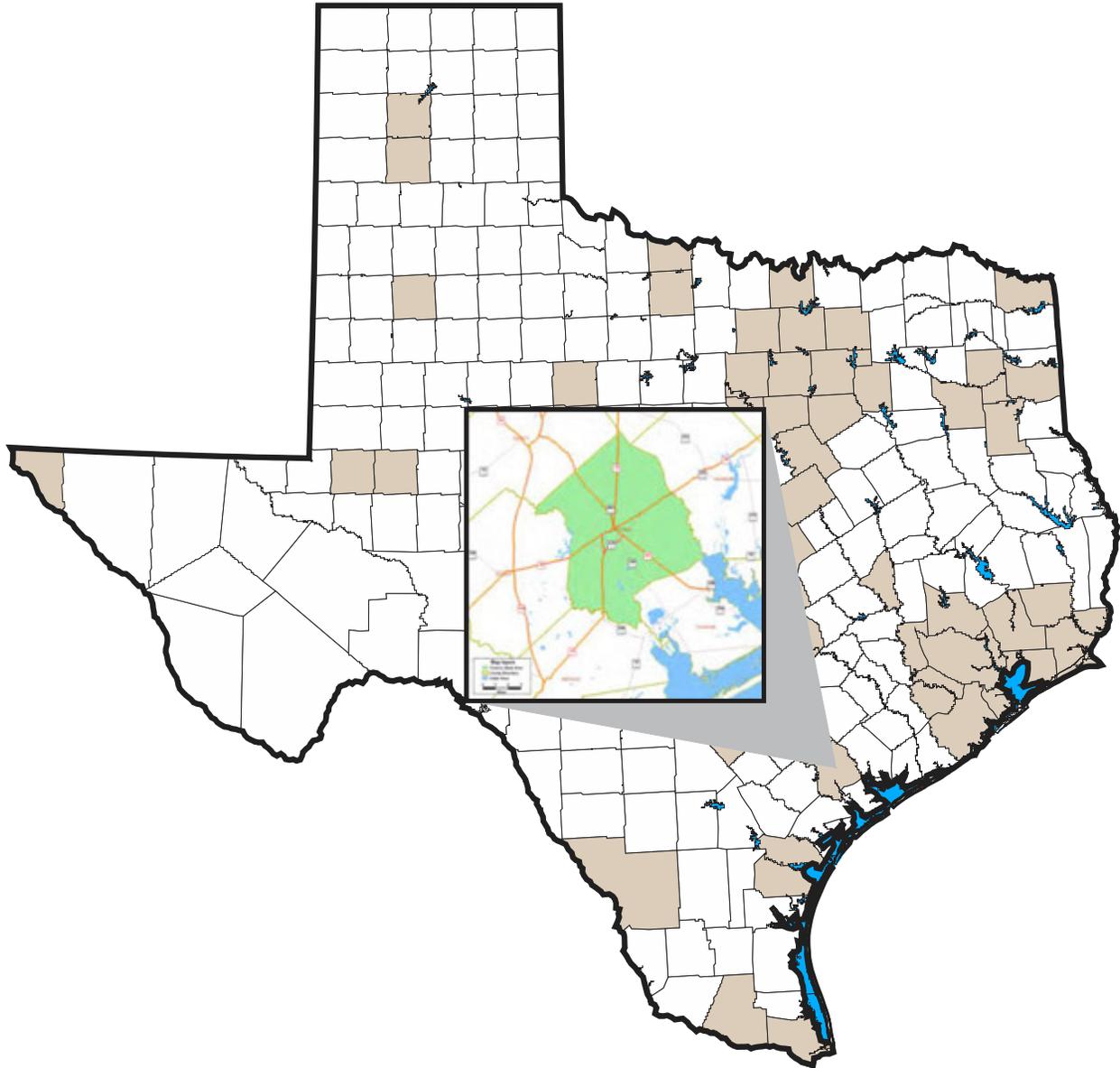


# 2011 Victoria Work Place and Special Generator Travel Survey Technical Summary



Prepared by the  
Texas A&M Transportation Institute  
October 2014



# **2011 Victoria Work Place and Special Generator Travel Survey**

## **TECHNICAL SUMMARY**

**Texas Department of Transportation Travel Survey Program**

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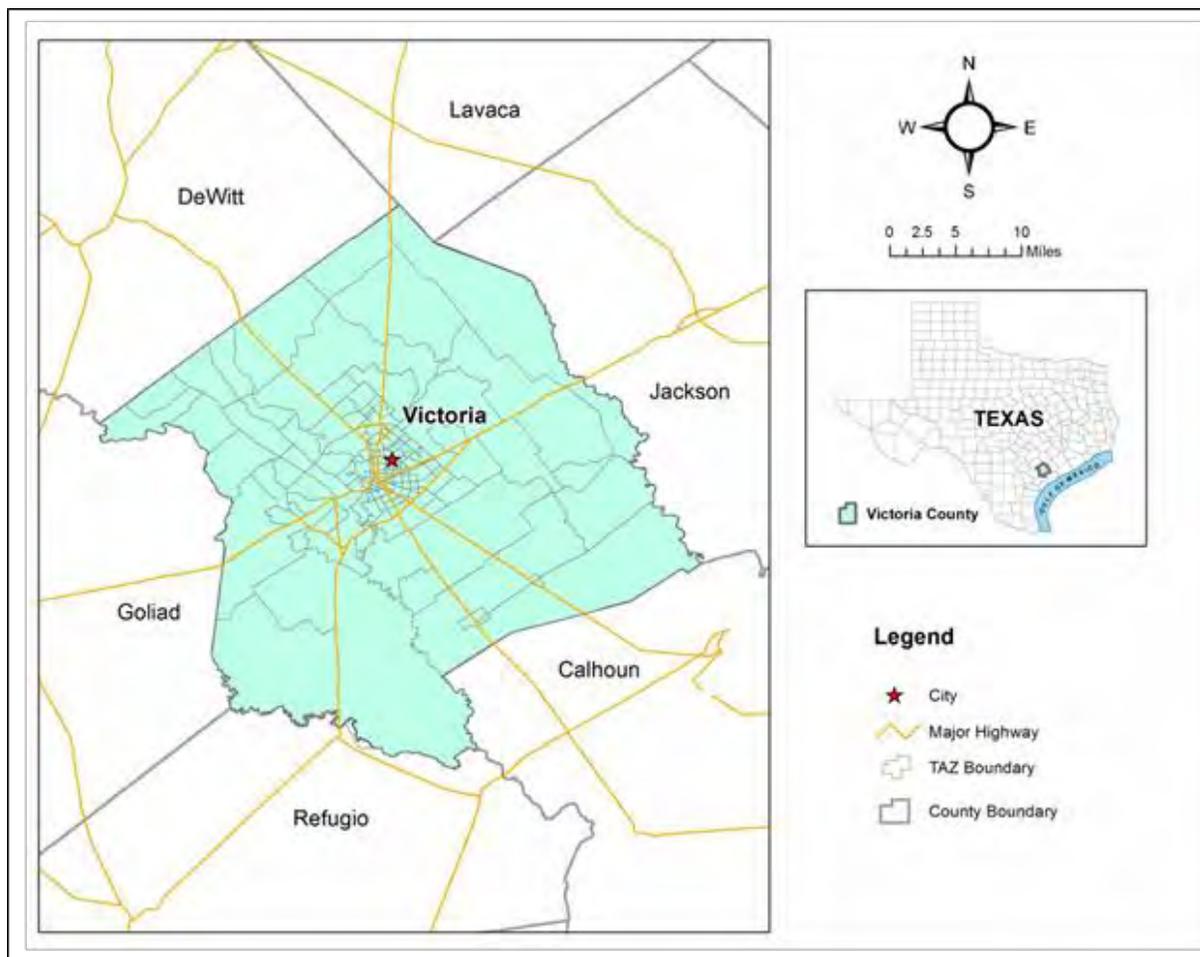
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## INTRODUCTION

In 2011, the Transportation Planning and Programming (TPP) Division of the Texas Department of Transportation (TxDOT) funded the work place and special generator travel surveys in Victoria County. 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. These data would enable TxDOT, in cooperation with the local Metropolitan Planning Organization (MPO), to develop and/or update trip attraction models to forecast travel demand within the Victoria urban area.

The Victoria MPO study area, shown in Figure 1, is located on the coastal plains of Texas, about 50 miles from the Gulf of Mexico. Based on 2010 Census, Victoria County has a total population of 86,793 and a total land area of 882.14 square miles. The City of Victoria is the urban center, which has a total population of 62,600 and a total land area of 35.48 square miles. Population density is estimated at 1,764 persons per square mile.



**Figure 1. Victoria MPO Study Area.**

## SURVEY METHODOLOGY

The Victoria work place surveys were conducted during the period between January 2011 through March 2011. TxDOT contracted with ETC Institute to conduct the surveys. The Texas A&M Transportation Institute (TTI) provided technical assistance to both TxDOT and ETC in the effort.

The Victoria work place survey consisted of the following four data collection efforts.

- Establishment Survey. This survey determined whether the work place was free standing (e.g., points of vehicle access and parking were clearly established and were designed to serve that work place only), or non-free standing (e.g., 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 in this survey.
- Intercept Interview Survey. This survey involved an intercept interview of persons as they entered and/or exited the establishments. All survey participants were randomly selected, and included both employees and non-employees.
- Person or Vehicle Count. This task involved counting all vehicles entering and exiting surveyed establishments during their normal operating hours using Accumulative Count Recorders (ACRs) in addition to video cameras. For those sites not suitable for vehicle counts, person counts were conducted using video cameras and manual counts. 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 (CV) Count. This task involved counting the number of CVs accessing the establishment (i.e., making deliveries or pick-ups or other purposes) using ACRs, video cameras, or manual counts.

The surveyed establishments were classified as either full survey sites or partial survey sites, and 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 (e.g., establishment survey) and did not include intercept interview surveys. Counts were conducted at all surveyed sites.

## SAMPLING PLAN AND RECRUITMENT

The sampling plan was developed based on the establishment data available from the Texas Workforce Commission (TWC), and the North American Industry Classification System (NAICS) code groupings 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
	22	Utilities
	23	Construction
	31-33	Manufacturing
	42	Wholesale Trade
	48-49	Transportation and Warehousing (except 491)
	5111	Newspaper Publishers/Book Publishers/Directory Publishers
	5112	Software Publishers
	512	Motion Picture and Sound Recording (except 51213)
	5151	Radio and TV Broadcasting
	5152	TW Cable
	5173	Telecommunications Resellers
	5174	Satellite Network
5175	Cable and Other Program Distribution	
Retail	44-45	Retail trade
	51213	Motion Picture Theaters
	71	Arts, Entertainment, and Recreation
	722	Accommodation (except Hotels) and Food Services
	491	Post Offices
Service	516 - 5172	Internet Publishing and Telecommunications
	5179	Other Telecommunications
	518 - 519	Internet Service Providers and News Syndicates
	52	Finance & Insurance
	53	Real Estate, Rental, and Leasing
	54	Professional, Scientific, and Technical Services
	55-56	Company Management and Administrative Support
	6114-6116	Business, Technical, Trade, and Other Schools
	6117	Educational Support Services
	62	Health Care and Social Assistance (including Hospitals)
	721	Accommodation (Hotels)
	81	Other Service, Repair, and Maintenance
	92	Public Administration (including Justice, Public Order and Safety, i.e., Police, Fire, and Courts)
9999	Unknown	
Education	6111	Elementary and Secondary Schools
	6112-6113	Jr. Colleges, Colleges, Universities & Professional Schools

Source: TxDOT, 2004.

The work place sampling plan sought to obtain 100 full surveys and 100 partial surveys. Table 2 shows the sampling targets by employment category and survey type.

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

<b>Employment Type</b>	<b>Full Survey</b>	<b>Partial Survey</b>	<b>All Surveys</b>
Basic	20	15	35
Retail	30	35	65
Service	30	35	65
Education	20	15	35
<b>Total</b>	<b>100</b>	<b>100</b>	<b>200</b>

The survey sample was drawn from a listing of establishments generated from the TWC database that consisted of 596 basic, 556 retail, 1,211 service, and 50 education establishments. Each TWC listing included the name, address, and NAICS code of the establishment, and were placed in random order for sampling. The recruitment process involved contacting the businesses from each employment type in the randomized order that they appeared on the list. Businesses were verified and tracked based on the following categories:

- Willing to Participate. The establishment is located within the study area and indicated willingness to participate as 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 shows a summary of the Victoria work place survey recruitment participation by employment type. Of the total 2,413 establishments, 1,533 were successfully contacted. A total of 501 establishments indicated a willingness to participate in the work place survey, of which 209 were selected.

**Table 3. Work Place Survey Recruitment Participation.**

<b>Employment Type</b>	<b>Recruitment Category</b>			<b>Total</b>
	<b>Willing to Participate</b>	<b>Refused</b>	<b>Refused with Data</b>	
Basic	136	215	18	369
Retail	128	263	11	402
Service	203	474	48	725
Education	34	3	0	37
<b>Total</b>	<b>501</b>	<b>955</b>	<b>77</b>	<b>1,533</b>

## SURVEY RESULTS

The Victoria work place survey covered 100 full surveys and 109 partial surveys. Table 4 provides a breakdown of these surveys by employment type and establishment type. There was a slight difference in the sampling distribution by employment type, with nine more establishments being partially surveyed.

**Table 4. Full and Partial Surveys by Employment Type and Establishment Type.**

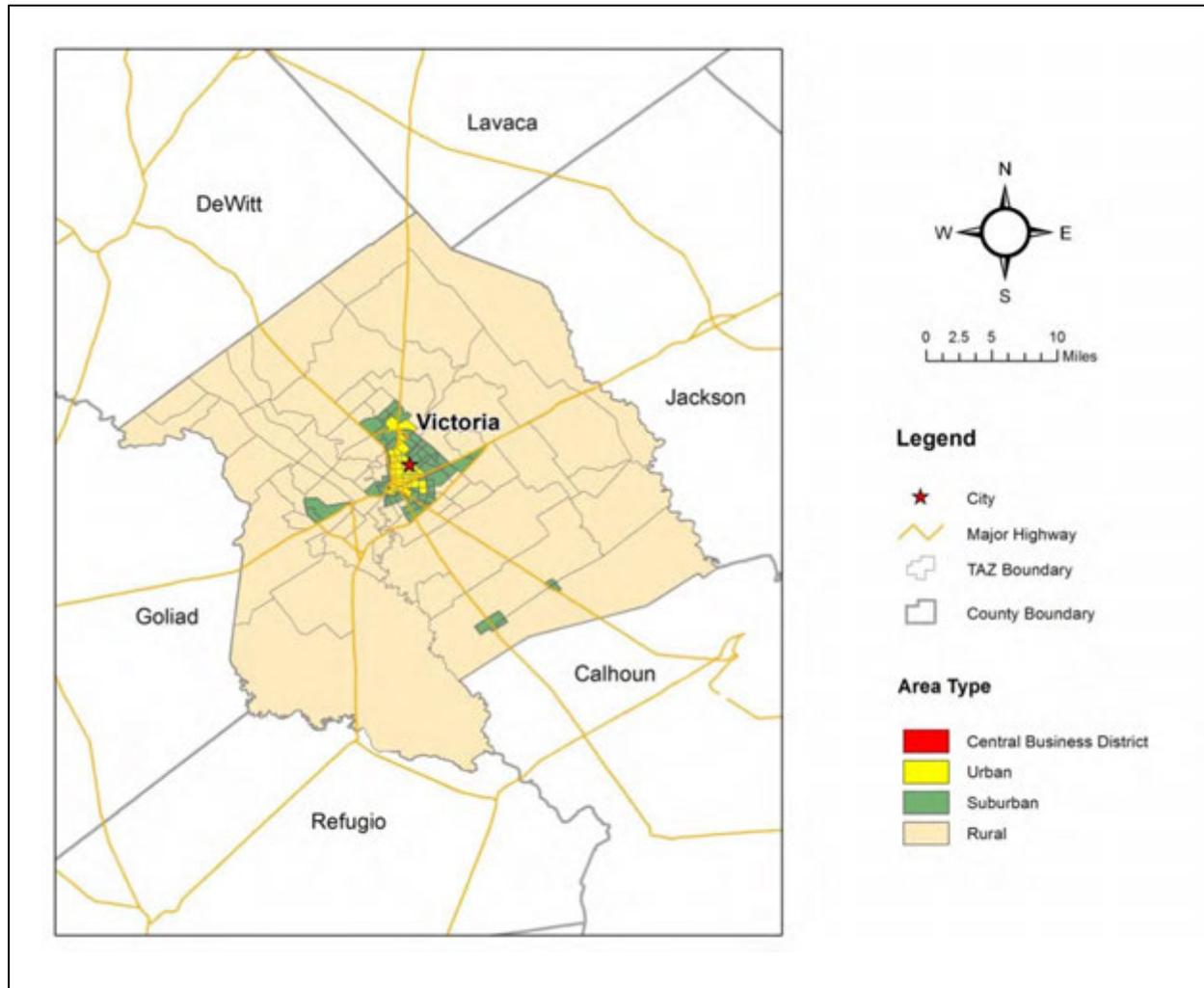
Employment Type	Full Survey			Partial Survey			All Surveys		
	FS <sup>1</sup>	NFS <sup>1</sup>	Total	FS <sup>1</sup>	NFS <sup>1</sup>	Total	FS <sup>1</sup>	NFS <sup>1</sup>	Total
Basic	15	6	21	14	2	16	29	8	37
Retail	21	10	31	21	17	38	42	27	69
Service	13	15	28	18	22	40	31	37	68
Education	19	1	20	15	0	15	34	1	35
<b>Total</b>	<b>68</b>	<b>32</b>	<b>100</b>	<b>68</b>	<b>41</b>	<b>109</b>	<b>136</b>	<b>73</b>	<b>209</b>

<sup>1</sup> FS - Free Standing, NFS – Non-Free Standing.

