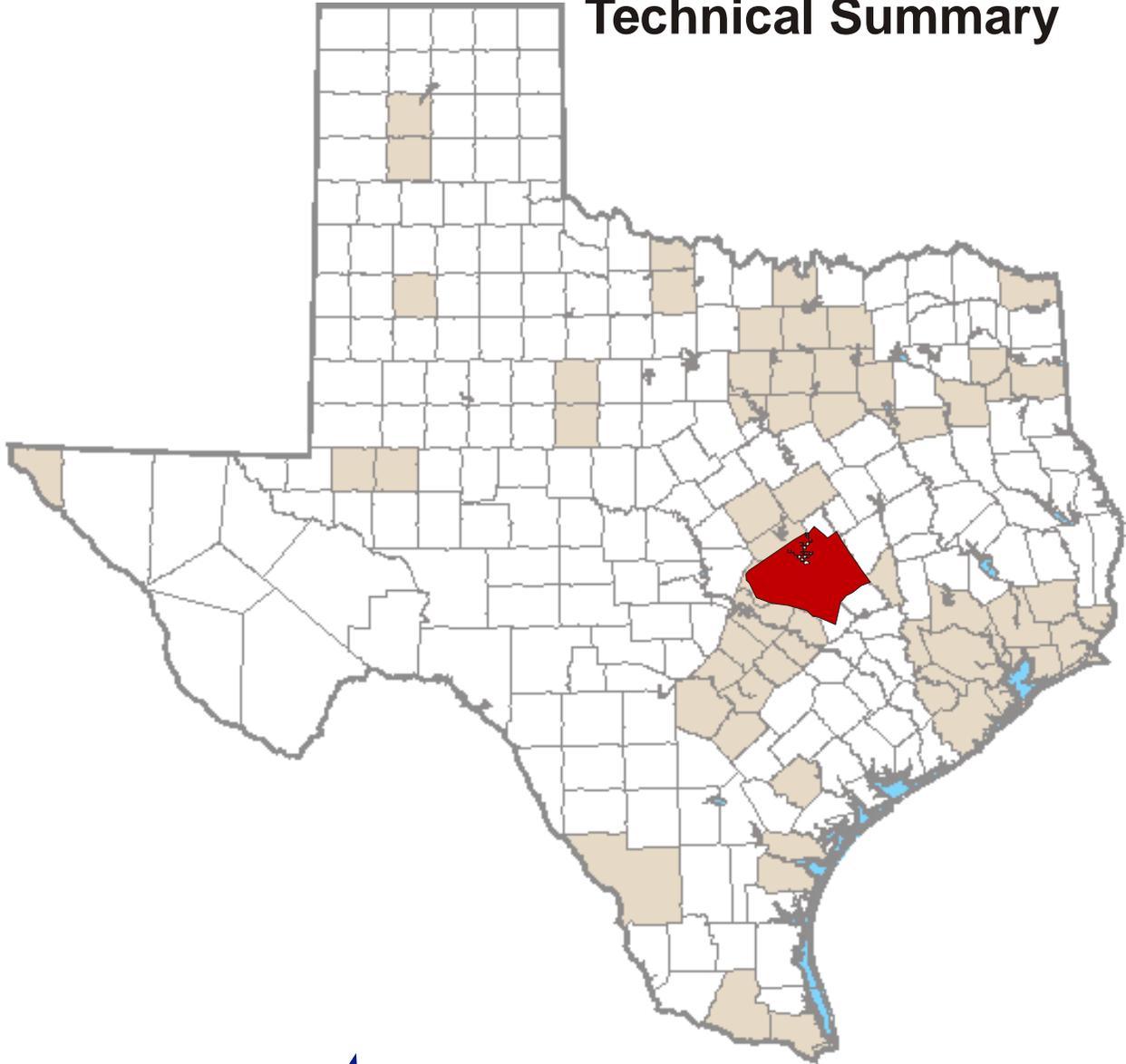


2010 Killeen-Temple Work Place Travel Survey Technical Summary



Prepared by the
Texas Transportation Institute
August 2011

**2010 Killeen-Temple
Work Place Travel Survey**

TECHNICAL SUMMARY

Texas Department of Transportation Travel Survey Program

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INTRODUCTION

In 2010, the Transportation Planning and Programming (TPP) Division of the Texas Department of Transportation (TxDOT) funded a work place and special generator survey in the Killeen-Temple Metropolitan Planning Organization (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 will enable TxDOT to develop and/or update trip attraction models to forecast travel demand within the Killeen-Temple urban areas.

The study area, shown in Figure 1, is located in Central Texas, and covers Bell County and portions of Coryell and Lampasas counties. The cities of Killeen and Temple are the main urban centers in the study area with a total combined population of 176,600 in 2008. Fort Hood, which is a U.S. military base located outside of Killeen, is considered a special traffic generator in the study area. It is a census designated place in Bell County with some portions of the base lying in Coryell County, and has a total population of 34,200.

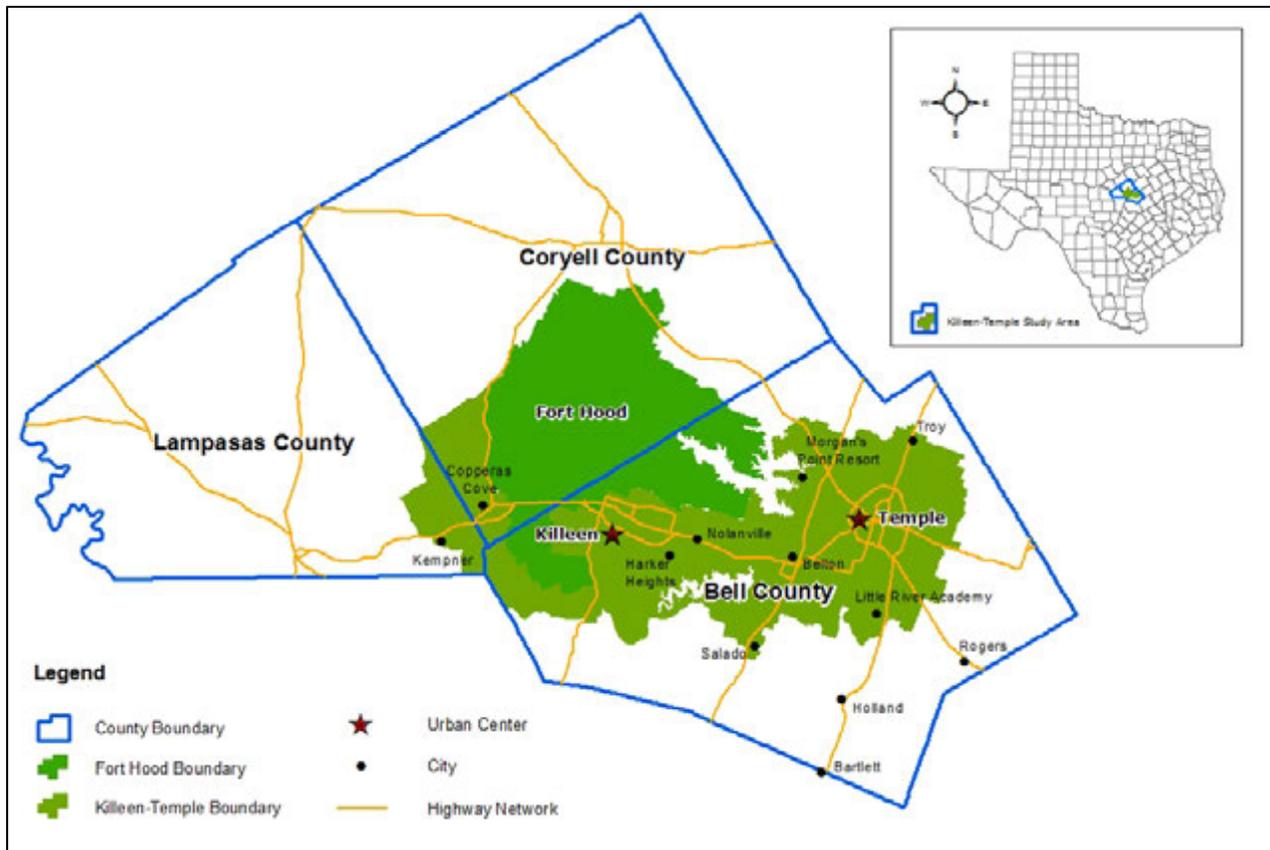


Figure 1. Killeen-Temple MPO Study Area.

This report presents a technical summary of the Killeen-Temple 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 generators travel surveys were conducted during the period between April 2010 through June and October 2010. TxDOT contracted with Gram Traffic Counting, Inc. to conduct the Killeen-Temple Work Place Survey. The Texas Transportation Institute (TTI) provided technical assistance to both TxDOT and Gram in the effort.

The Killeen-Temple 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 or exited the establishments. All survey participants were randomly selected, and they 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) or video cameras. 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 making deliveries or picking up at the establishment using ACRs, video cameras, or manual counts.

The surveyed establishments were classified as either full survey sites or partial survey sites, and further distinguished according to their free standing or non-free standing status. 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 – based on the North American Industry Classification System (NAICS) code for establishments 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
Retail	44-45	Retail Trade
	71	Arts, Entertainment, and Recreation
	72	Accommodation and Food Services
Service	51	Information
	52	Finance and Insurance
	53	Real Estate and Rental and Leasing
	54	Professional, Scientific, and Technical Services
	55	Management of Companies and Enterprises
	56	Administrative and Support and Waste Management and Remediation Services
	62	Health Care and Social Assistance
	81	Other Services (except Public Administration)
	92	Public Administration
Education	61	Educational Services

SAMPLING PLAN AND RECRUITMENT

The sampling plan included 100 full surveys and 200 partial surveys. A greater number of partial surveys were used to control costs but still obtain adequate data for modeling purposes. 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	20	30
Retail	30	70
Service	30	70
Education	20	30
Total	100	200

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 5,045 work places were included in the list, which consisted of 1,060 basic, 1,326 retail, 2,496 service, and 163 education types of establishments.

Overall, 1,143 establishments were contacted as part of the Killeen-Temple 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 three categories:

- Agreed to Participate. The establishment is located within the study area and agreed to participate to a full or partial survey.
- Refused with Data. The establishment refused to participate in the survey but provided general data.
- Refused without Data. The establishment refused to participate in the survey and did not provide general data.

Table 3. Work Place Survey Recruitment Participation.

Employment Type	Recruitment Category			
	Agreed to Participate	Refused with Data	Refused without Data	Total
Basic	50	2	203	255
Retail	100	3	292	395
Service	100	3	300	403
Education	50	-	32	82
Others (Special Generator)	8	-	-	8
Total	308	8	827	1,143
Business Location				
Study Area	308	8	648	964
Outside Study Area	-	-	90	90
Unknown Location	-	-	89	89
Total	308	8	827	1,143

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 to determine the zone where it was located, and to determine its area type.

Area type is generally determined by density and land use activity within a Traffic Analysis Zone (TAZ) and its adjacent zones. It is measured based on population and employment relative to the analysis area. The density values are in persons 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. Typically, there are six area types – 1 - Central Business District (CBD), 2 -CBD Fringe, 3 - Urban, 4 - Sub-Urban, 5 - Sub-Urban Fringe, and 6 - Rural. The range of density values for each area type varies from one urban area to another.

Figure 2 shows five area types in the Killeen-Temple study area. The density factors for each area type are: CBD (density > 40), CBD Fringe (density between 15 and 40), Urban (density between 8 and 15), Sub-Urban (density between 1 and 8), and Rural (density < 1). The area type was based on 1997 data that was being used and carried forward for all transportation planning forecasts by the Killeen-Temple MPO.

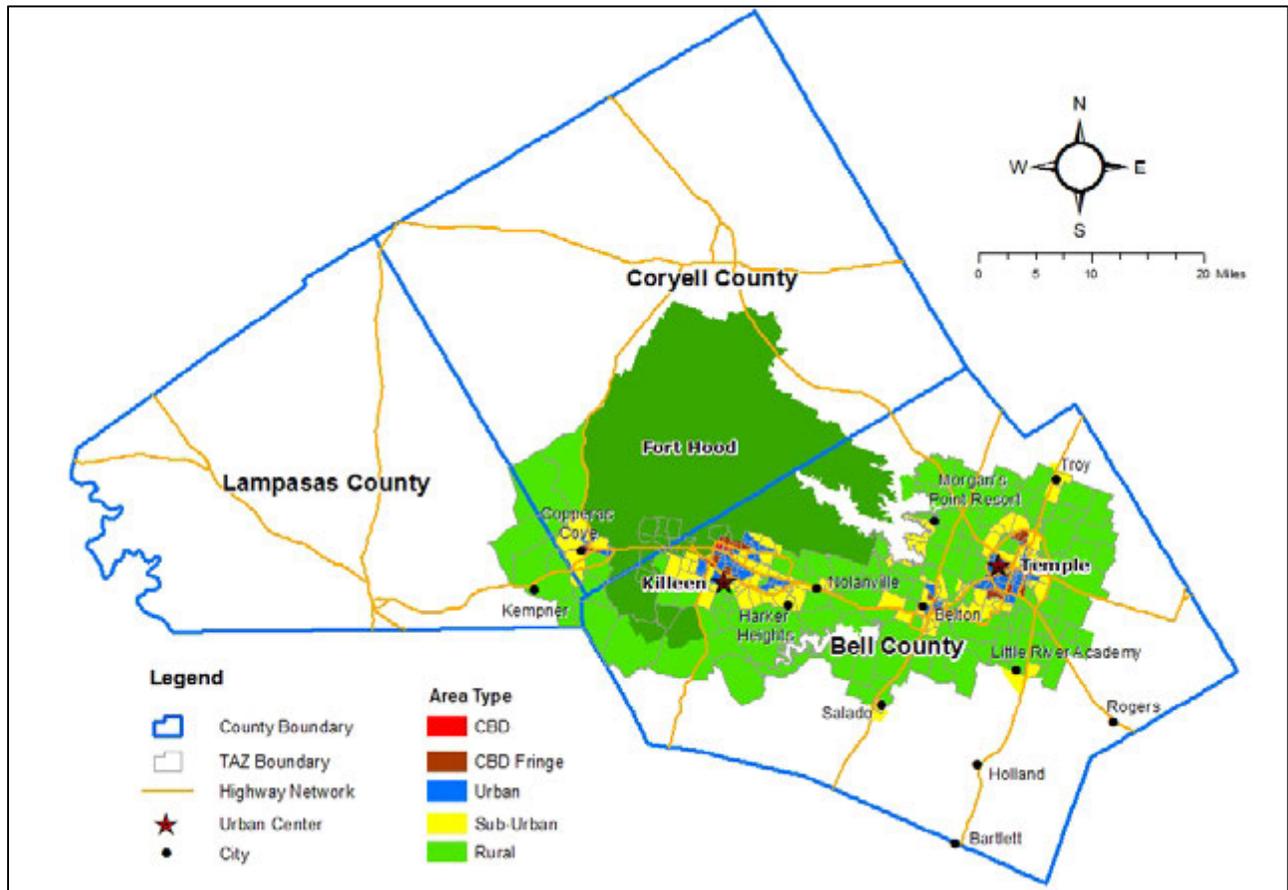


Figure 2. Killeen-Temple MPO Area Type.

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.

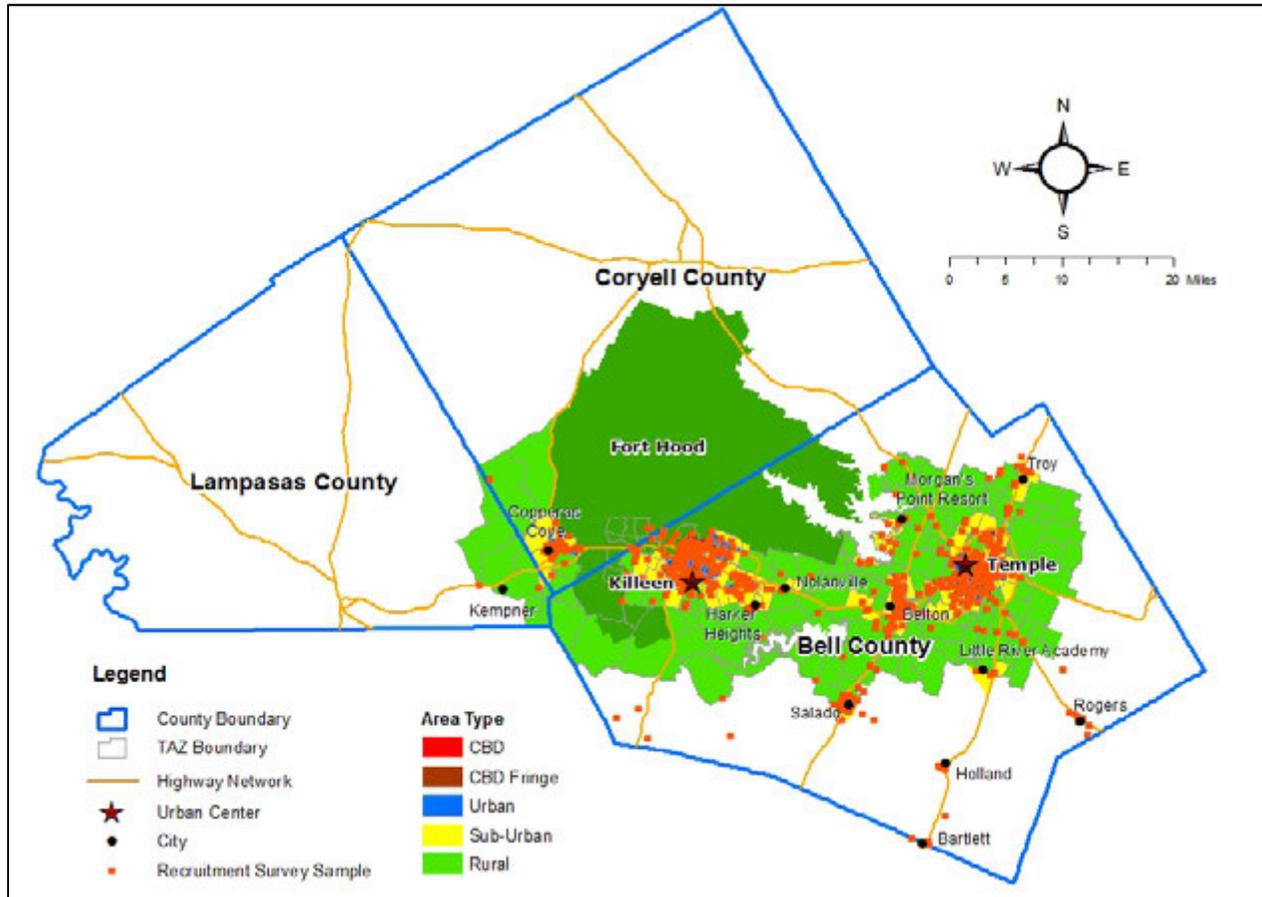


Figure 3. Killeen-Temple Study Area - Recruitment Survey Site Locations.

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

Area Type	Basic	Retail	Service	Education	Special Generator	Total
CBD	13	37	44	4	-	98
CBD Fringe	28	61	65	7	2	163
Urban	33	127	87	18	3	268
Sub-Urban	57	95	92	28	1	273
Rural	41	23	41	7	2	114
Total	172	343	329	64	8	916
Unclassified Area	25	9	7	7	-	48

SURVEY RESULTS

A total of 298 establishment and eight special generator surveys were completed in the Killeen-Temple work place survey. There were 100 full sites surveyed and 198 partial sites surveyed. The distribution of surveyed work places by employment type slightly differed from the pre-determined sample targets. Some surveyed establishments were coded with employment types that were not consistent with their reported NAICS code. One special generator was considered as a partial survey site because it did not participate in the full survey as originally intended.

Figure 4 shows the general locations of surveyed establishments in the Killeen-Temple 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. Tables 6 and 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.

