Preliminary Questions.

El Paso Workplace Recruitment Survey Form G (English) - Continued

If they have agreed to participate in the survey, tell them you need to get some preliminary information from them to assist in planning the data collection effort at their location.

If they did not agree to participate in the survey, tell them they can assist the study by answering a few questions about their business and where it is located.

PRELIMINARY QUESTIONS

First, let me verify your address (**front page**).

1. How many full and part time employees are located at your site? EMPLOYEES _____ #
2. On a typical week day, how many persons visit this location? VISITORS _____ #
3. On a typical week day, how many employees do you have working at this location? _____ #
4. What are your hours of operation? FROM _____ am/pm, TO _____ am/pm
5. Are you in a shopping center or in an office building? _____
If yes, are any other companies in the shopping center or office building?
Yes No (circle one)
6. Does the building you are in have its own parking lot? Yes No (circle one)
Is this parking shared between your business and other businesses? Yes No (circle one)
Do people use your parking lot **or driveway** as a cut through to access other businesses?
Yes No (circle one)
7. What time does your first employee arrive? _____:_____ am or _____:_____ pm
8. What time does your last employee leave? _____:_____ am or _____:_____ pm
9. How many deliveries are made at this location on an average day? _____ #
10. What are the delivery hours? FROM _____:_____ am/pm, TO _____:_____ am/pm
11. Do you have a special door for deliveries or for employees? Yes No (circle one)
12. How many vehicles are owned and/or leased by your company for business use in this area? _____ #
How many of these are:
_____ passenger car or sport utility vehicle
_____ pickup truck
_____ van used for cargo delivery or pickup
_____ van used as a service vehicle
If not one of the above categories, how many of these are:
_____ cargo transport vehicles
_____ vehicles used for service or other business purposes

Thank you very much. We will call you in a day or two to schedule an exact date for the data collection. If you have any questions about the survey, please don't hesitate to call _____ at ###-####.

El Paso Workplace Recruitment Survey Form G (English) - Continued

CALL DISPOSITION LOG

Company Name: _____

Keep a record of the calls made to this company below. Indicate if it is an initial call, a call back, a reminder call, a follow-up call, or a form retrieval call. Record notes about what happened during the call.

DATE CALLS

EL PASO

Record 9

WORK PLACE GENERAL SURVEY

Site #: _____

Form A

Survey Date: ____/____/____

NAICS Code: _____

TAZ #: _____

Employment Type: _____

Free Standing

Non-Free Standing

Work Place 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 Vehicle Count: _____ Non-Commercial Vehicle Count: _____ Person Count: _____

Employment Information

Total Employees (Full and Part Time): _____ Number at Work on Survey Day: _____

Delivery Information

Delivery Hours (If Restricted): _____ Number of Deliveries on Day of Survey: _____

Number/Type of Vehicles Owned/Leased for Commercial/Business Purposes

_____ Commercial Cargo Transport Vehicles _____ Commercial Service Vehicles

_____ Cars/SUVs _____ Cargo Vans _____ Service Vans _____ Pickup Trucks

EL PASO

Record E10

WORK PLACE INTERCEPT TRAVEL SURVEY

Free Standing Work Place

Form B

Site #: _____

Address: _____

Location: _____

TAZ #: _____ Survey Area: _____

Date: ____/____/____

Interviewer: _____

Employment Type: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began	_____ am / _____ pm	_____ am / _____ pm
Time interview ended	_____ am / _____ pm	_____ am / _____ pm
1. Do you work in this building or at this location?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. In what city or county do you live?		
3a. Is that in El Paso County? (If YES, go to question 4) 3b. If NO, which roadway did you use to enter the area? (airport is an option)	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____
4. What is your home address or the names of the nearest two intersecting streets?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
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 the trip that brought you to _____?	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ (Address or nearest intersection)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ (Address or nearest intersection)
6a. Is that location in: 6b. If outside of El Paso County, what street or highway were you on when you entered the area?	a. <input type="checkbox"/> El Paso County <input type="checkbox"/> Other county (enter name) _____ b. _____	a. <input type="checkbox"/> El Paso County <input type="checkbox"/> Other county (enter name) _____ b. _____
7. What approximate time did you arrive at this location today?	_____ am / _____ pm	_____ am / _____ pm
8. How did you arrive here at the _____ today? (Choose from Arrival Options)	Arrival Option #: _____ Other: _____	Arrival Option #: _____ Other: _____
Arrival Options: 1) Driver (car/truck/van) 5) Transit Bus 9) Commercial Service Vehicle 2) Passenger (car/truck/van) 6) School Bus 10) Motorcycle 3) Walk 7) Taxi/Paid Limousine 11) Other (Specify) 4) Bicycle 8) Commercial Cargo Transport Vehicle 99) Refused		
9a. If car/truck/van, ask: How many people, including you, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a) # of People _____ b) Fare \$ _____.	a) # of People _____ b) Fare \$ _____.

EL PASO

Record E11

WORK PLACE INTERCEPT TRAVEL SURVEY

Non-Free Standing Work Place

Form C

TAZ #: _____ Survey Area: _____

Site #: _____

Date: ____/____/____

Address: _____

Interviewer: _____

Location: _____

Employment Type: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began	_____ am / _____ pm	_____ am / _____ pm
Time interview ended	_____ am / _____ pm	_____ am / _____ pm
1. Do you work in this building or at this location?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. In what city or county do you live?		
3a. Is that in El Paso County? (If YES, go to question 4)	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b)	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b)
3b. If NO, which roadway did you use to enter the area? (airport is an option)	b. _____	b. _____
4. What is your home address or the names of the nearest two intersecting streets?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
5a. Did you travel here directly from your home with no stops? (If YES, go to Question 7)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b)
5b. If NO, where did you start the trip that brought you to _____?	b. _____ (Address or nearest intersection)	b. _____ (Address or nearest intersection)
6a. Is that location in:	a. <input type="checkbox"/> El Paso County <input type="checkbox"/> Other county (enter name) _____	a. <input type="checkbox"/> El Paso County <input type="checkbox"/> Other county (enter name) _____
6b. If outside of El Paso County, what street or highway were you on when you entered the area?	b. _____	b. _____
7. What approximate time did you arrive at this location today?	_____ am / _____ pm	_____ am / _____ pm
8. How did you arrive here at the _____ today? (Choose from Arrival Options)	Arrival Option #: _____ Other: _____	Arrival Option #: _____ Other: _____
Arrival Options: 1) Driver (car/truck/van) 5) Transit Bus 9) Commercial Service Vehicle 2) Passenger (car/truck/van) 6) School Bus 10) Motorcycle 3) Walk 7) Taxi/Paid Limousine 11) Other (Specify) 4) Bicycle 8) Commercial Cargo Transport Vehicle 99) Refused		
9a. If car/truck/van, ask: How many people, including you, were in the vehicle?	a) # of People _____	a) # of People _____
9b. If bus, ask: What fare did you pay?	b) Fare \$ _____.	b) Fare \$ _____.

**EL PASO INTERNATIONAL AIRPORT
SPECIAL GENERATOR INTERCEPT SURVEY**

Record SEA

Form B

Date: ____/____/____ TAZ #: ____ Survey Area: _____

Interviewer: _____ Location on Airport: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began	_____ am / _____ pm	_____ am / _____ pm
Time interview ended	_____ am / _____ pm	_____ am / _____ pm
1. Do you work here at the airport?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. In what city or county do you live?		
3a. Is that in El Paso County? (If YES, go to question 4) 3b. If NO, which roadway did you use to enter the El Paso area? (airport is an option)	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____
4. What is your home address or nearest two intersecting streets?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
5a. Did you travel directly from your home to the airport with no stops? 5b. If NO, where did you start the trip that brought you to the airport?	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ _____ (Address or nearest intersection)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ _____ (Address or nearest intersection)
6a. Is that location in El Paso County? 6b. If NO, what street or highway were you on when you entered the El Paso area?	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____
7. What approximate time did you arrive at the airport today?	_____ am / _____ pm	_____ am / _____ pm
8. How did you arrive here at the airport today? (Choose from Arrival Options)	Arrival Option # _____ Other _____	Arrival Option # _____ Other _____
Arrival Options: 1) Driver (car/truck/van) 5) Transit Bus 9) Commercial Service Vehicle 2) Passenger (car/truck/van) 6) School Bus 10) Motorcycle 3) Walk 7) Taxi/Paid Limousine 11) Other (Specify) 4) Bicycle 8) Commercial Cargo Transport Vehicle 99) Refused		
9a. If car/truck/van, ask: How many people, including you, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a. # of People _____ b. Fare \$ _____	a. # of People _____ b. Fare \$ _____