The full survey sites consisted of 100 establishments (68 free standing and 32 non-free standing) that reported a total employment of 2,204, approximately 7 percent of the total employment estimates for Victoria. A total of 453 employees and 302 non-employees (referred to in this report as visitors) participated in the intercept surveys. The surveyed employees represented approximately 25 percent of the total 1,812 employees reported to be at work during the travel survey day.

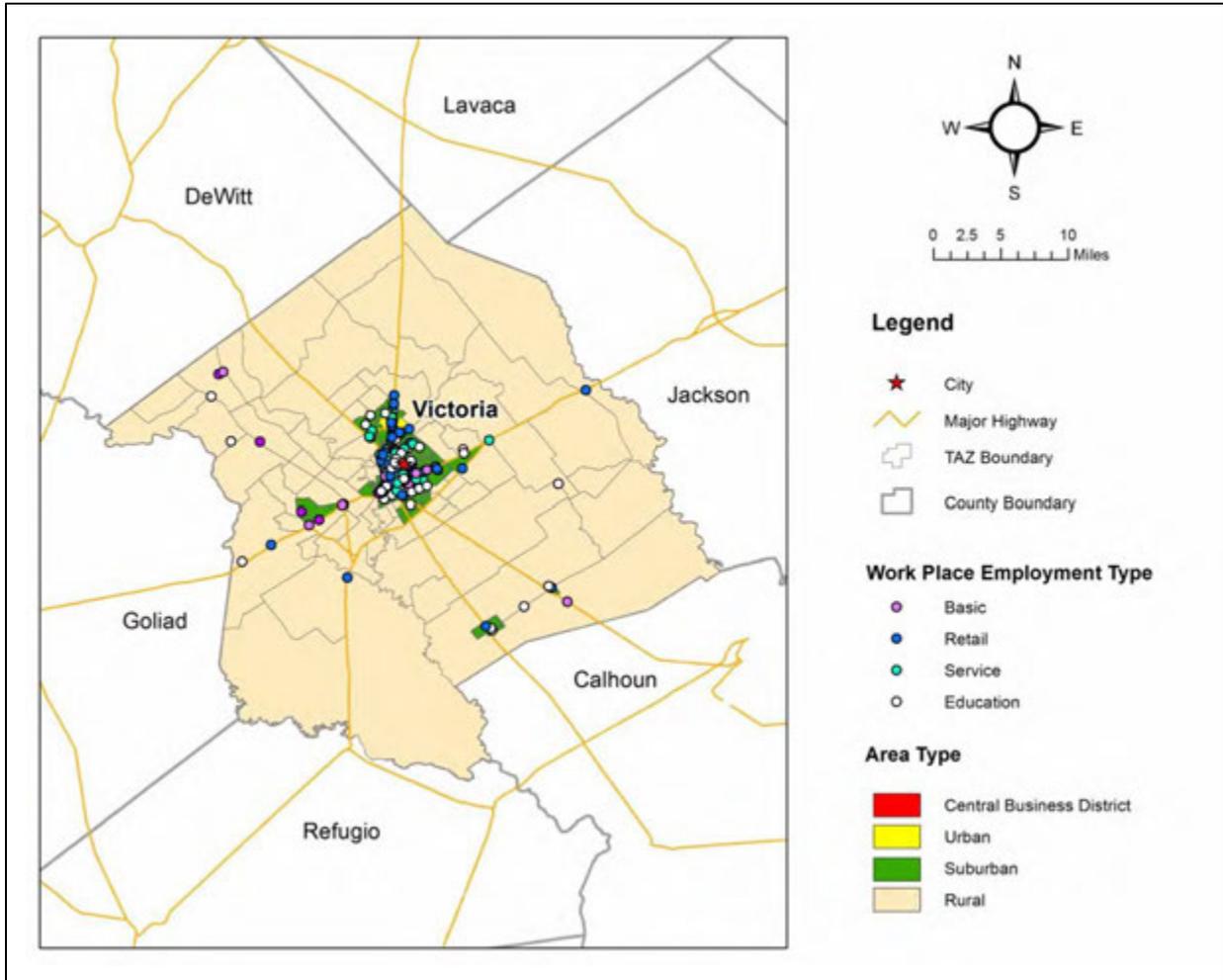
The partial survey sites consisted of 109 establishments (68 free standing and 41 non-free standing) that reported a total employment of 2,686, of which 2,108 employees were reported to be at work during the travel survey day. No intercept surveys were conducted at these sites, but general information about the establishments was collected.

The Victoria MPO boundary consisted of four area types — Central Business District (CBD), Urban, Suburban, and Rural. Area type, which is generally determined by land use activity within a Traffic Analysis Zone (TAZ), is measured based on a combination of population and employment density in the zone. Figure 2 shows the Victoria MPO boundary area types.



**Figure 2. Victoria MPO Boundary Area Types.**

Figure 3 shows the general locations of the surveyed establishments in the study area, color-coded by employment type and corresponding area type. Table 5 and Table 6 provide information on the number of sites, employee and visitor surveys, and employment data by area type for each category of employment, respectively.



**Figure 3. Victoria Work Place Survey Locations.**

**Table 5. Full Survey Data Summary.**

<b>Area Type</b>	<b>Item</b>	<b>Basic</b>	<b>Retail</b>	<b>Service</b>	<b>Education</b>	<b>Total</b>
CBD	Number of sites	-	-	-	-	-
	Employee surveys	-	-	-	-	-
	Visitor surveys	-	-	-	-	-
	CV surveys	-	-	-	-	-
	Person count	-	-	-	-	-
	Non-CV count	-	-	-	-	-
	CV count	-	-	-	-	-
	Total employment	-	-	-	-	-
	Employees at work	-	-	-	-	-
Urban	Number of sites	13	18	18	9	58
	Employee surveys	71	55	50	50	226
	Visitor surveys	29	60	42	48	179
	CV surveys	6	8	3	2	19
	Person count	424	814	942	650	2,830
	Non-CV count	874	1,176	918	4,566	7,534
	CV count	52	62	58	128	300
	Total employment	315	158	163	448	1,084
	Employees at work	208	112	138	415	873
Suburban	Number of sites	6	10	9	8	33
	Employee surveys	23	41	46	80	190
	Visitor surveys	37	26	15	30	108
	CV surveys	1	8	8	2	19
	Person count	-	667	195	-	862
	Non-CV count	504	647	888	8,544	10,583
	CV count	44	54	34	96	228
	Total employment	85	109	155	622	971
	Employees at work	58	90	102	588	838
Rural	Number of sites	2	3	1	3	9
	Employee surveys	7	5	2	23	37
	Visitor surveys	1	12	2	-	15
	CV surveys	-	1	2	2	5
	Person count	-	-	-	-	-
	Non-CV count	110	132	47	583	872
	CV count	4	74	8	51	137
	Total employment	21	25	8	95	149
	Employees at work	18	20	8	55	101
<b>Total</b>	<b>Number of sites</b>	<b>21</b>	<b>31</b>	<b>28</b>	<b>20</b>	<b>100</b>
	<b>Employee surveys</b>	<b>101</b>	<b>101</b>	<b>98</b>	<b>153</b>	<b>453</b>
	<b>Visitor surveys</b>	<b>67</b>	<b>98</b>	<b>59</b>	<b>78</b>	<b>302</b>
	<b>CV surveys</b>	<b>7</b>	<b>17</b>	<b>13</b>	<b>6</b>	<b>43*</b>
	<b>Person count</b>	<b>424</b>	<b>1,481</b>	<b>1,137</b>	<b>650</b>	<b>3,692</b>
	<b>Non-CV count</b>	<b>1,488</b>	<b>1,955</b>	<b>1,853</b>	<b>13,693</b>	<b>18,989</b>
	<b>CV count</b>	<b>100</b>	<b>190</b>	<b>100</b>	<b>275</b>	<b>665</b>
	<b>Total employment</b>	<b>421</b>	<b>292</b>	<b>326</b>	<b>1,165</b>	<b>2,204</b>
	<b>Employees at work</b>	<b>284</b>	<b>222</b>	<b>248</b>	<b>1,058</b>	<b>1,812</b>

\*Two surveys were from partially surveyed sites.

**Table 6. Partial Survey Data Summary.**

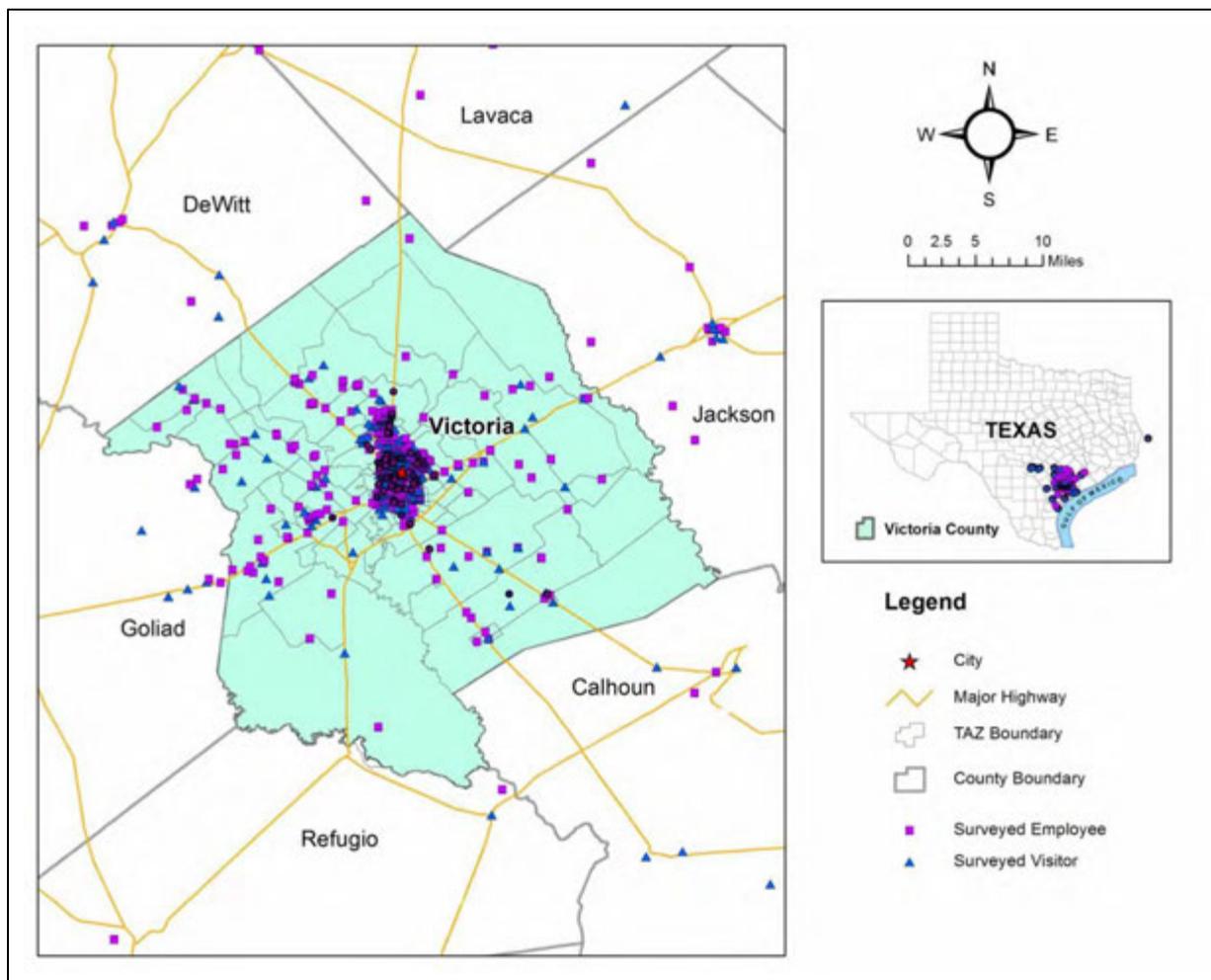
<b>Area Type</b>	<b>Item</b>	<b>Basic</b>	<b>Retail</b>	<b>Service</b>	<b>Education</b>	<b>Total</b>
CBD	Number of sites	1	-	1	-	2
	Person count	52	-	488	-	540
	Non-CV count	-	-	-	-	-
	CV count	-	-	2	-	2
	Total employment	3	-	14	-	17
	Employees at work	2	-	9	-	11
Urban	Number of sites	7	23	22	3	55
	Person count	104	8,520	1,780	-	10,404
	Non-CV count	384	10,263	518	2,464	13,629
	CV count	79	222	68	52	421
	Total employment	82	609	254	187	1,132
	Employees at work	77	350	216	183	826
Suburban	Number of sites	4	12	16	8	40
	Person count	-	9,760	911	-	10,671
	Non-CV count	1,096	5,806	677	4,939	12,518
	CV count	24	90	74	63	251
	Total employment	142	455	201	493	1,291
	Employees at work	138	285	161	483	1,067
Rural	Number of sites	4	3	1	4	12
	Person count	-	-	-	-	-
	Non-CV count	122	786	37	1,403	2,348
	CV count	18	213	4	32	267
	Total employment	41	30	20	155	246
	Employees at work	39	23	19	123	204
<b>Total</b>	<b>Number of sites</b>	<b>16</b>	<b>38</b>	<b>40</b>	<b>15</b>	<b>109</b>
	<b>Person count</b>	<b>156</b>	<b>18,280</b>	<b>3,179</b>	<b>-</b>	<b>21,615</b>
	<b>Non-CV count</b>	<b>1,602</b>	<b>16,855</b>	<b>1,232</b>	<b>8,806</b>	<b>28,495</b>
	<b>CV count</b>	<b>121</b>	<b>525</b>	<b>148</b>	<b>147</b>	<b>941</b>
	<b>Total employment</b>	<b>268</b>	<b>1,094</b>	<b>489</b>	<b>835</b>	<b>2,686</b>
	<b>Employees at work</b>	<b>256</b>	<b>658</b>	<b>405</b>	<b>789</b>	<b>2,108</b>

## 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*

A total of 755 respondents (453 employees and 302 visitors) were surveyed at the establishment, out of which 90 percent were residents of Victoria. The remaining 10 percent were non-residents and close to 4 percent were residents in the nearby counties of Jackson, Goliad, DeWitt, Refugio, Lavaca, and Calhoun. Figure 4 displays the geocoded residency locations of the surveyed employees and visitors within and outside the Victoria study area.



**Figure 4. Victoria Work Place Survey Residence Locations.**

### *Trip Purpose*

Table 7 summarizes the trip purposes of surveyed resident and non-residents at the establishments.

**Table 7. Survey Trip Purposes.**

Trip Purpose	Resident		Non-Resident		Total		Grand Total
	Employee	Visitor	Employee	Visitor	Employee	Visitor	
Return Home	2	0	1	1	3	1	4
Work Related	412	36	31	13	443	49	492
School Related	2	43	0	5	2	48	50
Social/Recreational/Visit	0	20	0	2	0	22	22
Shop	0	22	0	1	0	23	23
Eat Out	0	5	0	2	0	7	7
Personal Business	2	77	0	10	2	87	89
Pick-Up/Drop-Off Passenger	1	37	0	1	1	38	39
Change Travel Mode	0	0	0	0	0	0	0
Delivery – Pick-Up/Drop-Off	2	8	0	2	2	10	12
Other	0	11	0	6	0	17	17
<b>Total</b>	<b>421</b>	<b>259</b>	<b>32</b>	<b>43</b>	<b>453</b>	<b>302</b>	<b>755</b>

In the analysis, the surveyed trip purposes were classified according to the following trip categories and were distinguished between those made by residents and non-residents of the Victoria study area.

- 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 origin (EXT-O) – when the origin was outside the study area.
- 6) External trip destination (EXT-D) – when the destination was outside the study area when leaving the establishment.
- 7) Non-resident (NON-RES) – when the person making the trip to and from the establishment lived outside the study area and the origin or destination of the trip was inside the study area.