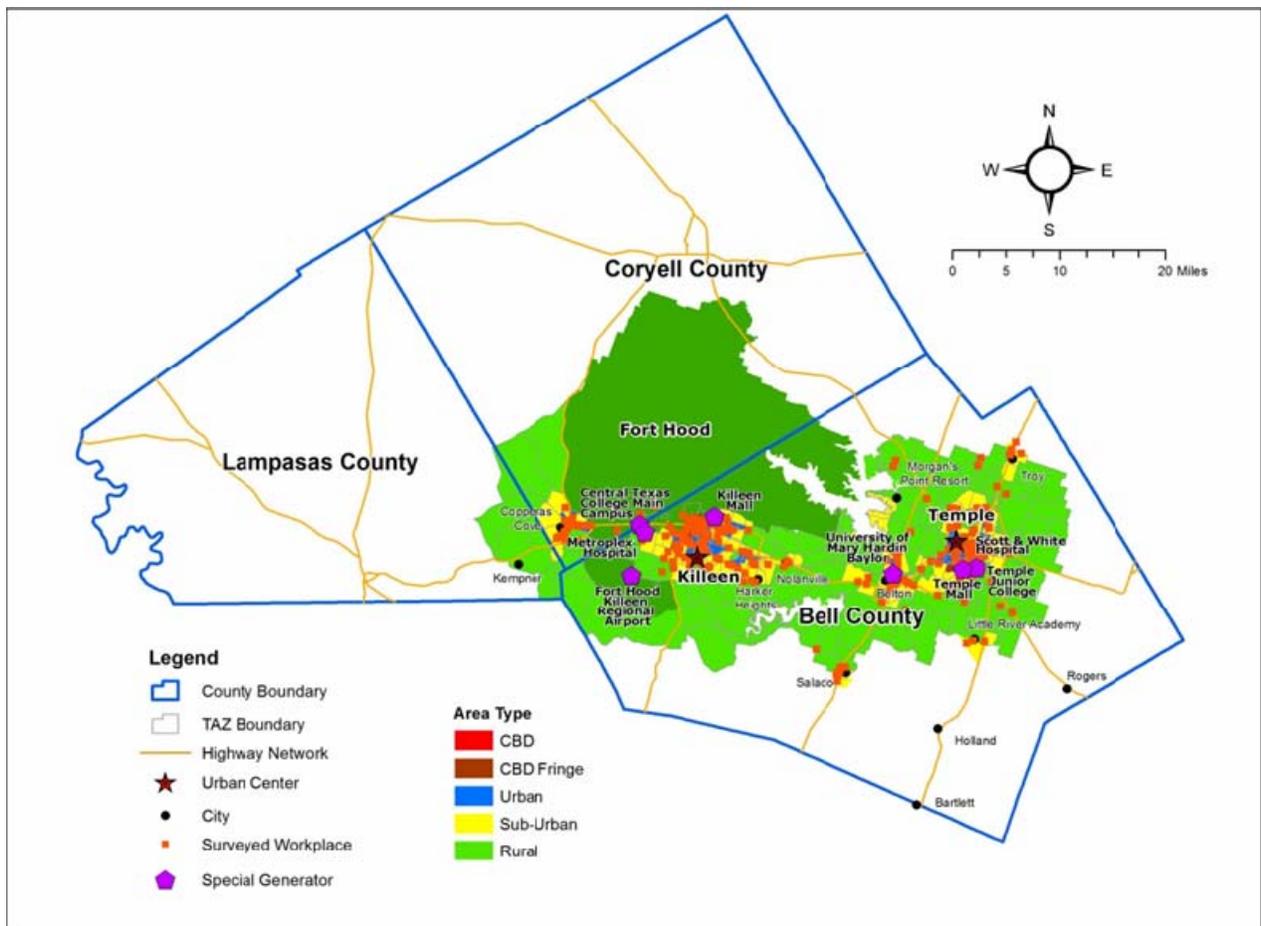


Figure 4. Killeen-Temple Study Area Surveyed Work Place Locations.

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

Area Type	Basic		Retail		Service		Education		Total	
	Full	Partial	Full	Partial	Full	Partial	Full	Partial	Full	Partial
CBD	1	0	2	8	4	8	0	1	7	17
CBD Fringe	2	5	2	18	7	10	2	1	13	34
Urban	2	4	12	20	10	20	6	9	30	53
Sub-Urban	11	8	7	20	8	20	7	14	33	62
Rural	4	9	5	6	2	12	6	5	17	32
Total	20	26	28	72	31	70	21	30	100	198

Table 6. Full Establishment Surveys.

Area Type	Item	Basic	Retail	Service	Education	Total
CBD	Number of sites	1	2	4	0	7
	Surveyed employees	7	4	44	0	55
	Surveyed visitors	19	37	78	0	134
	Total employment	10	5	78	0	93
	Employees at work	7	5	65	0	77
CBD Fringe	Number of sites	2	2	7	2	13
	Surveyed employees	110	6	21	34	171
	Surveyed visitors	6	42	72	60	180
	Total employment	386	21	42	91	540
	Employees at work	286	12	40	91	429
Urban	Number of sites	2	12	10	6	30
	Surveyed employees	18	83	36	150	287
	Surveyed visitors	5	582	56	61	704
	Total employment	63	226	57	386	732
	Employees at work	56	173	47	381	657
Sub-Urban	Number of sites	11	7	8	7	33
	Surveyed employees	105	26	32	158	321
	Surveyed visitors	40	176	81	84	381
	Total employment	189	77	59	410	735
	Employees at work	156	71	53	405	685
Rural	Number of sites	4	5	2	6	17
	Surveyed employees	10	25	10	217	262
	Surveyed visitors	10	426	8	104	548
	Total employment	20	96	12	535	663
	Employees at work	14	95	12	520	641
Total	Number of sites	20	28	31	21	100
	Surveyed employees	250	144	143	559	1,096
	Surveyed visitors	80	1,263	295	309	1,947
	Total employment	668	425	248	1,422	2,763
	Employees at work	519	356	217	1,397	2,489

Table 7. Partial Establishment Surveys.

Area Type	Item	Basic	Retail	Service	Education	Total
CBD	Number of sites	0	8	8	1	17
	Total employment	0	119	170	33	322
	Employees at work	0	77	126	30	233
CBD Fringe	Number of sites	5	18	10	1	34
	Total employment	117	307	202	50	676
	Employees at work	81	230	151	50	512
Urban	Number of sites	4	20	20	9	53
	Total employment	27	191	268	621	1,107
	Employees at work	25	155	218	607	1,005
Sub-Urban	Number of sites	8	20	20	14	62
	Total employment	435	1,007	497	1,272	3,211
	Employees at work	412	602	446	1,239	2,699
Rural	Number of sites	9	6	12	5	32
	Total employment	180	107	90	566	943
	Employees at work	143	68	81	556	848
Total	Number of sites	26	72	70	30	198
	Total employment	759	1,731	1,227	2,542	6,259
	Employees at work	661	1,132	1,022	2,482	5,297

The full survey sites consisted of 100 sites (71 free standing and 29 non-free standing) that reported a total employment of 2,763. A total of 1,096 employees and 1,947 non-employees (referred to in this report as visitors) participated in the intercept survey. The surveyed employees represented approximately 42 percent of the total 2,589 employees reported to be at work during the travel survey day.

The partial survey sites consisted of 198 sites (128 free standing and 70 non-free standing) that reported a total employment of 6,259, of which 5,297 employees were reported to be at work during the travel survey day. 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 94 percent of the employees and visitors were residents of the study area, and the remaining 6 percent were non-residents. Tables 8 and 9 provide a summary of resident and non-resident locations of survey participants, respectively. The majority of residents lived in the Killeen, Temple, and Belton areas. Other residence locations within the study area included Troy, Kempner, Salado, and Nolanville. Nearly one-third of non-residents were from Waco, Moody, and Gatesville, while out-of-state visitors came from Arizona, Oklahoma, Missouri, Mississippi, Ohio, Florida, and Wisconsin.

Table 8. Residence Locations of Surveyed Residents.

Location	Employees		Visitors		Total	
	Number	Percent of Total	Number	Percent of Total	Number	Percent of Total
Belton	226	21.96	255	13.98	481	16.86
Copperas Cove	121	11.76	125	6.85	246	8.62
Harker Heights	60	5.83	169	9.27	229	8.03
Killeen	251	24.39	760	41.67	1011	35.44
Temple	262	25.46	363	19.90	625	21.91
Other (within study area)	109	10.60	152	8.33	261	9.14
Total	1,029	100.00	1,824	100.00	2,853	100.00

Table 9. Residence Locations of Surveyed Non-Residents.

Location	Employees		Visitors		Total	
	Number	Percent of Total	Number	Percent of Total	Number	Percent of Total
Gatesville	4	5.97	12	9.76	16	8.42
Moody	12	17.91	9	7.32	21	11.05
Waco	14	20.90	8	6.50	22	11.58
Other (within Texas)	37	55.22	83	67.48	120	63.16
Outside Texas	-	-	11	8.94	11	5.79
Total	67	100.00	123	100.00	190	100.00

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 from the establishment lived outside the study area.

Table 10 shows the number and percentages of trip purposes to and from the work place. Note that these percentages would significantly change after weighting was applied to the raw data during the survey expansion process.

Table 10. Surveyed Trip Purposes to and from the Work Place.

Trip Purpose	Number of Trips	Percent of Total
HBW	1,836	30.25
HBNW	2,787	45.92
NHB-D	275	4.53
NHB -O	637	10.50
EXT-D	85	1.40
EXT-O	69	1.14
NON RES	380	6.26
Total	6,069	100.00

Table 11 provides the breakdown of surveyed trips by trip purpose and by area and employment types. Seventeen trips were not counted because they were reported as ‘not the first establishment visited’ and therefore were considered as trip productions and not attractions to the work place.

Table 11. Surveyed Trip Purposes to and from the Work Place by Area and Employment Types.

Area Type	Employment Type	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	Total
CBD	Basic	8	19	6	13	1	1	4	52
	Retail	6	37	10	18	3	2	6	82
	Service	81	110	16	23	1	1	12	244
	Education	0	0	0	0	0	0	0	0
CBD Fringe	Basic	172	8	0	5	4	3	40	232
	Retail	10	55	1	12	5	3	10	96
	Service	34	106	8	25	2	2	4	181
	Education	63	88	10	26	1	0	0	188
Urban	Basic	31	7	1	1	0	0	6	46
	Retail	145	901	65	120	12	9	68	1,320
	Service	64	84	10	12	3	1	10	184
	Education	261	80	10	48	5	4	14	422
Sub-Urban	Basic	170	39	10	21	4	6	40	290
	Retail	56	264	7	31	4	4	38	404
	Service	54	115	19	28	2	2	4	224
	Education	234	141	24	47	12	8	18	484
Rural	Basic	24	9	1	0	0	0	6	40
	Retail	41	549	49	151	19	19	74	902
	Service	15	16	0	1	0	0	4	36
	Education	367	159	28	55	7	4	22	642
Total	Basic	405	82	18	40	9	10	96	660
	Retail	258	1,806	132	332	43	37	196	2,804
	Service	248	431	53	89	8	6	34	869
	Education	925	468	72	176	25	16	54	1,736
Total Trips		1,836	2,787	275	637	85	69	380	6,069

Mode of Travel and Vehicle Occupancy

Table 12 shows the distribution of surveyed trips by mode of travel to the work place. The majority of trips were made by drivers of cars, trucks, or vans. More than two percent were passengers of a vehicle. The average occupancy was estimated at 1.37 persons per vehicle.

Table 12. Mode of Travel to the Work Place.

Mode	Number of Trips	Percent of Total Trips	Average Vehicle Occupancy
Driver (car/truck/van)	2,930	96.28	1.36
Passenger (car/truck/van)	69	2.27	2.33
Walk	21	0.69	-
Bicycle	4	0.13	-
Transit Bus	3	0.10	-
School Bus	3	0.10	-
Taxi/Limo	1	0.03	2.00
Commercial Cargo Transport Vehicle	6	0.20	0.83
Commercial Service Vehicle	3	0.10	1.67
Motorcycle	3	0.10	1.00
Total	3,043	100.00	1.37

Trip Length

Each trip in the survey, based on its reported origin location and destination location, was geocoded to either a TAZ system for the Killeen-Temple 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 for each trip to the surveyed work place was estimated using the transportation network matrix available for the Killeen-Temple study area that provides the zone-to-zone trip lengths. The travel time for each trip was not estimated since the travel time data for the Killeen-Temple network was still incomplete at the time of this report.

The analyses of trip length presented in this section pertain only to inter-zonal trips by the auto driver mode of travel to the work place, since the Killeen-Temple network matrix only provides distances between zones and not within zones (i.e., intra-zonal). Table 13 shows the trip lengths to the work place by surveyed trip purpose, while Tables 14 and 15 show the trip length frequency distributions (TLFDs), grouped at five-mile intervals. Table 16 shows the ungrouped results of the TLFDs for person and vehicle trips. The average inter-zonal trip length to the work place was 8.38 miles per person trip and 8.23 miles per vehicle trip. More than 50 percent of the observed trips traveled a distance of less than five miles.

Table 13. Surveyed Inter-Zonal Trip Lengths to the Work Place 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	829	135	6.14	802	132	6.07
HBNW	5,177	547	9.46	3,288	345	9.53
NHB-D	1,874	288	6.51	1,235	186	6.64
EXT-D	10	2	4.90	10	2	4.90
NON-RES	536	34	15.76	318	22	14.44
Total	8,426	1,006	8.38	5,653	687	8.23

Table 14. Surveyed Person Trip TLFDs (Grouped).

Trip Length	HBW	HBNW	NHB-D	EXT-D	NON-RES	Total
Less than 5 miles	87	251	168	2	7	515
5 to 10 miles	32	135	77	0	8	252
10 to 15 miles	8	42	16	0	0	66
15 to 20 miles	2	30	14	0	7	53
20 to 25 miles	4	63	10	0	8	85
25 to 30 miles	1	15	1	0	4	21
30 to 35 miles	1	10	1	0	0	12
40 to 45 miles	0	1	0	0	0	1
More than 45 miles	0	0	1	0	0	1
Total	135	547	288	2	34	1,006

Table 15. Surveyed Vehicle Trip TLFDs (Grouped).

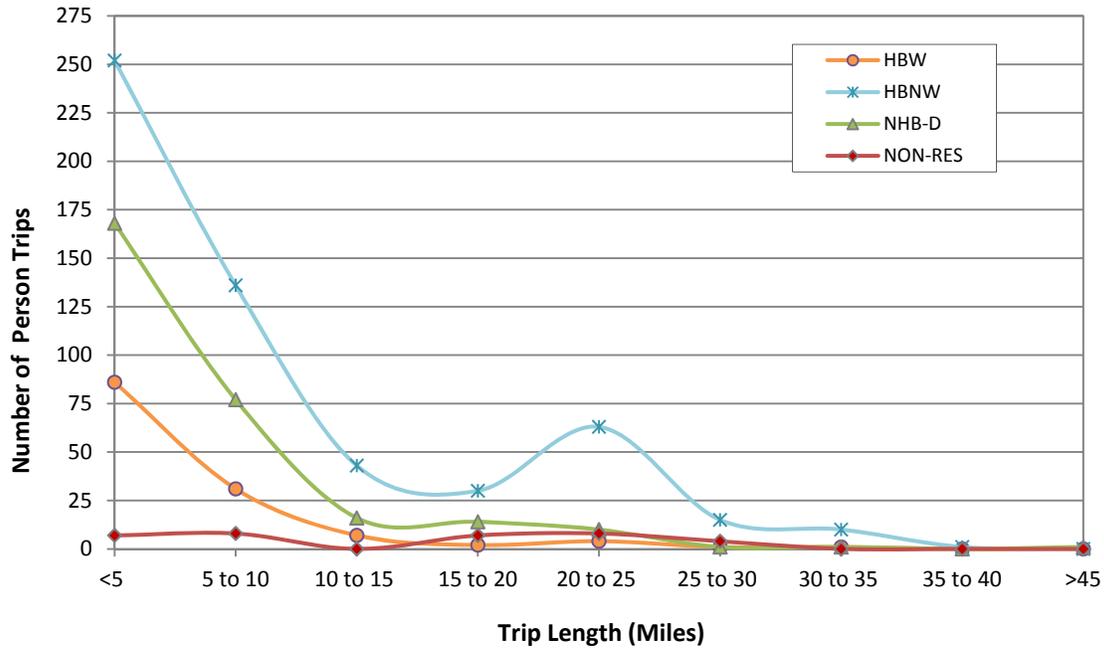
Trip Length	HBW	HBNW	NHB-D	EXT-D	NON-RES	Total
Less than 5 miles	86	163	104	2	5	360
5 to 10 miles	31	76	53	0	7	167
10 to 15 miles	7	28	13	0	0	48
15 to 20 miles	2	24	7	0	3	36
20 to 25 miles	4	37	6	0	5	52
25 to 30 miles	1	11	1	0	2	15
30 to 35 miles	1	5	1	0	0	7
40 to 45 miles	0	1	0	0	0	1
More than 45 miles	0	0	1	0	0	1
Total	132	345	186	2	22	687

Table 16. Person and Vehicle Trip TLFDs (Ungrouped).

Miles	Person Trips					Vehicle Trips				
	HBW	HBNW	NHB-D	EXT-D	NON-RES	HBW	HBNW	NHB-D	EXT-D	NON-RES
1	18	65	48	0	0	18	43	34	0	0
2	27	52	48	0	1	27	33	29	0	1
3	16	54	28	0	1	15	37	18	0	1
4	15	55	32	1	4	15	35	16	1	2
5	11	25	12	1	1	11	15	7	1	1
6	10	38	33	0	0	10	21	23	0	0
7	7	35	15	0	1	6	16	9	0	1
8	7	26	16	0	2	7	15	10	0	2
9	4	16	7	0	2	4	11	6	0	2
10	4	20	6	0	3	4	13	5	0	2
11	3	17	4	0	0	3	12	3	0	0
12	0	11	5	0	0	0	8	3	0	0
13	1	8	4	0	0	1	4	4	0	0
14	1	2	1	0	0	1	1	1	0	0
15	3	4	2	0	0	2	3	2	0	0
16	0	15	3	0	0	0	10	1	0	0
17	0	4	1	0	0	0	4	1	0	0
18	2	3	5	0	4	2	3	2	0	1
19	0	4	3	0	0	0	4	2	0	0
20	0	4	2	0	3	0	3	1	0	2
21	2	21	2	0	0	2	10	2	0	0
22	0	11	4	0	0	0	7	2	0	0
23	0	13	0	0	6	0	9	0	0	3
24	1	8	4	0	0	1	5	2	0	0
25	1	10	0	0	2	1	6	0	0	2
26	1	3	0	0	3	1	2	0	0	1
27	0	7	0	0	1	0	5	0	0	1
28	0	3	1	0	0	0	2	1	0	0
30	0	2	0	0	0	0	2	0	0	0
31	0	8	0	0	0	0	3	0	0	0
33	0	1	1	0	0	0	1	1	0	0
35	1	1	0	0	0	1	1	0	0	0
36	0	1	0	0	0	0	1	0	0	0
41	0	0	1	0	0	0	0	1	0	0
Total	135	547	288	2	34	132	345	186	2	22

Figures 5a and 5b illustrate the TLFDs by purpose for person and vehicle trips to the work place that were included in Tables 14 and 15. Similarly, Figures 6a and 6b show the ungrouped TLFDs that were included in Table 16.

(a) Person Trips



(b) Vehicle Trips

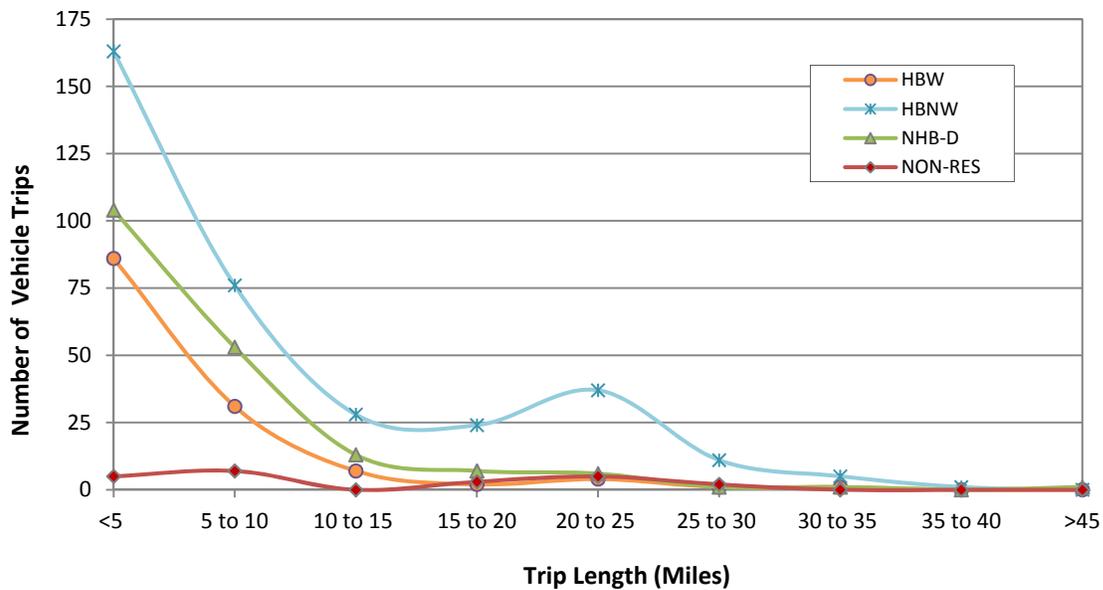
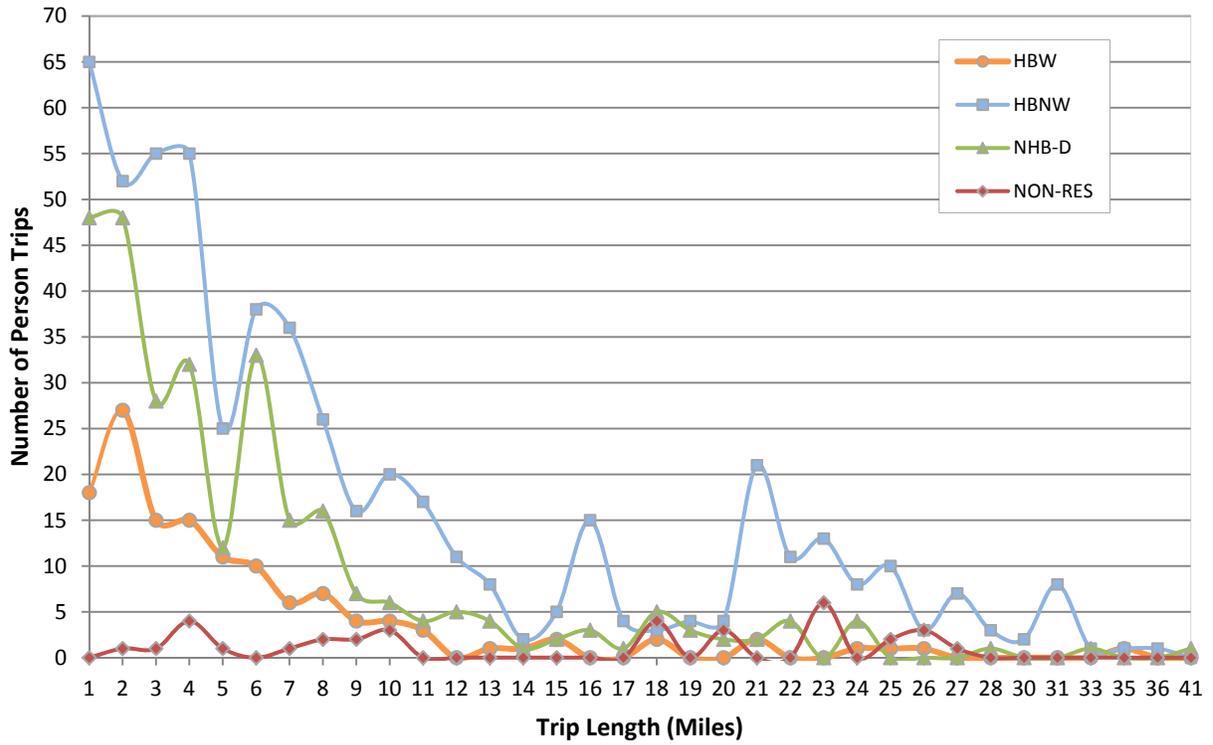


Figure 5. Person and Vehicle Trips to the Work Place TLFDs (Grouped).