FORT BLISS

Record SFB

SPECIAL GENERATOR INTERCEPT SURVEY

Form B

Date: ____/____/____

TAZ #: _____

Survey Area: _____

Interviewer: _____

Location on Base: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began	_____ am / _____ pm	_____ am / _____ pm
Time interview ended	_____ am / _____ pm	_____ am / _____ pm
1. Do you work here at Fort Bliss?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. In what city or county do you live?		
3a. Is that in El Paso County? (If YES, go to question 4) 3b. If NO, which roadway did you use to enter the El Paso area? (airport is an option)	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____
4. What is your home address or nearest two intersecting streets?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
5a. Did you travel directly from your home to the base with no stops? 5b. If NO, where did you start the trip that brought you to the base?	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ _____ (Address or nearest intersection)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ _____ (Address or nearest intersection)
6a. Is that location in El Paso County? 6b. If NO, what street or highway were you on when you entered the El Paso area?	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____
7. What approximate time did you arrive at the base today?	_____ am / _____ pm	_____ am / _____ pm
8. How did you arrive here at the base today? (Choose from Arrival Options)	Arrival Option # _____ Other _____	Arrival Option # _____ Other _____
Arrival Options: 1) Driver (car/truck/van) 5) Transit Bus 9) Commercial Service Vehicle 2) Passenger (car/truck/van) 6) School Bus 10) Motorcycle 3) Walk 7) Taxi/Paid Limousine 11) Other (Specify) 4) Bicycle 8) Commercial Cargo Transport Vehicle 99) Refused		
9a. If car/truck/van, ask: How many people, including you, were in the vehicle?	a. # of People _____	a. # of People _____
9b. If bus, ask: What fare did you pay?	b. Fare \$ _____	b. Fare \$ _____

**UNIVERSITY OF TEXAS AT EL PASO
SPECIAL GENERATOR INTERCEPT SURVEY**

Record SEU

Form B

Date: ____/____/____

TAZ #: _____

Survey Area: _____

Interviewer: _____

Location on Campus: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began	_____ am / _____ pm	_____ am / _____ pm
Time interview ended	_____ am / _____ pm	_____ am / _____ pm
1. Are you a student here?	<input type="checkbox"/> Yes (Go to 2) <input type="checkbox"/> No (Go to 3)	<input type="checkbox"/> Yes (Go to 2) <input type="checkbox"/> No (Go to 3)
2. Do you live on campus?	<input type="checkbox"/> Yes (Terminate Interview) <input type="checkbox"/> No (Go to 3)	<input type="checkbox"/> Yes (Terminate Interview) <input type="checkbox"/> No (Go to 3)
3. Do you work here at the university or are you visiting the university?	<input type="checkbox"/> Employee <input type="checkbox"/> Visitor	<input type="checkbox"/> Employee <input type="checkbox"/> Visitor
4. In what city or county do you live?	_____	_____
5. Is that in El Paso County?	<input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 6)	<input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 6)
If they live outside El Paso County, ask: 6. Which roadway did you use to enter the El Paso area? (airport is an option)	_____ _____	_____ _____
If they live in El Paso County, ask: 7. What is your home address or nearest two intersecting streets?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
8. How did you arrive here at the university today? (Choose from Arrival Options)	Arrival Option # _____ Other _____	Arrival Option # _____ Other _____
Arrival Options: 1) Driver (car/truck/van) 5) Transit Bus 9) Commercial Service Vehicle 2) Passenger (car/truck/van) 6) School Bus 10) Motorcycle 3) Walk 7) Taxi/Paid Limousine 11) Other (Specify) 4) Bicycle 8) Commercial Cargo Transport Vehicle 99) Refused		
9a. If arrival was by car/truck/van, how many people, including you, were in the vehicle when you arrived at the university? 9b. Where did you park?	a. # of People _____ b. 1) On-Campus 2) Off Campus Parking Lot 3) Off Campus in Street Designated Parking Spot 4) Other (specify) _____	a. # of People _____ b. 1) On-Campus 2) Off Campus Parking Lot 3) Off Campus in Street Designated Parking Spot 4) Other (specify) _____
10a. Did you travel directly from your home to the university with no stops? 10b. If NO, where did you start the trip that brought you to the university?	a. <input type="checkbox"/> Yes (Go to 12) <input type="checkbox"/> No (Go to 10b) b. _____ _____ (Address or nearest intersection)	a. <input type="checkbox"/> Yes (Go to 12) <input type="checkbox"/> No (Go to 10b) b. _____ _____ (Address or nearest intersection)
11a. Is that location in El Paso County? 11b. If NO, what street or highway were you on when you entered the El Paso area?	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) b. _____ _____	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) b. _____ _____

University of Texas at El Paso Special Generator Survey, Record SEU, Form B - Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
12. What approximate time did you arrive at the university today?	_____ am / _____ pm	_____ am / _____ pm
13. What is the reason for coming here today? (Choose from Trip Purpose Options)	Trip Purpose Option # _____ Other _____	Trip Purpose Option # _____ Other _____
Trip Purpose Options: 1) Return Home 2) Work Related 3) School 4) Social Recreation/Visit 5) Shop 6) Eat Out 7) Personal Business 8) Pick Up/Drop Off Passenger 9) Change Travel Mode 10) Delivery – Pick Up/Drop Off Cargo 11) Other (Specify) 99) Refused		
14. When you leave the university, what mode will you use? (Choose from Departure Options)	Departure Option # _____ Other _____	Departure Option # _____ Other _____
Departure Options: 1) Driver (car/truck/van) 2) Passenger (car/truck/van) 3) Walk 4) Bicycle 5) Transit Bus 6) School bus 7) Taxi/Paid Limousine 8) Commercial Cargo Vehicle 9) Commercial Service Vehicle 10) Motorcycle 11) Other (Specify) 99) Refused		
15. When you leave the university, are you going straight home with no stops?	<input type="checkbox"/> Yes (Go to 18) <input type="checkbox"/> No (Go to 16)	<input type="checkbox"/> Yes (Go to 18) <input type="checkbox"/> No (Go to 16)
16. What is the name and address of the place you will be going?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
17a. Is that location in El Paso County? 17b. If NO, what street or highway will you be on when you leave the El Paso area?	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____
18. Thank them for their time and participation.		

THOMASON GENERAL HOSPITAL
SPECIAL GENERATOR INTERCEPT SURVEY

Record SEH

Form B

Date: ____/____/____

TAZ #: _____

Survey Area: _____

Interviewer: _____

Location at Hospital _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began	_____ am / _____ pm	_____ am / _____ pm
Time interview ended	_____ am / _____ pm	_____ am / _____ pm
1. Do you work in this building or at this location?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. In what city or county do you live?		
3a. Is that in El Paso County? (If YES, go to question 4) 3b. If NO, which roadway did you use to enter the El Paso area? (airport is an option)	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____
4. What is your home address or nearest two intersecting streets?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
5a. Did you travel directly from your home to the hospital with no stops? 5b. If NO, where did you start the trip that brought you to the hospital?	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ (Address or nearest intersection)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ (Address or nearest intersection)
6a. Is that location in El Paso County? 6b. If NO, what street or highway were you on when you entered the El Paso area?	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____
7. What approximate time did you arrive at the hospital today?	_____ am / _____ pm	_____ am / _____ pm
8. How did you arrive at the hospital today? (Choose from Arrival Options)	Arrival Option # _____ Other _____	Arrival Option # _____ Other _____
Arrival Options: 1) Driver (car/truck/van) 5) Transit Bus 9) Commercial Service Vehicle 2) Passenger (car/truck/van) 6) School Bus 10) Motorcycle 3) Walk 7) Taxi/Paid Limousine 11) Other (Specify) 4) Bicycle 8) Commercial Cargo Transport Vehicle 99) Refused		
9a. If car/truck/van, ask: How many people, including you, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a. # of People _____ b. Fare \$ _____	a. # of People _____ b. Fare \$ _____

Thomason General Hospital Special Generator Survey, Record SEH, Form B – Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
10. What is the reason for coming here today? (Choose from Trip Purpose Options)	Trip Purpose Option # _____ Other _____	Trip Purpose Option # _____ Other _____
Trip Purpose Options: 1) Return Home 2) Work Related 3) School 4) Social/Recreational/Visit 5) Shop 6) Eat Out 7) Personal Business 8) Pick Up/Drop Off Passenger 9) Change Travel Mode 10) Delivery – Pick Up/Drop Off Cargo 11) Other (Specify) 99) Refused		
11. When you leave the hospital, are you going straight home with no stops?	<input type="checkbox"/> Yes (Go to 14) <input type="checkbox"/> No (Go to 12)	<input type="checkbox"/> Yes (Go to 14) <input type="checkbox"/> No (Go to 12)
12. What is the name and address of the place you will be going?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
13a. Is that location in El Paso County? 13b. If NO, what street or highway will you be on when you leave the El Paso area?	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____
14. Thank them for their time and participation.		