In the same manner as the resident trips, non-resident trips were also classified based on the previously mentioned trip purpose categories (1 through 6). Table 8 shows the breakdown of these trips. However, in the analysis and expansion of survey non-resident trip data, such trips are presented as one trip purpose category (NON-RES). Table 9 shows the distribution of survey trip purposes by area type and employment type. Four trips that were reported as “not the first store visited” at non-free standing establishments were not counted and dropped from the analysis

**Table 8. Survey Trips by Purpose.**

Trip Purpose	Resident			Non-Resident			All Trips		
	Employee	Visitor	Total	Employee	Visitor	Total	Employee	Visitor	Total
HBW	608	26	634	0	0	0	608	26	634
HBNW	14	297	311	0	0	0	14	297	311
NHB-D	75	74	149	4	8	12	79	82	161
NHB -O	136	102	238	8	20	28	144	122	266
EXT-O	3	6	9	28	35	63	31	41	72
EXT-D	6	9	15	24	23	47	30	32	62
<b>Total</b>	<b>842</b>	<b>514</b>	<b>1,356</b>	<b>64</b>	<b>86</b>	<b>150</b>	<b>906</b>	<b>600</b>	<b>1,506</b>

**Table 9. Survey Trips by Purpose, Area Type and Employment Type.**

Area Type	Employment Type	Trip Purpose							Total
		HBW	HBNW	NHB-D	NHB-O	EXT-O	EXT-D	NON-RES	
CBD	Basic	-	-	-	-	-	-	-	-
	Retail	-	-	-	-	-	-	-	-
	Service	-	-	-	-	-	-	-	-
	Education	-	-	-	-	-	-	-	-
Urban	Basic	103	11	14	19	1	1	16	165
	Retail	26	16	3	7	0	0	4	56
	Service	26	14	3	16	0	0	6	65
	Education	23	8	4	7	0	0	6	48
Suburban	Basic	47	16	26	28	4	9	24	154
	Retail	110	75	30	41	1	1	50	308
	Service	104	58	17	40	2	3	14	238
	Education	140	103	48	66	0	1	10	368
Rural	Basic	13	0	0	1	0	0	2	16
	Retail	11	8	1	0	0	0	14	34
	Service	1	2	0	3	0	0	2	8
	Education	30	0	3	10	1	0	2	46
<b>Total Trips</b>		<b>634</b>	<b>311</b>	<b>149</b>	<b>238</b>	<b>9</b>	<b>15</b>	<b>150</b>	<b>1,506</b>

### *Mode of Travel and Vehicle Occupancy*

Table 10 shows the mode of travel used by the survey participants to the work place. Approximately 89 percent of the trips to the work places were made by drivers of cars, trucks, or vans, and close to 10 percent were passengers of a vehicle. Trips by “other” modes were classified as company trucks. The average occupancy was estimated at 1.4 persons per vehicle.

**Table 10. Survey Mode of Travel to the Work Place.**

Mode	Resident		Non-Resident		All Surveys		
	Employee	Visitor	Employee	Visitor	Total	Percent of Total	Average Vehicle Occupancy
Driver (car/truck/van)	368	238	29	34	669	88.61	1.36
Passenger (car/truck/van)	45	17	2	8	72	9.54	2.08
Walk	3	1	0	0	4	0.53	-
Bicycle	0	1	0	0	1	0.13	-
Transit Bus	0	1	0	0	1	0.13	-
School Bus	0	0	0	0	0	0.00	-
Taxi/Limo	0	0	0	0	0	0.00	-
Commercial Cargo Transport Vehicle	0	0	0	1	1	0.13	1.00
Commercial Service Vehicle	2	0	1	0	3	0.40	1.00
Motorcycle	0	0	0	0	0	0.00	-
Other	3	1	0	0	4	0.53	1.25
<b>Total</b>	<b>421</b>	<b>259</b>	<b>32</b>	<b>43</b>	<b>755</b>	<b>100.00</b>	<b>1.43</b>

### *Trip Length*

Each trip in the survey, based on its reported origin location and destination location, was geocoded either to a TAZ system for the Victoria study area, or to the statewide TAZ system when the location was outside the study area (but within the state of Texas). It was found that the zones reported in the survey were based on an older TAZ version. Hence, zones had to be re-tagged to the current TAZ version during actual data processing analysis.

After the trips were geocoded, the travel distance and travel time for each trip to the surveyed work place were estimated using the transportation network available for the Victoria study area that provides the zone-to-zone trip lengths and travel times based on network speeds. The Victoria network matrix only provides distances and travel time between zones (inter-zonal) and not within zones (intra-zonal).

The analyses of trip length and travel time to and from the surveyed work place pertain only to inter-zonal trips by person and auto-driver mode of travel. Person trips included all travel modes, including walking and bicycle trips. Auto-driver trips pertain to trips made by drivers of cars, trucks, and or vans, including commercial cargo and service vehicles.

Table 11 and Table 12 show the survey inter-zonal trip lengths and travel times to and from the work place within the Victoria study area by trip purpose, respectively. HBW trips had an average travel distance of approximately 5.6 miles per person trip and 5.4 miles per auto-driver trip, with average travel time close to 9 minutes per trip. For HBNW trips, the average trip length was approximately 3.7 miles per trip, and the average travel time was approximately 6.2 minutes per trip. The estimates for NHB trips reflected the average of NHB-D and NHB-O trips, which showed an average trip length of 3.1 miles per trip, while the average travel time was approximately 5.3 minutes per trip. NON-RES trips had an average trip length of approximately 3.9 miles per person trip and 4.4 miles per auto-driver trip, while the average travel time was 6.4 minutes per person trip and 7.2 minutes per auto-driver trip.

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

<b>Trip Purpose</b>	<b>Total Person Trips</b>	<b>Total Person Miles</b>	<b>Average Person Miles</b>	<b>Total Auto-Driver Trips</b>	<b>Total Auto-Driver Miles</b>	<b>Average Auto-Driver Miles</b>
HBW	762	4265.09	5.60	539	2886.43	5.36
HBNW	452	1654.81	3.66	265	995.46	3.76
NHB	295	920.69	3.12	172	540.87	3.14
NON-RES	35.5	137.58	3.88	18	79.75	4.43
<b>Total</b>	<b>1544.5</b>	<b>6978.17</b>	<b>4.52</b>	<b>994</b>	<b>4,502.51</b>	<b>4.51</b>

**Table 12. Survey Inter-Zonal Trip Travel Times to and from the Work Place.**

<b>Trip Purpose</b>	<b>Total Person Trips</b>	<b>Total Person Minutes</b>	<b>Average Person Minutes</b>	<b>Total Auto-Driver Trips</b>	<b>Total Auto-Driver Minutes</b>	<b>Average Auto-Driver Minutes</b>
HBW	762	6,832.43	8.97	539	4660.67	8.65
HBNW	452	2,777.75	6.15	265	1664.29	6.28
NHB	295	1,575.70	5.34	172	921.30	5.36
NON-RES	35.5	227.93	6.42	18	129.65	7.20
<b>Total</b>	<b>1,544.5</b>	<b>11,413.81</b>	<b>7.39</b>	<b>994</b>	<b>7,375.91</b>	<b>7.42</b>

Table 13 and Table 14 provide the survey trip length frequency distributions (TLFDs) and travel times by trip purpose for all survey person and auto-driver trips.

**Table 13. Survey Person and Auto-Driver Trip TLFDs.**

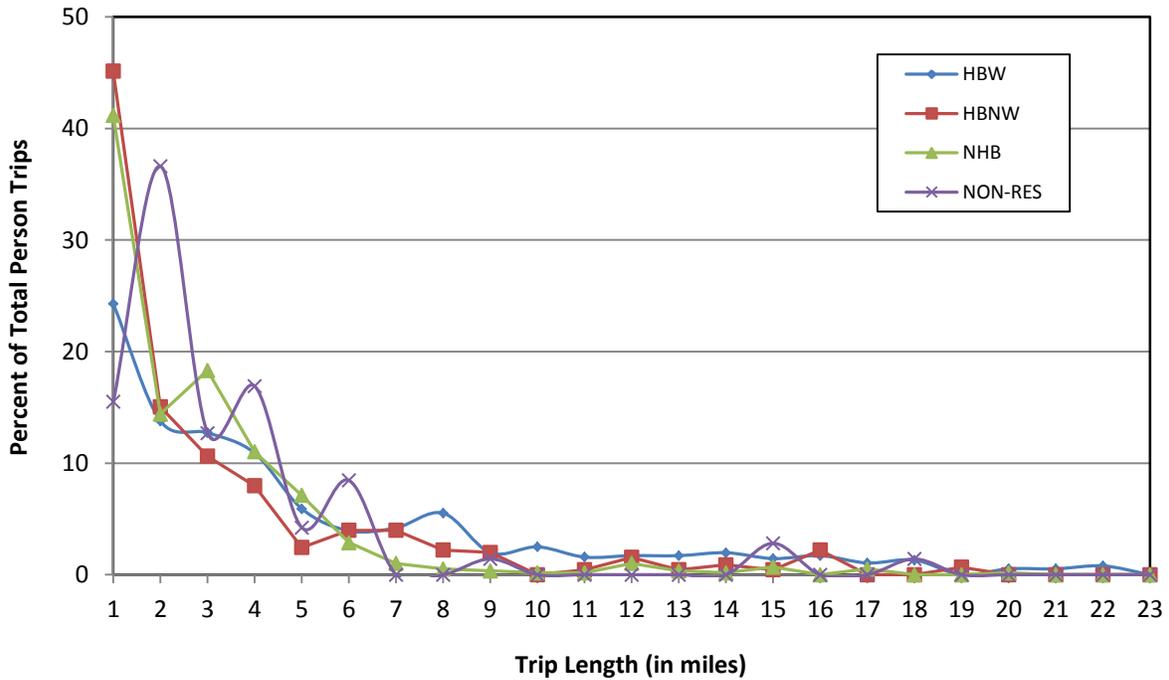
Miles	Person Trips				Auto-Driver Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	185	204	121.5	5.5	131	120	72.5	3.5
2	105	68	42.5	13	80	36	28	5
3	97	48	54	4.5	77	33	27	3
4	83	36	32.5	6	59	17	17	3
5	45	11	21	1.5	34	7	11.5	0.5
6	30	18	8.5	3	22	8	5.5	1
7	32	18	3	0	18	13	2	0
8	42	10	1.5	0	23	5	1.5	0
9	15	9	1	0.5	13	5	1	0.5
10	19	0	0.5	0	15	0	0.5	0
11	12	2	0.5	0	8	2	0.5	0
12	13	7	3	0	5	6	2	0
13	13	2	1	0	6	2	0	0
14	15	4	0.5	0	9	2	0.5	0
15	11	2	2	1	8	2	1	1
16	13	10	0	0	10	4	0	0
17	8	0	1.5	0	7	0	1	0
18	10	0	0	0.5	6	0	0	0.5
19	0	3	0	0	0	3	0	0
20	4	0	0.5	0	3	0	0.5	0
21	4	0	0	0	3	0	0	0
22	6	0	0	0	2	0	0	0
23	0	0	0	0	0	0	0	0
<b>Total</b>	<b>762</b>	<b>452</b>	<b>295.0</b>	<b>35.5</b>	<b>539</b>	<b>265</b>	<b>172.0</b>	<b>18.0</b>

**Table 14. Survey Person and Auto-Driver Trip Travel Times.**

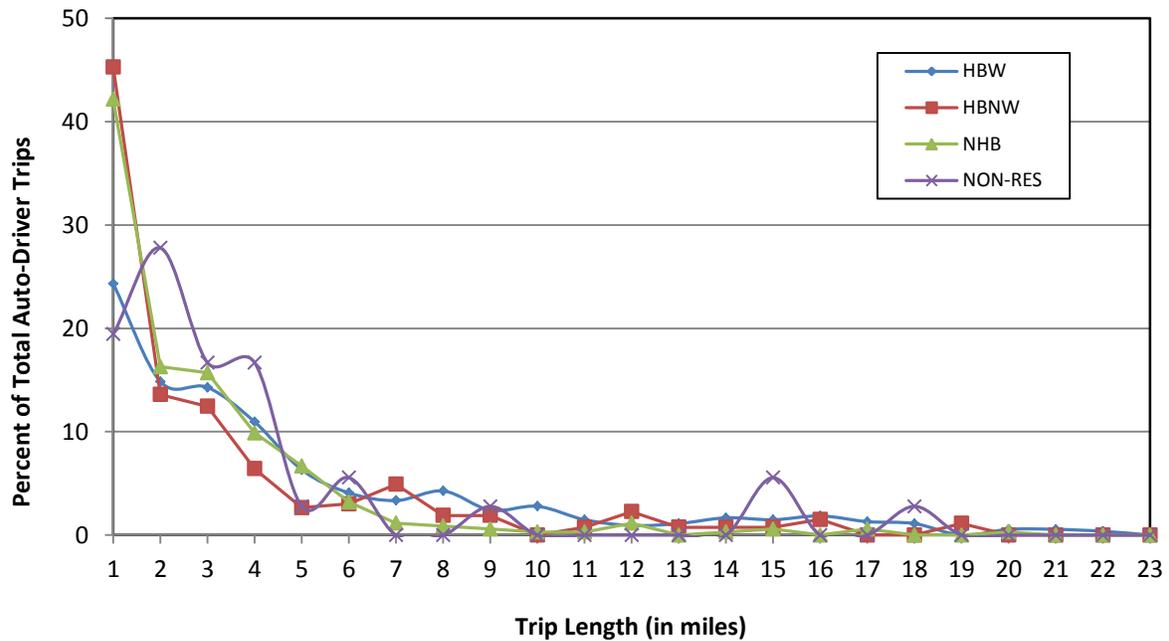
Minutes	Person Trips				Auto-Driver Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	64	79	43	1	44	45	25.5	1
2	79	63	44.5	1	54	42	29	0
3	51	64	44	10	42	38	25.5	4
4	75	45	31.5	6.5	56	23	20	4
5	83	44	36	4.5	57	23	17.5	3
6	49	29	23	3	44	19	12.5	1
7	50	38	21.5	3	34	18	13.5	2
8	42	2	20	1.5	33	2	7.5	1
9	25	7	8	0	21	5	5	0
10	14	11	6.5	3	14	5	3.5	1
11	31	13	2.5	0	12	9	2.5	0
12	30	11	3	0	14	5	2	0
13	16	6	0.5	0	13	5	0.5	0
14	19	3	2	0	13	3	2	0
15	15	5	0	0.5	10	1	0	1
16	4	0	0	0	4	0	0	0
17	6	4	2	0	4	2	1.5	0
18	11	3	2.5	0	6	3	1	0
19	12	3	0	0	7	3	0	0
20	16	2	0.5	0	12	2	0.5	0
21	15	8	2	0	11	4	1	0
22	14	3	0	0.5	5	3	0	1
23	3	0	0	0.5	3	0	0	1
24	7	6	0	0	5	2	0	0
25	9	1	1.5	0	9	1	1	0
26	5	0	0	0.5	2	0	0	1
27	1	0	0	0	0	0	0	0
28	3	1	0	0	2	1	0	0
29	4	1	0	0	3	1	0	0
30	9	0	0.5	0	5	0	0.5	0
<b>Total</b>	<b>762</b>	<b>452</b>	<b>295.0</b>	<b>35.5</b>	<b>539</b>	<b>265</b>	<b>172</b>	<b>21</b>

Figure 5 (a and b) shows the trip lengths in percentage values of total person and auto-driver trips by trip purpose, respectively.

**(a) Person Trips**



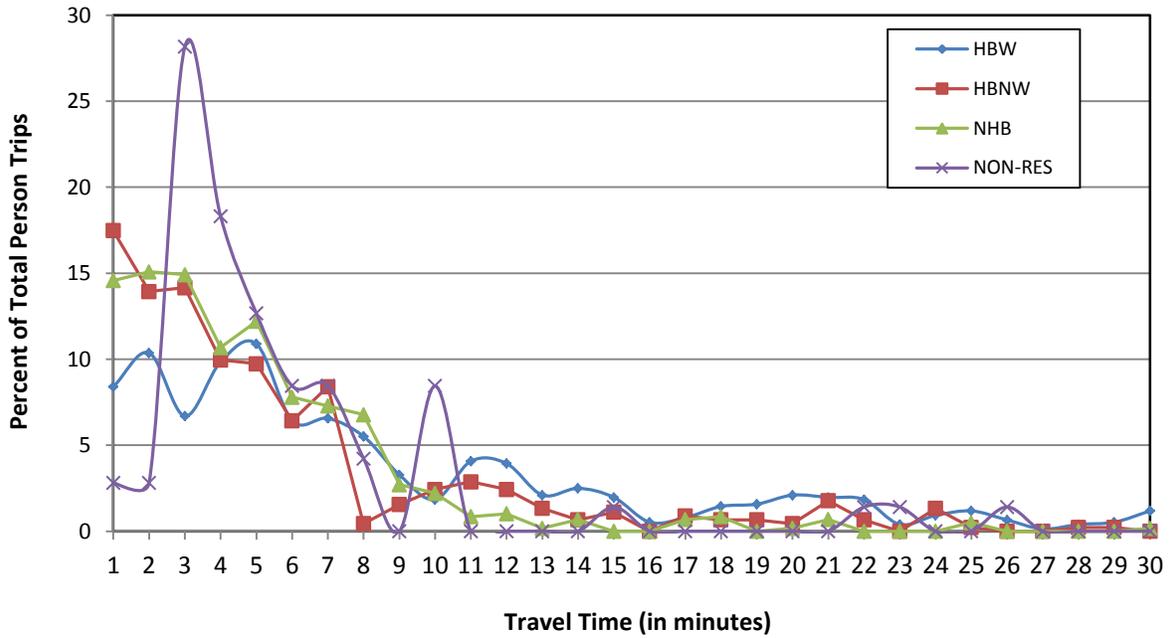
**(b) Auto-Driver Trips**



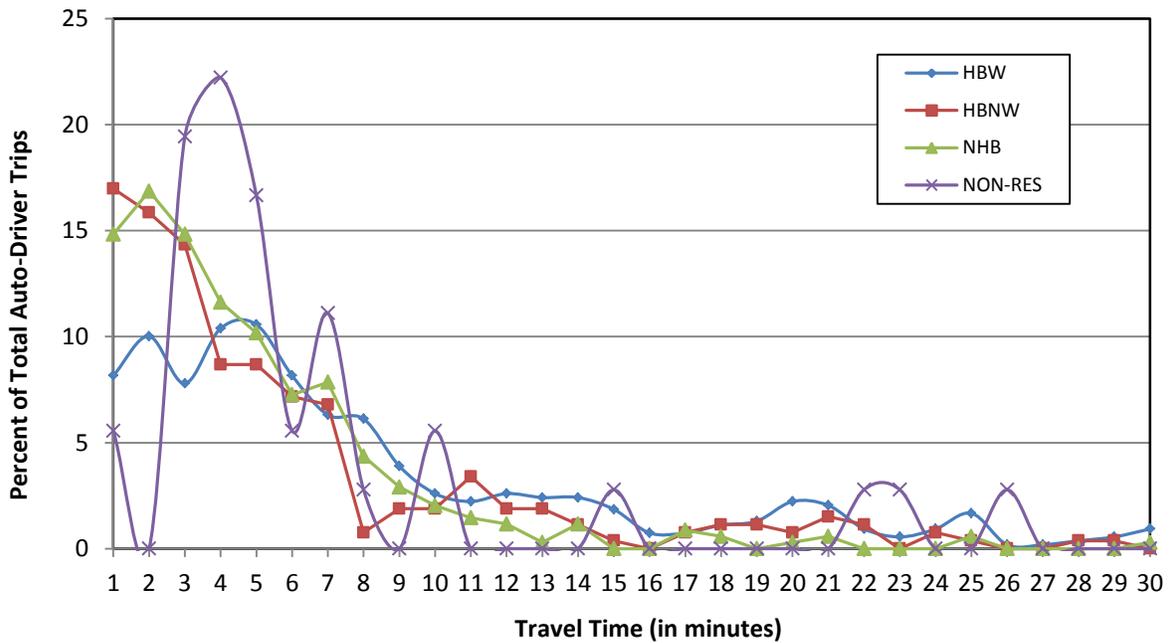
**Figure 5. TLFDs of Person and Auto-Driver Trips to and from the Work Place.**

Figure 6 (a and b) shows the travel times in percentage values of total person and auto-driver trips by trip purpose, respectively.