(a) Person Trips



(b) Vehicle Trips

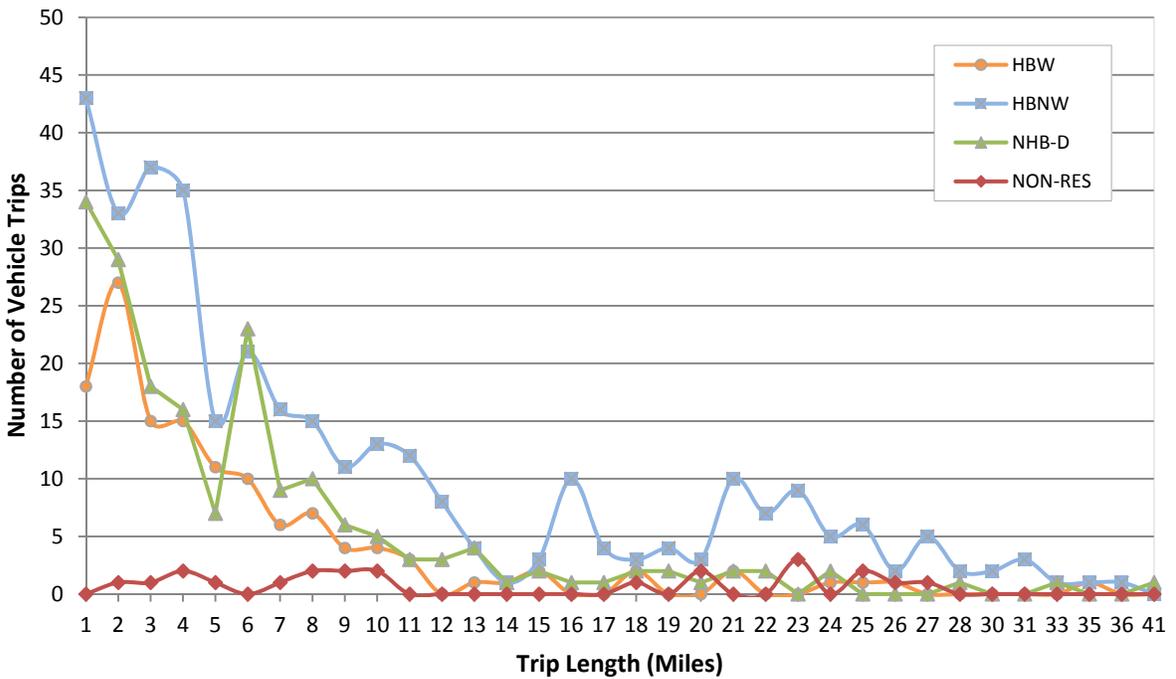


Figure 6. Person and Vehicle Trips to the Work Place TLFDs (Ungrouped).

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.

Eight special generators were surveyed in the Killeen-Temple study area. These included one university (University of Mary Hardin Baylor), two community colleges (Central Texas College Main Campus and Temple Junior College), one airport (Fort Hood Killeen Regional Airport), two shopping centers (Killeen Mall and Temple Mall), and two hospitals (Metroplex Hospital and Scott & White Hospital). Figure 7 shows their locations and corresponding area types.

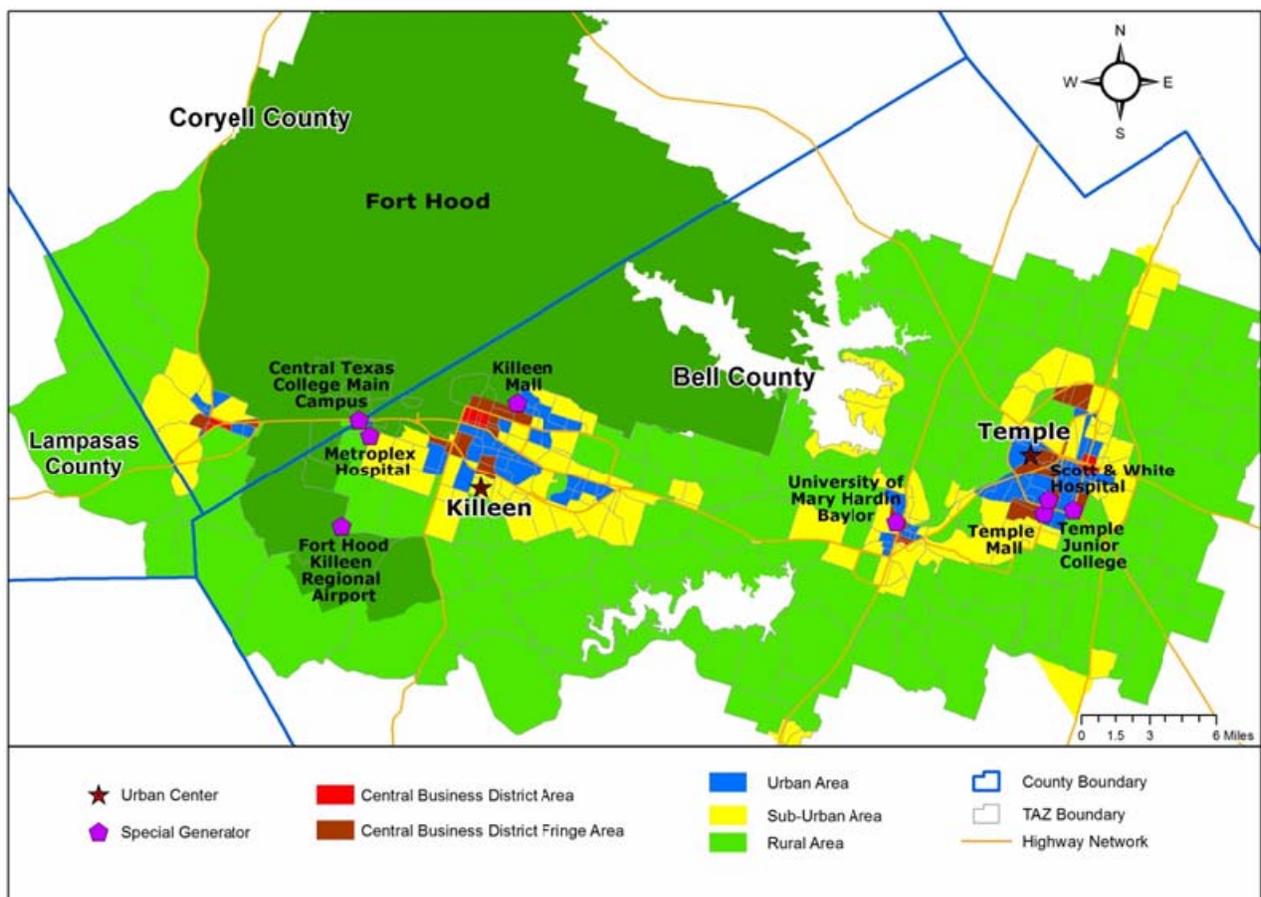


Figure 7. Killeen-Temple Special Generators.

The methodology used to survey special generators was the same as that used for full work place surveys, except on a much larger scale (see page 2 of this report). It included a general survey, an intercept survey, vehicle counts, and commercial vehicle counts.

Table 17 provides a summary of the general data collected from the special generator surveys, while Table 18 shows the distribution of total trips to and from the surveyed establishments by trip purpose.

Table 17. Killeen-Temple Special Generators Data Summary.

Special Generator	Employees		Surveys		Counts		
	Total	At Work	Employees	Non-Employees	Non Commercial Vehicle	Person	Commercial Vehicle
University of Mary Hardin Baylor	350	350	149	285	11,553	-	91
Central Texas College Main Campus	600	520	147	543	16,224	-	327
Temple Junior College	517	475	59	561	9,385	-	84
Killeen Mall	600	250	123	569	26,071	-	237
Temple Mall	375	200	93	583	8,958	-	107
Fort Hood-Killeen Regional Airport	250	150	24	134	1,626	-	133
Metroplex Hospital	700	675	74	128	7,826	-	69
Scott & White Hospital*	7,000	6,200	-	-	26,447	-	469
Total	10,392	8,820	669	2,803	108,090	-	1,517

* No intercept survey.

Table 18. Killeen-Temple Special Generators Total Trips by Trip Purpose Summary.

Trip Purpose	University of Mary Hardin Baylor	Central Texas College Main Campus	Temple Junior College	Killeen Mall	Temple Mall	Fort Hood-Killeen Regional Airport	Metroplex Hospital
HBW	263	275	107	212	165	10	139
HBNW	413	988	930	931	903	196	223
NHB-D	16	16	10	56	55	4	3
NHB-O	30	35	46	130	61	16	17
EXT-D	0	2	0	0	0	0	0
EXT-O	0	0	1	1	2	12	0
NON-RES	146	64	146	54	166	78	22
Total	868	1,380	1,240	1,384	1,352	316	404

The trip characteristics observed from each special generator are described by mode of travel, trip purpose, and trip length. The analyses of trip length pertain to inter-zonal trips since the Killeen-Temple network matrix provides only distances between zones and not within zones, and for the auto driver mode only. It is important to note that the results presented throughout this section were based on raw trip data. These results significantly changed after weighting was applied to the raw data during the survey expansion.

University of Mary Hardin Baylor (UMHB)

This establishment has a reported total employment of 350 and all of its employees were estimated to be at work during the travel survey day. A total of 149 employees and 285 non-employees (255 students and 30 visitors) participated in the survey. The surveyed employees represented 42 percent of the total employees at work. Vehicle counts were conducted at 11 locations for a 12-hour period (7:00 a.m. to 7:00 p.m.), with a total count of 11,553 non-commercial vehicles and 91 commercial vehicles.

Figure 8 shows the mode of travel used by survey participants to travel to UMHB. Approximately 95 percent were drivers of cars, trucks, or vans, three percent were auto passengers, less than one percent walked, and the remaining one percent drove either a commercial service vehicle or a motorcycle. The average vehicle occupancy was 1.04 persons for employee trips and 1.07 persons for visitor trips.

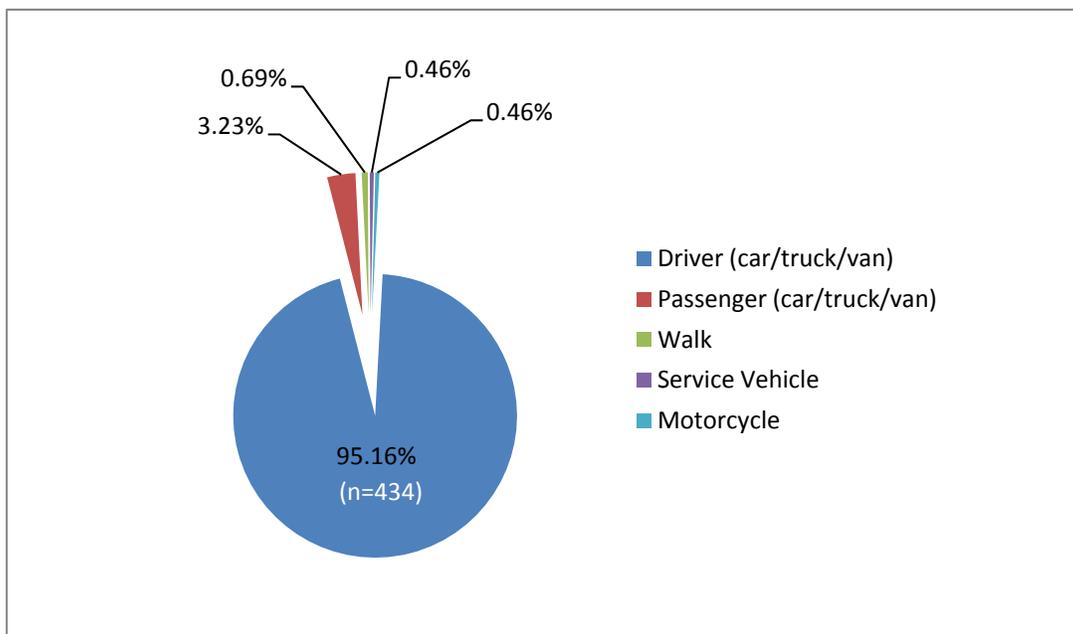


Figure 8. Mode of Travel to UMHB.

Table 19 shows the number and percentage of surveyed trips to and from UMHB by trip purpose. Table 20 shows the inter-zonal trip length to UMHB by trip purpose for person and vehicle trips. The average trip length per person trip was 8.00 miles and 7.89 miles per vehicle trip.

Table 19. Surveyed Trip Purposes to and from UMHB.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	130	133	263	30.30
HBNW	215	198	413	47.58
NHB-D	16	0	16	1.84
NHB-O	0	30	30	3.46
EXT-D	0	0	0	0.00
EXT -O	0	0	0	0.00
NON RES	73	73	146	16.82
Total	434	434	868	100.00

Table 20. Surveyed Inter-Zonal Trip Length to UMHB 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	27	5	5.40	27	5	5.40
HBNW	171	17	10.06	149	16	9.31
NHB-D	75	14	5.36	69	12	5.75
NON-RES	39	3	13.00	39	3	13.00
Total	312	39	8.00	284	36	7.89

Central Texas College Main Campus

This establishment reported a total employment of 600, of which 520 were estimated to be at work during the travel survey day. A total of 147 employees and 543 non-employees (458 students and 85 visitors) participated in the survey. The surveyed employees represented approximately 28 percent of the total number of employees at work during the travel survey day. Vehicle counts were conducted at six locations for a 12-hour period from 7:00 a.m. to 7:00 p.m., with a total count of 16,224 non-commercial vehicles and 327 commercial vehicles.

Figure 9 shows the mode of travel used by survey participants to travel to the Central Texas College Main Campus. Approximately 94 percent were drivers of cars, trucks, or vans, four percent were passengers, and the remaining two percent used transit, school bus, or walked. The average vehicle occupancy was 1.04 persons for employee trips and 1.15 persons for visitor trips.

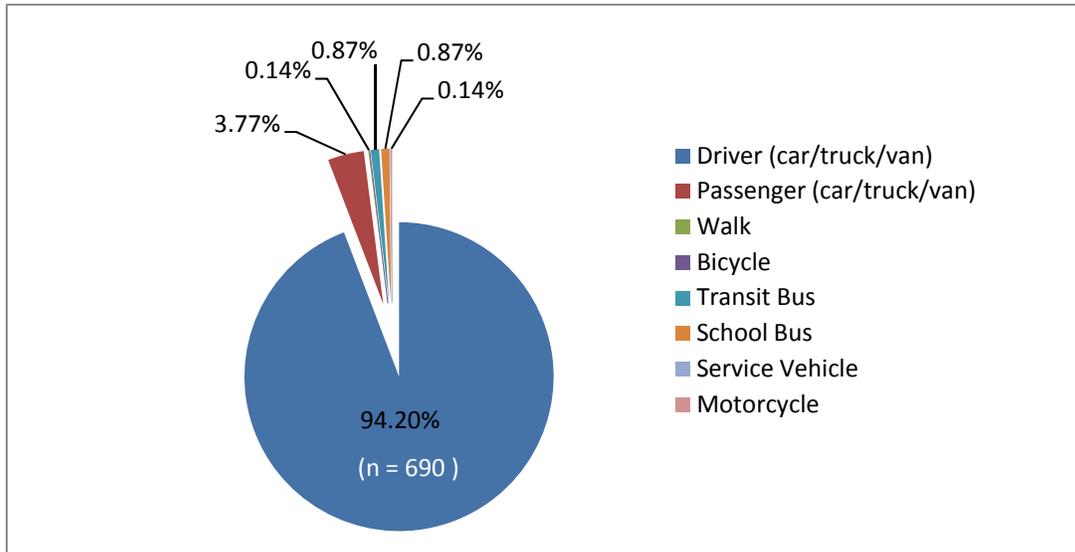


Figure 9. Mode of Travel to the Central Texas College Main Campus.

Table 21 shows the number and percentage of surveyed trips to and from the Central Texas College Main Campus by purpose. Table 22 shows the inter-zonal trip length to the Central Texas College Main Campus by trip purpose for person and vehicle trips. The average trip length per person trip was 8.07 miles and 7.92 miles per vehicle trip.

Table 21. Surveyed Trip Purposes to and from the Central Texas College Main Campus.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	142	133	275	19.93
HBNW	498	490	988	71.59
NHB-D	16	0	16	1.16
NHB-O	0	35	35	2.54
EXT-D	2	0	2	0.14
EXT -O	0	0	0	0.00
NON RES	32	32	64	4.64
Total	690	690	1,380	100.00

Table 22. Surveyed Inter-Zonal Trip Length to the Work Place 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	44	9	4.89	44	9	4.89
HBNW	152	19	8.00	140	17	8.24
NHB-D	143	14	10.22	125	13	9.62
Total	339	42	8.07	309	39	7.92

Temple Junior College (TJC)

This establishment reported a total employment of 517, of which 475 were estimated to be at work during the travel survey. A total of 59 employees and 561 non-employees (548 students and 13 visitors) participated in the survey. The surveyed employees represented approximately 12 percent of the total number of employees reported to be at work during the travel survey day. Vehicle counts were conducted at eight locations for a 12-hour period from 7:00 a.m. to 7:00 p.m., with a total count of 9,385 non-commercial vehicles and 84 commercial vehicles.

Figure 10 shows the mode of travel of survey participants to TJC. Approximately 95 percent were drivers of cars, trucks, or vans, three percent were passengers, and the remaining two percent either walked, used a bicycle, or rode a transit bus. The average vehicle occupancy was 1.09 persons for employee trips and 1.17 persons for visitor trips.

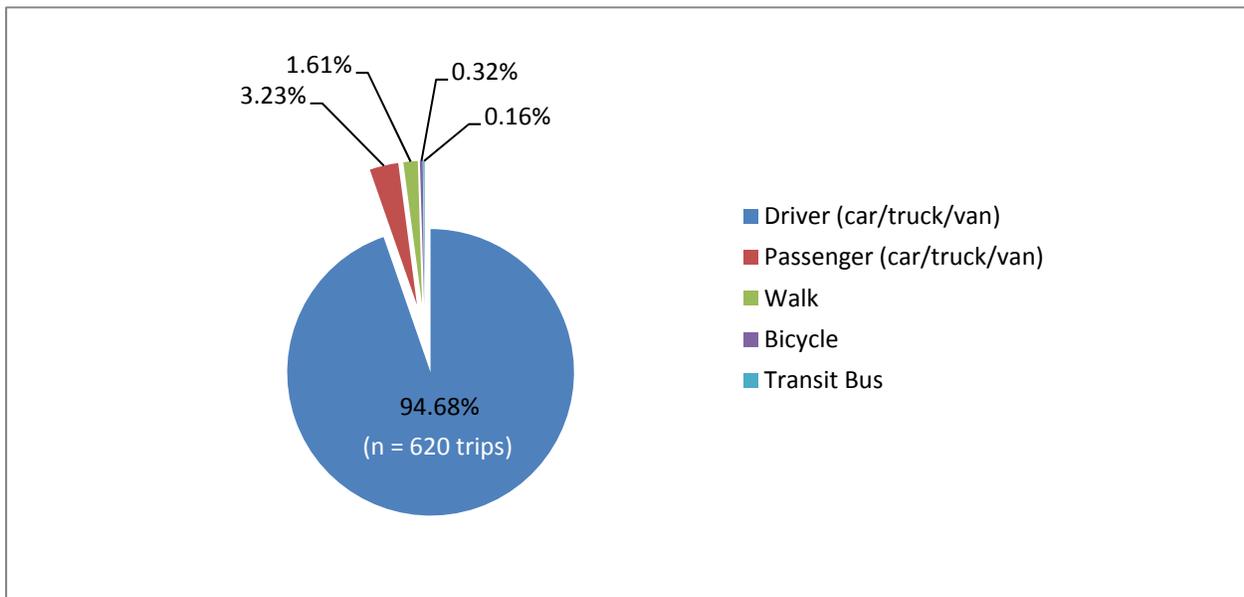


Figure 10. Mode of Travel to Temple Junior College.