CIELO VISTA MALL

SPECIAL GENERATOR INTERCEPT SURVEY

Record SEM

Form B

Date: ____/____/____

TAZ #: _____

Survey Area: _____

Interviewer: _____

Location at Mall: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began	_____ am / _____ pm	_____ am / _____ pm
Time interview ended	_____ am / _____ pm	_____ am / _____ pm
1. Do you work in this Mall?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. In what city or county do you live?		
3a. Is that in El Paso County? (If YES, go to question 4) 3b. If NO, which roadway did you use to enter the El Paso area? (airport is an option)	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____	a. <input type="checkbox"/> Yes (Go to 4) <input type="checkbox"/> No (Go to 3b) b. _____
4. What is your home address or nearest two intersecting streets?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
5a. Did you travel directly from your home to the Mall with no stops? 5b. If NO, where did you start the trip that brought you to the Mall?	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ (Address or nearest intersection)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No (Go to 5b) b. _____ (Address or nearest intersection)
6a. Is that location in El Paso County? 6b. If NO, what street or highway were you on when you entered the El Paso area?	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (enter name of county) _____ b. _____
7. What approximate time did you arrive at the Mall today?	_____ am / _____ pm	_____ am / _____ pm
8. How did you arrive at the Mall today? (Choose from Arrival Options)	Arrival Option # _____ Other _____	Arrival Option # _____ Other _____
Arrival Options: 1) Driver (car/truck/van) 5) Transit Bus 9) Commercial Service Vehicle 2) Passenger (car/truck/van) 6) School Bus 10) Motorcycle 3) Walk 7) Taxi/Paid Limousine 11) Other (Specify) 4) Bicycle 8) Commercial Cargo Transport Vehicle 99) Refused		
9a. If car/truck/van, ask: How many people, including you, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a. # of People _____ b. Fare \$ _____	a. # of People _____ b. Fare \$ _____

WORKPLACE COMMERCIAL VEHICLE SURVEY

Form D

Workplace Site #: _____

Survey Date: _____

Zone #: _____

Interviewer: _____

<u>Questions</u>	<u>Vehicle 1</u>	<u>Vehicle 2</u>
1. Time of Arrival	_____ am / _____ p m	_____ am / _____ p m
2. Number of People in Vehicle		
3. Standard Vehicle Class (choose from vehicle class codes)		
4. Vehicle Type	<input type="checkbox"/> 1 – Cargo Transport <input type="checkbox"/> 2 Service	<input type="checkbox"/> 1 – Cargo Transport <input type="checkbox"/> 2 Service
5. What is the cargo being delivered? (Choose from cargo codes.)	Code _____ (If coded as 19, enter name of cargo) _____	Code _____ (If coded as 19, enter name of cargo) _____
6. What is the weight of the cargo being delivered in pounds?	Weight _____ <input type="checkbox"/> No cargo delivered	Weight _____ <input type="checkbox"/> No cargo delivered
7. What is the cargo being picked up? (Choose from cargo codes.)	Code _____ (If coded as 19, enter name of cargo) _____	Code _____ (If coded as 19, enter name of cargo) _____
8. What is the weight of the cargo being picked up in pounds?	Weight _____ <input type="checkbox"/> No cargo picked up	Weight _____ <input type="checkbox"/> No cargo picked up.
9. What is your reason for coming here today?	_____ (Choose from trip purpose options)	_____ (Choose from trip purpose options)
10a. What is the address of the last place you got into your vehicle? (Address or nearest two intersecting streets)	_____ _____ _____	_____ _____ _____
10b. What type of place was that location? (See type of place codes below)	Type of Place Code _____	Type of Place Code _____
11a. Is that location:	a. <input type="checkbox"/> Brazoria <input type="checkbox"/> Harris <input type="checkbox"/> Chambers <input type="checkbox"/> Liberty <input type="checkbox"/> Fort Bend <input type="checkbox"/> Montgomery <input type="checkbox"/> Galveston <input type="checkbox"/> Waller <input type="checkbox"/> Hardin County <input type="checkbox"/> Jefferson County <input type="checkbox"/> Orange County <input type="checkbox"/> Outside of those counties	a. <input type="checkbox"/> Brazoria <input type="checkbox"/> Harris <input type="checkbox"/> Chambers <input type="checkbox"/> Liberty <input type="checkbox"/> Fort Bend <input type="checkbox"/> Montgomery <input type="checkbox"/> Galveston <input type="checkbox"/> Waller <input type="checkbox"/> Hardin County <input type="checkbox"/> Jefferson County <input type="checkbox"/> Orange County <input type="checkbox"/> Outside of those counties
11b. If outside of the counties shown, what street or highway were you on when you entered the area?	b. _____ _____	b. _____ _____
12. What was your purpose for being at that location?	_____ (Choose from trip purpose options)	_____ (Choose from trip purpose options)
13. What approximate time did you leave that location?	_____ a.m. / _____ p m	_____ a.m. / _____ p m
14a. What is the address of the place you will be going when you leave? (place/address or nearest intersection/city)	_____ _____ _____	_____ _____ _____
14b. What type of place is that location? (See type of place codes below)	Type of Place Code _____	Type of Place Code _____

**APPENDIX D:
ASCII FILE FORMATS**

Work Place Recruitment Survey, Form G File Format

This file contains the recruitment information, call disposition results, and data collected during recruitment using Form G: Work Place Recruitment Survey for the El Paso Work Place Recruitment Survey. The data should be in an ASCII data format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code indicating type of record. Here it should be RSE.
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Unique non-zero number assigned to each work place.
6. Name	17	66	Alphanum. LJ	A50	Name of establishment.
7. Address	67	116	Alphanum. LJ	A50	Address of establishment.
8. City	117	141	Alphanum. LJ	A25	City where establishment is located.
9. Employment Type	142	144	Numeric RJ	I3	Code indicating the type of employment at the work place. 1 - Basic; 2 - Retail; 3 - Service; 4 - Education; 5 - Other
10. Other Employment Type	145	174	Alphanum. LJ	A30	If employment type is coded as other, this field contains a description of the employment type.
11. Study Area	175	176	Alphanum. LJ	A2	Code indicating study area work place is located. E - El Paso.
12. Zone	177	181	Numeric RJ	I5	Transportation analysis zone where work place is located.
13. Phone No.	182	191	Numeric RJ	I10	Phone number of work place.
14. Number of Attempts	192	194	Numeric RJ	I3	Number of attempts made to contact work place.
15. Call Disposition Code	195	196	Numeric RJ	I2	Code indicating results of call attempts. See code definitions.
16. Other Call Disposition	197	246	Alphanum. LJ	A50	If call disposition code is "other", this field contains a description of the call disposition.
17. Recruitment	247	248	Numeric RJ	I2	Code indicating results of recruitment attempts. 1 - Full Survey; 2 - Partial Survey; 3 - Refusal w/Data; 4 - Refusal w/No data
18. Employment	249	254	Numeric RJ	I6	Total number of full and part time employees at this location.
19. No. Visitors	255	259	Numeric RJ	I5	Average number of visitors to work place during weekday.
20. No. Employees	260	264	Numeric RJ	I5	Average number of employees at work during weekday.
21. Begin Operations	265	269	Numeric RJ	I5	Normal time (military) operations begin at work place.
22. End Operations	270	274	Numeric RJ	I5	Normal time (military) operations end at work place.
23. Location Code	275	276	Numeric RJ	I2	Code indicating type of location. 1 - Shopping center or office building; 2 - Other
24. Others at Location	277	278	Numeric RJ	I2	Code indicating if other businesses are located at the same location. 1 - Yes; 2 - No
25. Parking	279	280	Numeric RJ	I2	Code indicating if work place has its own parking. 1 - Yes; 2 - No
26. Cut Thru Traffic	281	282	Numeric RJ	I2	Code indicating if traffic cuts through parking lot to access other businesses. 1 - Yes; 2 - No
27. Arrival Time	283	287	Numeric RJ	I5	Normal time of arrival for first employee.
28. Departure Time	288	292	Numeric RJ	I5	Normal time of departure for last employee.
29. Deliveries	293	295	Numeric RJ	I3	Number of deliveries on an average week day.
30. From Delivery Hours	296	300	Numeric RJ	I5	Beginning time for deliveries in military time.
31. To Deliver Hours	301	305	Numeric RJ	I5	Ending time for deliveries in military time.
32. Special Access	306	307	Numeric RJ	I2	Code indicating if special access is provided for deliveries or employees. 1 - Yes; 2 - No
33. Business Vehicles	308	314	Numeric RJ	I7	Number of vehicles owned or leased by work place for business purposes.
34. Cars/SUVs	315	319	Numeric RJ	I5	Number of cars and SUVs owned or leased by work place for business purposes.
35. Pickup Trucks	320	324	Numeric RJ	I5	Number of pickup trucks owned or leased by work place for business purposes.
36. Cargo Vans	325	329	Numeric RJ	I5	Number of vans owned or leased by work place used for delivery or pick up of cargo.
37. Service Vans	330	334	Numeric RJ	I5	Number of vans owned or leased by work place used for commercial service or other purposes.
38. Cargo Vehicles	335	339	Numeric RJ	I5	Number of cargo transport vehicles owned or leased by work place for business purposes that do not fall into the other categories.
39. Service Vehicles	340	344	Numeric RJ	I5	Number of service vehicles owned or leased by work place for business purposes that do not fall into the other categories.
40 FORM	345	350	Numeric RJ	I6	

15. Call Disposition Codes

1 - Contact Made	4 - Answering Machine	7 - Computer/Fax
2 - No Answer	5 - Busy	8 - Other
3 - Phone Disconnected	6 - Non-Business	