**(a) Person Trips**



**(b) Auto-Driver Trips**



**Figure 6. Travel Times of Person and Auto-Driver Trips to and from the Work Place.**

## COMMERCIAL VEHICLE COUNTS

The CV counts involved counting the number of cargo and service vehicles traveling to and from 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 24-hour period beginning at 6:00 a.m. and ending at 6:00 a.m. on the following day of the survey. A total of 1,606 CVs were counted at the surveyed establishments. Based on the total CV counts, approximately 45 percent were at retail, 26 percent were at education, 15 percent were at service, and 14 percent were at basic establishments.

Figure 7 shows the distribution of CV counts by employment type while Table 15 shows the distribution by area and employment types for the Victoria study area.

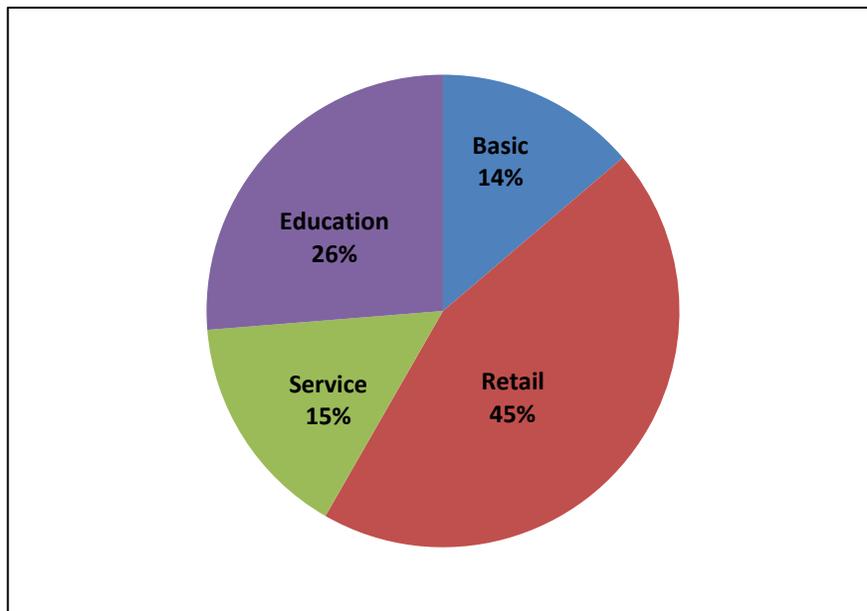


Figure 7. CV Counts by Employment Type.

Table 15. CV Counts by Area Type and Employment Type.

Area Type	Basic	Retail	Service	Education	Total
CBD	-	-	2	-	2
Urban	131	284	126	180	721
Suburban	68	144	108	159	479
Rural	22	287	12	83	404
<b>Total</b>	<b>221</b>	<b>715</b>	<b>248</b>	<b>422</b>	<b>1,606</b>

## COMMERCIAL VEHICLE SURVEYS

CV intercept interviews were conducted as part of Victoria work place survey. A total of 43 drivers of CVs making deliveries or pick-ups agreed to participate in the CV survey. The CVs were distinguished based on nine classification types listed in Table 16, and were categorized either as cargo transport or service vehicle types. The CV analysis included the trip purpose, the type of place where the trips occurred, and the type and average weight of cargo being transported at pick-up and drop-off locations.

Table 16 shows the vehicle classification types of the surveyed CVs for each category of employment. Approximately 65 percent of the total were cargo transport vehicles and 35 percent were service vehicles. Approximately 28 percent were classified as single-unit 2-axle (6-wheels), 19 percent were passenger cars, 16 percent were cargo or mini vans, and 14 percent were pick-up trucks. The “other” vehicles were reported to be FedEx and mail trucks.

**Table 16. Survey CV Classification Types.**

Vehicle Classification	Basic	Retail	Service	Education	Total	Percent of Total
Passenger Car	3	3	1	1	8	18.60
Pick-Up Truck	1	3	2	0	6	13.94
Van (cargo or mini)	3	1	3	0	7	16.28
Sport Utility Vehicle	0	1	1	0	2	4.65
Single Unit 2-axle (6-wheels)	0	6	3	3	12	27.91
Single Unit 3-axle (10-wheels)	0	0	0	1	1	2.33
Single Unit 4-axle (14-wheels)	0	0	1	0	1	2.33
Semi (all tractor-trailer combination)	0	1	0	0	1	2.33
Other	0	2	2	1	5	11.63
<b>Total</b>	<b>7</b>	<b>17</b>	<b>13</b>	<b>6</b>	<b>43</b>	<b>100.00</b>
<b>Percent of Total</b>	<b>16.28</b>	<b>39.54</b>	<b>30.24</b>	<b>13.95</b>	<b>100.00</b>	
Cargo Transport Vehicle Type	3	13	8	4	28	65.12
Service Vehicle Type	4	4	5	2	15	34.88

Table 17 and Table 18 show the trip purposes and types of place at the origin and destination of all surveyed CVs, respectively.

**Table 17. Survey CV Travel Purposes at Trip Origins and Destinations.**

Trip Purpose	Cargo Vehicle		Service Vehicle		Percent of Total	
	Origin	Destination	Origin	Destination	Origin	Destination
Depart/Return to Base Location	0	3	0	1	0.00	9.30
Delivery	18	12	9	7	62.79	44.19
Pick-Up	1	0	1	1	4.65	2.33
Delivery and Pick-Up	8	13	4	4	27.90	39.53
Maintenance	0	0	1	0	2.33	0.00
Driver Needs (lunch, etc.)	1	0	0	0	2.33	0.00
To Home	0	0	0	0	0.00	0.00
Buy Gas/Fuel	0	0	0	0	0.00	0.00
Other	0	0	0	0	0.00	0.00
Refused/Unknown	0	0	0	2	0.00	4.65
<b>Total</b>	<b>28</b>	<b>28</b>	<b>15</b>	<b>15</b>	<b>100.00</b>	<b>100.00</b>

**Table 18. Survey CV Types of Place at Trip Origins and Destinations.**

Type of Place	Cargo Vehicle		Service Vehicle		Percent of Total	
	Origin	Destination	Origin	Destination	Origin	Destination
Office Building	5	8	0	3	11.63	25.57
Retail/Shopping	4	5	4	4	18.61	20.93
Industrial/Manufacturing	7	4	2	0	20.93	9.30
Medical/Hospital	2	1	1	0	6.97	2.33
Educational (12th grade or less)	2	0	0	1	4.65	2.33
Educational (College, Trade, etc.)	0	2	0	0	0.00	4.65
Residential	1	2	3	4	9.30	13.95
Warehouse	1	2	0	1	2.33	6.98
Distribution Center	3	2	0	1	6.97	6.98
Other	3	1	4	0	16.28	2.33
Refused/Unknown	0	1	1	1	2.33	4.65
<b>Total</b>	<b>28</b>	<b>28</b>	<b>15</b>	<b>15</b>	<b>100.00</b>	<b>100.00</b>

Table 19 and Table 20 show the types of commodities being transported at the work place by the surveyed CVs.

**Table 19. Survey Cargo Deliveries.**

Cargo Type	Cargo Vehicle		Service Vehicle	
	Number of Deliveries	Average Weight (in lbs.)	Number of Deliveries	Average Weight (in lbs.)
Food, Health, and Beauty Products	5	61	1	35
Textiles	3	32	0	-
Manufactured Goods/Equipment	3	10,790	0	-
Miscellaneous Shipments	10	4	9	3
Unclassified Cargo	2	1	0	-
Driver Refused to Answer	2	20	1	-
Unknown to Driver	1	-	0	-
No Cargo Delivery/Pick-Up	2	-	4	-
<b>Total</b>	<b>28</b>	<b>1,489</b>	<b>15</b>	<b>6</b>

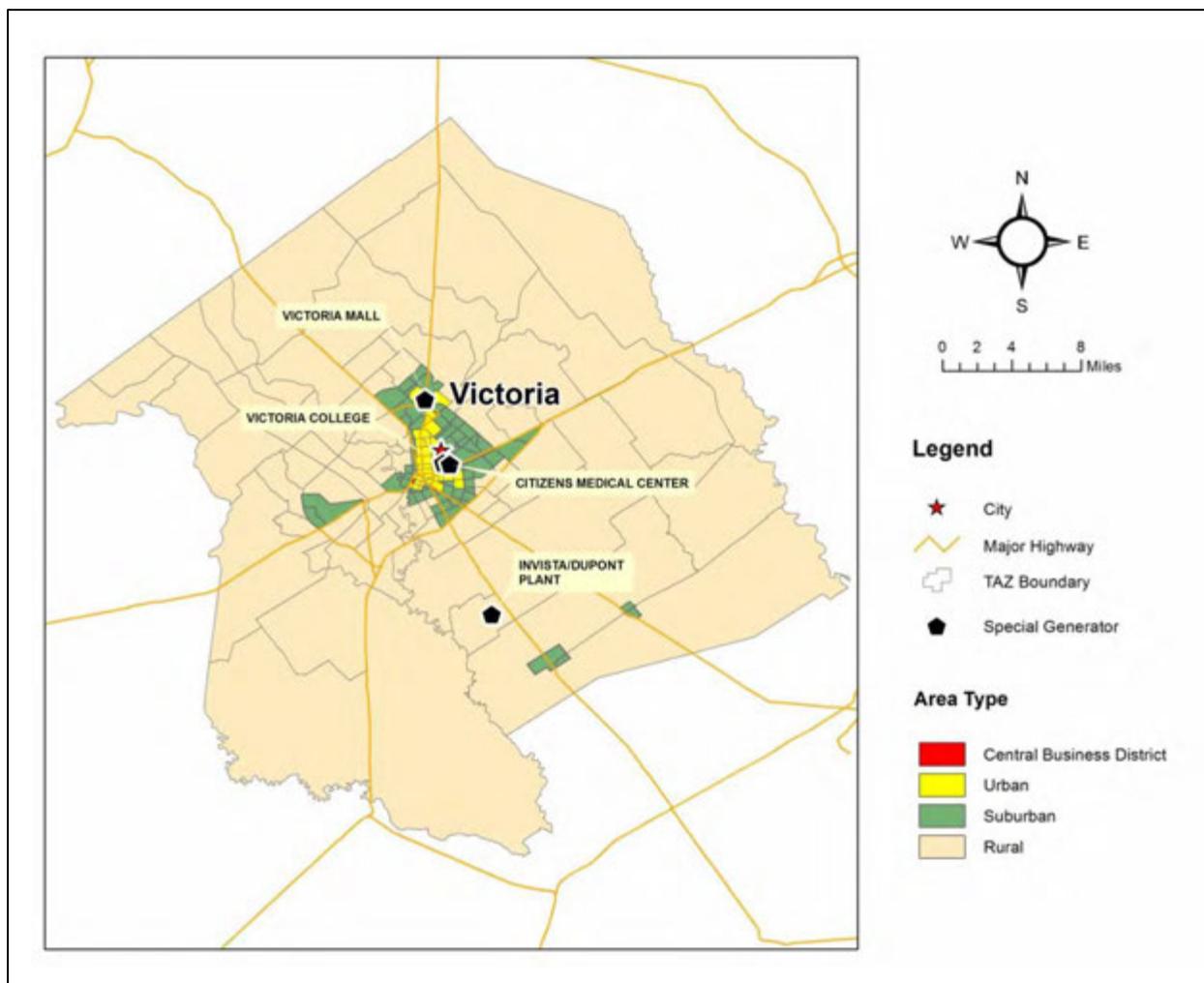
**Table 20. Survey Cargo Pick-Up.**

Cargo Type	Cargo Vehicle		Service Vehicle	
	Number of Pick Up	Average Weight (in lbs.)	Number of Pick Up	Average Weight (in lbs.)
Food, Health, and Beauty Products	0	-	0	-
Textiles	3	28	0	-
Manufactured Goods/Equipment	1	112	1	22
Miscellaneous Shipments	3	1	3	1
Unclassified Cargo	1	1	0	-
Driver Refused to Answer	2	3	1	-
Unknown to Driver	0	-	0	-
No Cargo Delivery/Pick-Up	18	-	10	-
<b>Total</b>	<b>28</b>	<b>21</b>	<b>15</b>	<b>6</b>

## SPECIAL GENERATOR SURVEYS

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.

Four special generators were surveyed in the Victoria study area — Victoria College/University of Houston (UH) - Victoria, Citizens Medical Center, Victoria Mall, and Invista/Dupont Industrial Plant. Figure 8 shows their locations and corresponding area types.



**Figure 8. Victoria Special Generators.**

The methodology used to survey special generators was the same as that used for full work place surveys (see page 2 of this report). It included a general survey, an intercept survey, non-CV counts and/or person counts, and CV counts. Table 21 provides a summary of the general data collected from the special generator surveys.

**Table 21. Victoria Special Generators Data Summary.**

<b>Data Elements</b>	<b>Victoria College</b>	<b>Citizens Medical Center</b>	<b>Victoria Mall</b>	<b>Invista/Dupont Plant<sup>1</sup></b>
Total Employment	300	1,300	900	1,000
Employees at Work	300	565	900	NA
CV Counts	97	153	288	366
Non-CV Counts	6,780	8,571	14,099	4,857
Person Counts <sup>2</sup>	8,814	11,485	18,329	5,586
Employee Surveys	141	241	95	NA
Visitor Surveys	538 <sup>3</sup>	524	576	NA
CV Surveys	3	13	15	NA

<sup>1</sup> This special generator was partially surveyed. No intercept surveys were conducted. NA - Not Available.

<sup>2</sup> Estimates were derived by multiplying the non-CV counts by the average auto-driver vehicle occupancy from the special generator survey.

<sup>3</sup> 487 surveys were students.