Table 23 shows the number and percentage of surveyed trips to and from TJC by purpose. Table 24 shows the inter-zonal trip length to TJC by trip purpose for person and vehicle trips. The average trip length per person trip is 6.53 miles and 6.52 miles per vehicle trip.

Table 23. Surveyed Trip Purposes to and from the Work Place.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	52	55	107	8.63
HBNW	485	445	930	75.00
NHB-D	10	0	10	0.81
NHB-O	0	46	46	3.71
EXT-D	0	0	0	0.00
EXT -O	0	1	1	0.08
NON RES	73	73	146	11.77
Total	620	620	1,240	100.00

Table 24. Surveyed Inter-Zonal Trip Length to the Work Place 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	16	3	5.33	16	3	5.25
HBNW	339	55	6.16	263	42	6.26
NHB-D	80	13	6.15	66	10	6.62
NON-RES	48	3	16.00	27	2	13.40
Total	483	74	6.53	372	57	6.52

Killeen Mall

This establishment reported a total employment of 600, and 250 employees were estimated to be at work during the travel survey day. A total of 123 employees and 569 non-employees participated in survey. The surveyed employees represented approximately 49 percent of the total employees at work. Vehicle counts were conducted at five locations for a 12-hour period from 7:00 a.m. to 7:00 p.m., with a total count of 26,071 non-commercial vehicles and 237 commercial vehicles.

Figure 11 shows the mode of travel used by survey participants to the Killeen Mall. More than 93 percent were drivers of cars, trucks, or vans, and less than one percent were passengers. The average vehicle occupancy was 1.08 for employee trips and 1.83 for visitor trips.

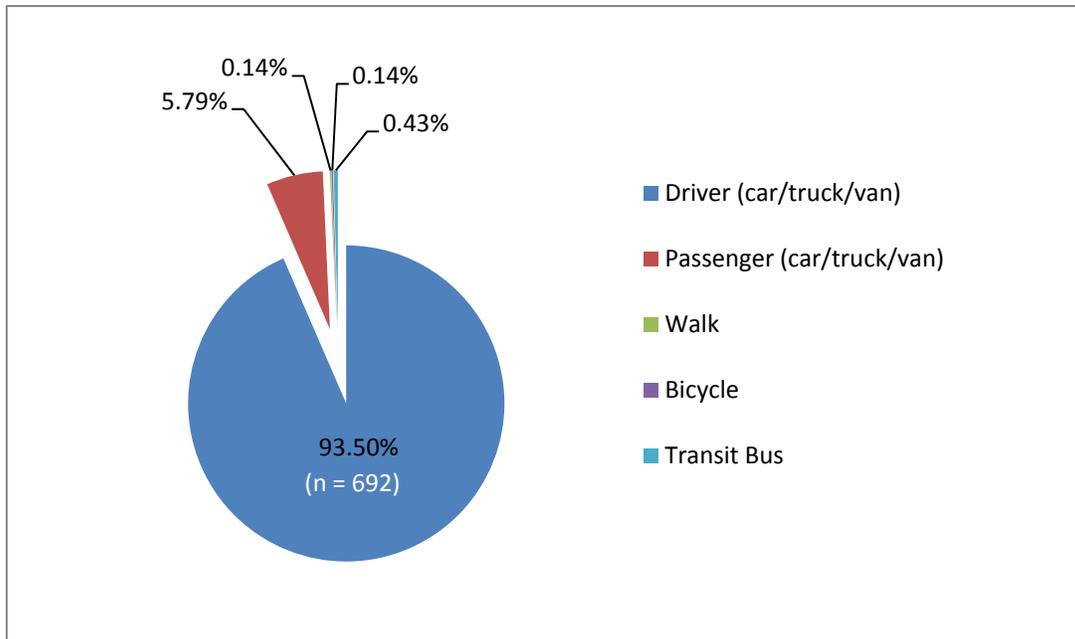


Figure 11. Mode of Travel to the Killeen Mall.

Table 25 shows the number and percentage of surveyed trips to and from the Killeen Mall by purpose. Table 26 shows the inter-zonal trip length to the Killeen Mall by trip purpose for person and vehicle trips. The average trip length per person and vehicle trip was 5.82 miles.

Table 25. Surveyed Trip Purposes to and from the Killeen Mall.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	107	105	212	15.32
HBNW	502	429	931	67.27
NHB-D	56	0	56	4.05
NHB-O	0	130	130	9.39
EXT-D	0	0	0	0.00
EXT -O	0	1	1	0.07
NON RES	27	27	54	3.90
Total	692	692	1,384	100.00

Table 26. Surveyed Inter-Zonal Trip Length to the Killeen 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	43	6	7.17	43	6	7.10
HBNW	1,016	184	5.52	551	102	5.40
NHB-D	491	77	6.38	286	44	6.50
NON-RES	16	2	8.00	16	2	8.00
Total	1,566	269	5.82	896	154	5.82

Temple Mall

This establishment reported a total employment of 375, of which 200 employees were estimated to be at work during the travel survey day. A total of 93 employees and 583 non-employees participated in the survey. The surveyed employees represented 11 percent of the total employees at work. Vehicle counts were conducted at six locations for a 12-hour period from 7:00 a.m. to 7:00 p.m., with a total count of 8,958 non-commercial vehicles and 107 commercial vehicles.

Figure 12 shows the mode of travel used by survey participants to travel to the Temple Mall. Approximately 96 percent were drivers of cars, trucks, or vans, more than three percent were passengers, and less than half of one percent used a transit bus. The average vehicle occupancy was 1.14 persons for employee trips and 1.80 persons for visitor trips.

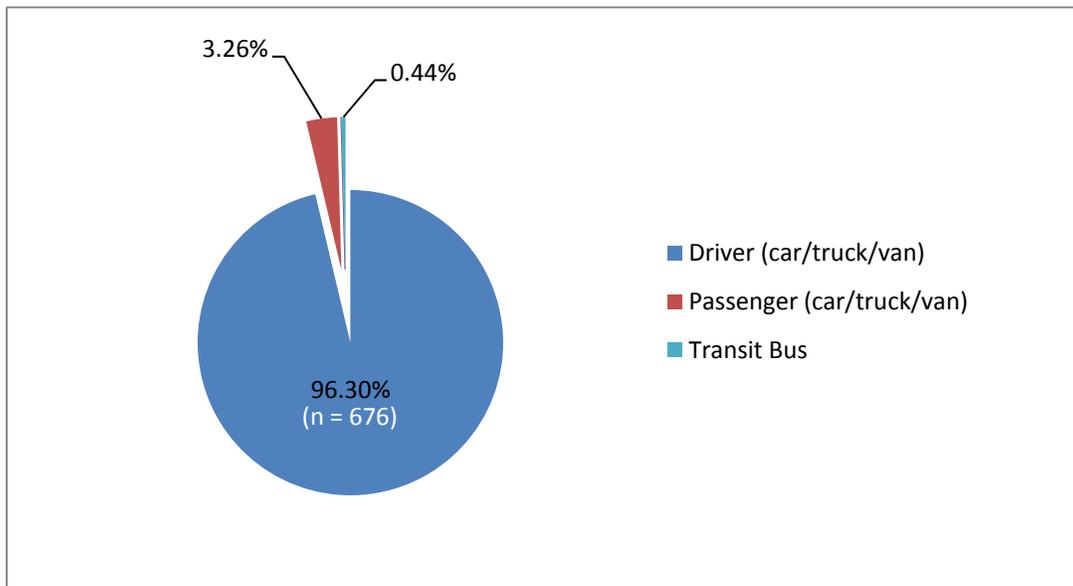


Figure 12. Mode of Travel to Temple Mall.

Table 27 shows the number and percentage of surveyed trips to the Temple Mall by trip purpose. Table 28 shows the inter-zonal trip length to the Temple Mall by trip purpose for person and vehicle trips. The average trip length per person trip was 6.11 miles and 6.10 miles per vehicle trip.

Table 27. Surveyed Trip Purposes to and from Temple Mall.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	83	82	165	12.22
HBNW	455	448	903	66.89
NHB-D	54	0	54	4.00
NHB-O	0	60	60	4.44
EXT-D	0	0	0	0.00
EXT -O	0	2	2	0.15
NON RES	83	83	166	12.30
Total	675	675	1,350	100.00

Table 28. Surveyed Inter-Zonal Trip Length to the Temple 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	3	1	3.00	3	1	3.00
HBNW	342	59	5.80	224	37	6.05
NHB-D	316	56	5.64	212	38	5.58
NON-RES	121	12	10.08	67	7	9.57
Total	782	128	6.11	506	83	6.10

Fort Hood Killeen (FHK) Regional Airport

This establishment reported a total employment of 250, of which 150 were estimated to be at work during the travel survey day. A total of 24 employees and 134 non-employees participated in the survey. The surveyed employees represented 16 percent of the total employees at work. Vehicle counts were conducted at two locations for a 12-hour period from 7:00 a.m. to 7:00 p.m., with a total count of 1,626 non-commercial vehicles and 133 commercial vehicles.

Figure 13 shows the mode of travel used by survey participants to travel to the FHK airport. Approximately 70 percent were drivers of cars, trucks, or vans, four percent were passengers, and approximately 25 percent arrived by airplane. The average vehicle occupancy was 1.35 persons for employee trips and 2.20 persons for visitor trips.

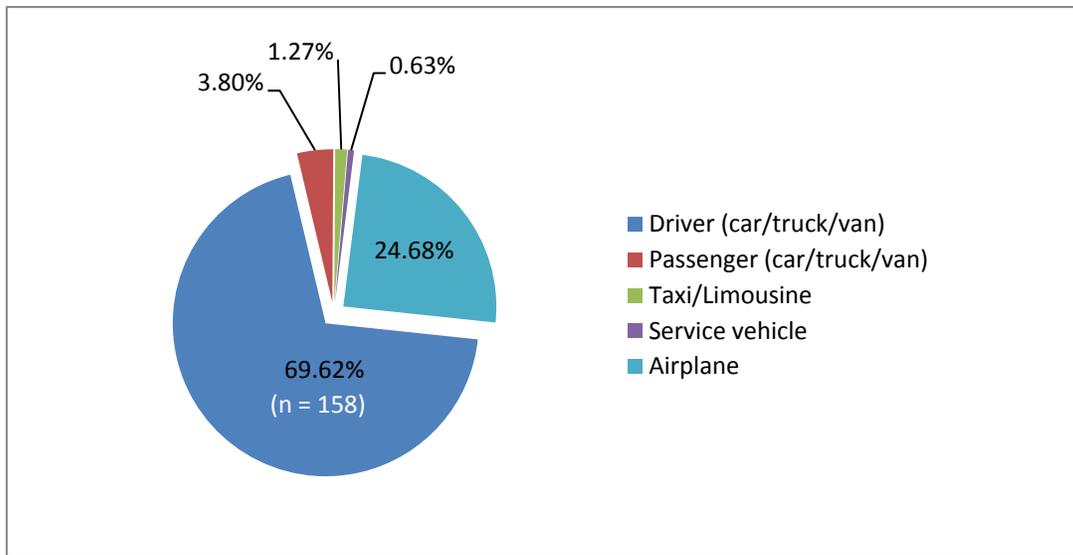


Figure 13. Mode of Travel to the FHK Airport.

Table 29 shows the number and percentage of surveyed trips to the FHK airport by purpose. Table 30 shows the inter-zonal trip length to the FHK airport by trip purpose for person and vehicle trips. The average trip length per person trip is 7.43 miles and 7.00 miles per vehicle trip.

Table 29. Surveyed Trip Purposes to and from the FHK Airport.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	26	28	54	17.09
HBNW	89	63	152	48.10
NHB-D	4	0	4	1.27
NHB-O	0	16	16	5.06
EXT-D	0	0	0	0.00
EXT -O	0	12	12	3.80
NON RES	39	39	78	24.68
Total	158	158	316	100.00

Table 30. Surveyed Inter-Zonal Trip Length to the FHK 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	5	1	5.00	5	1	5.00
HBNW	209	29	7.21	95	13	7.31
NHB-D	23	4	5.75	11	2	5.50
NON-RES	60	6	10.00	15	2	7.50
Total	297	40	7.43	126	18	7.00

Metroplex Hospital

This establishment reported a total employment of 700, of which 675 employees were estimated to be at work during the travel survey day. A total of 74 employees and 128 visitors participated in the survey. The surveyed employees represented approximately 11 percent of the total employees at work. Vehicle counts were conducted at eight locations for a 12-hour period from 7:00 a.m. to 7:00 p.m., with a total count of 7,826 non-commercial vehicles and 69 commercial vehicles.

Figure 14 shows the mode of travel used by survey participants to travel to the Metroplex Hospital. Approximately 93 percent were drivers of cars, trucks, or vans, and seven percent were passengers. The average vehicle occupancy was 1.35 persons for employee trips and 2.20 persons for visitor trips.

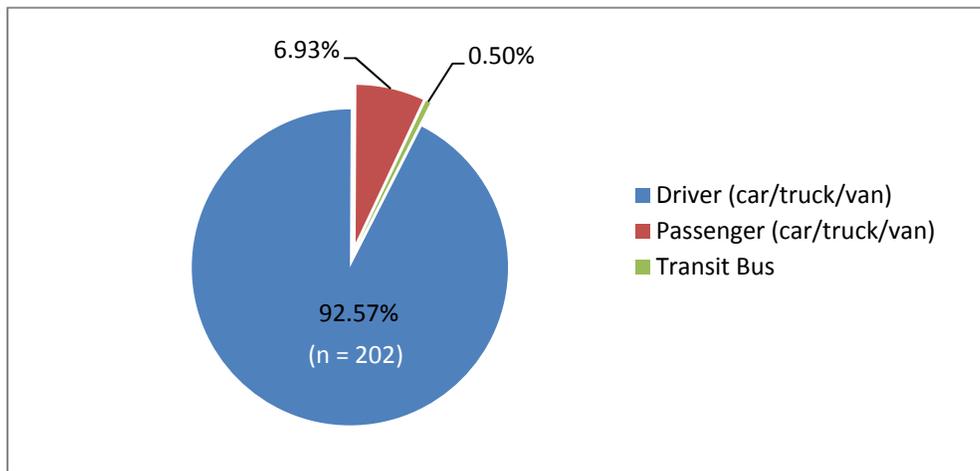


Figure 14. Mode of Travel to the Metroplex Hospital.

Table 31 shows the number and percentage of surveyed trips to the Metroplex Hospital by purpose. Table 32 shows the inter-zonal trip length to the Metroplex Hospital by trip purpose for person and vehicle trips. The average trip length per person trip was 5.74 miles and 5.81 miles per vehicle trip.

Table 31. Surveyed Trip Purposes to and from the Metroplex Hospital.

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	72	67	139	34.41
HBNW	116	107	223	55.20
NHB-D	3	0	3	0.74
NHB-O	0	17	17	4.21
EXT-D	0	0	0	0.00
EXT -O	0	0	0	0.00
NON RES	11	11	22	5.44
Total	202	202	404	100.00

Table 32. Surveyed Inter-Zonal Trip Length to the Metroplex Hospital 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	20	7	2.86	15	5	3.00
HBNW	124	16	7.75	72	9	8.00
NHB-D	11	4	2.75	6	2	3.00
Total	155	27	5.74	93	16	5.81

Scott & White Hospital

This establishment reported a total employment of 7,000, of which 6,200 were estimated to be at work during the travel survey day. Intercept surveys were not conducted at the site as originally intended. However, vehicle counts were conducted at 12 locations for a 12-hour period from 7:00 a.m. to 7:00 p.m., with a total count of 26,447 non-commercial vehicles and 469 commercial vehicles.

COMMERCIAL VEHICLE COUNTS

The commercial vehicle counts involved counting the number of cargo and service vehicles making deliveries or picking up at the surveyed establishments during the work place travel survey day. The counts were conducted using ACRs, video cameras, or manual counts. The counts were conducted for a 12-hour period beginning at 7:00 a.m. and ending at 7:00 p.m. on the day of the survey. Figure 27 show the percentage of commercial vehicles by employment type and area type. The results show that approximately 44 percent of the total counts were at education establishments. The vehicle classification counts at these establishments revealed that school buses were counted as commercial vehicles.

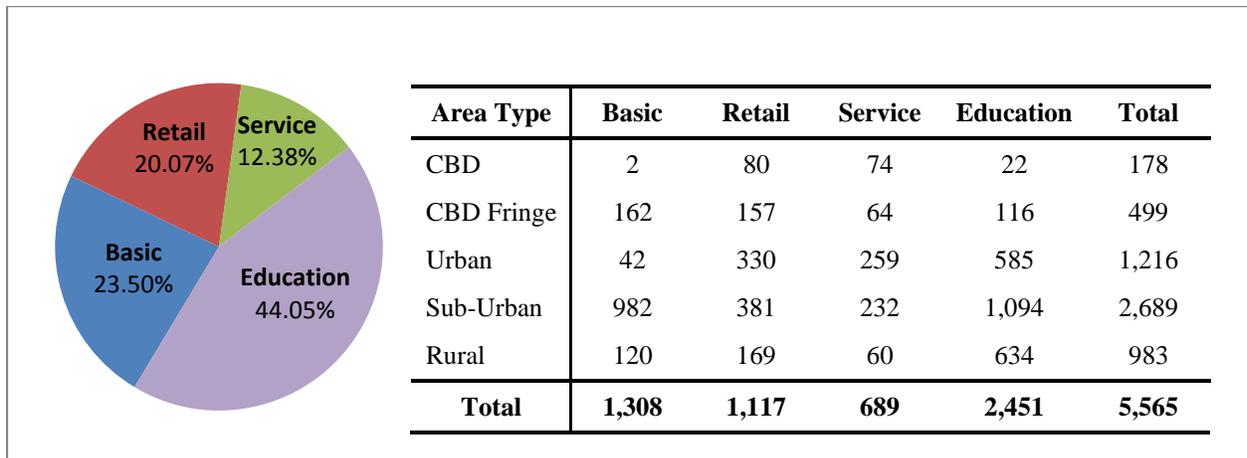


Figure 15. Commercial Vehicles by Area Type and Employment Type.

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 counted 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 trip rate estimates for each category of trip purpose based on employment data.

The steps used to expand the work place survey data are listed below.

1. Count the number of employee trips at each site by trip purpose. The trip purpose categories included HBW, HBNW, NHB-D, NHB-O, EXT-D, EXT-O, and NON-RES. Each trip was counted by purpose from the origin to the work place and from the work place to the next destination. These raw employee trips were treated as employee vehicle trips and were later weighted by the number of employee surveys, and expanded using employment data for each site.
2. Estimate the average vehicle occupancy for each site by trip purpose and by the auto driver mode of travel only. All other vehicle modes of travel were not included in the analysis to avoid the possibility of double counting the number of persons for each reported trip. The average vehicle occupancy was estimated separately for resident and non-resident employee and visitor trips at each site. Note that the average vehicle occupancy for employee trips was assumed to be one person per employee trip, regardless of the employee vehicle occupancy that was reported. Since the trip purposes of the other occupants traveling with the employee could not be determined from the survey, it was assumed that such trips were non-work related.
3. Based on the results in Step 2, estimate the average vehicle occupancy for each site. Each site conducted either a vehicle count or a person count, but not both. If a vehicle count was conducted, the total person count was determined by multiplying the vehicle count with the average vehicle occupancy. If a person count was conducted, the total vehicle count was estimated by dividing the total person count by the average vehicle occupancy.
4. Based on the results in Steps 1 and 2, multiply the raw employee vehicle trips by trip purpose with the average employee vehicle occupancy by trip purpose for each site to estimate the total employee person trips by trip purpose. The total employee vehicle and person trips were later subtracted from the total vehicle and person counts determined in Step 3 to estimate the visitor vehicle and person trips at each site. Note that the average visitor vehicle occupancy that was estimated for each site was mainly used in the estimation of the average vehicle occupancy and not in the estimation of visitor person trips.

5. The estimated visitor vehicle and person trips developed in Step 4 were not stratified by trip purpose. To establish the proportion of visitor trips for each category of trip purpose, the number of surveyed visitor trips was counted by trip purpose and divided by the total number of raw visitor trips. The resulting percentages were applied to the total visitor vehicle and person trips at each site to estimate the number of visitor and person trips by trip purpose.
6. For those visitors at non-free standing establishments who reported that the site was not their first stop, such trips were counted separately and were not included in the analysis. These “not-counted” trips represented trips that were not attracted to the establishment. However, when these trips left the establishment, they were considered as trip productions and were therefore included in the analysis.
7. For each category of trip purpose, the employee trip rate was developed by dividing the number of raw employee trips with the total number of employees surveyed at each site. This rate by trip purpose was applied to the total number of employees at work at each site to estimate the expanded number of employee vehicle trips by trip purpose per site. The expanded employee person trips by trip purpose were estimated by multiplying the employee vehicle trips by trip purpose with the average employee vehicle occupancy for each site.
8. Note that the survey data expansion was first conducted by individual site and then later aggregated by area type and employment type to estimate the total vehicle and person trips. Employee trip rates were not calculated directly from aggregated raw employee trips and employment data by area type and employment type because of discrepancies in the trip totals resulting from the data aggregation. To avoid any discrepancies in the estimation of total trips and trip rates, data aggregation was only performed based on the data expansion procedure by site.
9. The employee and visitor trips by trip purpose at each site were then summed by area type and employment type. The employee and visitor trips by trip purpose at each site were also summed by employment type.
10. For each category of area type and employment type, the number of employees at work, total employment, number of vehicle counts, and number of person counts were summed for all establishments. Table 33 shows the work place survey data summary by area type and employment type.