Work Place General Survey, Form A File Format

This file will contain the general information data collected using Form A, Work Place General Survey. The data should be in an ASCII data format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code indicating type of record. Here it should be 9.
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Unique non-zero number assigned to work place.
6. NAICS Code	17	22	Numeric RJ	I6	North American Industrial Classification System code of the work place.
7. Establishment Type	23	24	Numeric RJ	I2	Code indicating the type of work place; 1- free standing, 2- non-free standing.
8. Employment Type	25	26	Numeric RJ	I2	Code indicating the type of employment at the work place. See code descriptions.
9. Other Employment Type	27	76	Alphanum. LJ	A50	If employment type is coded as 15 - Other, this field contains a description of the employment type.
10. Name	77	106	Alphanum. LJ	A30	Name of work place.
11. Address	107	136	Alphanum. LJ	A30	Address of work place.
12. City	137	151	Alphanum. LJ	A15	City where work place is located.
13. Zip Code	152	156	Numeric RJ	I5	Zip code for work place location.
14. Phone No.	157	166	Numeric RJ	I10	Phone number for work place.
15. Longitude	167	176	Numeric RJ	F10.0	Longitude of work place address. If unknown, it should be coded 888.888888.
16. Latitude	177	186	Numeric RJ	F10.0	Latitude of work place address. If unknown, it should be coded 888.888888.
17. Area Location	187	188	Alphanum. LJ	A2	Code indicating location of work place. E - El Paso study area.
18. Zone	189	193	Numeric RJ	I5	Zone where work place is located.
19. Hours of Operation	194	195	Numeric RJ	I2	Number of hours operation during normal weekday.
20. Number of Vehicles	196	201	Numeric RJ	I6	Total number of non-commercial vehicles entering and exiting the work place during the 24 hours the travel survey was conducted.
21. Number of Persons	202	208	Numeric RJ	I7	Total number of persons counted entering and exiting the work place during the 24 hours the travel survey was conducted.
22. Commercial Vehicles	209	213	Numeric RJ	I5	Total number of commercial vehicles counted entering and exiting the work place during the 24 hours the travel survey was conducted.
23. Total Employment	214	218	Numeric RJ	I5	Total number of persons (full and part time) employed at the establishment.
24. Employees at Work	219	223	Numeric RJ	I5	Total number of employees at work on day the travel survey was conducted.
25. Deliveries	224	226	Numeric RJ	I3	Number of deliveries to work place on day of survey.
26. Delivery Hours	227	229	Numeric RJ	I3	Hours allowed for deliveries.
27. Cars & SUVs	230	234	Numeric RJ	I5	Number of cars and SUVs owned or leased by work place for business purposes.
28. Cargo Transport Vans	235	239	Numeric RJ	I5	Number of vans owned or leased by work place for business cargo delivery and pick up purposes.
29. Service Vans	240	244	Numeric RJ	I5	Number of vans owned or leased by work place for business service purposes.
30. Pickup Trucks	245	249	Numeric RJ	I5	Number of pickup trucks owned or leased by work place for business purposes.
31. Cargo Transport Vehicles	250	254	Numeric RJ	I5	Number of cargo transport vehicles owned or leased by work place for business purposes.
32. Service Vehicles	255	259	Numeric RJ	I5	Number of service vehicles owned or leased by work place for business purposes.
33 FORM	260	265	Numeric RJ	I6	

8. Employment Type

1 - Office (Non Government)	7 - Gov't/City/County/State/Federal Offices
2 - Retail	8 - Convenience Store/Gas Station
3 - Industrial	9 - Grocery Store
4 - Medical	10 - Restaurant/Fast Food/Bar & Grill
5 - Education - Day Care/K-12th	11 - Bank/Financial Institution
6 - Education - College, trade, other	12 - Manufacturing

Work Place Intercept Survey, Free Standing Work Place, Form B Format

This file contains the travel data for employees and visitors at surveyed free standing work places using Form B, Intercept Travel Survey, Free Standing Work Place. The data are in ASCII file format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code, which indicates the type of record. Here it should be E10.
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Unique non-zero number assigned to the establishment where these interviews were conducted.
6. Person Number	17	17	Numeric RJ	I1	Number of person being interviewed. This corresponds to the column number on the interview form.
7. Time Began	18	22	Numeric RJ	I5	Time interview began. Military time
8. Time Ended	23	27	Numeric RJ	I5	Time interview ended. Military time
9. Person Interviewed	28	29	Numeric RJ	I2	Code indicating if person being interviewed is an employee or a visitor. 1 - employee; 2 - visitor; 99 - Unknown/Refused
10. Residence	30	54	Alphanum. LJ	A25	Name of city, county or country where person lives.
11. Residence Code	55	56	Numeric RJ	I2	Code indicating if residence is located outside the study area the work place is located. 1-Yes, 2-No, 99-Refused/Unknown
12. Entry Road	57	86	Alphanum. LJ	A30	If person does not live in the study area the work place is located, this field should contain the name of the street/highway/bridge the person was on when they entered the study area the work place is located. If person stayed overnight, this field should be blank. Note that airport is a valid entry.
13. Study Area	87	88	Alphanum. LJ	A2	Code indicating study area where person entered. E - El Paso study area. If person lives in the same study area as the work place is located, this field should be blank.
14. Entry Zone	89	93	Numeric RJ	I5	Zone number associated with the street/highway/bridge person was on when they entered the study area the work place is located. If person lives in the study area the work place is located, this field should be blank.
15. Home Address	94	123	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
16. Intersecting Street	124	153	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.
17. Longitude	154	163	Numeric RJ	F10.0	Longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
18. Latitude	164	173	Numeric RJ	F10.0	Latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
19. Zone Location	174	175	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address is not located in study area but is 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.
20. Zone	176	180	Numeric RJ	I5	Zone number where person lives. Locations in Mexico should be coded 7777. Locations outside of the study area but within Texas should be coded to the state zone system. Unknown zone numbers in the study area the work place is located 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.
21. Origin Code	181	182	Numeric RJ	I2	Code indicating origin of trip: 1-Home, 2-Other.
22. Origin Location	183	242	Alphanum. LJ	A60	Location that trip originated from (i.e. name, address, etc).
23. Origin County	243	245	Numeric RJ	I3	Code indicating origin county/location: 1 - El Paso County, 2 - New Mexico, 3 - Mexico, 96 - Other, 98 - Unknown, 99 - Refused.
24. Other Origin County	246	275	Alphanum. LJ	A30	If county origin/location is coded as "other", this field contains the name of the county or location.
25. Longitude	276	285	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
26. Latitude	286	295	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.

Work Place Intercept Survey, Free Standing Work Place, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
27. Zone Location	296	297	Alphanum. LJ	A2	Code indicating location of address. E - El Paso. If address not located within the study area, but is 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.
28. Origin Zone	298	302	Numeric RJ	I5	Zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study area, but within Texas should be coded to the state zone system. Unknown zone numbers in the study area the work place is located should be coded as 8888. Unknown zone numbers outside of the study area the work place is located but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
29. Entry Facility	303	332	Alphanum. LJ	A30	If origin is outside the study area the work place is located, this field should contain the name of the bridge, street, or highway used to enter the study area.
30. Entry Study Area	333	334	Alphanum. LJ	A2	If origin is outside of a study area county, this field should contain a code indicating the study area where the bridge, street, or highway used to enter is located. E - El Paso
31. Entry External Zone	335	339	Numeric RJ	I5	If origin is outside the study area the work place is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.
32. Arrival Hour	340	342	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
33. Arrival Minute	343	345	Numeric RJ	I3	Minute person arrived at this site.
34. Mode	346	347	Numeric RJ	I2	Code indicating mode of travel to this location. See definitions below.
35. Other Mode	348	357	Alphanum. LJ	A10	If mode is coded "other", this field should contain a description of the mode given.
36. Number Persons	358	359	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.
37. Fare	360	365	Numeric RJ	F6.2	If mode of travel was bus, this is the fare paid.
38. Trip Purpose	366	367	Numeric RJ	I2	Code indicating purpose of trip. See code definitions below.
39. Other Purpose	368	377	Alphanum. LJ	A10	If purpose is coded as "other", this contains description of purpose given.
40. Depart Destination	378	379	Numeric RJ	I2	Code indicating destination when person departs from this site: 1-Home, 2-Other.
41. Destination Location	380	439	Alphanum. LJ	A60	Location of destination person is going.
42. Destination County	440	442	Numeric RJ	I3	Code indicating destination county/location:1 – El Paso County, 2 – New Mexico, 3 – Mexico, 96 - Other, 98 - Unknown, 99 - Refused.
43. Other Destination County	443	472	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
44. Destination Longitude	473	482	Numeric RJ	F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
45. Destination Latitude	483	492	Numeric RJ	F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
46. Zone Location	493	494	Alphanum. LJ	A2	Code indicating location of address. E - El Paso. If address not located in the study area, but is 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.
47. Destination Zone	495	499	Numeric RJ	I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in a study area county, but within Texas should be coded to the state zone system. Unknown zone numbers in the study area the work place is located should be coded as 8888. Unknown zone numbers not in the study area the work place is located but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
48. Exit Facility	500	529	Alphanum. LJ	A30	If destination is outside of the study area the work place is located, this field should contain the name of the bridge, street, or highway used to leave the study area.
49. Exit Study Area	530	531	Alphanum. LJ	A2	If destination is outside the study area, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. E - El Paso study area.
50. Exit External Zone	532	536	Numeric RJ	I5	If destination is outside the study area the work place is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.
51. Form Number	537	542	Numeric RJ	I6	Survey form number, which contains raw survey data.