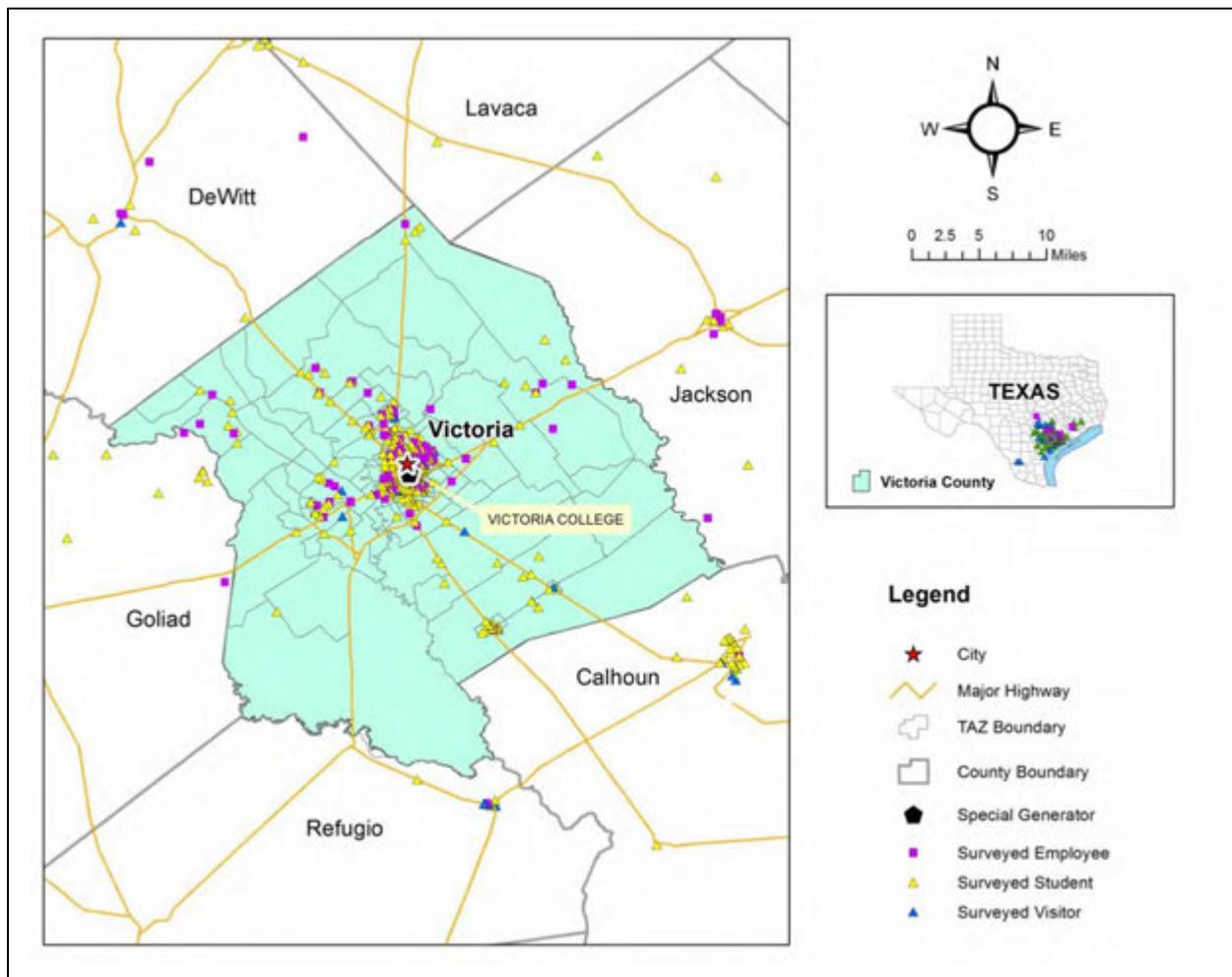
The trip characteristics observed from each special generator are described by mode of travel, trip purpose, and trip length. The analyses of trip length and travel time to and from the surveyed special generator pertain only to inter-zonal trips by person and auto-driver mode of travel. Person trips included all travel modes, including walking and bicycle trips. Auto-driver trips pertain to trips made by drivers of cars, trucks, and or vans, including commercial cargo transport and service vehicles.

CV intercept surveys were also conducted at each special generator, and the results from these surveys are summarized in a separate section. The CV vehicles were distinguished based on nine classification types and categorized as cargo transport or service vehicle types. The CV analysis included the trip purpose, the type of place where the trips occurred, and the type and average weight of cargo being transported at pick-up and drop off locations.

The results presented throughout this section were based on survey trip data. These results significantly change after weighting is applied to the trip data during the survey expansion.

## Victoria College - UH Victoria

Victoria College had a reported total employment of 300, with all of the employees estimated to be at work during the travel survey day. A total of 141 employees, 487 students, and 51 visitors participated in the survey. The surveyed employees represented approximately 47 percent of the total employees at work. Vehicle counts were conducted from 6:00 a.m. to 10:00 p.m., with a total count of 6,780 non-CVs and 97 CVs. Figure 9 shows the residence locations of Victoria College survey participants. Approximately 78 percent of the survey participants were residents of Victoria County.



**Figure 9. Residence Locations of Survey Participants at Victoria College.**

Table 22 shows the mode of travel used by survey participants traveling to and from Victoria College, while Table 23 shows the breakdown of trips by purpose. Approximately 85 percent of the total trips were made by drivers of cars, trucks, or vans and close to 10 percent were passengers of cars, trucks, or vans. The average occupancy rates for the auto-driver mode of travel were 1.1 persons for employee trips and 1.5 persons for visitor trips.

**Table 22. Survey Mode of Travel to and from Victoria College.**

Mode	Employees	Students	Visitors	Total Trips	Percent of Total
Driver (car/truck/van)	263	822	70	1,155	85.05
Passenger (car/truck/van)	16	105	13	134	9.87
Walk	3	35	8	46	3.39
Bicycle	-	2	-	2	0.15
Transit Bus	-	3	3	6	0.44
Light Rail	-	-	-	-	-
School Bus	-	6	8	14	1.03
Taxi/Limo	-	1	-	1	0.07
Commercial Cargo Transport Vehicle	-	-	-	-	-
Commercial Service Vehicle	-	-	-	-	-
Motorcycle	-	-	-	-	-
Other	-	-	-	-	-
<b>Total</b>	<b>282</b>	<b>974</b>	<b>102</b>	<b>1,358</b>	<b>100.00</b>

**Table 23. Survey Trips by Purposes to and from Victoria College.**

Trip Purpose	To Work Place	From Work Place	Total Trips	Percent of Total
HBW	93	76	169	12.44
HBNW	347	308	655	48.23
NHB-D	94	-	94	6.93
NHB-O	-	144	144	10.60
EXT-D	-	-	-	-
EXT -O	-	6	6	0.44
NON-RES	145	145	290	21.36
<b>Total</b>	<b>679</b>	<b>679</b>	<b>1,358</b>	<b>100.00</b>

Table 24 and Table 25 show the inter-zonal trip lengths and travel times by trip purpose for person and auto-driver trips, respectively. The estimates for NHB trips reflected the average of NHB-D and NHB-O trips. The average trip length was approximately 3.9 miles per person trips and 3.7 miles per auto-driver trip. The average travel time was approximately 6.5 minutes per person trip and 6.2 minutes per auto-driver trip.

**Table 24. Survey Inter-Zonal Trip Lengths to and from Victoria College by Trip Purpose.**

<b>Trip Purpose</b>	<b>Total Person Trips</b>	<b>Total Person Miles</b>	<b>Average Person Miles</b>	<b>Total Auto-Driver Trips</b>	<b>Total Auto-Driver Miles</b>	<b>Average Auto-Driver Miles</b>
HBW	184	740.48	4.02	155	652.24	4.21
HBNW	818	2820.22	3.45	546	1993.11	3.65
NHB	177	981.25	5.54	101	251.64	2.49
NON-RES	36	222.85	6.19	23.5	146.645	6.24
<b>Total</b>	<b>1,215</b>	<b>4764.80</b>	<b>3.92</b>	<b>825.5</b>	<b>3,043.64</b>	<b>3.69</b>

**Table 25. Survey Inter-Zonal Travel Times to and from Victoria College by Trip Purpose.**

<b>Trip Purpose</b>	<b>Total Person Trips</b>	<b>Total Person Minutes</b>	<b>Average Person Minutes</b>	<b>Total Auto-Driver Trips</b>	<b>Total Auto-Driver Minutes</b>	<b>Average Auto-Driver Minutes</b>
HBW	184	1255.14	6.82	155	1097.47	7.08
HBNW	818	4782.72	5.85	546	3345.91	6.13
NHB	177	1507.77	8.52	101	447.895	4.43
NON-RES	36	351.57	9.77	23.5	233.46	9.93
<b>Total</b>	<b>1,215</b>	<b>7897.20</b>	<b>6.50</b>	<b>825.5</b>	<b>5124.74</b>	<b>6.21</b>

Table 26 and Table 27 provide the survey TLFs and travel times by trip purpose, for all survey person and auto-driver trips to and from Victoria College.

**Table 26. Survey Person and Auto-Driver Trip TLFDs to and from Victoria College.**

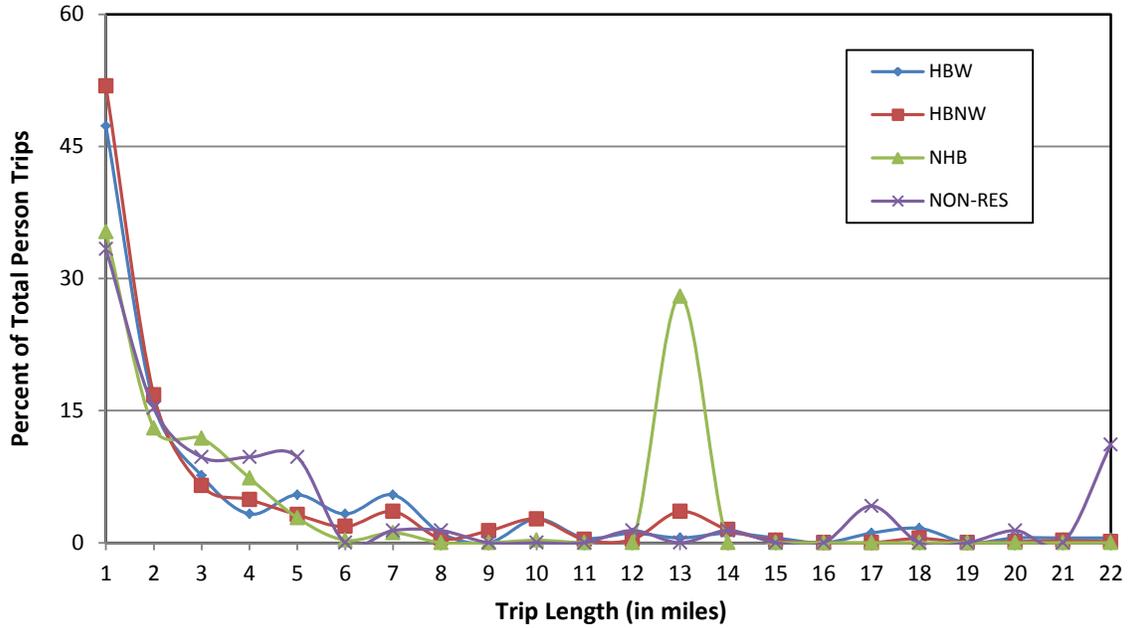
Miles	Person Trips				Auto-Driver Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	87	424	62.5	12	71	263	52	7
2	29	137	23	5.5	24	91	17.5	2.5
3	14	53	21	3.5	12	42	15	3.5
4	6	40	13	3.5	6	30	8.5	2.5
5	10	26	5	3.5	10	21	5	2.5
6	6	15	0.5	0	4	15	0.5	0
7	10	29	2	0.5	8	21	0.5	0.5
8	2	4	0	0.5	1	3	0	0.5
9	0	11	0	0	0	7	0	0
10	5	22	0.5	0	5	12	0.5	0
11	1	3	0	0	1	3	0	0
12	2	3	0	0.5	1	2	0	0.5
13	1	29	49.5	0	1	21	1.5	0
14	2	12	0	0.5	2	8	0	0.5
15	1	2	0	0	1	0	0	0
16	0	0	0	0	0	0	0	0
17	2	0	0	1.5	2	0	0	1
18	3	4	0	0	3	3	0	0
19	0	0	0	0	0	0	0	0
20	1	1	0	0.5	1	1	0	0.5
21	1	2	0	0	1	2	0	0
22	1	1	0	4	1	1	0	2
<b>Total</b>	<b>184</b>	<b>818</b>	<b>177.0</b>	<b>36.0</b>	<b>155</b>	<b>546</b>	<b>101.0</b>	<b>23.5</b>

**Table 27. Survey Person and Auto-Driver Trip Travel Times to and from Victoria College.**

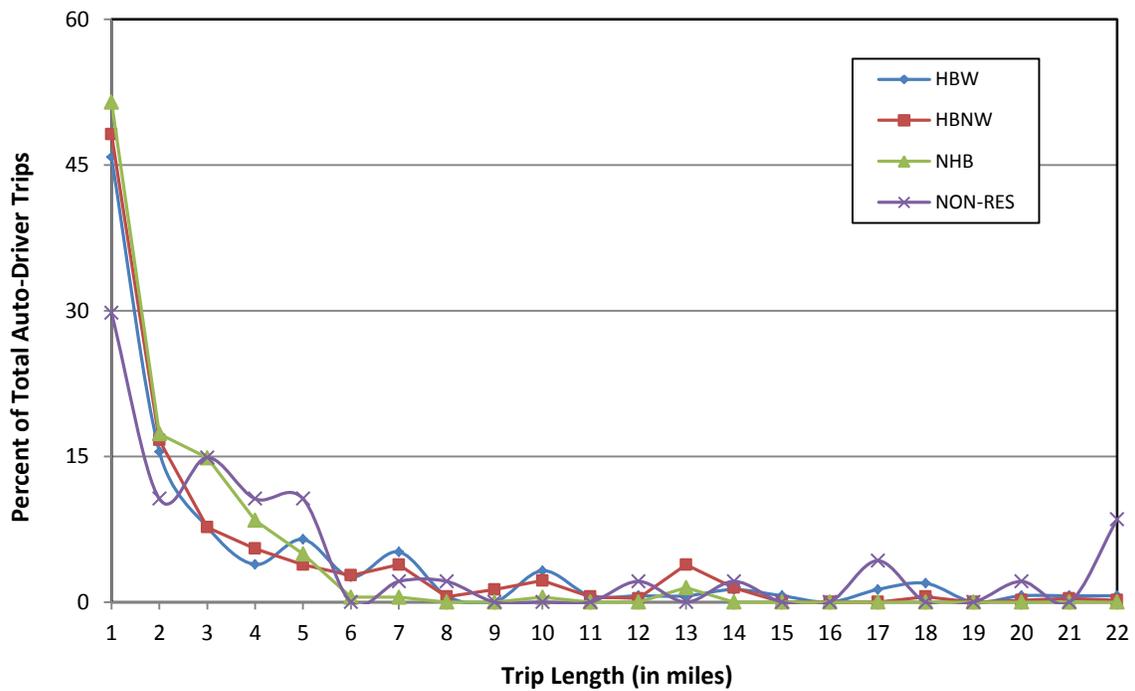
Minutes	Person Trips				Auto-Driver Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	22	136	20	2.5	17	75	15	1
2	36	175	27.5	7.5	33	107	23	4
3	31	151	20	3.5	23	104	19.5	2
4	23	81	16.5	4	18	56	10.5	2.5
5	8	53	11	1.5	8	36	9	1.5
6	10	22	13	2.5	8	22	9	2.5
7	4	35	11.5	3	4	25	7	2
8	6	12	4	3.5	6	10	4	2.5
9	6	11	1	0	6	8	1	0
10	1	10	0.5	0	1	10	0.5	0
11	9	11	0	0	5	11	0	0
12	5	26	2	0.5	5	18	0.5	0.5
13	0	6	0	0.5	0	5	0	0.5
14	0	2	0	0	0	2	0	0
15	2	15	0	0	2	8	0	0
16	0	0	0	0	0	0	0	0
17	2	7	0	0	2	4	0	0
18	4	2	0	0	2	2	0	0
19	2	34	49	0	2	26	1	0
20	0	0	0.5	0	0	0	0.5	0
21	3	16	0.5	1	3	9	0.5	1
22	0	0	0	0	0	0	0	0
23	2	5	0	0	2	1	0	0
24	2	3	0	0	2	2	0	0
25	2	1	0	0	2	1	0	0
26	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0
30	2	3	0	0.5	2	3	0	0.5
31	2	1	0	5.5	2	1	0	3
<b>Total</b>	<b>184</b>	<b>818</b>	<b>177.0</b>	<b>36.0</b>	<b>155</b>	<b>546</b>	<b>101.0</b>	<b>23.5</b>

Figure 10 (a and b) show the trip lengths in percentage values of total person and auto-driver trips by trip purpose, respectively.