Table 33. Work Place Survey Data Summary by Area Type and Employment Type.

Area Type	Item	Basic	Retail	Service	Education	Total
CBD	Number of sites	1	10	12	1	24
	Total employment	10	124	248	33	415
	Employees at work	7	82	191	30	310
	Total person count	128	8,992	2,177	388	11,685
	Total vehicle count	128	7,143	1,868	286	9,425
	Total commercial vehicle count	2	80	74	22	178
CBD Fringe	Number of sites	7	20	17	3	47
	Total employment	503	328	244	141	1,216
	Employees at work	367	242	191	141	941
	Total person count	1,020	14,516	2,769	2,753	21,058
	Total vehicle count	1,002	11,396	2,365	1,963	16,726
	Total commercial vehicle count	162	157	64	116	499
Urban	Number of sites	6	32	30	15	83
	Total employment	90	417	325	1,007	1,839
	Employees at work	81	328	265	988	1,662
	Total person count	419	17,548	3,303	21,444	42,714
	Total vehicle count	333	13,770	2,870	15,819	32,792
	Total commercial vehicle count	42	330	259	585	1,216
Sub-Urban	Number of sites	19	27	28	21	95
	Total employment	624	1,084	556	1,682	3,946
	Employees at work	568	673	499	1,644	3,384
	Total person count	2,822	10,488	7,484	32,896	53,690
	Total vehicle count	2,716	8,317	6,492	24,531	42,056
	Total commercial vehicle count	982	381	232	1,094	2,689
Rural	Number of sites	13	11	14	11	49
	Total employment	200	203	102	1,101	1,606
	Employees at work	157	163	93	1,076	1,489
	Total person count	1,393	8,305	1,867	21,139	32,704
	Total vehicle count	1,339	6,211	1,617	15,391	24,558
	Total commercial vehicle count	120	169	60	634	983
Total	Number of sites	46	100	101	51	298
	Total employment	1,427	2,156	1,475	3,964	9,022
	Employees at work	1,180	1,488	1,239	3,879	7,786
	Total person count	5,781	59,849	17,600	78,619	161,851
	Total vehicle count	5,518	46,837	15,212	57,990	125,557
	Total commercial vehicle count	1,308	1,117	689	2,451	5,565

11. For those sites that were identified as partial survey sites and where no intercept surveys were conducted, the expansion procedure was based on the average vehicle occupancy rates, trip rates, and proportion of visitor trips that were observed from the full survey sites.
12. The average vehicle occupancy rates from the full survey sites were aggregated by employment type, and were used for each partial survey site of the same employment type. These rates were used to estimate the total vehicle count at sites where vehicle counts were conducted or to estimate the total person count at sites where person counts were conducted. The resulting estimates were the total vehicle counts and total person counts for each partial survey site.
13. The trip rates from the full survey sites, stratified by trip purpose, were aggregated by area and employment types, and were used for each partial survey site of the same area and employment types. These rates were multiplied by the total number of employees at work at each partial survey site to estimate the expanded number of employee vehicle trips by trip purpose. The average employee vehicle occupancy by employment type from the full survey sites was applied to the number of employee vehicle trips for each category of trip purpose to estimate the expanded number of employee person trips at each partial survey site.
14. The total number of vehicle and person visitors at partial survey sites were estimated by subtracting the number of employee vehicle trips from the total vehicle counts, and subtracting the employee person trips from the total person counts, respectively. The resulting estimates were the total number of visitor vehicle trips and visitor person trips for each partial survey site.
15. The proportion of raw visitor trips by trip purpose from the full survey sites were aggregated by area type and employment type, and were used for each partial survey site of the same area and employment types. The resulting percentages of visitor trips by trip purpose were multiplied to the total visitor vehicle and person trips at partial survey sites, respectively, to estimate the visitor vehicle and person trips by trip purpose.
16. The total number of vehicle and person trips by trip purpose for the study area were estimated by summing the total vehicle trips and total person trips from the full and partial survey sites, respectively. The results were then aggregated by area type and employment type for all sites to establish the trip rates by trip purpose. 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.
17. The trip rates for commercial vehicles were calculated by dividing the commercial vehicle counts by the total employment.

Tables 34 through 38 provide the Killeen-Temple Work Place Survey data expansion results. Tables 34 and 35 show the raw person and vehicle trip attractions for each category of employment by area type and trip purpose, respectively. Tables 36 and 37 show the raw person and vehicle trip attraction rates, respectively. Table 38 shows the raw commercial vehicle trip attraction rates.

Table 34. Raw Person Trip Attractions by Trip Purpose, Area Type, and Employment Type.

Area Type	BASIC								Total Person Trips
	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	NOT COUNTED	
CBD	10	57	14	33	3	3	8	*	128
CBD Fringe	586	178	*	82	22	19	133	*	1,020
Urban	137	186	21	4	*	*	63	8	419
Sub-Urban	1,044	852	118	311	16	53	427	*	2,821
Rural	452	670	44	*	*	*	227	*	1,393
Total	2,229	1,943	197	430	41	75	858	8	5,781
Area Type	RETAIL								Total Person Trips
	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	NOT COUNTED	
CBD	136	4,148	1,027	1,958	383	301	1,038	*	8,991
CBD Fringe	366	10,647	101	1,210	462	721	1,008	*	14,515
Urban	646	13,306	813	1,723	124	94	717	126	17,549
Sub-Urban	1,444	7,124	347	892	96	96	489	*	10,488
Rural	295	5,184	421	1,468	170	168	598	*	8,304
Total	2,887	40,409	2,709	7,251	1,235	1,380	3,850	126	59,847
Area Type	SERVICE								Total Person Trips
	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	NOT COUNTED	
CBD	382	1,160	106	159	1	1	369	*	2,178
CBD Fringe	297	1,612	199	468	39	39	36	78	2,768
Urban	468	2,067	126	198	74	10	352	8	3,303
Sub-Urban	909	3,895	718	1,436	54	54	267	150	7,483
Rural	151	1,681	*	7	*	*	28	*	1,867
Total	2,207	10,415	1,149	2,268	168	104	1,052	236	17,599
Area Type	EDUCATION								Total Person Trips
	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	NOT COUNTED	
CBD	53	247	22	63	2	*	*	*	387
CBD Fringe	258	1,889	206	386	14	*	*	*	2,753
Urban	4,167	13,288	600	2,010	241	230	908	*	21,444
Sub-Urban	2,714	23,938	1,089	2,352	711	305	1,786	*	32,895
Rural	2,256	12,904	1,107	2,773	397	111	1,590	*	21,138
Total	9,448	52,266	3,024	7,584	1,365	646	4,284	*	78,617

* No Observation.

Table 35. Raw Vehicle Trip Attractions by Trip Purpose, Area Type, and Employment Type.

Area Type	BASIC								Total Vehicle Trips
	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	NOT COUNTED	
CBD	10	57	14	33	3	3	8	*	128
CBD Fringe	584	166	*	79	22	19	133	*	1,003
Urban	137	114	16	4	*	*	53	8	332
Sub-Urban	1,039	790	114	299	16	52	407	*	2,717
Rural	447	633	43	*	*	*	217	*	1,340
Total	2,217	1,760	187	415	41	74	818	8	5,520
Area Type	RETAIL								Total Vehicle Trips
	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	NOT COUNTED	
CBD	136	3,276	816	1,554	303	238	820	*	7,143
CBD Fringe	366	8,285	78	937	371	578	781	*	11,396
Urban	629	10,340	622	1,362	96	74	549	99	13,771
Sub-Urban	1,405	5,426	268	692	77	77	373	*	8,318
Rural	290	3,780	311	1,109	134	135	452	*	6,211
Total	2,826	31,107	2,095	5,654	981	1,102	2,975	99	46,839
Area Type	SERVICE								Total Vehicle Trips
	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	NOT COUNTED	
CBD	371	961	86	136	2	2	309	*	1,867
CBD Fringe	297	1,354	164	391	30	30	33	67	2,366
Urban	468	1,737	107	175	63	8	303	8	2,869
Sub-Urban	895	3,305	608	1,224	51	51	228	131	6,493
Rural	151	1,431	*	7	*	*	28	*	1,617
Total	2,182	8,788	965	1,933	146	91	901	206	15,212
Area Type	EDUCATION								Total Vehicle Trips
	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	NOT COUNTED	
CBD	53	167	16	48	2	*	*	*	286
CBD Fringe	258	1,268	140	287	10	*	*	*	1,963
Urban	3,359	9,459	468	1,517	189	177	650	*	15,819
Sub-Urban	2,595	17,264	839	1,766	542	242	1,284	*	24,532
Rural	2,109	8,928	797	2,026	297	81	1,153	*	15,391
Total	8,374	37,086	2,260	5,644	1,040	500	3,087	*	57,991

* No Observation.

Table 36. Raw Person Trip Attraction Rates.

Trip Purpose	Area Type	Person Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	CBD	1.00	1.10	1.54	1.61
	CBD Fringe	1.16	1.12	1.22	1.83
	Urban	1.52	1.55	1.44	4.14
	Sub-Urban	1.67	1.33	1.64	1.61
	Rural	2.26	1.45	1.48	2.05
HBNW Retail	CBD		33.45		
	CBD Fringe		32.46		
	Urban		31.91		
	Sub-Urban		6.57		
	Rural		25.54		
HBNW Other Attractions	CBD	5.70		4.68	
	CBD Fringe	0.35		6.61	
	Urban	2.06		6.36	
	Sub-Urban	1.37		7.01	
	Rural	3.35		16.48	
HBNW School Attractions	CBD				7.49
	CBD Fringe				13.40
	Urban				13.19
	Sub-Urban				14.23
	Rural				11.72
NHB-D	CBD	1.40	8.29	0.43	0.65
	CBD Fringe	*	0.31	0.81	1.46
	Urban	0.23	1.95	0.39	0.60
	Sub-Urban	0.19	0.32	1.29	0.65
	Rural	0.22	2.07	*	1.01
NHB-O	CBD	3.30	15.79	0.64	1.92
	CBD Fringe	0.16	3.69	1.92	2.74
	Urban	0.05	4.13	0.61	2.00
	Sub-Urban	0.50	0.82	2.58	1.40
	Rural	*	7.23	0.07	2.52
EXT-D	CBD	0.30	3.09	*	0.07
	CBD Fringe	0.04	1.41	0.16	0.10
	Urban	*	0.30	0.23	0.24
	Sub-Urban	0.02	0.09	0.10	0.42
	Rural	*	0.84	*	0.36
EXT-O	CBD	0.30	2.42	*	*
	CBD Fringe	0.04	2.20	0.16	*
	Urban	*	0.23	0.03	0.23
	Sub-Urban	0.08	0.09	0.10	0.18
	Rural	*	0.83	*	0.10
NON-RES	CBD	0.80	8.37	1.49	*
	CBD Fringe	0.26	3.07	0.15	*
	Urban	0.70	1.72	1.08	0.90
	Sub-Urban	0.68	0.45	0.48	1.06
	Rural	1.13	2.95	0.28	1.44

* No Observation.

Table 37. Raw Vehicle Trip Attraction Rates.

Trip Purpose	Area Type	Vehicle Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	CBD	1.00	1.10	1.50	1.61
	CBD Fringe	1.16	1.12	1.22	1.83
	Urban	1.52	1.51	1.44	3.34
	Sub-Urban	1.67	1.30	1.61	1.54
	Rural	2.23	1.43	1.48	1.92
HBNW Retail	CBD		26.42		
	CBD Fringe		25.26		
	Urban		24.80		
	Sub-Urban		5.01		
	Rural		18.62		
HBNW Other Attractions	CBD	5.70		3.88	
	CBD Fringe	0.33		5.55	
	Urban	1.27		5.35	
	Sub-Urban	1.27		5.94	
	Rural	3.16		14.03	
HBNW School Attractions	CBD				5.07
	CBD Fringe				8.99
	Urban				9.39
	Sub-Urban				10.26
	Rural				8.11
NHB-D	CBD	1.40	6.58	0.35	0.49
	CBD Fringe	*	0.24	0.67	0.99
	Urban	0.18	1.49	0.33	0.46
	Sub-Urban	0.18	0.25	1.09	0.50
	Rural	0.21	1.53	*	0.72
NHB-O	CBD	3.30	12.53	0.55	1.45
	CBD Fringe	0.16	2.86	1.60	2.03
	Urban	0.05	3.27	0.54	1.51
	Sub-Urban	0.48	0.64	2.20	1.05
	Rural	*	5.46	0.07	1.84
EXT-D	CBD	0.30	2.45	0.01	0.05
	CBD Fringe	0.04	1.13	0.12	0.07
	Urban	*	0.23	0.19	0.19
	Sub-Urban	0.02	0.07	0.09	0.32
	Rural	*	0.66	*	0.27
EXT-O	CBD	0.30	1.92	0.01	*
	CBD Fringe	0.04	1.76	0.12	*
	Urban	*	0.18	0.03	0.18
	Sub-Urban	0.08	0.07	0.09	0.14
	Rural	*	0.66	*	0.07
NON-RES	CBD	0.80	6.62	1.25	*
	CBD Fringe	0.26	2.38	0.13	*
	Urban	0.59	1.32	0.93	0.65
	Sub-Urban	0.65	0.34	0.41	0.76
	Rural	1.09	2.23	0.28	1.05

* No Observation.

Table 38. Raw Commercial Vehicle Attraction Rates.

Area Type	Commercial Vehicle Trips			
	Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
CBD	0.20	0.65	0.30	0.67
CBD Fringe	0.32	0.48	0.26	0.82
Urban	0.47	0.79	0.80	0.58
Sub-Urban	1.57	0.35	0.42	0.65
Rural	0.60	0.83	0.59	0.58

Table 39 shows the Killeen-Temple special generator survey data expansion results. The expansion procedures used were similar to the work place sites, except that the survey trips were stratified only by trip purpose given that the area type and employment type for each special generator were previously established.

Table 39. Special Generators Raw Person and Vehicle Trips and Attraction Rates.

Trip Purpose	Person Trips	Person Trip Rates	Vehicle Trips	Vehicle Trip Rates
University of Mary Hardin Baylor				
HBW	1,119	3.20	1,102	3.15
HBNW	8,029	22.94	7,764	22.18
NHB-D	194	0.55	188	0.54
NHB-O	469	1.34	454	1.30
EXT-D	*	*	*	*
EXT-O	*	*	*	*
NON-RES	2,106	6.02	2,045	5.84
Commercial Vehicle Trips	91	0.26	91	0.26
Total	12,008	34.31	11,644	33.27
Central Texas College Main Campus				
HBW	1,262	2.10	1,234	2.06
HBNW	14,827	24.71	13,688	22.81
NHB-D	219	0.36	203	0.34
NHB-O	415	0.69	385	0.64
EXT-D	30	0.05	28	0.05
EXT-O	*	*	*	*
NON-RES	742	1.24	686	1.14
Commercial Vehicle Trips	327	0.55	327	0.55
Total	17,822	29.70	16,551	27.59

* No Observation.

Table 39. Special Generators Raw Person and Vehicle Trips and Attraction Rates (continued).

Trip Purpose	Person Trips	Person Trip Rates	Vehicle Trips	Vehicle Trip Rates
	Temple Junior College			
HBW	863	1.67	855	1.65
HBNW	7,653	14.80	6,994	13.53
NHB-D	83	0.16	76	0.15
NHB-O	376	0.73	346	0.67
EXT-D	*	*	*	*
EXT-O	8	0.02	8	0.01
NON-RES	1,208	2.34	1,106	2.14
Commercial Vehicle Trips	84	0.16	84	0.16
Total	10,275	19.87	9,469	18.32
	Killeen Mall			
HBW	610	1.02	554	0.92
HBNW	29,481	49.13	20,736	34.56
NHB-D	1,668	2.78	1,177	1.96
NHB-O	3,881	6.47	2,737	4.56
EXT-D	*	*	*	*
EXT-O	32	0.05	22	0.04
NON-RES	1,190	1.98	845	1.41
Commercial Vehicle Trips	237	0.40	237	0.40
Total	37,099	61.83	26,308	43.85
	Temple Mall			
HBW	411	1.10	390	1.04
HBNW	9,274	24.73	6,539	17.44
NHB-D	561	1.49	398	1.06
NHB-O	1,276	3.40	905	2.41
EXT-D	*	*	*	*
EXT-O	10	0.03	7	0.02
NON-RES	1,018	2.72	719	1.92
Commercial Vehicle Trips	107	0.29	107	0.29
Total	12,657	33.75	9,065	24.17

* No Observation.

Table 39. Special Generators Raw Person and Vehicle Trips and Attraction Rates (continued).

Trip Purpose	Person Trips	Person Trip Rates	Vehicle Trips	Vehicle Trip Rates
Fort Hood-Killeen Regional Airport				
HBW	351	1.40	328	1.31
HBNW	1,350	5.40	752	3.01
NHB-D	33	0.13	20	0.08
NHB-O	132	0.53	81	0.32
EXT-D	*	*	*	*
EXT-O	99	0.39	59	0.24
NON-RES	641	2.56	386	1.54
Commercial Vehicle Trips	133	0.53	133	0.53
Total	2,739	10.95	1,759	7.04
Metroplex Hospital				
HBW	1,350	1.93	1,317	1.88
HBNW	8,137	11.62	5,641	8.06
NHB-D	109	0.16	76	0.11
NHB-O	510	0.73	365	0.52
EXT-D	*	*	*	*
EXT-O	*	*	*	*
NON-RES	619	0.88	427	0.61
Commercial Vehicle Trips	69	0.10	69	0.10
Total	10,794	15.42	7,895	11.28
Scott & White Hospital**				
HBW	11,668	1.67	11,559	1.65
HBNW	20,494	2.93	12,236	1.75
NHB-D	273	0.04	165	0.02
NHB-O	1,525	0.22	1,049	0.15
EXT-D	*	*	*	*
EXT-O	*	*	*	*
NON-RES	2,282	0.33	1,438	0.21
Commercial Vehicle Trips	469	0.07	469	0.07
Total	36,711	5.24	26,916	3.85

* No Observation.

** No intercept survey, used Metroplex survey trip rates for data expansion and trip estimation.

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 Tables 36 through 38 were based on raw trip data, and required some adjustments in the estimation process to generate results that were more representative of the population. For example, for the CBD area type, only one site was surveyed in the basic and education employment type category (see Table 33). 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.

Tables 40 and 41 show the total person and vehicle trip attractions by trip purpose and employment type, respectively.

Table 40. Total Person Trip Attractions.

Employment Type	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	Total Person Trips
Basic	2,229	1,943	197	431	40	74	857	5,771
Retail	2,888	40,409	2,709	7,252	1,235	1,380	3,851	59,724
Service	2,207	10,415	1,149	2,268	168	104	1,052	17,363
Education	9,448	52,266	3,024	7,585	1,365	647	4,285	78,620
Total	16,772	105,033	7,079	17,536	2,808	2,205	10,045	161,478

Table 41. Total Vehicle Trip Attractions.

Employment Type	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	Total Vehicle Trips
Basic	2,217	1,760	187	415	40	74	817	5,510
Retail	2,826	31,107	2,095	5,653	982	1,101	2,975	46,739
Service	2,182	8,788	965	1,933	146	92	900	15,006
Education	8,374	37,086	2,260	5,644	1,040	499	3,087	57,990
Total	15,599	78,741	5,507	13,645	2,208	1,766	7,779	125,245

Tables 42 and 43 show the adjusted trip attraction rates for each category of trip purpose by area type and employment type.

Table 42. Adjusted Person Trip Attraction Rates.

Trip Purpose	Area Type	Person Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	CBD	1.16	1.11	1.38	3.79
	CBD Fringe	1.16	1.11	1.38	3.79
	Urban	1.65	1.55	1.44	3.79
	Sub-Urban	1.65	1.35	1.45	1.48
	Rural	2.26	1.35	1.61	2.26
HBNW Retail	CBD		32.73		
	CBD Fringe		32.73		
	Urban		31.91		
	Sub-Urban		9.56		
	Rural		9.56		
HBNW Other Attractions	CBD	0.46		5.63	
	CBD Fringe	0.46		5.63	
	Urban	1.45		6.36	
	Sub-Urban	1.45		6.87	
	Rural	3.35		8.47	
HBNW School Attractions	CBD				13.06
	CBD Fringe				13.06
	Urban				13.06
	Sub-Urban				10.95
	Rural				16.73
NHB-D	CBD	0.03	2.50	0.62	0.70
	CBD Fringe	0.03	2.50	0.62	0.70
	Urban	0.19	1.95	0.39	0.70
	Sub-Urban	0.19	0.60	0.80	0.65
	Rural	0.22	0.60	1.09	1.00
NHB-O	CBD	0.22	7.01	1.27	2.08
	CBD Fringe	0.22	7.01	1.27	2.08
	Urban	0.44	4.13	0.61	2.08
	Sub-Urban	0.44	1.83	1.39	1.52
	Rural	0.00	1.83	2.19	2.33
EXT-D	CBD	0.05	1.87	0.08	0.22
	CBD Fringe	0.05	1.87	0.08	0.22
	Urban	0.02	0.30	0.23	0.22
	Sub-Urban	0.02	0.21	0.16	0.33
	Rural	0.00	0.21	0.08	0.50
EXT-O	CBD	0.04	2.26	0.08	0.19
	CBD Fringe	0.04	2.26	0.08	0.19
	Urban	0.07	0.23	0.03	0.19
	Sub-Urban	0.07	0.20	0.13	0.12
	Rural	0.00	0.20	0.08	0.19
NON-RES	CBD	0.27	4.53	0.82	0.77
	CBD Fringe	0.27	4.53	0.82	0.77
	Urban	0.69	1.72	1.08	0.77
	Sub-Urban	0.69	0.85	1.06	1.00
	Rural	1.13	0.85	0.45	1.53

Table 43. Adjusted Vehicle Trip Attraction Rates.