Work Place Intercept Survey, Free Standing Work Place, Form B Format - Continued.

34. Mode of Transportation Codes

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

38. Trip Purpose Codes

- 1 – Return Home
- 2 – Work Related
- 3 – School Related
- 4 – Social/Recreational/Visit
- 5 – Shop
- 6 – Eat Out
- 7 – Personal Business
- 8 – Pick Up/Drop Off Passenger
- 9 – Change Travel Mode
- 10 – Delivery – Pick Up/Drop Off
- 11 – Other
- 99 – No Response

Work Place Intercept Survey, Non-Free Standing Work Place, Form C Format

This file contains the travel data for employees and visitors at surveyed non-free standing work places using Form C, Intercept Travel Survey, Non-Free Standing Work Place. The data is in ASCII file format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code, which indicates the type of record. Here it should be E11.
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Unique non-zero number assigned to the work place where these interviews were conducted.
6. Person Number	17	17	Numeric RJ	I1	Number of person being interviewed. This corresponds to the column number on the interview form.
7. Time Began	18	22	Numeric RJ	I5	Time interview began. Military time
8. Time Ended	23	27	Numeric RJ	I5	Time interview ended. Military time
9. Person Interviewed	28	29	Numeric RJ	I2	Code indicating if person being interviewed is an employee or a visitor. 1 - employee; 2 - visitor; 99 - Unknown/Refused
10. Residence	30	54	Alphanum. LJ	A25	Name of city, county or country where person lives.
11. Residence Code	55	56	Numeric RJ	I2	Code indicating if residence is located outside the study area the work place is located. 1-Yes, 2-No, 99-Refused/Unknown
12. Entry Road	57	86	Alphanum. LJ	A30	If person does not live in the study area the work place is located, this field should contain the name of the street/highway/bridge the person was on when they entered the study area the work place is located. If person stayed overnight, this field should be blank. Note that airport is a valid entry.
13. Study Area	87	88	Alphanum. LJ	A2	Code indicating study area where person entered. E - El Paso study area. If person lives in the same study area as the work place is located, this field should be blank.
14. Entry Zone	89	93	Numeric RJ	I5	Zone number associated with the street/highway/bridge person was on when they entered the study area the work place is located. If person lives in study area, this field should be blank.
15. Home Address	94	123	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
16. Intersecting Street	124	153	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.
17. Longitude	154	163	Numeric RJ	F10.0	Longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
18. Latitude	164	173	Numeric RJ	F10.0	Latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
19. Zone Location	174	175	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address is not located in study area but is 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.
20. Zone	176	180	Numeric RJ	I5	Zone number where person lives. 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 within the study area the work place is located should be coded as 8888. Unknown zone numbers outside the study area the work place is located but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
21. Origin Code	181	182	Numeric RJ	I2	Code indicating origin of trip: 1-Home, 2-Other.
22. Origin Location	183	242	Alphanum. LJ	A60	Location that trip originated from (i.e. name, address, etc).
23. Origin County	243	245	Numeric RJ	I3	Code indicating origin county/location: 1 - El Paso County, 2 - New Mexico, 3 - Mexico, 96 - Other, 98 - Unknown, 99 - Refused.
24. Other Origin County	246	275	Alphanum. LJ	A30	If county origin/location is coded as "other", this field contains the name of the county or location.
25. Longitude	276	285	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
26. Latitude	286	295	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.

Work Place Intercept Survey, Non-Free Standing Work Place, Form C Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
27. Zone Location	296	297	Alphanum. LJ	A2	Code indicating location of address. E - El Paso. If address not located in the study area, but is 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.
28. Origin Zone	298	302	Numeric RJ	I5	Zone where trip originated. 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 the work place is located 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.
29. Entry Facility	303	332	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 the work place is located.
30. Entry Study Area	333	334	Alphanum. LJ	A2	If origin is outside of a study area county, this field should contain a code indicating the study area where the bridge, street, or highway used to enter is located. E - El Paso study area.
31. Entry External Zone	335	339	Numeric RJ	I5	If origin is outside of the study area the work place is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area the work place is located.
32. Arrival Hour	340	342	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
33. Arrival Minute	343	345	Numeric RJ	I3	Minute person arrived at this site.
34. Mode	346	347	Numeric RJ	I2	Code indicating mode of travel to this location. See definitions below.
35. Other Mode	348	357	Alphanum. LJ	A10	If mode is coded "other", this field should contain a description of the mode given.
36. Number Persons	358	359	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.
37. Fare	360	365	Numeric RJ	F6.2	If mode of travel was bus, this is the fare paid.
38. Trip Purpose	366	367	Numeric RJ	I2	Code indicating purpose of trip. See code definitions below.
39. Other Purpose	368	377	Alphanum. LJ	A10	If purpose is coded as "other", this contains description of purpose given.
40. First Store	378	379	Numeric RJ	I2	Code indicating if this store/work place is the first visited in the location since arriving. 1 - Yes, 2 - No, 99 - Refused/Unknown
41. Number Visited	380	381	Numeric RJ	I2	Number of stores/work places visited in this location including this establishment.
42. More Visits	382	383	Numeric RJ	I2	Number of additional stores/work places in this location person plans on visiting during this trip.
43. Depart Destination	384	385	Numeric RJ	I2	Code indicating destination when person departs from this site: 1-Home, 2-Other.
44. Destination Location	386	445	Alphanum. LJ	A60	Name & address of destination person is going.
45. Destination County	446	448	Numeric RJ	I3	Code indicating destination county/location: 1 – El Paso County, 2 – New Mexico, 3 – Mexico, 96 - Other, 98 - Unknown, 99 - Refused.
46. Other Destination County	449	478	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
47. Destination Longitude	479	488	Numeric RJ	F10.0	Longitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
48. Destination Latitude	489	498	Numeric RJ	F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
49. Zone Location	499	500	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address is not located in a county within the study area, but is 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.
50. Destination Zone	501	505	Numeric RJ	I5	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 the work place is located should be coded as 8888. Unknown zone numbers not in the study area the work place is located but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.

Work Place Intercept Survey, Non-Free Standing Work Place, Form C Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
51. Exit Facility	506	535	Alphanum. LJ	A30	If destination is outside of the study area the work place is located, this field should contain the name of the bridge, street, or highway used to leave the study area.
52. Exit Study Area	536	537	Alphanum. LJ	A2	If destination is outside of the study area, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. E - El Paso study area.
53. Exit External Zone	538	542	Numeric RJ	I5	If destination is outside the study area the work place is located, this field should contain the external station number associated with the bridge, street, or highway used to exit the study area the work place is located.
54. Form Number	543	548	Numeric RJ	I6	Survey form number, which contains raw survey data.

34. Mode of Transportation Codes

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

38. Trip Purpose Codes

- 1 – Return Home
- 2 – Work Related
- 3 – School Related
- 4 – Social/Recreational/Visit
- 5 – Shop
- 6 – Eat Out
- 7 – Personal Business
- 8 – Pick Up/Drop Off Passenger
- 9 – Change Travel Mode
- 10 – Delivery – Pick Up/Drop Off
- 11 – Other
- 99 – No Response