**(a) Person Trips**



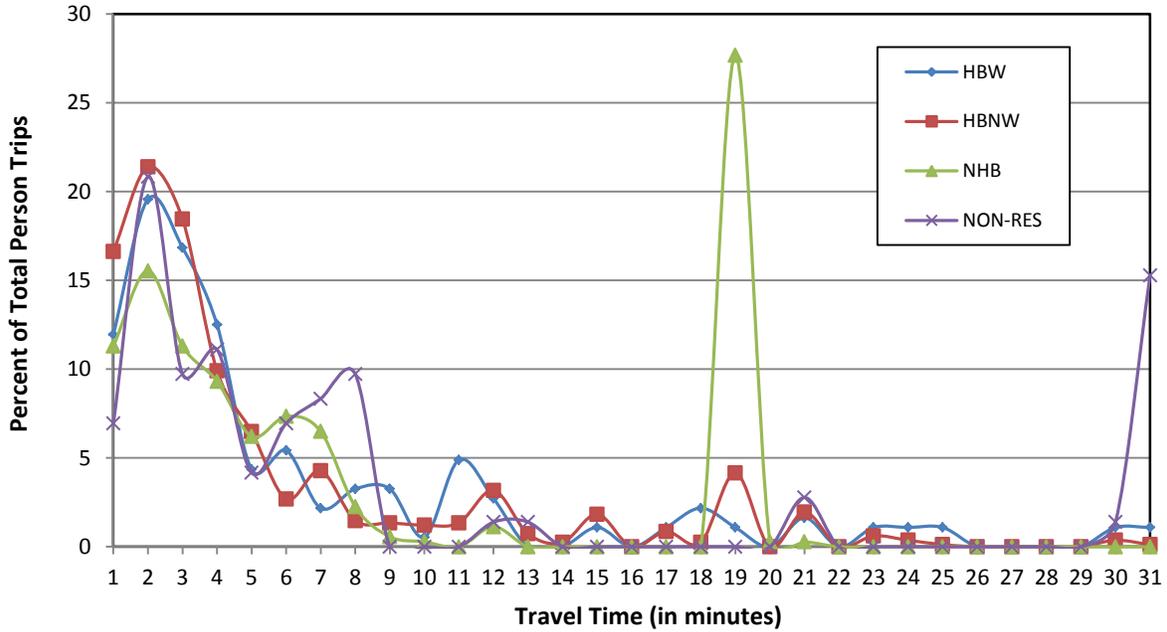
**(b) Auto-Driver Trips**



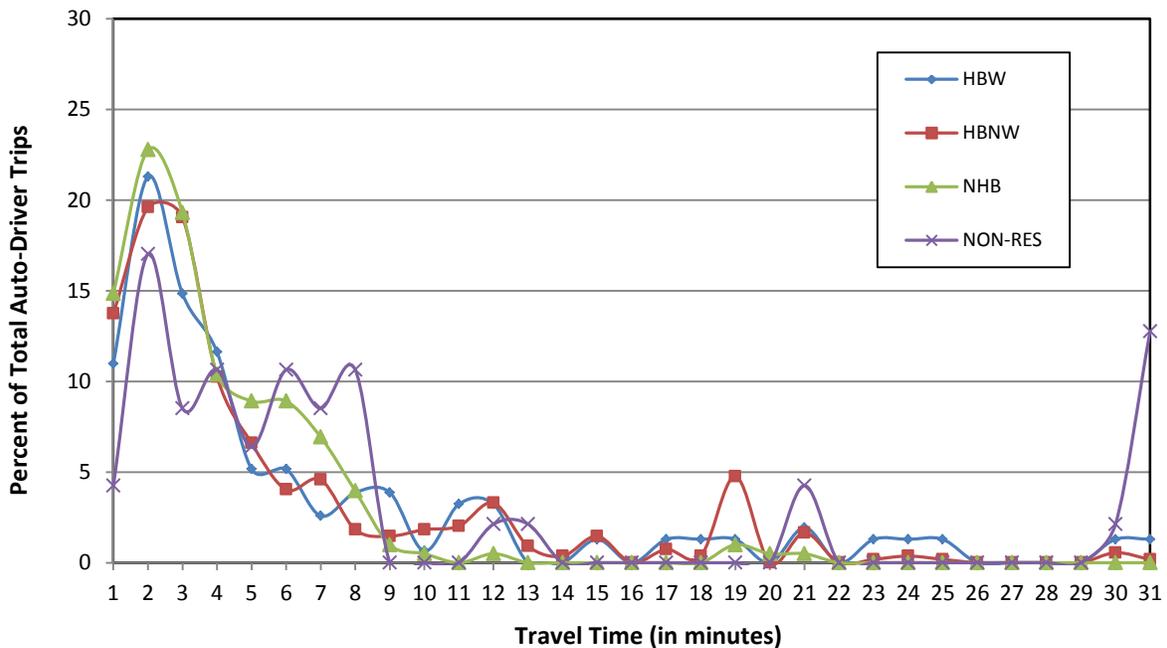
**Figure 10. TLFDs of Person and Auto-Driver Trips to and from Victoria College.**

Figure 11 (a and b) show the travel times in percentage values of total person and auto-driver trips by trip purpose, respectively.

**(a) Person Trips**



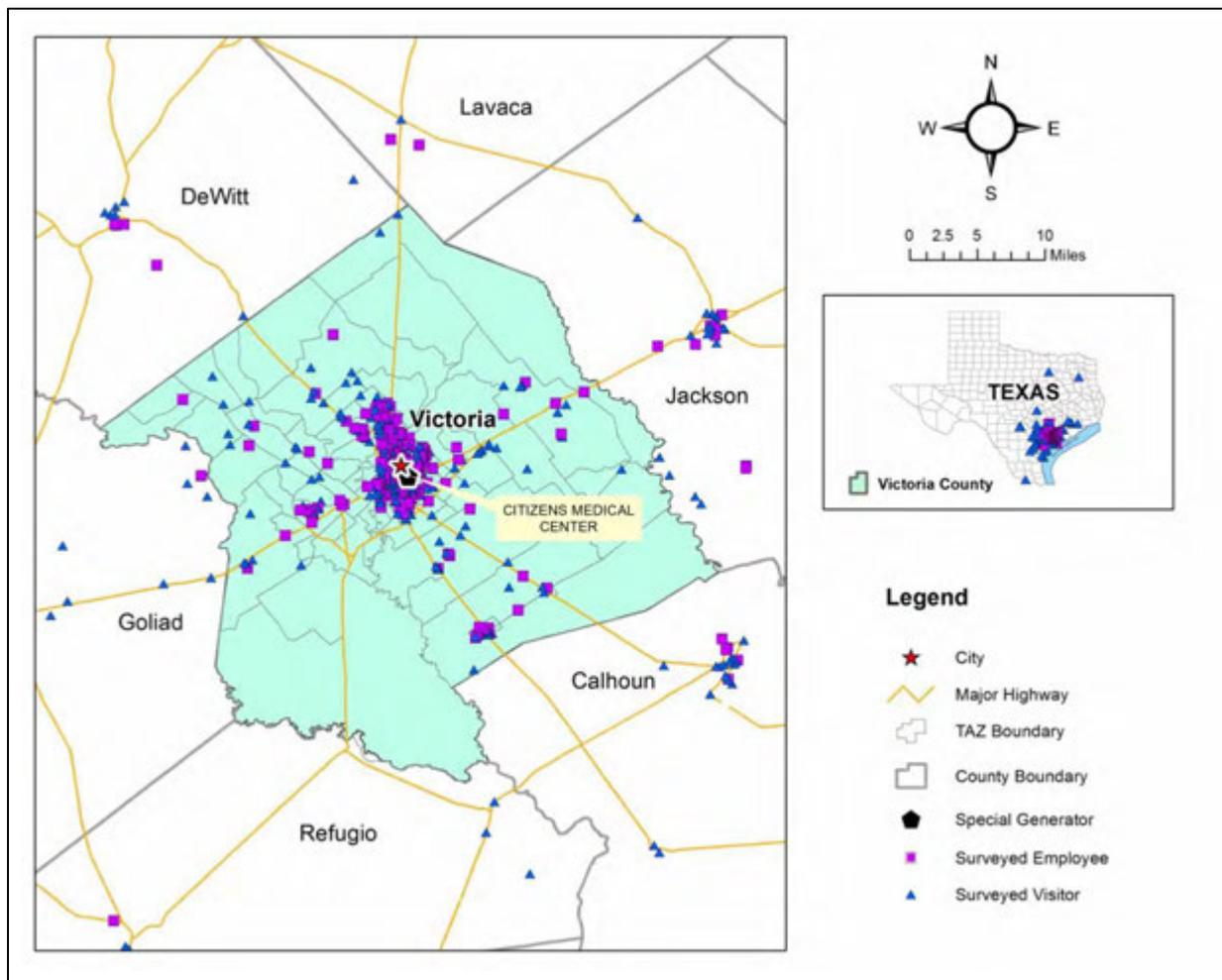
**(b) Auto-Driver Trips**



**Figure 11. Travel Times of Person and Auto-Driver Trips to and from Victoria College.**

## Citizens Medical Center

Citizens Medical Center had a reported total employment of 1,300 and 565 of its employees were estimated to be at work during the travel survey day. A total of 241 employees, and 524 non-employees participated in the survey. The surveyed employees represented 42 percent of the total employees at work. Vehicle counts were conducted from 6:00 a.m. to 10:00 p.m., with a total count of 8,571 non-CVs and 153 CVs. Figure 12 shows the residence locations of Citizens Medical Center survey participants. Approximately 76 percent were residents of Victoria County.



**Figure 12. Residence Locations of Survey Participants at Citizens Medical Center.**

Table 28 shows the mode of travel used by survey participants traveling to and from Citizens Medical Center. Approximately 88 percent were drivers of cars, trucks, or vans and over 9 percent were passengers of cars, trucks, or vans. The average occupancy rates by auto-driver mode of travel was 1.1 persons per employee trip, and 1.5 persons per visitor trip.

**Table 28. Survey Mode of Travel to and from Citizens Medical Center.**

<b>Mode</b>	<b>To Work Place</b>	<b>From Work Place</b>	<b>Total Trips</b>	<b>Percent of Total</b>
Driver (car/truck/van)	674	674	1,348	88.10
Passenger (car/truck/van)	73	73	146	9.54
Walk	6	6	12	0.78
Bicycle	-	-	-	-
Transit Bus	5	5	10	0.66
Light Rail	-	-	-	-
School Bus	-	-	-	-
Taxi/Limo	1	1	2	0.13
Commercial Cargo Transport Vehicle	2	2	4	0.26
Commercial Service Vehicle	1	1	2	0.13
Motorcycle	2	2	4	0.27
Other	1	1	2	0.13
<b>Total</b>	<b>765</b>	<b>765</b>	<b>1,530</b>	<b>100.00</b>

Table 29 shows the number and percentage of surveyed trips to and from Citizens Medical Center by purpose.

**Table 29. Survey Trips by Purposes to and from Citizens Medical Center.**

<b>Trip Purpose</b>	<b>To Work Place</b>	<b>From Work Place</b>	<b>Total Trips</b>	<b>Percent of Total</b>
HBW	177	156	333	21.76
HBNW	317	265	582	38.04
NHB-D	100	-	100	6.54
NHB-O	-	174	174	11.37
EXT-D	6	-	6	0.39
EXT -O	-	5	5	0.33
NON RES	165	165	330	21.57
<b>Total</b>	<b>765</b>	<b>765</b>	<b>1,530</b>	<b>100.00</b>

Table 30 and Table 31 show the inter-zonal trip lengths and travel times by trip purpose for person and vehicle trips, respectively. The estimates for NHB trips reflected the average of NHB-D and NHB-O trips. The average trip length was close to 4 miles per trip. The average travel time was around 6 minutes per trip.

**Table 30. Survey Inter-Zonal Trip Lengths to and from Citizens Medical Center by Trip Purpose.**

<b>Trip Purpose</b>	<b>Total Person Trips</b>	<b>Total Person Miles</b>	<b>Average Person Miles</b>	<b>Total Auto-Driver Trips</b>	<b>Total Auto-Driver Miles</b>	<b>Average Auto-Driver Miles</b>
HBW	383	1,321.89	3.45	287	1,106.25	3.85
HBNW	943	3,788.00	4.02	501	2,032.82	4.06
NHB	182	441.68	2.43	122.5	315.90	2.58
NON-RES	45	151.37	3.36	26	93.53	3.60
<b>Total</b>	<b>1,553</b>	<b>5,702.94</b>	<b>3.67</b>	<b>936.5</b>	<b>3,548.50</b>	<b>3.79</b>

**Table 31. Survey Inter-Zonal Travel Times to and from Medical Center by Trip Purpose.**

<b>Trip Purpose</b>	<b>Total Person Trips</b>	<b>Total Person Minutes</b>	<b>Average Person Minutes</b>	<b>Total Auto-Driver Trips</b>	<b>Total Auto-Driver Minutes</b>	<b>Average Auto-Driver Minutes</b>
HBW	383	2,215.37	5.78	287	1,837.35	6.40
HBNW	943	6,200.17	6.57	501	3,333.88	6.65
NHB	182	765.72	4.21	122.5	543.23	4.43
NON-RES	45	247.98	5.51	26	151.19	5.82
<b>Total</b>	<b>1,553</b>	<b>9,429.24</b>	<b>6.07</b>	<b>936.5</b>	<b>5,865.65</b>	<b>6.26</b>

Table 32 and Table 33 provide the survey TLFs and travel times by trip purpose, for all survey person and auto-driver trips to and from Citizens Medical Center.

**Table 32. Survey Person and Auto-Driver Trip TLFs to and from Citizens Medical Center.**

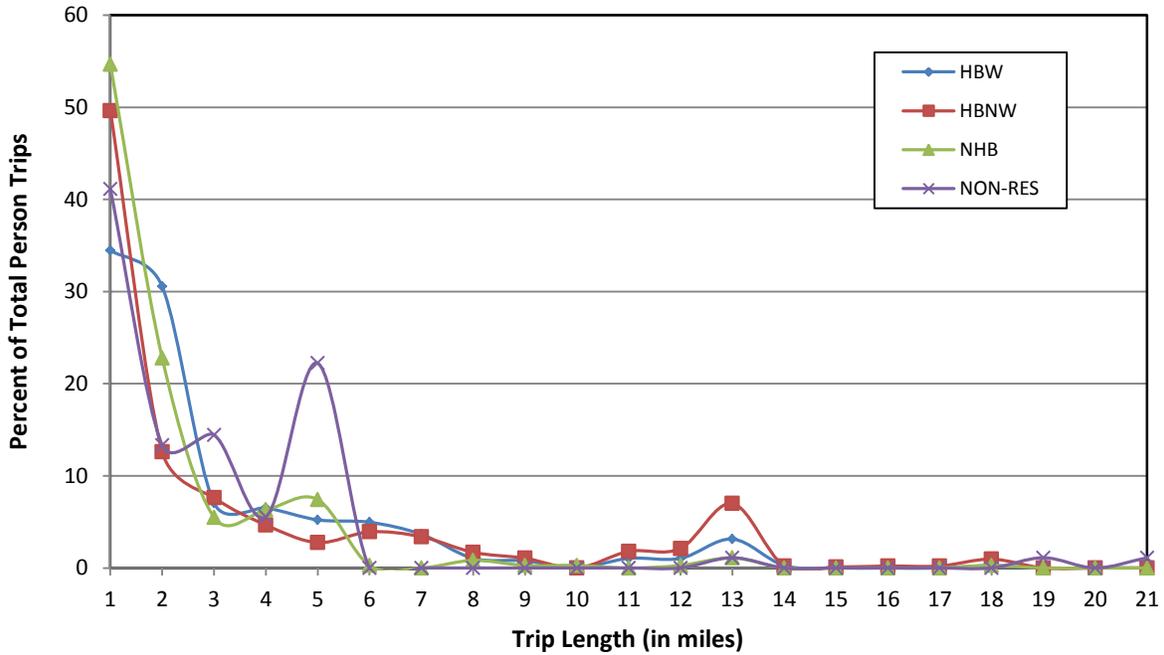
Miles	Person Trips				Auto-Driver Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	132	468	99.5	18.5	79	227	62.5	10
2	117	119	41.5	6	91	74	29.5	5
3	27	72	10	6.5	23	47	7	3.5
4	25	44	11.5	2.5	23	25	8	0.5
5	20	26	13.5	10	14	12	10.5	5.5
6	19	37	0.5	0	16	21	0.5	0
7	14	32	0	0	14	23	0	0
8	4	16	1.5	0	4	9	1	0
9	3	10	0.5	0	3	5	0.5	0
10	0	0	0.5	0	0	0	0.5	0
11	4	17	0	0	4	8	0	0
12	4	20	0.5	0	2	10	0.5	0
13	12	66	2	0.5	12	30	1.5	0.5
14	1	2	0	0	1	2	0	0
15	0	1	0	0	0	1	0	0
16	0	2	0	0	0	2	0	0
17	0	2	0	0	0	1	0	0
18	1	9	0.5	0	1	4	0.5	0
19	0	0	0	0.5	0	0	0	0.5
20	0	0	0	0	0	0	0	0
21	0	0	0	0.5	0	0	0	0.5
<b>Total</b>	<b>383</b>	<b>943</b>	<b>182.0</b>	<b>45.0</b>	<b>287</b>	<b>501</b>	<b>122.5</b>	<b>26.0</b>

**Table 33. Survey Person and Auto-Driver Trip Travel Times to and from Citizens Medical Center.**

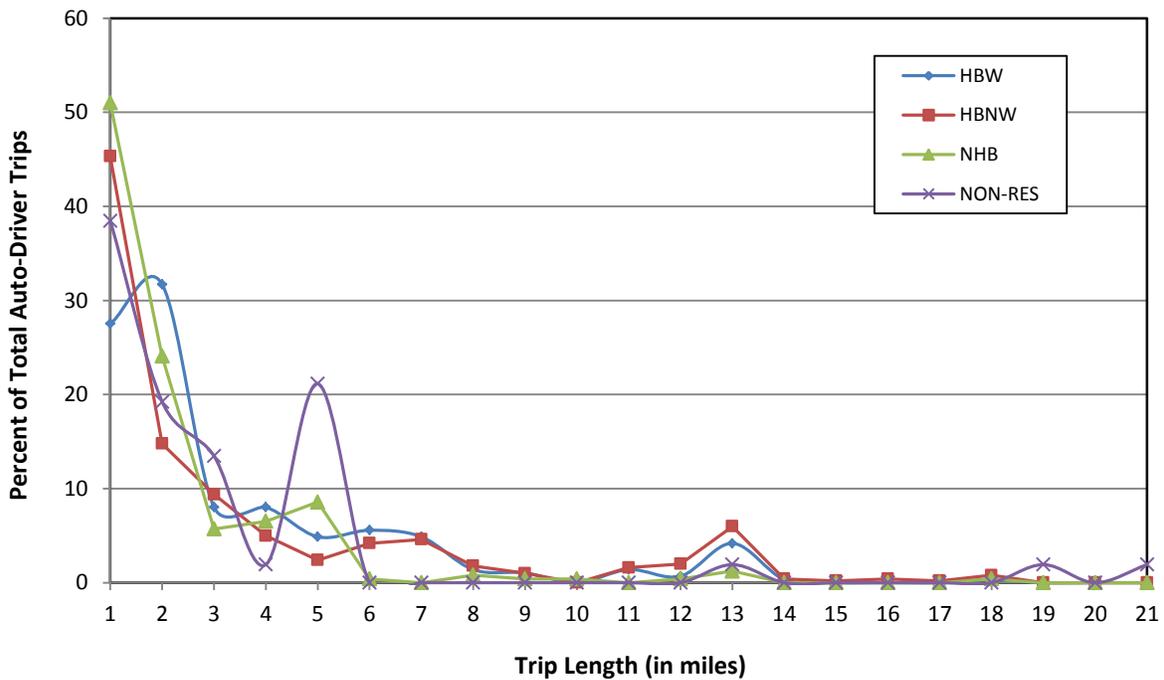
Minutes	Person Trips				Auto-Driver Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	53	136	47	8.5	25	61	27.5	5.5
2	45	172	25.5	4	29	86	20	2.5
3	66	187	39.5	7.5	50	98	26	3.5
4	88	92	26	5	67	59	17.5	4
5	14	48	8.5	2	14	31	5.5	2
6	27	31	9	5.5	23	19	4.5	1.5
7	9	39	8	2.5	9	20	7	1
8	12	18	10.5	8.5	6	6	7.5	4.5
9	8	11	2	0	8	9	2	0
10	14	30	0.5	0	11	14	0.5	0
11	8	13	0	0	8	11	0	0
12	12	27	0	0	12	18	0	0
13	0	2	0	0	0	2	0	0
14	3	0	1.5	0	3	0	1	0
15	0	2	1	0	0	2	1	0
16	1	9	0	0	1	4	0	0
17	2	8	0	0	0	3	0	0
18	5	32	1	0.5	5	14	0.5	0.5
19	13	57	0.5	0	13	27	0.5	0
20	0	8	1	0	0	4	1	0
21	2	6	0	0	2	4	0	0
22	0	2	0	0	0	2	0	0
23	0	7	0.5	0	0	3	0.5	0
24	0	0	0	0	0	0	0	0
25	0	5	0	0	0	3	0	0
26	0	1	0	0	0	1	0	0
27	0	0	0	0	0	0	0	0
28	1	0	0	0	1	0	0	0
29	0	0	0	1	0	0	0	1
<b>Total</b>	<b>383</b>	<b>943</b>	<b>182.0</b>	<b>45.0</b>	<b>287</b>	<b>501</b>	<b>122.5</b>	<b>26.0</b>

Figure 13 (a and b) show the trip lengths in percentage values of total person and auto-driver trips by trip purpose, respectively.