Trip Purpose	Area Type	Vehicle Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	CBD	1.16	1.11	1.36	3.11
	CBD Fringe	1.16	1.11	1.36	3.11
	Urban	1.65	1.39	1.44	3.11
	Sub-Urban	1.65	1.29	1.59	1.54
	Rural	2.23	1.32	1.59	1.92
HBNW Retail	CBD		25.58		
	CBD Fringe		25.58		
	Urban		15.03		
	Sub-Urban		13.94		
	Rural		7.15		
HBNW Other Attractions	CBD	0.44		4.70	
	CBD Fringe	0.44		4.70	
	Urban	1.27		5.35	
	Sub-Urban	1.27		7.20	
	Rural	3.16		7.20	
HBNW School Attractions	CBD				9.22
	CBD Fringe				9.22
	Urban				9.22
	Sub-Urban				10.26
	Rural				8.11
NHB-D	CBD	0.03	1.98	0.51	0.53
	CBD Fringe	0.03	1.98	0.51	0.53
	Urban	0.18	1.16	0.33	0.53
	Sub-Urban	0.18	1.08	0.92	0.50
	Rural	0.21	0.45	0.92	0.72
NHB-O	CBD	0.22	5.51	1.07	1.57
	CBD Fringe	0.22	5.51	1.07	1.57
	Urban	0.42	2.75	0.54	1.57
	Sub-Urban	0.42	2.55	1.87	1.05
	Rural	0.00	1.40	1.87	1.84
EXT-D	CBD	0.05	1.49	0.07	0.17
	CBD Fringe	0.05	1.49	0.07	0.17
	Urban	0.02	0.39	0.19	0.17
	Sub-Urban	0.02	0.36	0.08	0.32
	Rural	0.00	0.16	0.08	0.27
EXT-O	CBD	0.04	1.80	0.07	0.15
	CBD Fringe	0.04	1.80	0.07	0.15
	Urban	0.07	0.44	0.03	0.15
	Sub-Urban	0.07	0.41	0.08	0.14
	Rural	0.00	0.16	0.08	0.07
NON-RES	CBD	0.27	3.54	0.69	0.55
	CBD Fringe	0.27	3.54	0.69	0.55
	Urban	0.64	1.93	0.93	0.55
	Sub-Urban	0.64	1.79	0.39	0.76
	Rural	1.09	0.64	0.39	1.05

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

Table 44. Adjusted Total Person Trip Attraction Rates.

Employment Type	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	Total Person Trips
Basic	1.56	1.36	0.14	0.30	0.03	0.05	0.60	4.04
Retail	1.34	18.74	1.26	3.36	0.57	0.64	1.79	27.70
Service	1.50	7.06	0.78	1.54	0.11	0.07	0.71	11.77
Education	2.38	13.19	0.76	1.91	0.34	0.16	1.08	19.82

Table 45. Adjusted Total Vehicle Trip Attraction Rates.

Employment Type	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	Total Vehicle Trips
Basic	1.55	1.23	0.13	0.29	0.03	0.05	0.57	3.85
Retail	1.31	14.43	0.97	2.62	0.46	0.51	1.38	21.68
Service	1.48	5.96	0.65	1.31	0.10	0.06	0.61	10.17
Education	2.11	9.36	0.57	1.42	0.26	0.13	0.78	14.63

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

Table 46. Number of Establishments and Total Employment in the Killeen-Temple Study Area by Employment Type.

Employment Type	Number of Establishments	Reported Total Employment
Basic	1,060	21,462
Retail	1,326	23,793
Service	2,496	45,063
Education	163	15,129
Total	5,045	105,447

Source: Texas Workforce Commission, 2004.

Tables 47 and 48 show the estimated total person and vehicle trip attractions by employment type and trip purpose for the Killeen-Temple study area, respectively.

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

Employment Type	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	Total Person Trips
Basic	33,530	29,230	2,969	6,485	605	1,120	12,892	86,831
Retail	31,866	445,937	29,899	80,027	13,634	15,229	42,495	659,087
Service	67,437	318,201	35,090	69,285	5,122	3,173	32,152	530,460
Education	36,059	199,477	11,541	28,950	5,210	2,468	16,354	300,059
Total	168,892	992,845	79,499	184,747	24,571	21,990	103,893	1,576,437

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

Employment Type	HBW	HBNW	NHB-D	NHB-O	EXT-D	EXT-O	NON-RES	Total Vehicle Trips
Basic	33,342	26,468	2,805	6,238	605	1,108	12,300	82,866
Retail	31,191	343,284	23,124	62,386	10,831	12,150	32,828	515,794
Service	66,652	268,470	29,473	59,069	4,475	2,801	27,524	458,464
Education	31,960	141,543	8,624	21,541	3,969	1,907	11,781	221,325
Total	163,145	779,765	64,026	149,234	19,880	17,966	84,433	1,278,449

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	0.92	19,672
Retail	0.52	12,327
Service	0.47	21,050
Education	0.62	9,354
Total	2.53	62,403

The estimated total trip attractions from the work place survey were then compared with the estimated total trip productions from the household survey. Table 50 provides a summary of the raw travel estimates from the travel surveys conducted in the Killeen-Temple study area. The results show that there were more HBNW trips from the work place survey than the estimates from the household survey. There were more NHB destination trips from the household survey, compared to the combined NHB trips from the work place survey. The estimates of external trips and non-resident trips were shown for informational purposes only since the current travel demand model does not use external trip rates. The estimates of commercial vehicle trips from the work place survey were close to half of the total estimates from the commercial vehicle survey.

Table 50. Raw Travel Estimates for Killeen-Temple Study Area.

Trip Purpose	Work place Survey		Household Survey		External Survey		Commercial Vehicle Survey
	Person	Vehicle	Person	Vehicle	Person	Vehicle	Vehicle
HBW	168,892	163,145	159,611	148,470	-	-	-
HBNW Retail	445,937	343,284	234,318	170,703	-	-	-
HBNW Other	347,431	294,939	242,502	163,915	-	-	-
HBNW School	199,477	141,543	225,420	104,128	-	-	-
NHB-D	79,499	64,026	359,564	259,903	-	-	-
NHB-O	184,747	149,234	-	-	-	-	-
EXT-D	24,571	19,880	-	-	71,041	57,633	-
EXT-O	21,990	17,966	-	-	71,041	57,633	-
NON-RES	103,893	84,433	-	-	-	-	-
Commercial Vehicles	-	62,403	-	-	-	21,695	125,862

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. Correction factors for HBW and HBNW 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 for HBW and HBNW trips, respectively. 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. Since the employment data that was available for the Killeen-Temple study area was not classified by area type, it was necessary to stratify the data using the percentage of employment by area type from the work place survey data to estimate the total trip attractions by area type and employment type.

Tables 51 and 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	CBD	1.10	1.00	1.23	2.41
	CBD Fringe	1.32	1.22	1.34	2.52
	Urban	1.66	1.37	1.42	2.64
	Sub-Urban	1.64	1.52	1.47	2.11
	Rural	1.54	1.06	1.52	2.17
HBNW Retail	CBD		12.40		
	CBD Fringe		12.29		
	Urban		11.97		
	Sub-Urban		9.93		
	Rural		6.17		
HBNW Other Attractions	CBD	0.53		4.89	
	CBD Fringe	0.86		4.83	
	Urban	0.97		4.95	
	Sub-Urban	1.21		4.98	
	Rural	1.12		4.95	
HBNW School Attractions	CBD				13.86
	CBD Fringe				15.35
	Urban				16.36
	Sub-Urban				15.01
	Rural				14.41
NHB	CBD	0.42	7.55	3.13	3.72
	CBD Fringe	0.53	7.44	2.94	4.06
	Urban	0.67	6.64	2.56	4.34
	Sub-Urban	0.74	5.79	3.39	3.41
	Rural	0.55	5.57	3.60	3.56

Table 52. Recommended Vehicle Trip Attraction Rates.

Trip Purpose	Area Type	Vehicle Trips			
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
HBW Attractions	CBD	1.07	1.00	1.18	2.07
	CBD Fringe	1.23	1.13	1.25	2.10
	Urban	1.60	1.25	1.30	2.23
	Sub-Urban	1.55	1.38	1.43	1.79
	Rural	1.51	1.06	1.47	1.90
HBNW Retail	CBD		8.83		
	CBD Fringe		8.67		
	Urban		8.43		
	Sub-Urban		7.38		
	Rural		4.76		
HBNW Other Attractions	CBD	0.41		3.27	
	CBD Fringe	0.65		3.21	
	Urban	0.67		3.35	
	Sub-Urban	0.88		3.36	
	Rural	0.77		3.32	
HBNW School Attractions	CBD				6.33
	CBD Fringe				6.88
	Urban				7.48
	Sub-Urban				7.07
	Rural				6.58
NHB	CBD	0.25	5.28	2.26	2.38
	CBD Fringe	0.37	5.17	2.19	2.61
	Urban	0.62	4.41	2.09	2.96
	Sub-Urban	0.69	4.22	2.59	2.26
	Rural	0.52	3.86	2.70	2.45

Tables 53 and 54 show the recommended person and vehicle attraction rates for all area types by employment category, respectively. Tables 55 and 56 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 and NHB trip purposes. The external and non-resident trip attractions were not adjusted and balanced but were shown here for informational purposes only.

Table 53. Recommended Total Person Trip Attraction Rates by Employment Type.

Employment Type	HBW	HBNW	NHB	EXT-D	EXT-O	NON-RES	Total
Basic	1.48	0.95	0.60	0.03	0.05	0.60	3.71
Retail	1.27	9.85	6.29	0.57	0.64	1.79	20.40
Service	1.41	4.93	3.15	0.11	0.07	0.71	10.39
Education	2.25	14.90	3.64	0.34	0.16	1.08	22.38

Table 54. Recommended Total Vehicle Trip Attraction Rates by Employment Type.

Employment Type	HBW	HBNW	NHB	EXT-D	EXT-O	NON-RES	Total
Basic	1.41	0.69	0.51	0.03	0.05	0.57	3.27
Retail	1.19	7.17	4.38	0.46	0.51	1.38	15.09
Service	1.35	3.31	2.39	0.10	0.06	0.61	7.82
Education	1.92	6.88	2.43	0.26	0.13	0.78	12.40

Table 55. Total Person Trip Attractions by Employment Type and Trip Purpose.

Employment Type	HBW	HBNW	NHB	EXT-D	EXT-O	NON-RES	Total Person Trips
Basic	31,688	20,402	12,864	605	1,120	12,892	79,571
Retail	30,115	234,318	149,579	13,635	15,229	42,495	485,371
Service	63,731	222,100	142,025	5,122	3,174	32,152	468,304
Education	34,077	225,420	55,096	5,210	2,468	16,354	338,625
Total	159,611	702,240	359,564	24,572	21,991	103,893	1,371,871

Table 56. Total Vehicle Trip Attractions by Employment Type and Trip Purpose.

Employment Type	HBW	HBNW	NHB	EXT-D	EXT-O	NON-RES	Total Vehicle Trips
Basic	30,343	14,710	11,022	605	1,108	12,300	70,088
Retail	28,385	170,703	104,212	10,831	12,150	32,828	359,109
Service	60,657	149,205	107,907	4,475	2,801	27,524	352,569
Education	29,085	104,128	36,762	3,969	1,907	11,781	187,632
Total	148,470	438,746	259,903	19,880	17,966	84,433	969,398

Table 57 shows the adjusted 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 58 shows the estimated commercial vehicle trip attractions.

Table 57. Adjusted and Balanced Commercial Vehicle Trip Attraction Rates.

Area Type	Commercial Vehicle Trips			
	Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee
CBD	0.64	0.93	0.54	1.16
CBD Fringe	0.64	0.93	0.54	1.16
Urban	2.89	1.64	1.54	1.16
Sub-Urban	2.89	0.86	0.94	1.22
Rural	1.23	0.86	0.94	1.11
Average	1.85	1.04	0.94	1.25

Table 58. Total Commercial Vehicle Trip Attractions.

Area Type	Basic	Retail	Service	Education	Total Vehicle Trips
CBD	2,487	2,668	3,907	1,860	10,922
CBD Fringe	2,487	2,668	3,907	1,860	10,922
Urban	15,501	8,393	15,591	1,860	41,345
Sub-Urban	15,501	5,566	9,525	8,414	39,006
Rural	3,701	5,566	9,525	4,872	23,664
Total	39,677	24,861	42,455	18,866	125,859

SURVEY SUMMARY

In 2010, the TPP Division of TxDOT funded a work place and special generator travel survey in the Killeen-Temple 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 Killeen-Temple urban areas.

The work place survey consisted of four data collection efforts which included a general establishment survey, an intercept interview survey, a person or vehicle count, and a commercial vehicle count. The surveyed establishments were classified as either full survey sites or partial survey sites. The full survey sites consisted of 100 establishments with a total reported employment of 2,763. A total of 1,096 employees and 1,947 non-employees/visitors participated in the intercept interviews. The partial survey sites consisted of 198 establishments with a total reported employment of 6,259. The partial sites did not include intercept interview surveys. The survey findings indicated that approximately 161,850 persons and 125,560 non-commercial vehicles were traveling to and from the surveyed establishments during the travel survey period. More than 5,500 commercial vehicles were observed to have entered and exited the surveyed establishments during their normal operating hours.

The special generator survey included eight special generators. These included one university (University of Mary Hardin Baylor), two colleges (Central Texas College Main Campus and Temple Junior College), one airport (Fort Hood Killeen Regional Airport), two shopping centers (Killeen Mall and Temple Mall), and two hospitals (Metroplex Hospital and Scott & White Hospital). The total reported employment at these eight special generators was 10,392, of which 8,820 employees were estimated to be at work during the travel survey day. A total of 669 employees and 2,803 non-employees participated in the intercept interview survey, which generated a total of 6,944 trips from the trip origin to the establishment and from the establishments to the destination. There were 108,090 non-commercial vehicles and 1,517 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. The raw commercial vehicle trips were also adjusted, 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 Killeen-Temple study area to achieve more acceptable results.

**APPENDIX A:
WORK PLACE SURVEY FORMS**

**Record Type RSK – Killeen-Temple
WORK PLACE RECRUITMENT SURVEY
FORM G**

SAMPLE NUMBER: _____ RECRUITER: _____
DATE: _____ COMPANY NAME: _____
ADDRESS _____
CONTACT NAME / POSITION: _____ / _____
COMPANY PHONE: _____ FAX NUMBER: _____
Employment Type: _____ TRANSPORTATION ANALYSIS ZONE _____

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 entrance(s) 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.

Recruitment Survey Form - 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? _____ #

3. On a typical week day, how many employees do you have working at this location? _____ #

4. What are your hours of operation? FROM _____ a.m./p.m. TO _____ a.m./p.m.

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? _____:_____ a.m. or _____:_____ p.m.

8. What time does your last employee leave? _____:_____ a.m. or _____:_____ p.m.

9. How many deliveries are made at this location on an average day? _____ #

10. What are the delivery hours? from _____ a.m./p.m. to _____ a.m./p.m.

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

_____ pick-up truck

_____ van used for cargo delivery or pick up

_____ 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 ###-####.

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, the reminder call, a follow-up call, or a form retrieval call. Record notes about what happened when called.

DATE	CALLS
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Survey Date: _____
Record Type 9

Site # _____
NAICS Code: _____
TAZ No. _____

WORK PLACE GENERAL SURVEY
Form A

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) _____ No. 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 _____ Pick-Up Trucks

Record Type K10

**KILLEEN-TEMPLE WORK PLACE
INTERCEPT TRAVEL SURVEY
Form B**

Free Standing Workplace
TAZ _____ Survey Area _____
Site # _____
Date: ____/____/_____
Interviewer: _____
Employment Type _____

Address: _____

Date: _____ Location: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time Interview Began		
Time Interview Ended		
1. Do you work in this building or at this location?	1) Yes 2) No	1) Yes 2) No
2. In what city or county do you live?		
3a. Is that outside of Bell County, Fort Hood, and the urbanized area of Copperas Cove? (If NO go to question 4)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If NO go to Question 4)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If NO go to Question 4)
3b. If YES – Which roadway did you use to enter the area? (airport is an option)	b. _____	b. _____
4. What is your home address or nearest two intersecting streets?		
5a. Did you travel here directly from your home with no stops? (if YES go to Question 7)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No
5b. If NO, where did you start your trip that brought you to _____?	b. _____ (Address or nearest intersecting streets)	b. _____ (Address or nearest intersecting streets)
6a. Is that location:	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove <input type="checkbox"/> Other County	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove <input type="checkbox"/> Other County
6b. If outside those areas, 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?	_____ a.m. / _____ p.m.	_____ a.m. / _____ p.m.
8. How did you arrive here at the _____? (Choose from arrival options)		
9a. If car/truck/van, ask: How many people, including yourself, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a) # people _____ b) Fare \$ _____.	a) # people _____ b) Fare \$ _____.
10. What is the reason for coming here today? (Choose from trip purpose options)	Number _____ Other _____	Number _____ Other _____
11. When you leave here are you going straight home with no stops?	<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)

Killeen-Temple Work Place Intercept Survey, Form B - Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
12. What is the address of the place you will be going?	_____ _____ (Address or nearest intersecting streets)	_____ _____ (Address or nearest intersecting streets)
13a. Is that location: 13b. If outside those areas, what street or highway will you be on when you leave this area.?	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove <input type="checkbox"/> Other County b. _____	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove <input type="checkbox"/> Other County b. _____
14. Thank them for their time and participating		

<u>Arrival Option</u>	<u>Trip Purpose Options</u>	
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 Transport Vehicle 9) Commercial Service Vehicle 10) Motorcycle 11) Other – specify in block 99) Non-Response	1) Work related 2) School 3) Social/recreational/visit 4) Shop 5) Eat out 6) Personal Business 7) Pick up/drop off passenger 8) Change travel mode 9) Delivery – pick up/drop off 10) Other – specify in block 99) Non-response	

Record Type K11

**KILLEEN-TEMPLE WORK PLACE
INTERCEPT TRAVEL SURVEY
Form C**

Non Free Standing Workplace

TAZ _____ Survey Area _____

Site # _____

Date: ____/____/____

Interviewer: _____

Employment Type _____

Address: _____

Date: _____ Location: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began		
Time interview ended		
1. Do you work in this building or at this location?	1) Yes 2) No	1) Yes 2) No
2. In what city or county do you live?		
3a. Is that outside of Bell County, Fort Hood, and the urbanized area of Copperas Cove? (If NO go to question 4)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If NO go to Question 4)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If NO go to Question 4)
3b. If YES – Which roadway did you use to enter the area? (airport is an option)	b. _____	b. _____
4. What is your home address or nearest two intersecting streets?		
5a. Did you travel here directly from your home with no stops? (if YES go to Question 7)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If YES go to Question 7)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If YES go to Question 7)
5b. If NO where did you start your trip that brought you to _____?	b. _____ (Address or nearest intersection)	b. _____ (Address or nearest intersection)
6a. Is that location?	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove <input type="checkbox"/> OtherCounty	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove <input type="checkbox"/> Other County
6b. If outside of those areas, 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?	_____ a.m. / _____ p.m.	_____ a.m. / _____ p.m.
8. How did you arrive here at the _____ today? (Choose from arrival options)		
9a. If car/truck/van, ask: How many people, including yourself, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a) # people _____ b) Fare \$ _____.	a) # people _____ b) Fare \$ _____.
10. What is the reason for coming here today? (Choose from trip purpose options)	Number _____ Other _____	Number _____ Other _____
11. Is this the 1 st store / establishment you have visited since arriving at this location?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Killeen-Temple Work Place Intercept Survey, Form C - Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
12. How many stores /establishments have you visited in this center during this trip?		
13. How many more stores or businesses do you plan to visit in this center / building?		
14. When you leave here are you going straight home with no stops?	<input type="checkbox"/> Yes (Go to 17) <input type="checkbox"/> No (Go to 15)	<input type="checkbox"/> Yes (Go to 17) <input type="checkbox"/> No (Go to 15)
15. What is the address of the place you will be going?	_____ _____ (Address or nearest intersecting streets)	_____ _____ (Address or nearest intersecting streets)
16a. Is that location in:	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove <input type="checkbox"/> Other County	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove <input type="checkbox"/> Other County
16c. If outside those areas, what street or highway will you be on when you leave this area.?	b. _____	b. _____
17. Thank them for their time and participation.		