Work Place Intercept Survey, Commercial Vehicles, Form D Format

This file contains the travel data for commercial vehicles surveyed in the workplace survey using Form D, Workplace Commercial Vehicle Survey. Data should be in the following ASCII data file format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code that indicates the type of record, here it should be CVE.
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Non-zero number assigned to the workplace.
6. Interviewer	17	66	Alphanum. LJ	A50	Name of person conducting survey interview.
7. Truck Number	67	68	Numeric RJ	I2	Truck number surveyed. This should correspond to the column number of the survey form used to collect the data.
8. Time Began	69	73	Numeric RJ	I5	Time survey began. Must be in military time.
9. Time Ended	74	78	Numeric RJ	I5	Time survey ended. Must be in military time.
10. Occupancy	79	80	Numeric RJ	I2	Number of people in vehicle.
11. Vehicle Classification	81	82	Numeric RJ	I2	Code indicating the classification of the vehicle. See below for code descriptions.
12. Other Classification	83	92	Alphanum. LJ	A10	If vehicle classification is coded as "other", this field should contain the description recorded on the survey form for vehicle.
13. Type of Vehicle	93	95	Numeric RJ	I3	Code indicating type of commercial vehicle. Use 1 for cargo transport vehicle and 2 for service vehicle (i.e. all others besides cargo transport).
14. Delivery Cargo	96	98	Numeric RJ	I3	Cargo being delivered to work place. See code definitions below. If no cargo is being delivered, this should be coded as none (#23).
15. Unclassified Delivery Cargo	99	148	Alphanum. LJ	A50	If delivery cargo is coded as unclassified (#19) in the previous field, this field should contain the name of the cargo being delivered.
16. Delivery Cargo Weight	149	155	Numeric RJ	I7	Weight in pounds of cargo being delivered.
17. Pick Up Cargo	156	158	Numeric RJ	I3	Cargo being picked up at work place. See code definitions below. If no cargo is being picked up, this should be coded as none (#23).
18. Unclassified Pick Up Cargo	159	208	Alphanum. LJ	A50	If pick up cargo is coded as unclassified (#19) in the previous field, this field should contain the name of the cargo being picked up.
19. Pick Up Cargo Weight	209	215	Numeric RJ	I7	Weight in pounds of cargo being picked up.
20. Trip Purpose	216	217	Numeric RJ	I2	Purpose of trip. See code descriptions below.
21. Other Trip Purpose	218	227	Alphanum. LJ	A10	If trip purpose is coded as "other", this is a description of that purpose.
22. Origin Street Address	228	257	Alphanum. LJ	A30	Street address of last place person got into vehicle before traveling to this workplace.
23. Origin City and Zip	258	287	Alphanum. LJ	A30	City and zip code of location of last place person got into vehicle before traveling to this workplace.
24. Origin Longitude	288	297	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
25. Origin Latitude	298	307	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
26. Zone Indicator	308	309	Alphanum. LJ	A2	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. If address is in the El Paso study area, this should be coded "E" indicating zone in the next field is for the El Paso area.
27. Origin Zone	310	314	Numeric RJ	I5	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.

Work Place Intercept Survey, Commercial Vehicles, Form D Format – Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
28. Origin Type of Place	315	316	Numeric RJ	I2	Code indicating type of place at origin of trip. See type of place codes below.
29. Other Origin Type of Place	317	346	Alphanum. LJ	A30	If Origin Type of Place is coded as 14 - Other, this field contains a description of the type of place.
30. County of Origin	347	348	Numeric RJ	I2	Code indicating county where origin of trip is located. See code definitions below.
31. Other Origin County	349	378	Alphanum. LJ	A30	If county of origin is coded as "other", this field contains the name of the county or location.
32. Entry Facility	379	408	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 El Paso study area based on location being surveyed.
33. Entry External Zone	409	413	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 El Paso study area based on location being surveyed.
34. Origin Purpose	414	415	Numeric RJ	I2	Purpose for being at origin address where this trip originated. See code definitions below.
35. Other Origin Purpose	416	425	Alphanum. LJ	A10	If the origin purpose is coded as "other", this is a description of that purpose.
36. Hour Departed	426	428	Numeric RJ	I3	Hour vehicle departed from origin address. This time should be in military time.
37. Minute Departed	429	431	Numeric RJ	I3	Minute vehicle departed from origin address.
38. Destination Street Address	432	461	Alphanum. LJ	A30	Street address of location vehicle will be going when it leaves this workplace.
39. Destination City and Zip	462	491	Alphanum. LJ	A30	City and zip code of location vehicle will be going when it leaves this workplace.
40. Longitude	492	501	Numeric RJ	F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
41. Latitude	502	511	Numeric RJ	F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
42. Zone Indicator	512	513	Alphanum. LJ	A2	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. If address is in the El Paso study area, this should be coded "E".
43. Destination Zone	514	518	Numeric RJ	I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations outside study area but within Texas should be coded to 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 9999.
44. Destination Type of Place	519	520	Numeric RJ	I2	Type of place at destination. See type of place codes.
45. Other Destination Type of Place	521	550	Alphanum. LJ	A30	If Destination Type of Place is coded as 14 - Other, this field contains a description of the type of place.
46. Destination County	551	552	Numeric RJ	I2	Code indicating county destination is located. See code definitions below.
47. Other Destination County	553	582	Alphanum. LJ	A30	If county of destination is coded as "other", this field contains the name of the county or location.
48. Exit Facility	583	612	Alphanum. LJ	A30	If destination is outside the study area, this field should contain the name of the bridge, street, or highway used to leave the El Paso study area based on location being surveyed.
49. Exit External Zone	613	617	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 leave the El Paso study area based on location being surveyed.
50. Destination Purpose	618	619	Numeric RJ	I2	Purpose for traveling to the next destination. See below for code definitions.
51. Other Destination Purpose	620	629	Alphanum. LJ	A10	If the destination purpose is coded as "other", this is a description of that purpose.
52. Form Number	630	636	Numeric RJ	I7	Number of survey form.

Work Place Intercept Survey, Commercial Vehicles, Form D Format – Continued.

11. Vehicle Classification Codes

- 1 - Passenger Car
- 2 - Pick-up
- 3 - Van (cargo 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 (tractor-trailer combination)
- 9 - Other

20, 33, 48. 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
- 99 - Refused/Unknown

29, 44. County Codes

- 1 - El Paso County
- 2 - New Mexico
- 3 - Mexico
- 96 - Other
- 98 - Unknown
- 99 - Refused

11. Vehicle Classification Codes

- 1 - Passenger Car
- 2 - Pick-up
- 3 - Van (cargo 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 (tractor-trailer combination)
- 9 - Other

20, 33, 48. 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
- 99 - Refused/Unknown

20, 33, 48. 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)

14. Vehicle Cargo Codes

- 1 - Farm Products
- 2 - Forest Products
- 3 - Marine Products
- 4 - Metals and Minerals
- 5 - Food, Health, and Beauty Products
- 6 - Tobacco Products
- 7 - Textiles
- 8 - Wood Products

- 9 - Printed Matter
- 10 - Chemical Products
- 11 - Refined Petroleum or Coal Products
- 12 - Rubber, Plastic, and Styrofoam Products
- 13 - Clay, Concrete, Glass, or Stone
- 14 - Manufactured Goods/Equip.
- 15 - Wastes
- 16 - Miscellaneous Shipments

- 17 - Hazardous Materials
- 18 - Transportation
- 19 - Unclassified Cargo
- 20 - Driver Refused to Answer
- 21 - Unknown to Driver
- 22 - Empty
- 23 - No cargo delivery/pick up

28, 43. Type of Place Codes

- 1 - Office Building
- 2 - Retail/Shopping
- 3 - Industrial/Manufacturing
- 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 (specify)
- 99 - Refused/Unknown

Work Place Intercept Survey, Special Generator, El Paso International Airport, Form B Format

This file contains the travel data for employees and visitors surveyed at special generator work places using Form B, Special Generator Intercept Travel Survey, El Paso International Airport. The data are in ASCII file format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code, which indicates the type of record. Here it should be SEA.
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Name of Airport	12	61	Alphanum. LJ	A50	Name of airport being surveyed.
6. Location	62	111	Alphanum. LJ	A50	Approximate location in airport where interviews are being conducted.
7. Site Number	112	116	Numeric RJ	I5	Unique non-zero number assigned to the airport where these interviews were conducted.
8. Person Number	117	117	Numeric RJ	I1	Number of person being interviewed. This corresponds to the column number on the interview form.
9. Time Began	118	122	Numeric RJ	I5	Time interview began. Military time
10. Time Ended	123	127	Numeric RJ	I5	Time interview ended. Military time
11. Person Interviewed	128	129	Numeric RJ	I2	Code indicating if person being interviewed is an employee or a visitor. 1 - employee; 2 - visitor; 99 - Unknown/Refused
12. Residence	130	154	Alphanum. LJ	A25	Name of city, county or country where person lives.
13. Residence Code	155	156	Numeric RJ	I2	Code indicating if residence is located outside the study area the generator is located. 1-Yes, 2-No, 99-Refused/Unknown.
14. Entry Road	157	186	Alphanum. LJ	A30	If person does not live in study area the airport is located, this field should contain the name of the street/highway/bridge the person was on when they entered the study area the airport is located. Note that airport is a valid entry.
15. Study Area	187	188	Alphanum. LJ	A2	Code indicating study area where person entered. E - El Paso study area. If person lives in study area airport is located, this field should be blank.
16. Entry Zone	189	193	Numeric RJ	I5	Zone number associated with the street/highway/bridge person was on when they entered the study area the airport is located. If person lives in study area, this field should be blank.
17. Home Address	194	223	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
18. Intersecting Street	224	253	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.
19. Longitude	254	263	Numeric RJ	F10.0	Longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
20. Latitude	264	273	Numeric RJ	F10.0	Latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
21. Zone Location	274	275	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address is not located in 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.
22. Zone	276	280	Numeric RJ	I5	Zone number where person lives. 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 within the study area the airport is located 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.
23. Arrival Mode	281	282	Numeric RJ	I2	Code indicating mode of arrival at this airport. See definitions below.
24. Other Arrival Mode	283	292	Alphanum. LJ	A10	If arrival mode is coded "other", this field should contain a description of the mode given.
25. Number Persons	293	294	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.
26. Fare	295	300	Numeric RJ	F6.2	If mode of travel was bus, this is the fare paid.
27. Origin Code	301	302	Numeric RJ	I2	Code indicating origin of trip: 1-Home, 2-Other.
28. Origin Location	303	362	Alphanum. LJ	A60	Location that trip originated from (i.e. name, address, etc).
29. Origin County	363	365	Numeric RJ	I3	Code indicating origin county/location: 1 - El Paso County; 2 - New Mexico; 3 - Mexico; 96 - Other; 98 - Unknown; 99 - Refused.