**(a) Person Trips**



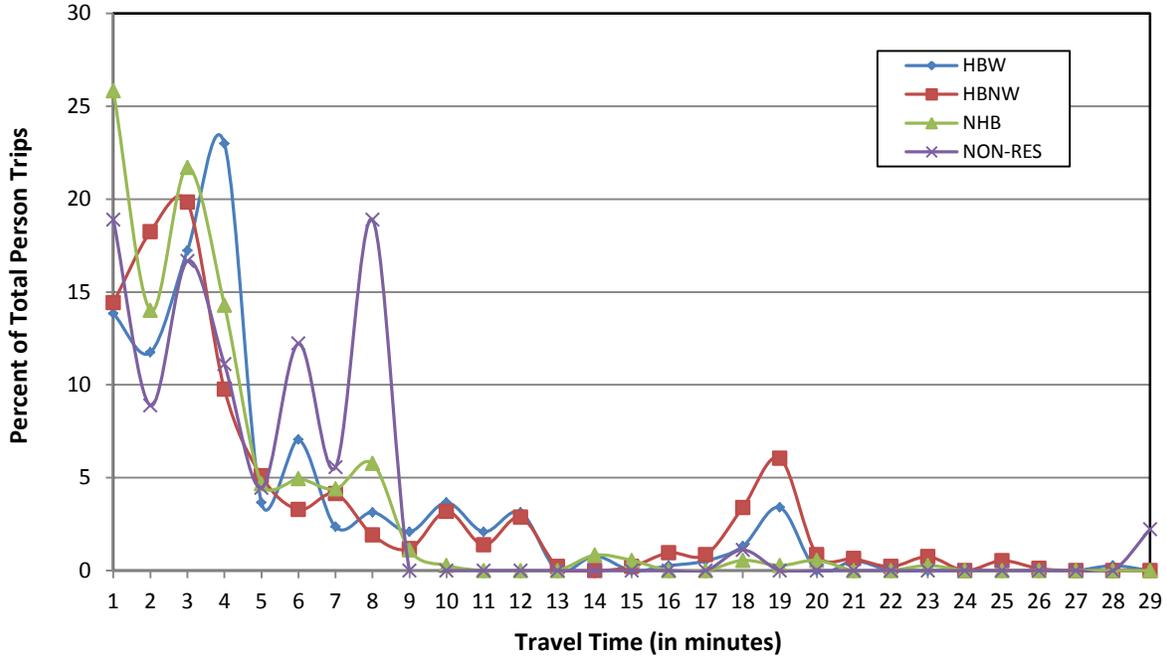
**(b) Auto-Driver Trips**



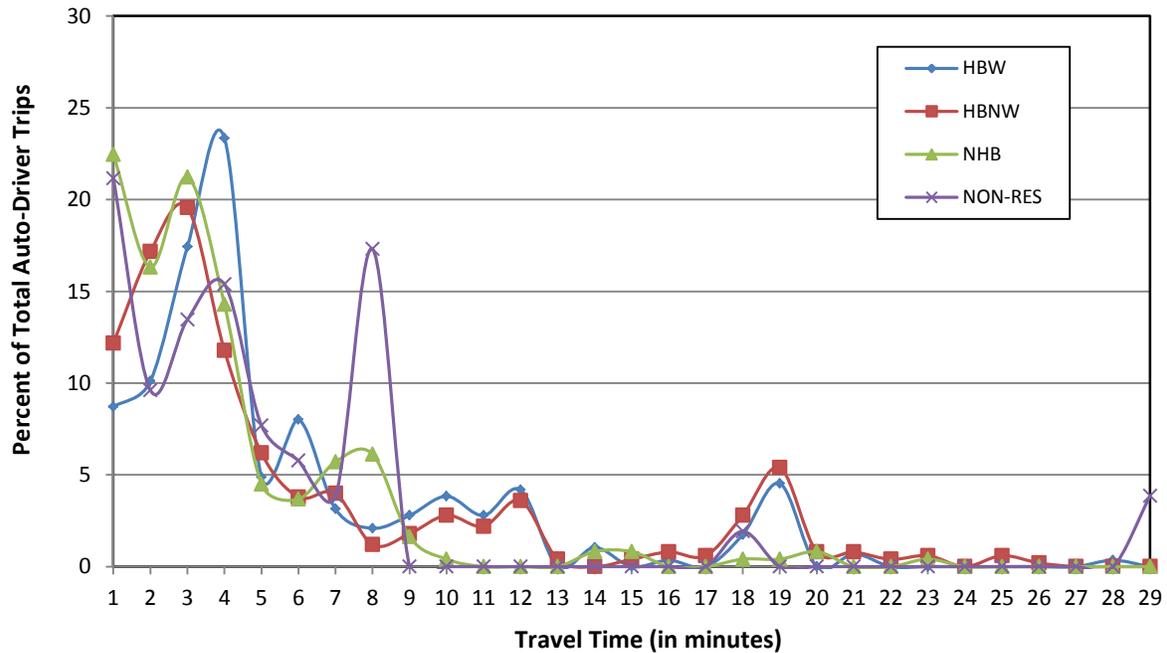
**Figure 13. TLFDs of Person and Auto-Driver Trips to and from Citizens Medical Center.**

Figure 14 (a and b) show the travel times in percentage values of total person and auto-driver trips by trip purpose, respectively.

**(a) Person Trips**



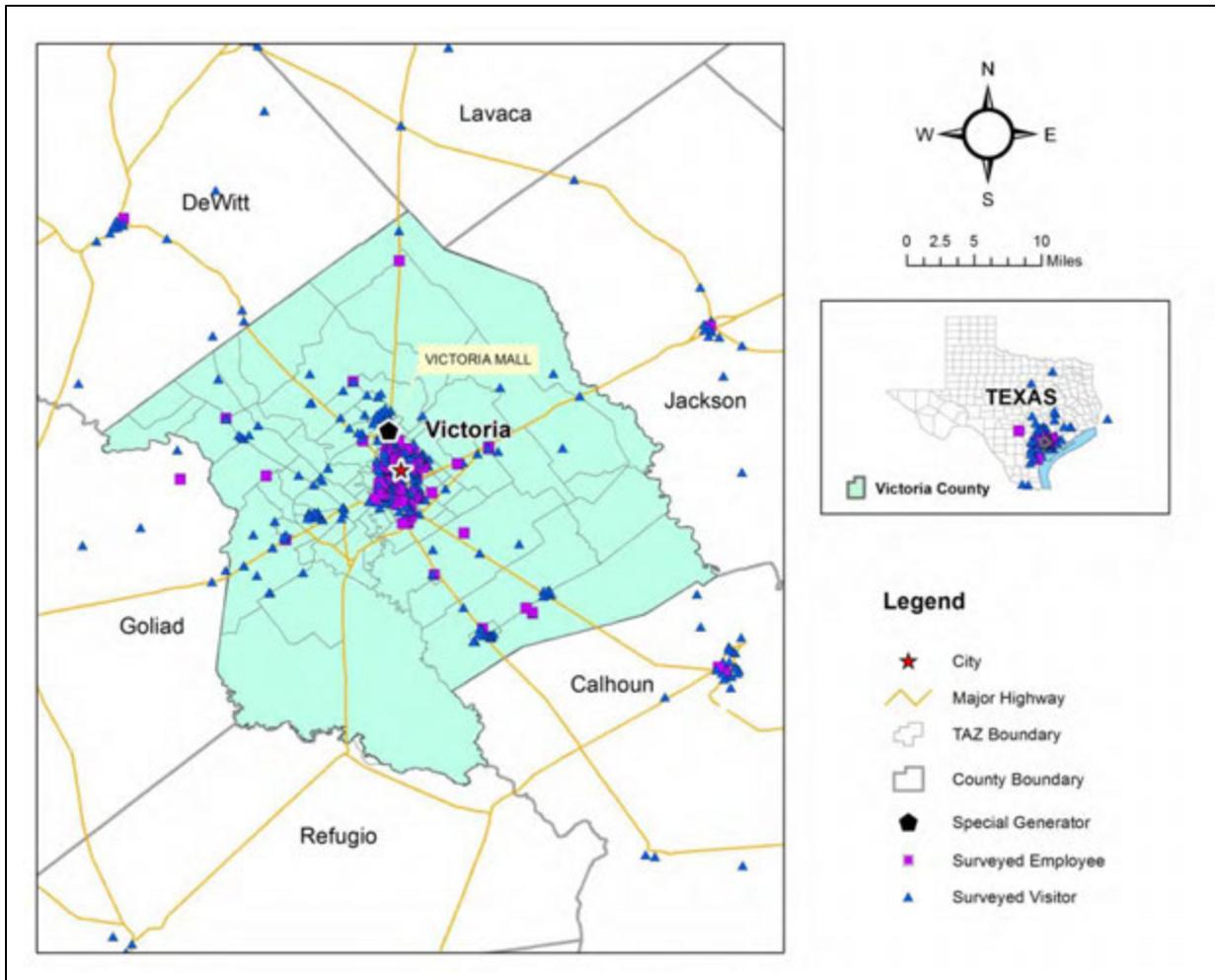
**(b) Auto-Driver Trips**



**Figure 14. Travel Times of Person and Auto-Driver Trips to and from Citizens Medical Center.**

## Victoria Mall

The Victoria Mall had a reported total employment of 900 and all of its employees were estimated to be at work during the travel survey day. A total of 95 employees and 576 non-employees participated in the survey. The surveyed employees represented approximately 11 percent of the total employees at work. Vehicle counts were conducted from 9:00 a.m. to 10:00 p.m. during the day of survey, with a total count of 14,099 non-CVs and 288 CVs. Figure 15 shows the residence locations of the survey participants at the Victoria Mall. Approximately 75 percent of the survey participants were residents of Victoria County.



**Figure 15. Residence Locations of Survey Participants at the Victoria Mall.**

Table 34 shows the mode of travel used by survey participants traveling to and from the Victoria Mall. The same mode of travel was assumed for the other leg of the trip. Approximately 85 percent were drivers of cars, trucks, or vans and 13 percent were passengers of cars, trucks, or vans. Less than half of a percent either walked or biked. Approximately 1 percent rode a transit bus. The average occupancy rates for the auto-driver mode of travel were 1.1 persons per employee trip and 1.5 persons per visitor trip.

**Table 34. Survey Mode of Travel to the Victoria Mall.**

<b>Mode</b>	<b>To Work Place</b>	<b>From Work Place</b>	<b>Total Trips</b>	<b>Percent of Total</b>
Driver (car/truck/van)	574	574	1,148	85.54
Passenger (car/truck/van)	86	86	172	12.82
Walk	1	1	2	0.15
Bicycle	2	2	4	0.30
Transit Bus	7	7	14	1.04
Light Rail	-	-	-	-
School Bus	-	-	-	-
Taxi/Limo	-	-	-	-
Commercial Cargo Transport Vehicle	-	-	-	-
Commercial Service Vehicle	-	-	-	-
Motorcycle	1	1	2	0.15
Other	-	-	-	-
<b>Total</b>	<b>671</b>	<b>671</b>	<b>1,342</b>	<b>100.00</b>

Table 35 shows the number and percentage of surveyed trips to and from the Victoria Mall by purpose.

**Table 35. Survey Trips by Purposes to and from the the Victoria Mall.**

<b>Trip Purpose</b>	<b>To Work Place</b>	<b>From Work Place</b>	<b>Total Trips</b>	<b>Percent of Total</b>
HBW	76	68	144	10.73
HBNW	287	283	570	42.47
NHB-D	148	-	148	11.03
NHB-O	-	157	157	11.70
EXT-D	7	-	7	0.52
EXT -O	-	10	10	0.75
NON RES	153	153	306	22.80
<b>Total</b>	<b>671</b>	<b>671</b>	<b>1,342</b>	<b>100.00</b>

Table 36 and Table 37 show the inter-zonal trip lengths and travel times by trip purpose for person and auto-driver trips, respectively. The estimates for NHB trips reflected the average of NHB-D and NHB-O trips. The average trip length was approximately 5 miles per trip. The average travel time was close to 8 minutes per trip.

**Table 36. Survey Inter-Zonal Trip Lengths to and from the Victoria Mall by Trip Purpose.**

<b>Trip Purpose</b>	<b>Total Person Trips</b>	<b>Total Person Miles</b>	<b>Average Person Miles</b>	<b>Total Auto-Driver Trips</b>	<b>Total Auto-Driver Miles</b>	<b>Average Auto-Driver Miles</b>
HBW	164	862.24	5.26	128	694.37	5.42
HBNW	938	5,393.99	5.75	493	2,824.97	5.73
NHB	201	530.07	2.64	129.5	362.77	2.80
NON-RES	82.5	222.69	2.70	39	107.99	2.77
<b>Total</b>	<b>1385.5</b>	<b>7,008.99</b>	<b>5.06</b>	<b>790</b>	<b>3,990.10</b>	<b>5.05</b>

**Table 37. Survey Inter-Zonal Travel Times to and from the Victoria Mall by Trip Purpose.**

<b>Trip Purpose</b>	<b>Total Person Trips</b>	<b>Total Person Minutes</b>	<b>Average Person Minutes</b>	<b>Total Auto-Driver Trips</b>	<b>Total Auto-Driver Minutes</b>	<b>Average Auto-Driver Minutes</b>
HBW	164	1,372.80	8.37	128	1,104.67	8.63
HBNW	938	8,271.09	8.82	493	4,320.85	8.76
NHB	201	910.50	4.53	129.5	616.23	4.76
NON-RES	82.5	377.79	4.58	39	183.46	4.70
<b>Total</b>	<b>1,385.5</b>	<b>10,932.18</b>	<b>7.89</b>	<b>790</b>	<b>6,225.21</b>	<b>7.88</b>

Table 38 and Table 39 provide the survey TLFDs and travel times by trip purpose, for all survey person and auto-driver trips to and from the Victoria Mall.