<u>Arrival Option</u>	<u>Trip Purpose Options</u>	
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 Transport Vehicle 9) Commercial Service Vehicle 10) Motorcycle 11) Other – specify in block 99) Non-Response	1) Work related 2) School 3) Social/recreational/visit 4) Shop 5) Eat out 6) Personal Business 7) Pick up/drop off passenger 8) Change travel mode 9) Delivery – pick up/drop off 10) Other – specify in block 99) Non-response	

Record Type SKA

**FORT HOOD KILLEEN REGIONAL AIRPORT
SPECIAL GENERATOR INTERCEPT SURVEY
Form B**

Date: _____/_____/_____

Interviewer: _____ Airport: _____ Approximate Location in Airport _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began		
Time interview ended		
1. Do you work here at the airport?	1) Yes 2) No	1) Yes 2) No
2. In what city do you live?		
3. Is that outside Bell County, Fort Hood, and the Copperas Cove urbanized area?	<input type="checkbox"/> Yes (go to 4) <input type="checkbox"/> No (go to 5)	<input type="checkbox"/> Yes (go to 4) <input type="checkbox"/> No (go to 5)
If they live outside the area listed, ask:	_____	_____
4. Which roadway did you use to enter the Killeen-Temple area?	_____	_____
If they live in one of the areas listed ask:	_____	_____
5. What is your home address or nearest two intersecting streets?	_____	_____
6. How did you arrive here at the airport today? (Choose from arrival options below)	Arrival Option # _____ Other _____ If by airplane, go to 10	Arrival Option # _____ Other _____ If by airplane, go to 10
Arrival Options: 1) Driver (car/truck/van) 2) Passenger (car/truck/van) 99) Refused	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) Airplane	12) Hotel/Motel Shuttle Bus 13) Other Parking Shuttle 14) Other – Specify in box
7. If arrival was by car/truck/van, ask: How many people, including yourself were in the vehicle when you arrived at the airport? If arrival was by bus or taxi, what fare did you pay?	# of People _____ Fare \$ _____	# of People _____ Fare \$ _____
8. Did you travel here directly from your home to the airport with no stops? If NO, where did you start your trip that brought you to the university?	a. <input type="checkbox"/> Yes (Go to 10) <input type="checkbox"/> No _____ (Address or nearest intersection)	a. <input type="checkbox"/> Yes (Go to 10) <input type="checkbox"/> No _____ (Address or nearest intersection)
9. Is that location in Bell County, Fort Hood, or the Copperas Cove urbanized area? If No, what street or highway were you on when you entered McLennan County?	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____

Fort Hood Killeen Regional Airport Work Place Intercept Survey, Form C - Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
10. What approximate time did you arrive at the airport today?	_____ a.m. / _____ p.m.	_____ a.m. / _____ p.m.
11. What is the reason for coming here today? Choose from trip purpose options below)	Number _____ Other _____	Number _____ Other _____
Trip Purpose Options: 1) Return Home 4) Social Recreation/Visit 7) Personal Business 10) Delivery – pick up or drop off 2) Work Related 5) Shop 8) Pick Up/Drop Off Passenger 11) Other – Specify in block 3) School 6) Eat Out 9) Change Travel Mode 99) Refused		
12. When you leave the airport, what mode will you use? (Choose from options below)	Option # _____ Other _____	Option # _____ Other _____
Departure Options: 3) Walk 6) School bus 9) Commercial Service Vehicle 12) Hotel/Motel Shuttle Bus 1) Driver (car/truck/van) 4) Bicycle 7) Taxi/Paid Limousine 10) Motorcycle 13) Other Parking Shuttle 2) Passenger (car/truck/van) 5) Transit Bus 8) Commercial Cargo Vehicle 11) Airplane 14) Other – Specify in box 99) Refused		
13. When you leave the airport are you going straight home with no stops?	<input type="checkbox"/> Yes (Go to 16) <input type="checkbox"/> No (Go to 14)	<input type="checkbox"/> Yes (Go to 16) <input type="checkbox"/> No (Go to 14)
14. What is the name and address of the place you will be going?	_____ _____ (Address or nearest intersecting streets)	_____ _____ (Address or nearest intersecting streets)
15. Is that outside Bell County, Fort Hood, and the Copperas Cove urbanized area? If YES, what street or highway will you be on when you leave the Killeen-Temple area?	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____
16. Thank them for their time and participation.		

Record Type SMH

**UNIVERSITY OF MARY-HARDIN BAYLOR
SPECIAL GENERATOR INTERCEPT SURVEY**

Form B

Date: _____/_____/_____

Interviewer: _____ Location on Campus: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time interview began		
Time interview ended		
1. Are you a student here at the university?	1) Yes (Go to Question 2) 2) No (Go to Question 3)	1) Yes (Go to Question 2) 2) No (Go to Question 3)
2. Do you live on campus?	1) Yes (Terminate Interview) 2) No (Go to Question 3)	1) Yes (Terminate Interview) 2) No (Go to Question 3)
3. Do you work here at the university or are you visiting the university?	1) Employee 2) Visitor	1) Employee 2) Visitor
4. In what city or county do you live?		
5. Is that outside Bell County, Fort Hood, or the Copperas Cove urbanized area?	<input type="checkbox"/> Yes (go to 6) <input type="checkbox"/> No (go to 7)	<input type="checkbox"/> Yes (go to 6) <input type="checkbox"/> No (go to 7)
If they live outside the areas listed, ask: 6. Which roadway did you use to enter the Killeen-Temple area?	_____	_____
If they live in one of the areas listed, ask: 7. What is your home address or nearest two intersecting streets?	_____	_____
8. How did you arrive here at the university today? (Choose from arrival options below)	Arrival Option # _____ Other _____	Arrival Option # _____ Other _____
Arrival 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 in box
9. If arrival was by car/truck/van, ask: How many people, including yourself were in the vehicle when you arrived at the university? Where did you park?	# of People _____ 1) On-Campus 2) Off Campus Parking Lot 3) Off Campus in Street Designated Parking Spot 4) Other (specify) _____	# of People _____ 1) On-Campus 2) Off Campus Parking Lot 3) Off Campus in Street Designated Parking Spot 4) Other (specify) _____
10. Did you travel here directly from your home to the university with no stops? If NO, where did you start your trip that brought you to the university?	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If YES go to Question 12) _____ (Address or nearest intersection)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If YES go to Question 12) _____ (Address or nearest intersection)
11. Is that location in Bell County, Fort Hood, or the Copperas Cove urbanized area? If No, what street or highway were you on when you entered the Killeen-Temple area?	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____

University of Mary-Hardin Baylor Intercept Survey Form B - Continued

Questions	Person 1	Person 2
12. What approximate time did you arrive at the university today?	_____ a.m. / _____ p.m.	_____ a.m. / _____ p.m.
13. What is the reason for coming here today? (Choose from trip purpose options below)	Number _____ Other _____	Number _____ Other _____
Trip Purpose Options: 1) Return Home 4) Social Recreation/Visit 7) Personal Business 10) Delivery – pick up or drop off 2) Work Related 5) Shop 8) Pick Up/Drop Off Passenger 11) Other – specify in block 3) School 6) Eat Out 9) Change Travel Mode 99) Refused		
14. When you leave the university, what mode will you use? (Choose from options below)	Option # _____ Other _____	Option # _____ Other _____
Departure Options: 3) Walk 6) School bus 9) Commercial Service Vehicle 99) Refused 1) Driver (car/truck/van) 4) Bicycle 7) Taxi/Paid Limousine 10) Motorcycle 2) Passenger (car/truck/van) 5) Transit Bus 8) Commercial Cargo Vehicle 11) Other – Specify in box		
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 (If NO go to Question 16)	<input type="checkbox"/> Yes(Go to 18) <input type="checkbox"/> No (If NO go to Question 16)
16. What is the name and address of the place you will be going?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
17. Is this outside Bell County, Fort Hood, and the Copperas Cove urbanized area? If yes, what street or highway will you be on when you leave the Killeen-Temple area?	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____
18. Thank them for their time and participating.		

Record Type SCK

**CENTRAL TEXAS COLLEGE MAIN CAMPUS
SPECIAL GENERATOR INTERCEPT SURVEY**

Form B

Date: _____/_____/_____

Interviewer: _____ Location on Campus: _____

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

Central Texas College Main Campus Intercept Survey Form B – Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
12. What approximate time did you arrive at the college today?	_____ a.m. / _____ p.m.	_____ a.m. / _____ p.m.
13. What is the reason for coming here today? (Choose from trip purpose options below)	Number _____ Other _____	Number _____ Other _____
Trip Purpose Options: 1) Return Home 4) Social Recreation/Visit 7) Personal Business 10) Delivery – pick up or drop off 2) Work Related 5) Shop 8) Pick Up/Drop Off Passenger 11) Other – specify in block 3) School 6) Eat Out 9) Change Travel Mode 99) Refused		
14. When you leave the college, what mode will you use? (Choose from options below)	Option # _____ Other _____	Option # _____ Other _____
Departure Options: 3) Walk 6) School bus 9) Commercial Service Vehicle 99) Refused 1) Driver (car/truck/van) 4) Bicycle 7) Taxi/Paid Limousine 10) Motorcycle 2) Passenger (car/truck/van) 5) Transit Bus 8) Commercial Cargo Vehicle 11) Other – Specify in box		
15. When you leave the college are you going straight home with no stops?	<input type="checkbox"/> Yes (Go to 18) <input type="checkbox"/> No (If NO go to Question 16)	<input type="checkbox"/> Yes(Go to 18) <input type="checkbox"/> No (If NO go to Question 16)
16. What is the name and address of the place you will be going?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
17. Is that outside Bell County, Fort Hood, and the Copperas Cove urbanized area? If yes, what street or highway will you be on when you leave the Killeen-temple area?	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____
18. Thank them for their time and participating.		

Record Type STK

**TEMPLE JUNIOR COLLEGE
SPECIAL GENERATOR INTERCEPT SURVEY
Form B**

Date: _____/_____/_____

Interviewer: _____ Location on Campus: _____

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

Temple Junior College Intercept Survey Form B – Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
12. What approximate time did you arrive at the college today?	_____ a.m. / _____ p.m.	_____ a.m. / _____ p.m.
13. What is the reason for coming here today? (Choose from trip purpose options below)	Number _____ Other _____	Number _____ Other _____
Trip Purpose Options: 1) Return Home 4) Social Recreation/Visit 7) Personal Business 10) Delivery – pick up or drop off 2) Work Related 5) Shop 8) Pick Up/Drop Off Passenger 11) Other – specify in block 3) School 6) Eat Out 9) Change Travel Mode 99) Refused		
14. When you leave the college, what mode will you use? (Choose from options below)	Option # _____ Other _____	Option # _____ Other _____
Departure Options: 3) Walk 6) School bus 9) Commercial Service Vehicle 99) Refused 1) Driver (car/truck/van) 4) Bicycle 7) Taxi/Paid Limousine 10) Motorcycle 2) Passenger (car/truck/van) 5) Transit Bus 8) Commercial Cargo Vehicle 11) Other – Specify in box		
15. When you leave the college are you going straight home with no stops?	<input type="checkbox"/> Yes (Go to 18) <input type="checkbox"/> No (If NO go to Question 16)	<input type="checkbox"/> Yes(Go to 18) <input type="checkbox"/> No (If NO go to Question 16)
16. What is the name and address of the place you will be going?	_____ _____ (Address or nearest intersection)	_____ _____ (Address or nearest intersection)
17. Is that outside Bell county, Fort Hood, and the Copperas Cove urbanized area? If yes, what street or highway will you be on when you leave the Killeen-Temple area?	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____ _____
18. Thank them for their time and participating.		

Record Type SVK

**KILLEEN MALL
SPECIAL GENERATOR INTERCEPT TRAVEL SURVEY**

Form B

TAZ _____ Survey Area _____

Address: _____

Date: ____/____/____

Interviewer: _____

Date: _____ Location: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time Interview Began		
Time Interview Ended		
1. Do you work in this building or at this location?	1) Yes 2) No	1) Yes 2) No
2. In what city or county do you live?		
3a. Is that outside of Bell County, Fort Hood, and the Copperas Cove urbanized area? (If NO go to question 4)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If NO go to Question 4)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If NO go to Question 4)
3b. If YES – Which roadway did you use to enter the Killeen-Temple area? (airport is an option)	b. _____	b. _____
4. What is your home address or nearest two intersecting streets?		
5a. Did you travel here directly from your home with no stops? (if YES go to Question 7)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No
5b. If NO, where did you start your trip that brought you to _____?	b. _____ (Address or nearest intersecting streets)	b. _____ (Address or nearest intersecting streets)
6a. Is that location:	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove urbanized area <input type="checkbox"/> Other County	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove urbanized area <input type="checkbox"/> Other County
6b. If outside these areas, what street or highway were you on when you entered the Killeen-Temple area?	b. _____	b. _____
7. What approximate time did you arrive at this location today?	_____ a.m. / _____ p.m.	_____ a.m. / _____ p.m.
8. How did you arrive here at the _____? (Choose from arrival options)		
9a. If car/truck/van, ask: How many people, including yourself, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a) # people _____ b) Fare \$ _____.	a) # people _____ b) Fare \$ _____.
10. What is the reason for coming here today? (Choose from trip purpose options)	Number _____ Other _____	Number _____ Other _____
11. When you leave here are you going straight home with no stops?	<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)

Richland Mall Intercept Survey, Form B - Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
12. What is the address of the place you will be going?	<p>_____</p> <p>_____</p> <p>(Address or nearest intersecting streets)</p>	<p>_____</p> <p>_____</p> <p>(Address or nearest intersecting streets)</p>
13a. Is that location: 13b. If outside these areas, what street or highway were you on when you left the Killeen Temple area?	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove urbanized area <input type="checkbox"/> Other County b. _____	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove urbanized area <input type="checkbox"/> Other County b. _____
14. Thank them for their time and participating		

<u>Arrival Option</u>	<u>Trip Purpose Options</u>	
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 Transport Vehicle 9) Commercial Service Vehicle 10) Motorcycle 11) Other – specify in block 99) Non-Response	1) Work related 2) School 3) Social/recreational/visit 4) Shop 5) Eat out 6) Personal Business 7) Pick up/drop off passenger 8) Change travel mode 9) Delivery – pick up/drop off 10) Other – specify in block 99) Non-response	

Record Type SSK

**METROPLEX HOSPITAL (KTUTS)
SPECIAL GENERATOR INTERCEPT TRAVEL SURVEY**

Form B

TAZ _____ Survey Area _____

Address: _____

Date: ____/____/____

Interviewer: _____

Date: _____ Location: _____

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
Time Interview Began		
Time Interview Ended		
1. Do you work in this building or at this location?	1) Yes 2) No	1) Yes 2) No
2. In what city or county do you live?		
3a. Is that outside of Bell County, Fort Hood, and the Copperas Cove urbanized area? (If NO go to question 4)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If NO go to Question 4)	a. <input type="checkbox"/> Yes <input type="checkbox"/> No (If NO go to Question 4)
3b. If YES – Which roadway did you use to enter the Killeen-Temple area? (airport is an option)	b. _____	b. _____
4. What is your home address or nearest two intersecting streets?		
5a. Did you travel here directly from your home with no stops? (if YES go to Question 7)	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No	a. <input type="checkbox"/> Yes (Go to 7) <input type="checkbox"/> No
5b. If NO, where did you start your trip that brought you to _____?	b. _____ (Address or nearest intersecting streets)	b. _____ (Address or nearest intersecting streets)
6a. Is that location:	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove urbanized area <input type="checkbox"/> Other County	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove urbanized area <input type="checkbox"/> Other County
6b. If outside these areas, what street or highway were you on when you entered the Killeen-Temple area?	b. _____	b. _____
7. What approximate time did you arrive at this location today?	_____ a.m. / _____ p.m.	_____ a.m. / _____ p.m.
8. How did you arrive here at the _____? (Choose from arrival options)		
9a. If car/truck/van, ask: How many people, including yourself, were in the vehicle? 9b. If bus, ask: What fare did you pay?	a) # people _____ b) Fare \$ _____.	a) # people _____ b) Fare \$ _____.
10. What is the reason for coming here today? (Choose from trip purpose options)	Number _____ Other _____	Number _____ Other _____
11. When you leave here are you going straight home with no stops?	<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)

Metroplex Hospital Intercept Survey, Form B - Continued

<u>Questions</u>	<u>Person 1</u>	<u>Person 2</u>
12. What is the address of the place you will be going?	_____ _____ (Address or nearest intersecting streets)	_____ _____ (Address or nearest intersecting streets)
13a. Is that location: 13b. If outside of these areas, what street or highway will you be on when you leave the Killeen-Temple area?	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove urbanized area <input type="checkbox"/> Other County b. _____ _____	a. In <input type="checkbox"/> Bell County <input type="checkbox"/> Fort Hood <input type="checkbox"/> Copperas Cove urbanized area <input type="checkbox"/> Other County b. _____ _____
14. Thank them for their time and participating		

<u>Arrival Option</u>	<u>Trip Purpose Options</u>	
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 Transport Vehicle 9) Commercial Service Vehicle 10) Motorcycle 11) Other – specify in block 99) Non-Response	1) Work related 2) School 3) Social/recreational/visit 4) Shop 5) Eat out 6) Personal Business 7) Pick up/drop off passenger 8) Change travel mode 9) Delivery – pick up/drop off 10) Other – specify in block 99) Non-response	

**APPENDIX B:
ASCII FILE FORMATS**

Killeen-Temple 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 Killeen-Temple Work Place Recruitment Survey. The data are in ASCII file format.

<u>Item</u>	Field Columns				<u>Description</u>
	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	
1. Record Type	1	3	Alphanum. LJ	A3	Code indicating type of record. Here it should be RSK.
2. Month	4	5	Numeric RJ	I2	Month establishment was contacted.
3. Day	6	7	Numeric RJ	I2	Day of month establishment was contacted.
4. Site Number	8	12	Numeric RJ	I5	Unique non-zero number assigned to each work place.
5. Name	13	62	Alphanum. LJ	A50	Name of establishment.
6. Address	63	112	Alphanum. LJ	A50	Address of establishment.
7. City	113	137	Alphanum. LJ	A25	City where establishment is located.
8. Employment Type	138	140	Numeric RJ	I3	Code indicating the type of employment at the work place. 1 – Basic; 2 – Retail; 3 – Service; 4 – Education; 5 - Other (enter employment description in next field).
9. Other Employment Type	141	170	Alphanum. LJ	A30	If employment type is coded as other, this field contains a description of the employment type.
10. Study Area	171	172	Alphanum. LJ	A2	Code indicating study area. K – Killeen-Temple.
11. Zone	173	177	Numeric RJ	I5	Transportation analysis zone where work place is located.
12. Phone No.	178	187	Numeric RJ	I10	Phone number of work place.
13. Number of Attempts	188	190	Numeric RJ	I3	Number of attempts made to contact work place.
14. Call Disposition Code	191	192	Numeric RJ	I2	Code indicating results of call attempts. See code definitions.
15. Other Disposition	193	242	Alphanum. LJ	A50	If call disposition code is “other”, this field contains a description of the call disposition.
16. Recruitment	243	244	Numeric RJ	I2	Code indicating results of recruitment attempts. 1 – Full Survey; 2 – Partial Survey; 3 – Refusal w/Data; 4 – Refusal w/No data.
17. Employment	245	250	Numeric RJ	I6	Total number of full and part time employees at this location.
18. No. Visitors	251	255	Numeric RJ	I5	Average number of visitors to work place during weekday.
19. No. Employees	256	260	Numeric RJ	I5	Average number of employees at work during weekday.
20. Begin Operations	261	265	Numeric RJ	I5	Normal time (military) operations begin at work place.
21. End Operations	266	270	Numeric RJ	I5	Normal time (military) operations end at work place.
22. Location Code	271	272	Numeric RJ	I2	Code indicating type of location. 1 – Shopping center or office building; 2 – Other.
23. Others at Location	273	274	Numeric RJ	I2	Code indicating if other businesses are located at the same location. 1 – Yes; 2 – No.
24. Parking	275	276	Numeric RJ	I2	Code indicating if work place has its own parking. 1 – Yes; 2 – No.
25. Cut Thru Traffic	277	278	Numeric RJ	I2	Code indicating if traffic cuts through parking lot to access other businesses. 1 – Yes; 2 – No.
26. Arrival Time	279	283	Numeric RJ	I5	Normal time of arrival for first employee.
27. Departure Time	284	288	Numeric RJ	I5	Normal time of departure for last employee.
28. Deliveries	289	291	Numeric RJ	I3	Number of deliveries on an average week day.
29. From Delivery Hours	292	296	Numeric RJ	I5	Beginning time for deliveries in military time.
30. To Delivery Hours	297	301	Numeric RJ	I5	Ending time for deliveries in military time.
31. Special Access	302	303	Numeric RJ	I2	Code indicating if special access is provided for deliveries or employees. 1 – Yes; 2 – No.
32. Business Vehicles	304	310	Numeric RJ	I7	Number of vehicles owned or leased by work place for business purposes.
33. Cars / SUVs	311	315	Numeric RJ	I5	Number of cars and SUVs owned or leased by work place for business purposes.
34. Pick-Up Trucks	316	320	Numeric RJ	I5	Number of pick-up trucks owned or leased by work place for business purposes.
35. Cargo Vans	321	325	Numeric RJ	I5	Number of vans owned or leased by work place used for delivery or pick up of cargo.
36. Service Vans	326	330	Numeric RJ	I5	Number of vans owned or leased by work place used for commercial service or other purposes.
37. Cargo Vehicles	331	335	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.
38. Service Vehicles	336	340	Numeric RJ	I5	Number of service vehicles owned or leased by work place for business purposes that do not fall into the other categories.