Work Place Intercept Survey, Special Generator, El Paso International Airport, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
30. Other Origin County	366	395	Alphanum. LJ	A30	If county origin/location is coded as "other", this field contains the name of the county or location.
31. Longitude	396	405	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area the airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
32. Latitude	406	415	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area the airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
33. Zone Location	416	417	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address not located 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.
34. Origin Zone	418	422	Numeric RJ	I5	Zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study area, but within Texas should be coded to the state zone system. Unknown zone numbers in the study area the airport is located 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.
35. Entry Facility	423	452	Alphanum. LJ	A30	If origin is outside the study area the airport is located, this field should contain the name of the bridge, street, or highway used to enter the study area the airport is located.
36. Entry Study Area	453	454	Alphanum. LJ	A2	If origin is outside the study area, this field should contain a code indicating the study area where the bridge, street, or highway used to enter is located. E - El Paso study area
37. Entry External Zone	455	459	Numeric RJ	I5	If origin is outside the study area the airport is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area the airport is located.
38. Arrival Hour	460	462	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
39. Arrival Minute	463	465	Numeric RJ	I3	Minute person arrived at this site.
40. Trip Purpose	466	467	Numeric RJ	I2	Code indicating purpose of trip. See code definitions below.
41. Other Purpose	468	477	Alphanum. LJ	A10	If purpose is coded as "other", this contains description of purpose given.
42. Departure Mode	478	479	Numeric RJ	I2	Code indicating mode of departure from this airport. See definitions below.
43. Departure Mode Other	480	489	Alphanum. LJ	A10	If departure mode is coded "other", this field should contain a description of the mode given.
44. Depart Destination	490	491	Numeric RJ	I2	Code indicating destination when person departs from this site: 1-Home, 2-Other.
45. Destination Location	492	551	Alphanum. LJ	A60	Location of destination person is going.
46. Destination County	552	554	Numeric RJ	I3	Code indicating destination county/location: 1 – El Paso County; 2 – New Mexico; 3 – Mexico; 96 - Other; 98 – Unknown; 99 - Refused.
47. Other Destination County	555	584	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
48. Destination Longitude	585	594	Numeric RJ	F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
49. Destination Latitude	595	604	Numeric RJ	F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
50. Zone Location	605	606	Alphanum. LJ	A2	Code indicating location of destination address. E - El Paso study area. If address is not in 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.
51. Destination Zone	607	611	Numeric RJ	I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in the study area, but within Texas should be coded to the state zone system. Unknown zone numbers in the study area the airport is located should be coded as 8888. Unknown zone numbers not in the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.

Work Place Intercept Survey, Special Generator, El Paso International Airport, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
52. Exit Facility	612	641	Alphanum. LJ	A30	If destination is outside of the study area the airport is located, this field should contain the name of the bridge, street, or highway used to exit the study area the airport is located.
53. Exit Study Area	642	643	Alphanum. LJ	A2	If destination is outside the study area, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. E - El Paso study area.
54. Exit External Zone	644	648	Numeric RJ	I5	If destination is outside the study area the airport is located, this field should contain the external station number associated with the bridge, street, or highway used to exit the study area the airport is located.
55. Form Number	649	654	Numeric RJ	I6	Survey form number, which contains raw survey data.

23. 42. Mode of Transportation Codes

- 1 - Driver (car/truck/van)
- 2 - Passenger (car/truck/van)
- 3 - Walk
- 4 - Bicycle
- 5 - Transit Bus
- 6 - School Bus
- 7 - Taxi/Limo
- 8 - Commercial Cargo Transport Vehicle
- 9 - Commercial Service Vehicle
- 10 - Motorcycle
- 11 - Airplane
- 12 - Hotel/Motel Shuttle Bus/Van
- 13 - Other Parking Shuttle
- 14 - Other
- 99 - No Response

40. Trip Purpose Codes

- 1 - Return Home
- 2 - Work Related
- 3 - School Related
- 4 - Social/Recreational/Visit
- 5 - Shop
- 6 - Eat Out
- 7 - Personal Business
- 8 - Pick Up/Drop Off Passenger
- 9 - Change Travel Mode
- 10 - Delivery - Pick Up/Drop Off
- 11 - Other
- 99 - No Response

Work Place Intercept Survey, Special Generator, University of Texas at El Paso, Form B Format

This file contains the travel data for employees and visitors surveyed at special generator work places using Form B, Special Generator Intercept Travel Survey, University of Texas at El Paso. The data are in ASCII file format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code, which indicates the type of record. Here it should be SEU.
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Campus Location	12	61	Alphanum. LJ	A50	Location on campus where interviews are being conducted.
6. Site Number	62	66	Numeric RJ	I5	Unique non-zero number assigned to the university where these interviews were conducted.
7. Person Number	67	67	Numeric RJ	I1	Number of person being interviewed. This corresponds to the column number on the interview form.
8. Time Began	68	72	Numeric RJ	I5	Time interview began. Military time
9. Time Ended	73	77	Numeric RJ	I5	Time interview ended. Military time
10. Person Interviewed	78	79	Numeric RJ	I2	Code indicating if person being interviewed is an employee, a student, or a visitor. 1 - employee; 2 - student; 3 - visitor; 99 – Unknown/Refused
11. Campus Resident	80	81	Numeric RJ	I2	Code indicating if person lives on campus. 1 - Yes; 2 - No
12. Residence	82	106	Alphanum. LJ	A25	Name of city, county or country where person lives.
13. Residence Code	107	108	Numeric RJ	I2	Code indicating if residence is located outside the study area the generator is located. 1-Yes, 2-No, 99-Refused/Unknown.
14. Entry Road	109	138	Alphanum. LJ	A30	If person does not live in the study area that the workplace is located in, this field should contain the name of the street/highway/bridge the person was on when they entered the study area. Note that airport is a valid entry.
15. Study Area	139	140	Alphanum. LJ	A2	Code indicating study area where person entered. E - El Paso study area. If person lives in the same study area as the generator is located, this field should be blank.
16. Entry Zone	141	145	Numeric RJ	I5	Zone number associated with the street/highway/bridge person was on when they entered the El Paso study area. If person lives in the study area the generator is located in, this field should be blank.
17. Home Address	146	175	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
18. Intersecting Street	176	205	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.
19. Longitude	206	215	Numeric RJ	F10.0	Longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the generator is located in, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
20. Latitude	216	225	Numeric RJ	F10.0	Latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the generator is located in, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
21. Zone Location	226	227	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address is not located in 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.
22. Zone	228	232	Numeric RJ	I5	Zone number where person lives. Locations in Mexico should be coded 7777. Locations outside of the study area but within Texas should be coded to the state zone system. Unknown zone numbers within 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.
23. Arrival Mode	233	234	Numeric RJ	I2	Code indicating mode of arrival at the university. See definitions below.
24. Other Arrival Mode	235	244	Alphanum. LJ	A10	If arrival mode is coded "other", this field should contain a description of the mode given.
25. Number Persons	245	246	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.
26. Fare	247	252	Numeric RJ	F6.2	If mode of travel was bus, this is the fare paid.
27. Park Location	253	254	Numeric RJ	I2	Code indicating where person parked. See code definitions below.
28. Other Parking	255	304	Alphanum. LJ	A50	If park location is coded as other, this field contains description of where person parked.
29. Origin Code	305	306	Numeric RJ	I2	Code indicating origin of trip: 1-Home, 2-Other.
30. Origin Location	307	366	Alphanum. LJ	A60	Location that trip originated from (i.e. name, address, etc).