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 contains the general information data collected using Form A, Work Place General Survey. The data are in ASCII file format.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns	
				<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. Year	4	7	Numeric RJ	I4	Year work place was surveyed.
3. Month	8	9	Numeric RJ	I2	Month work place was surveyed.
4. Day	10	11	Numeric RJ	I2	Day of month work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Unique non-zero number assigned to each work place.
6. NAICS Code	17	21	Numeric RJ	I5	North American Industrial Classification System code of the work place.
7. Establishment Type	22	23	Numeric RJ	I2	Code indicating the type of work place; 1- free standing, 2- non-free standing.
8. Employment Type	24	25	Numeric RJ	I2	Code indicating the type of employment at the work place. See code descriptions.
9. Name	26	55	Alphanum. LJ	A30	Name of work place.
10. Address	56	85	Alphanum. LJ	A30	Address of work place.
11. City	86	100	Alphanum. LJ	A15	City where work place is located.
12. Zip Code	101	105	Numeric RJ	I5	Zip code for work place location.
13. Phone No.	106	115	Numeric RJ	I10	Phone number for work place.
14. Longitude	116	125	Numeric RJ	F10.0	Longitude of work place address. If unknown, it should be coded 888.888888.
15. Latitude	126	135	Numeric RJ	F10.0	Latitude of work place address. If unknown, it should be coded 888.888888.
16. Area Location	136	137	Alphanum. LJ	A2	Code indicating location of work place. K – Killeen-Temple study area; W – Waco study area.
17. Zone	138	142	Numeric RJ	I5	Zone where work place is located.
18. Hours of Operation	143	144	Numeric RJ	I2	Number of hours in operation during a normal weekday.
19. Number of Vehicles	145	150	Numeric RJ	I6	Total number of non-commercial vehicles entering and exiting the work place during the 24 hours the travel survey was conducted.
20. Number of Persons	151	157	Numeric RJ	I7	Total number of persons counted entering and exiting the work place during the 24 hours the travel survey was conducted.
21. Commercial Vehicles	158	162	Numeric RJ	I5	Total number of commercial vehicles counted entering and exiting the work place during the 24 hours the travel survey was conducted.
22. Total Employment	163	167	Numeric RJ	I5	Total number of persons (full and part time) employed at the establishment.
23. Employees at Work	168	172	Numeric RJ	I5	Total number of employees at work on day the travel survey was conducted.
24. Deliveries	173	175	Numeric RJ	I3	Number of deliveries to work place on day of travel survey.
25. Delivery Hours	176	178	Numeric RJ	I3	Hours allowed for deliveries.
26. Cars & SUVs	179	183	Numeric RJ	I5	Number of cars and SUVs owned or leased by work place for business purposes.
27. Cargo Transport Vans	184	188	Numeric RJ	I5	Number of vans owned or leased by work place for business cargo delivery and pick up purposes.
28. Service Vans	189	193	Numeric RJ	I5	Number of vans owned or leased by work place for business service purposes.
29. Pick-Up Trucks	194	198	Numeric RJ	I5	Number of pick-up trucks owned or leased by work place for business purposes.
30. Cargo Transport Vehicles	199	203	Numeric RJ	I5	Number of cargo transport vehicles owned or leased by work place for business purposes.
31. Service Vehicles	204	208	Numeric RJ	I5	Number of service vehicles owned or leased by work place for business purposes.
32. Other Employment Type	209	258	Alphanum. LJ	A50	If employment type is coded as 15 - Other, this field contains a description of the employment type at the work place.

Item 8: Employment Type Codes

1 – Office (Non Government)	7 – Government/City/County/State/Federal Offices	13 – Wholesale Trade
2 – Retail	8 – Convenience Store/Gas Station	14 – Construction
3 – Industrial	9 – Grocery Store	15 – Other
4 – Medical	10 – Restaurant/Fast Food/Bar & Grill	99 – Unknown/Refused
5 – Education – Day Care / K-12 th	11 – Bank/Financial Institution	
6 – Education – College, trade, other	12 – Manufacturing	

Work Place Intercept Survey, Free Standing Workplace 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>	Field Columns				<u>Description</u>
	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	
1. Record Type	1	3	Alphanum. LJ	A3	Code which indicates the type of record. Here it should be K10 or W10 depending on area work place is located.
2. Year	4	7	Numeric RJ	I4	Year work place was surveyed.
3. Month	8	9	Numeric RJ	I2	Month work place was surveyed.
4. Day	10	11	Numeric RJ	I2	Day of the month 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.
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. Note that airport is a valid entry.
13. Study Area	87	88	Alphanum. LJ	A2	Code indicating study area where person entered. K- Killeen-Temple or W – Waco. 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. K- Killeen-Temple; W – Waco. If address is not located in a study area but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank (i.e., address is out of Texas).

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

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns <u>Format</u>	<u>Description</u>
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 – Bell County; 2 – Copperas Cove; 3 – Fort Hood; 4 – McLennan County; 5 – Other.
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.
27. Zone Location	296	297	Alphanum. LJ	A2	Code indicating location of origin address. K – Killeen-Temple; W – Waco. If address not located in these study areas, but within Texas, this field should contain the number 1 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 these study areas, 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 the study area county, this field should contain a code indicating the study area where the bridge, street, or highway used to enter is located. K– Killeen-Temple; W – Waco.
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.

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

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns <u>Format</u>	<u>Description</u>
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. Bus Fare	360	365	Numeric RJ	F6.2	If mode of travel was bus or rail, 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	Name and address of destination person is going.
42. Destination County	440	442	Numeric RJ	I3	Code indicating county/location of destination. 1 – Bell County; 2 – Copperas Cove; 3 – Fort Hood; 4 – McLennan County; 5 – Other.
43. Other County Destination	443	472	Alphanum. LJ	A30	If destination county/location is coded as "other," this field should contain the county/location name.
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 destination address. K – Killeen-Temple; W – Waco. If address is not in a study area, but within Texas, this field should contain the number 1 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 of both study areas, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. K – Killeen-Temple; W – Waco.
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 leave the study area.
51. Form Number	537	542	Numeric RJ	I6	Survey form number which contains raw survey data.

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

Item 32 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

Item 36 Trip Purpose Codes

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

Work Place Intercept Survey, Non-Free Standing Workplace 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>	Field Columns				<u>Description</u>
	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	
1. Record Type	1	3	Alphanum. LJ	A3	Code which indicates the type of record. Here it should be K11 or W11 depending on area work place is located.
2. Year	4	7	Numeric RJ	I4	Year work place was surveyed.
3. Month	8	9	Numeric RJ	I2	Month work place was surveyed.
4. Day	10	11	Numeric RJ	I2	Day of the month 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.
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 over night, 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. K-Killeen-Temple or W – Waco. 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 home address. K – Killeen-Temple; W – Waco. If address is not located in a study area but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank.

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

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Field Columns</u>		<u>Description</u>
					<u>Format</u>	
20. Zone	176	180	Numeric RJ		I5	Zone number where person lives. Locations in Mexico should be coded 7777. Locations outside the study areas 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 – Bell County; 2 – Copperas Cove; 3 – Fort Hood; 4 – McLennan County; 5 – Other.
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 origin 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 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 origin 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 work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
27. Zone Location	296	297	Alphanum. LJ		A2	Code indicating location of origin address. K – Killeen-Temple; W – Waco. If address not located in these study areas, but within Texas, this field should contain the number 1 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 areas, 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 the study areas, this field should contain a code indicating the study area where the bridge, street, or highway used to enter is located. K – Killeen-Temple; W – Waco.
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.

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

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Field Columns</u>		<u>Description</u>
					<u>Format</u>	
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.
42. More Visits	382	383	Numeric RJ		I2	Number of 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 and address of destination person is going.
45. Destination County	446	448	Numeric RJ		I3	Code indicating county/location of destination. 1 – Bell County; 2 – Copperas Cove; 3 – Fort Hood; 4 – McLennan County; 5 – Other.
46. Other County Destination	449	478	Alphanum. LJ		A30	If destination county/location is coded as "other," this field should contain the county/location name.
47. Destination Longitude	479	488	Alphanum. LJ		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 destination address. K – Killeen-Temple; W – Waco. If address is not located in these study areas, but within Texas, this field should contain the number 1 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 these study areas, 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.
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 these study areas, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. K – Killeen-Temple; W – Waco.
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.

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

Item 32. 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

Item 36. Trip Purpose Codes

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

Special Generator Intercept Survey, Airport Work Place Form B Format

This file contains the travel data for employees and visitors surveyed at Fort Hood Killeen Regional Airport using Form B, Special Generator Intercept Travel Survey. The data are in ASCII file format.

<u>Item</u>	Field Columns				<u>Description</u>
	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	
1. Record Type	1	3	Alphanum. LJ	A3	Code which indicates the type of record. Here it should be SKA.
2. Year	4	7	Numeric RJ	I4	Year work place was surveyed.
3. Month	8	9	Numeric RJ	I2	Month work place was surveyed.
4. Day	10	11	Numeric RJ	I2	Day of the month 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 done.
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.
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 airport 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. K-Killeen-Temple; W – Waco. 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 home address. K – Killeen-Temple; W – Waco. If address is not located in these study areas but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank.

Intercept Survey, Airport Work Place Survey, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns <u>Format</u>	<u>Description</u>
22. Zone	276	280	Numeric RJ	I5	Zone number where person lives. Locations in Mexico should be coded 7777. Locations outside the study areas 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 Location Code	363	365	Numeric RJ	I3	Code indicating if origin is in Bell County, Fort Hood, or Copperas Cove. 1 – Yes; 2 – No.
30. Longitude	366	375	Numeric RJ	F10.0	Longitude of origin 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 airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
31. Latitude	376	385	Numeric RJ	F10.0	Latitude of origin 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 airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
32. Zone Location	386	387	Alphanum. LJ	A2	Code indicating location of address. K – Killeen-Temple; W – Waco. If address not located within these study areas, but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank.
33. Origin Zone	388	392	Numeric RJ	I5	Zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study areas, 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 the airport is located but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
34. Entry Facility	393	422	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.
35. Entry Study Area	423	424	Alphanum. LJ	A2	If origin is outside both study areas, this field should contain a code indicating the study area where the bridge, street, or highway used to enter is located. K – Killeen-Temple; W – Waco.
36. Entry External Zone	425	429	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.

Intercept Survey, Airport Work Place Survey Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns		<u>Description</u>
					<u>Format</u>	
37. Arrival Hour	430	432	Numeric RJ		I3	Hour person arrived at this site. This hour should be in terms of military time.
38. Arrival Minute	433	435	Numeric RJ		I3	Minute person arrived at this site.
39. Trip Purpose	436	437	Numeric RJ		I2	Code indicating purpose of trip. See code definitions below.
40. Other Purpose	438	447	Alphanum. LJ		A10	If purpose is coded as "other," this contains description of purpose given.
41. Departure Mode	448	449	Numeric RJ		I2	Code indicating mode of departure from this airport. See definitions below.
42. Departure Mode Other	450	459	Alphanum. LJ		A10	If departure mode is coded "other," this field should contain a description of the mode given.
43. Depart Destination	460	461	Numeric RJ		I2	Code indicating destination when person departs from this site; 1-Home, 2-Other.
44. Destination Location	462	521	Alphanum. LJ		A60	Location of destination person is going.
45. Destination Location Code	522	524	Numeric RJ		I3	Code indicating if destination is outside of Bell County, Fort Hood, and Copperas Cove. 1 – Yes; 2 – No.
46. Destination Longitude	525	534	Numeric RJ		F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in 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.
47. Destination Latitude	535	544	Numeric RJ		F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the airport is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
48. Zone Location	545	546	Alphanum. LJ		A2	Code indicating location of destination address. K – Killeen-Temple; W – Waco. If address is not in these study areas, but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank.
49. Destination Zone	547	551	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 areas, 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.
50. Exit Facility	552	581	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.
51. Exit Study Area	582	583	Alphanum. LJ		A2	If destination is outside the study areas, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. K – Killeen-Temple; W – Waco.
52. Exit External Zone	584	588	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.
53. Form Number	589	594	Numeric RJ		I6	Survey form number which contains raw survey data.

Intercept Survey, Airport Work Place Survey, Form B Format - Continued.

Items 23 & 41. 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

Item 39. 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 – Non-Response

Killeen-Temple Special Generator Intercept Survey, Universities and Colleges Form B Format

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

<u>Item</u>	Field Columns				<u>Description</u>
	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	
1. Record Type	1	3	Alphanum. LJ	A3	Code which indicates the type of record. Here it should be SMH, SCK, or STK.
2. Year	4	7	Numeric RJ	I4	Year work place was surveyed.
3. Month	8	9	Numeric RJ	I2	Month work place was surveyed.
4. Day	10	11	Numeric RJ	I2	Day of the month 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 work place 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.
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 outside the study area the work place 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 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. Note that airport is a valid entry.
15. Study Area	139	140	Alphanum. LJ	A2	Code indicating study area where person entered. K-Killeen-Temple; W – Waco. If person lives in study area college/university 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 study area the work place is located. If person lives in the study area the work place is located, 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 work place is located, 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 work place is located, 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. K – Killeen-Temple; W – Waco. If address is not located in these study areas but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank.

Intercept Survey, Universities and Colleges Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns <u>Format</u>	<u>Description</u>
22. Zone	228	232	Numeric RJ	I5	Zone number where person lives. Locations in Mexico should be coded 7777. Locations outside of the study areas 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 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 work place. 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. Park Location	247	249	Numeric RJ	I2	Code indicating where person parked. See definitions.
27. Other Parking	250	299	Alphanum. LJ	A50	If park location is coded as other, this field contains description of where person parked.
28. Origin Code	300	301	Numeric RJ	I2	Code indicating origin of trip; 1-Home, 2-Other.
29. Origin Location	302	361	Alphanum. LJ	A60	Location that trip originated from (i.e., name, address, etc.).
30. Origin Location Code	362	364	Numeric RJ	I3	Code indicating if the origin location is in the study area the work place is located. 1 – Yes; 2 – No.
31. Longitude	365	374	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.
32. Latitude	375	384	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.
33. Zone Location	385	386	Alphanum. LJ	A2	Code indicating location of address. K – Killeen-Temple; W – Waco. If address not located in these study areas but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank.
34. Origin Zone	387	391	Numeric RJ	I5	Zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study areas, 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 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	392	421	Alphanum. LJ	A30	If origin 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 enter the study area the work place is located.
36. Entry Study Area	422	423	Alphanum. LJ	A2	If origin is outside of the study areas, this field should contain a code indicating where the bridge, street, or highway used to enter is located. K – Killeen-Temple; W – Waco.
37. Entry External Zone	424	428	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 the work place is located.

Intercept Survey, Universities and Colleges Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns		<u>Description</u>
					<u>Format</u>	
38. Arrival Hour	429	431	Numeric RJ		I3	Hour person arrived at this site. This hour should be in terms of military time.
39. Arrival Minute	432	434	Numeric RJ		I3	Minute person arrived at this site.
40. Trip Purpose	435	436	Numeric RJ		I2	Code indicating purpose of trip. See code definitions below.
41. Other Purpose	437	446	Alphanum. LJ		A10	If purpose is coded as "other," this contains description of purpose given.
42. Departure Mode	447	448	Numeric RJ		I2	Code indicating mode of departure from the university. See definitions below.
43. Departure Mode Other	449	458	Alphanum. LJ		A10	If departure mode is coded "other," this field should contain a description of the mode given.
44. Depart Destination	459	460	Numeric RJ		I2	Code indicating destination when person departs from the university; 1-Home, 2-Other.
45. Destination Location	461	520	Alphanum. LJ		A60	Name and address of destination person is going.
46. Destination Location Code	521	523	Numeric RJ		I3	Code indicating if destination is outside the study area the school is located. 1 – Yes; 2 – No.
47. Destination Longitude	524	533	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 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	534	543	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 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	544	545	Alphanum. LJ		A2	Code indicating location of address. K – Killeen-Temple; W – Waco. If address is not in these study areas, but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank.
50. Destination Zone	546	550	Numeric RJ		I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in the study areas, 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 study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
51. Exit Facility	551	580	Alphanum. LJ		A30	If destination is outside the study area the work place is located, this field should contain the name of the bridge, street, or highway used to exit the study area the work place is located.
52. Exit Study Area	581	582	Alphanum. LJ		A2	If destination is outside of the study areas, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. K – Killeen-Temple; W – Waco.
53. Exit External Zone	583	587	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	588	593	Numeric RJ		I6	Survey form number which contains raw survey data.

Intercept Survey, Universities and Colleges Form B Format - Continued.

Items 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 – Other
- 99 – No Response

Item 40. 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 – Non-Response

Item 26: Park Location Codes

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

Killeen-Temple Special Generator Work Place Intercept Survey, Mall and Hospital 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>	Field Columns <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 SVK or SSK, depending on the special generator being surveyed.
2. Year	4	7	Numeric RJ	I4	Year work place was surveyed
3. Month	8	9	Numeric RJ	I2	Month work place was surveyed.
4. Day	10	11	Numeric RJ	I2	Day of the month work place was surveyed.
5. Name of Generator	12	61	Alphanum. LJ	A50	Name of special generator that was surveyed.
6. Location of Interview	62	111	Alphanum. LJ	A50	Location in special generator where interviews were conducted.
7. Site Number	112	116	Numeric RJ	I5	Unique non-zero number assigned to the establishment 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.
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 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 the 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. If person stayed overnight, this field should be blank. Note that airport is a valid entry.
15. Study Area	187	188	Alphanum. LJ	A2	Code indicating study area where person entered. K – Killeen-Temple or W – Waco. If person lives in the same study area as the 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 the study area the generator is located, 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. K – Killeen-Temple; W – Waco. If address is not located in these study areas but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank (i.e., address is out of Texas).

Intercept Survey, Special Generator Survey, Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns <u>Format</u>	<u>Description</u>
22. Zone	276	280	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 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. Origin Code	281	282	Numeric RJ	I2	Code indicating origin of trip; 1-Home, 2-Other.
24. Origin Location	283	342	Alphanum. LJ	A60	Location that trip originated from (i.e., name, address, etc.).
25. Origin County	343	345	Numeric RJ	I3	Code indicating origin county/location. 1 – Bell County; 2 – Copperas Cove; 3 – Fort Hood; 4 – McLennan County; 5 – Other.
26. Other Origin County	346	375	Alphanum. LJ	A30	If county origin/location is coded as “other,” this field contains the name of the county or location.
27. Longitude	376	385	Numeric RJ	F10.0	Longitude of origin 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.
28. Latitude	386	395	Numeric RJ	F10.0	Latitude of origin 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.
29. Zone Location	396	397	Alphanum. LJ	A2	Code indicating location of address. K – Killeen-Temple; W – Waco. If address not located in a county within these study areas, but within Texas, this field should contain the number 1 indicating the zone number in the next field is for the state zone system. Otherwise, this field should be blank.
30. Origin Zone	398	402	Numeric RJ	I5	Zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of these study areas, 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 the generator is located but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
31. Entry Facility	403	432	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.
32. Entry Study Area	433	434	Alphanum. LJ	A2	If origin is outside of the study area county, this field should contain a code indicating the study area where the bridge, street, or highway used to enter is located. K – Killeen-Temple; W – Waco.
33. Entry External Zone	435	439	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.
34. Arrival Hour	440	442	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
35. Arrival Minute	443	445	Numeric RJ	I3	Minute person arrived at this site.
36. Mode	446	447	Numeric RJ	I2	Code indicating mode of travel to this location. See definitions below.
37. Other Mode	448	457	Alphanum. LJ	A10	If mode is coded “other,” this field should contain a description of the mode given.

Intercept Survey, Special Generator Survey Form B Format - Continued.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	Field Columns <u>Format</u>	<u>Description</u>
38. Number Persons	458	459	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.
39. Bus Fare	460	465	Numeric RJ	F6.2	If mode of travel was bus or rail, this is the fare paid.
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 county/location of destination. 1 – Bell County; 2 – Copperas Cove; 3 – Fort Hood; 4 – McLennan County; 5 – Other.
45. Other County Destination	543	572	Alphanum. LJ	A30	If destination county/location is coded as "other," this field should contain the county/location name.
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 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 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 address. K – Killeen-Temple; W – Waco. If address is not in a study area, but within Texas, this field should contain the number 1 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 a study area county, 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 the generator is located 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 leave the study area.
51. Exit Study Area	630	631	Alphanum. LJ	A2	If destination is outside of the both study areas, this field should contain a code indicating the study area where the bridge, street, or highway used to exit is located. K – Killeen-Temple; W – Waco.
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 enter the study area.
53. Form Number	637	642	Numeric RJ	I6	Survey form number which contains raw survey data.

Intercept Survey, Special Generator Survey Form B Format - Continued.

Item 36. 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

Item 40. Trip Purpose Codes

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