Work Place Intercept Survey, Special Generator, University of Texas at El Paso, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
31. Origin County	367	369	Numeric RJ	I3	Code indicating destination county/location: 1 – El Paso County; 2 – New Mexico; 3 – Mexico; 96 - Other; 98 – Unknown; 99 - Refused.
32. Other Origin County	370	399	Alphanum. LJ	A30	If county origin/location is coded as "other", this field contains the name of the county or location.
33. Longitude	400	409	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
34. Latitude	410	419	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
35. Zone Location	420	421	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address not located in 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.
36. Origin Zone	422	426	Numeric RJ	I5	Zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study area, but within Texas should be coded to the state zone system. Unknown zone numbers in the n 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.
37. Entry Facility	427	456	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.
38. Entry Study Area	457	458	Alphanum. LJ	A2	If origin is outside of the study area, this field should contain a code indicating where the bridge, street, or highway used to enter is located. E - El Paso study area.
39. Entry External Zone	459	463	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.
40. Arrival Hour	464	466	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
41. Arrival Minute	467	469	Numeric RJ	I3	Minute person arrived at this site.
42. Trip Purpose	470	471	Numeric RJ	I2	Code indicating purpose of trip. See code definitions below.
43. Other Purpose	472	481	Alphanum. LJ	A10	If purpose is coded as "other", this contains description of purpose given.
44. Departure Mode	482	483	Numeric RJ	I2	Code indicating mode of departure from the university. See definitions below.
45. Departure Mode Other	484	493	Alphanum. LJ	A10	If departure mode is coded "other", this field should contain a description of the mode given.
46. Depart Destination	494	495	Numeric RJ	I2	Code indicating destination when person departs from the university: 1- Home, 2-Other.
47. Destination Location	496	555	Alphanum. LJ	A60	Name & address of destination person is going.
48. Destination County	556	558	Numeric RJ	I3	Code indicating destination county/location: 1 – El Paso County; 2 – New Mexico; 3 – Mexico; 96 - Other; 98 – Unknown; 99 - Refused.
49. Other Destination County	559	588	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
50. Destination Longitude	589	598	Numeric RJ	F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
51. Destination Latitude	599	608	Numeric RJ	F10.0	Latitude 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 the study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
52. Zone Location	609	610	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address is not in 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.
53. Destination Zone	611	615	Numeric RJ	I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in 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 not in study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.

Work Place Intercept Survey, Special Generator, University of Texas at El Paso, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
54. Exit Facility	616	645	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 exit the study area.
55. Exit Study Area	646	647	Alphanum. LJ	A2	If destination is outside of the study area, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. E - El Paso study area.
56. Exit External Zone	648	652	Numeric RJ	I5	If destination is outside of the study area, this field should contain the external station number associated with the bridge, street, or highway used to exit the study area.
57. Form Number	653	658	Numeric RJ	I6	Survey form number, which contains raw survey data.

23. 44. Mode of Transportation Codes

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

42. Trip Purpose Codes

- 1 - Return Home
- 2 - Work Related
- 3 - School
- 4 - Social/Recreational/Visit
- 5 - Shop
- 6 - Eat Out
- 7 - Personal Business
- 8 - Pick Up/Drop Off Passenger
- 9 - Change Travel Mode
- 10 - Delivery - Pick Up/Drop Off
- 11 - Other
- 99 - No Response

27. Park Location Codes

- 1 - On-Campus
- 2 - Off Campus Parking Lot
- 3 - Off Campus in Street Designated Parking Spot
- 4 - Other

Work Place Intercept Survey, Special Generator, Hospital, Mall, Military Base, Form B Format

This file contains the travel data for employees and visitors surveyed at special generator work places using Form B, Special Generator Intercept Travel Survey. The data are in ASCII file format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code, which indicates the type of record. Here it should be SEH, SEM, or SFB depending on the special generator being surveyed.
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Name of Generator	12	61	Alphanum. LJ	A50	Name of generator being surveyed.
6. Location	62	111	Alphanum. LJ	A50	Approximate location in generator where interviews are being conducted.
7. Site Number	112	116	Numeric RJ	I5	Unique non-zero number assigned to the generator where these interviews were conducted.
8. Person Number	117	117	Numeric RJ	I1	Number of person being interviewed. This corresponds to the column number on the interview form.
9. Time Began	118	122	Numeric RJ	I5	Time interview began. Military time
10. Time Ended	123	127	Numeric RJ	I5	Time interview ended. Military time
11. Person Interviewed	128	129	Numeric RJ	I2	Code indicating if person being interviewed is an employee or a visitor. 1 - employee; 2 - visitor; 99 - Unknown/Refused
12. Residence	130	154	Alphanum. LJ	A25	Name of city, county or country where person lives.
13. Residence Code	155	156	Numeric RJ	I2	Code indicating if residence is located outside the study area the generator is located. 1-Yes, 2-No, 99-Refused/Unknown.
14. Entry Road	157	186	Alphanum. LJ	A30	If person does not live in study area the generator is located, this field should contain the name of the street/highway/bridge the person was on when they entered the study area the generator is located. Note that airport is a valid entry.
15. Study Area	187	188	Alphanum. LJ	A2	Code indicating study area where person entered. E - El Paso study area. If person lives in study area generator is located, this field should be blank.
16. Entry Zone	189	193	Numeric RJ	I5	Zone number associated with the street/highway/bridge person was on when they entered the study area the generator is located. If person lives in study area, this field should be blank.
17. Home Address	194	223	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
18. Intersecting Street	224	253	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.
19. Longitude	254	263	Numeric RJ	F10.0	Longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the generator is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
20. Latitude	264	273	Numeric RJ	F10.0	Latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the generator is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
21. Zone Location	274	275	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address is not located in 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.
22. Zone	276	280	Numeric RJ	I5	Zone number where person lives. 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 within the study area the generator is located 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.
23. Arrival Mode	281	282	Numeric RJ	I2	Code indicating mode of arrival at this generator. See definitions below.
24. Other Arrival Mode	283	292	Alphanum. LJ	A10	If arrival mode is coded "other", this field should contain a description of the mode given.
25. Number Persons	293	294	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.
26. Fare	295	300	Numeric RJ	F6.2	If mode of travel was bus, this is the fare paid.
27. Origin Code	301	302	Numeric RJ	I2	Code indicating origin of trip: 1-Home, 2-Other.
28. Origin Location	303	362	Alphanum. LJ	A60	Location that trip originated from (i.e. name, address, etc).
29. Origin County	363	365	Numeric RJ	I3	Code indicating destination county/location: 1 - El Paso County; 2 - New Mexico; 3 - Mexico; 96 - Other; 98 - Unknown; 99 - Refused.
30. Other Origin County	366	395	Alphanum. LJ	A30	If county origin/location is coded as "other", this field contains the name of the county or location.

Work Place Intercept Survey, Special Generator, College-University, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
31. Longitude	396	405	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area the generator is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
32. Latitude	406	415	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area the generator is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
33. Zone Location	416	417	Alphanum. LJ	A2	Code indicating location of address. E - El Paso study area. If address not located 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.
34. Origin Zone	418	422	Numeric RJ	I5	Zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study area, but within Texas should be coded to the state zone system. Unknown zone numbers in the study area the generator is located 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.
35. Entry Facility	423	452	Alphanum. LJ	A30	If origin is outside the study area the generator is located, this field should contain the name of the bridge, street, or highway used to enter the study area the generator is located.
36. Entry Study Area	453	454	Alphanum. LJ	A2	If origin is outside the study area, this field should contain a code indicating the study area where the bridge, street, or highway used to enter is located. E - El Paso study area
37. Entry External Zone	455	459	Numeric RJ	I5	If origin is outside the study area the generator is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area the generator is located.
38. Arrival Hour	460	462	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
39. Arrival Minute	463	465	Numeric RJ	I3	Minute person arrived at this site.
40. Trip Purpose	466	467	Numeric RJ	I2	Code indicating purpose of trip. See code definitions below.
41. Other Purpose	468	477	Alphanum. LJ	A10	If purpose is coded as "other", this contains description of purpose given.
42. Depart Destination	478	479	Numeric RJ	I2	Code indicating destination when person departs from this site: 1-Home, 2-Other.
43. Destination Location	480	539	Alphanum. LJ	A60	Location of destination person is going.
44. Destination County	540	542	Numeric RJ	I3	Code indicating destination county/location: 1 – El Paso County; 2 – New Mexico; 3 – Mexico; 96 - Other; 98 – Unknown; 99 - Refused.
45. Other Destination County	543	572	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
46. Destination Longitude	573	582	Numeric RJ	F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the generator is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
47. Destination Latitude	583	592	Numeric RJ	F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the generator is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
48. Zone Location	593	594	Alphanum. LJ	A2	Code indicating location of destination address. E - El Paso study area. If address is not in 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.
49. Destination Zone	595	599	Numeric RJ	I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in the study area, but within Texas should be coded to the state zone system. Unknown zone numbers in the study area the generator is located should be coded as 8888. Unknown zone numbers not in the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
50. Exit Facility	600	629	Alphanum. LJ	A30	If destination is outside of the study area the generator is located, this field should contain the name of the bridge, street, or highway used to exit the study area the generator is located.

Work Place Intercept Survey, Special Generator, College-University, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
51. Exit Study Area	630	631	Alphanum. LJ	A2	If destination is outside the study area, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. E - El Paso study area.
52. Exit External Zone	632	636	Numeric RJ	I5	If destination is outside the study area the generator is located, this field should contain the external station number associated with the bridge, street, or highway used to exit the study area the generator is located.
53. Form Number	637	642	Numeric RJ	I6	Survey form number, which contains raw survey data.

23. Mode of Transportation Codes

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

40. Trip Purpose Codes

- 1 - Return Home
- 2 - Work Related
- 3 - School Related
- 4 - Social/Recreational/Visit
- 5 - Shop
- 6 - Eat Out
- 7 - Personal Business
- 8 - Pick Up/Drop Off Passenger
- 9 - Change Travel Mode
- 10 - Delivery - Pick Up/Drop Off
- 11 - Other
- 99 - No Response