**Table 38. Survey Person and Auto-Driver Trip TLFDs to and from the Victoria Mall.**

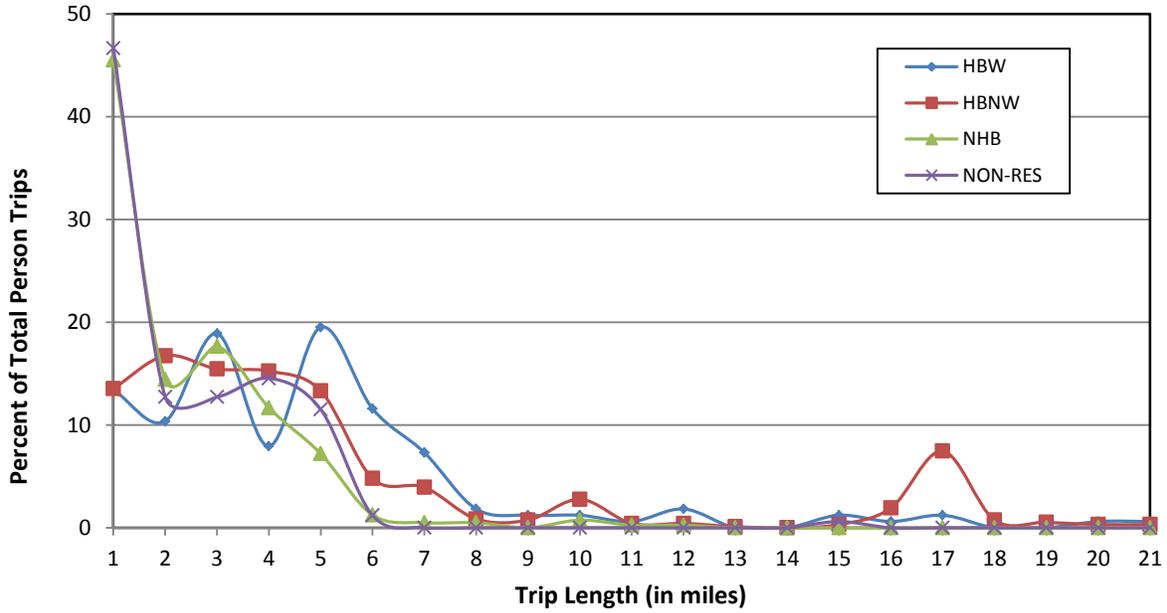
Miles	Person Trips				Auto-Driver Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	22	127	91.5	38.5	18	71	55	18
2	17	157	29	10.5	11	80	19	5.5
3	31	145	35.5	10.5	28	87	21.5	3.5
4	13	143	23.5	12	9	67	18	6.5
5	32	125	14.5	9.5	23	58	9.5	5
6	19	45	2.5	1	13	19	2.5	0
7	12	37	1	0	8	20	1	0
8	3	8	1	0	3	6	0.5	0
9	2	7	0	0	2	3	0	0
10	2	26	1.5	0	2	18	1.5	0
11	1	4	0.5	0	1	3	0.5	0
12	3	4	0.5	0	3	4	0.5	0
13	0	1	0	0	0	1	0	0
14	0	0	0	0	0	0	0	0
15	2	3	0	0.5	2	3	0	0.5
16	1	18	0	0	1	11	0	0
17	2	70	0	0	2	33	0	0
18	0	7	0	0	0	5	0	0
19	0	5	0	0	0	2	0	0
20	1	3	0	0	1	1	0	0
21	1	3	0	0	1	1	0	0
<b>Total</b>	<b>164</b>	<b>938</b>	<b>201.0</b>	<b>82.5</b>	<b>128</b>	<b>493</b>	<b>129.5</b>	<b>39.0</b>

**Table 39. Survey Person and Auto-Driver Trip Travel Times to and from the Victoria Mall.**

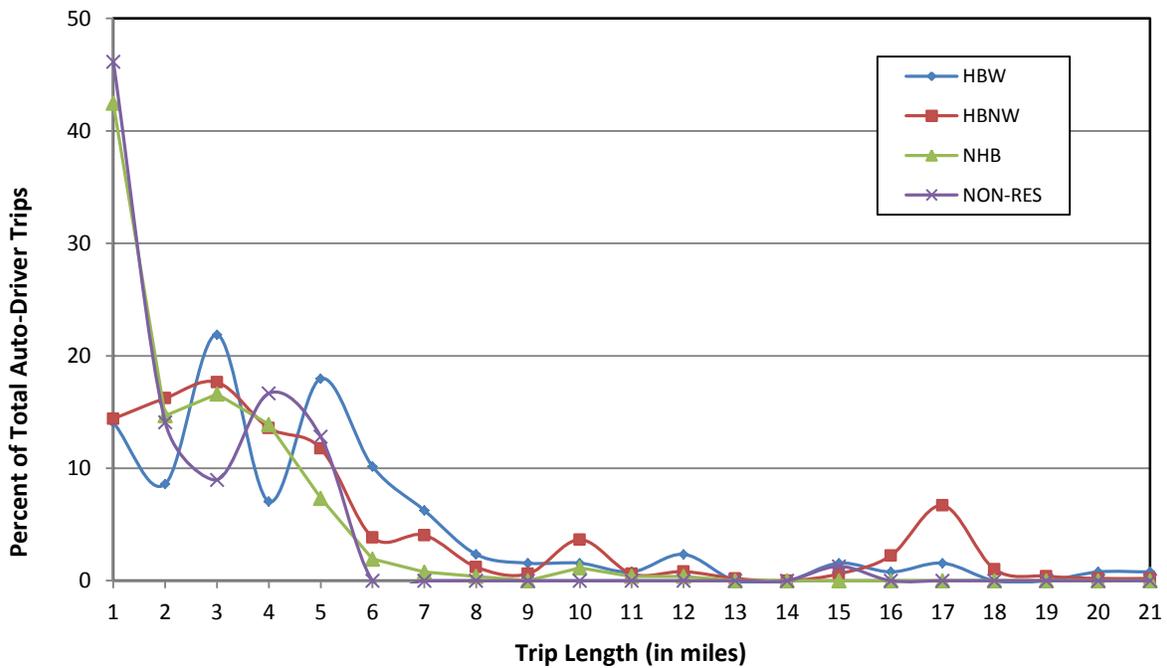
Minutes	Person Trips				Auto-Driver Trips			
	HBW	HBNW	NHB	NON-RES	HBW	HBNW	NHB	NON-RES
1	4	15	21.5	7.5	4	7	12	4
2	6	56	63	26.5	5	31	40	11.5
3	13	92	11.5	11	10	46	6.5	5.5
4	16	116	26	4	10	66	17	2.5
5	21	105	28	10.5	18	65	16.5	3.5
6	17	107	11	2	17	50	8	1.5
7	6	77	18	10	2	38	13	5
8	24	75	11.5	8.5	15	40	8	4
9	20	87	5.5	2	16	32	4	1
10	7	18	0.5	0	5	11	0.5	0
11	12	34	1.5	0	8	18	1	0
12	0	4	0.5	0	0	4	0.5	0
13	3	3	0	0	3	2	0	0
14	1	21	1.5	0	1	14	1.5	0
15	1	10	0	0	1	8	0	0
16	2	4	0	0	2	0	0	0
17	1	2	0.5	0	1	2	0.5	0
18	3	1	0.5	0	3	1	0.5	0
19	0	2	0	0	0	2	0	0
20	0	0	0	0	0	0	0	0
21	0	5	0	0	0	5	0	0
22	2	16	0	0.5	2	9	0	0.5
23	0	0	0	0	0	0	0	0
24	3	70	0	0	3	33	0	0
25	0	5	0	0	0	5	0	0
26	0	4	0	0	0	0	0	0
27	0	1	0	0	0	1	0	0
28	0	2	0	0	0	1	0	0
29	2	6	0	0	2	2	0	0
<b>Total</b>	<b>164</b>	<b>938</b>	<b>201.0</b>	<b>82.5</b>	<b>128</b>	<b>493</b>	<b>129.5</b>	<b>39.0</b>

Figure 16 (a and b) show the trip lengths in percentage values of total person and auto-driver trips by trip purpose, respectively.

**(a) Person Trips**



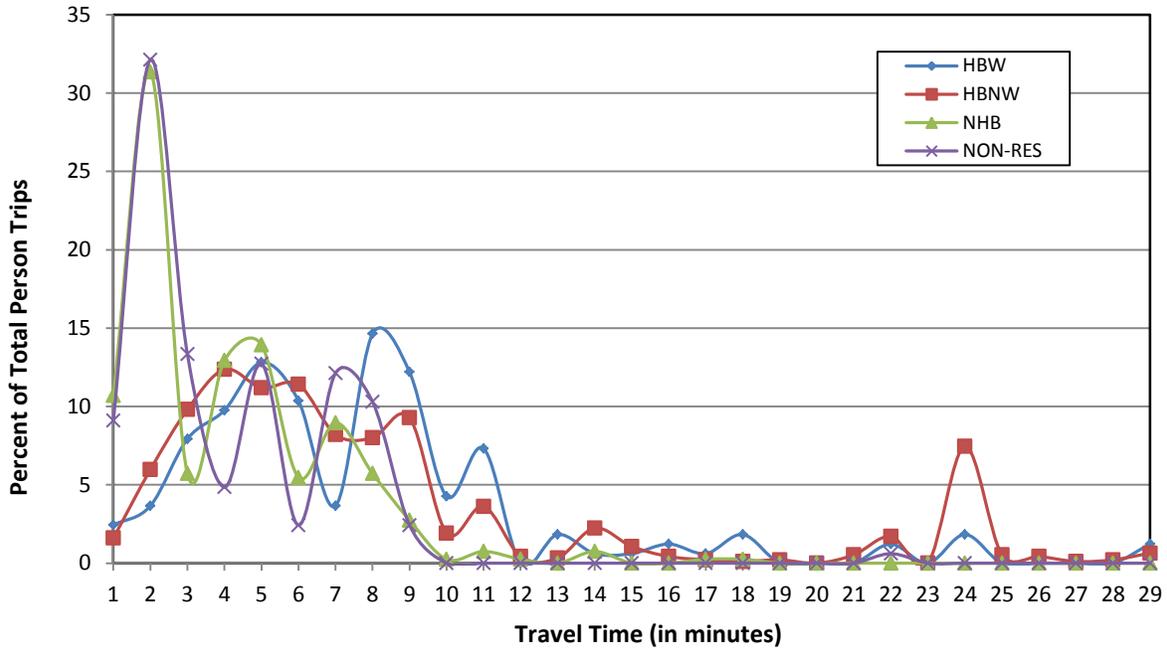
**(b) Auto-Driver Trips**



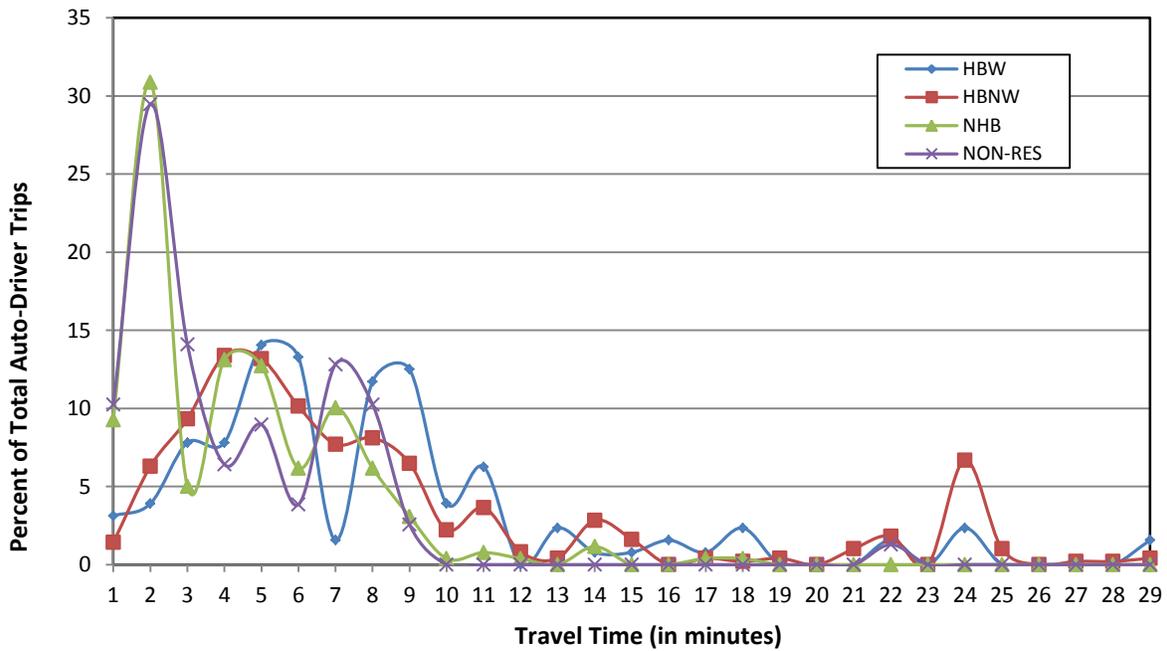
**Figure 16. TLFDs of Person and Auto-Driver Trips to and from the Victoria Mall.**

Figure 17 (a and b) show the travel times in percentage values of total person and auto-driver trips by trip purpose, respectively.

**(a) Person Trips**



**(b) Auto-Driver Trips**



**Figure 17. Travel Times of Person and Auto-Driver Trips to and from the Victoria Mall.**

### Invista/Dupont Plant

The Invista/Dupont Plant was partially surveyed. It had a reported total employment of 1,000. The number of employees estimated to be at work during the travel survey day was not reported. Vehicle counts were conducted at the facility, with a total count of 4,857 non-CVs and 366 CV.

### Commercial Vehicle Intercept Surveys

A total of 31 CV intercept surveys were conducted at special generators in the Victoria study area. Table 40 shows the vehicle classification by cargo and service vehicle types. Table 41 shows the trip purposes of the survey vehicles. Table 42 shows the type of place at trip origins and destinations. Table 43 and Table 44 show the cargo types and average cargo weights for delivery and pick-up, respectively.

**Table 40. CV Survey Vehicle Classification and Types.**

Vehicle Classification	Victoria College		Citizens Medical Center		Victoria Mall	
	Cargo Transport	Service Vehicle	Cargo Transport	Service Vehicle	Cargo Transport	Service Vehicle
Passenger Car	-	-	-	-	-	-
Pick-Up Truck	-	1	1	-	-	-
Van (cargo or mini)	-	1	5	-	-	2
Sport Utility Vehicle (SUV)	-	-	-	-	-	-
Single Unit 2-axle (6 wheels)	1	-	-	-	8	-
Single Unit 3-axle (10 wheels)	-	-	-	-	-	-
Single Unit 4-axle (14 wheels)	-	-	2	-	-	-
Semi (tractor-trailer combination)	-	-	5	-	4	-
Other	-	-	-	-	1	-
<b>Total</b>	<b>1</b>	<b>2</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>2</b>

**Table 41. CV Survey Trip Purposes.**

Trip Purpose	Victoria College		Citizens Medical Center		Victoria Mall	
	Cargo Transport	Service Vehicle	Cargo Transport	Service Vehicle	Cargo Transport	Service Vehicle
Base Location/Return to Base Location	-	-	-	-	2	-
Delivery	1	-	11	-	8	-
Pick-Up	-	-	1	-	1	2
Delivery and Pick-Up	-	-	1	-	2	-
Maintenance	-	2	-	-	-	-
Driver Needs (lunch, etc.)	-	-	-	-	-	-
To Home	-	-	-	-	-	-
Buy Gas/Fuel	-	-	-	-	-	-
Other	-	-	-	-	-	-
Refused/Unknown	-	-	-	-	-	-
<b>Total</b>	<b>1</b>	<b>2</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>2</b>

**Table 42. CV Survey Types of Place at Trip Origins and Destinations.**

Type of Place	Victoria College		Citizens Medical Center		Victoria Mall	
	Origin	Destination	Origin	Destination	Origin	Destination
Office Building	1	-	-	1	-	-
Retail/Shopping	1	-	-	-	6	7
Industrial/Manufacturing	-	-	1	-	-	-
Medical/Hospital	-	-	1	4	-	-
Education (12th grade or less)	-	-	-	2	-	-
Education (College, Trade)	1	-	1	1	-	-
Government Office/Building	-	-	-	-	-	-
Residential	-	-	-	-	1	3
Airport	-	-	-	-	-	-
Intermodal Facility	-	-	1	-	-	-
Warehouse	-	-	7	3	4	-
Distribution Center	-	1	-	-	-	1
Other	-	2	1	1	3	4
Refused/Unknown	-	-	1	1	1	-
<b>Total</b>	<b>3</b>	<b>3</b>	<b>13</b>	<b>13</b>	<b>15</b>	<b>15</b>

**Table 43. CV Survey Delivery Cargo Types.**

Cargo Type	Victoria College		Citizens Medical Center		Victoria Mall	
	Number of Deliveries	Average Cargo Weight (lbs.)	Number of Deliveries	Average Cargo Weight (lbs.)	Number of Deliveries	Average Cargo Weight (lbs.)
Metals and Minerals	-	-	-	-	1	*
Food, Health, and Beauty Products	1	*	4	1,622	2	880
Textiles	-	-	-	-	4	1,019
Manufactured Goods/Equipment	-	-	-	-	2	800
Miscellaneous Shipments	-	-	-	-	1	*
Transportation	-	-	-	-	1	*
Unclassified Cargo	-	-	7	704	-	-
Driver Refused to Answer	-	-	1	60	-	-
Unknown to Driver	-	-	-	-	1	-
No Cargo Delivery/Pick-Up	2	NA	1	NA	3	NA
<b>Total</b>	<b>3</b>	<b>NA</b>	<b>13</b>	<b>957</b>	<b>15</b>	<b>598</b>

\*Not reported, NA - Not applicable.

**Table 44. CV Survey Pick Up Cargo Types.**

Cargo Type	Victoria College		Citizens Medical Center		Victoria Mall	
	Number of Pick Up	Average Cargo Weight (lbs.)	Number of Deliveries	Average Cargo Weight (lbs.)	Number of Deliveries	Average Cargo Weight (lbs.)
Wood Products	-	-	1	4,200	-	-
Textiles	-	-	-	-	1	*
Rubber, Plastic, Styrofoam	-	-	-	-	1	60,000
Manufactured Goods/Equipment	-	-	-	-	2	220
Transportation	-	-	-	-	-	-
Unclassified Cargo	-	-	1	300	-	-
Unknown to Driver	-	-	-	-	1	5
No Cargo Delivery/Pick-Up	3	NA	11	NA	10	NA
<b>Total</b>	<b>3</b>	<b>NA</b>	<b>13</b>	<b>2,250</b>	<b>15</b>	<b>20,075</b>

\*Not reported, NA - Not applicable.

## **DATA EXPANSION**

The expansion of work place and special generator survey data involved a series of procedures. This section provides a general description of the expansion process.

The full survey trip data were aggregated by site and then linked with the employment and count data collected from the establishment survey. The person and vehicle counts at each site were used to expand the survey trip data. The total trips were counted separately for employees and visitors at free-standing and non-freestanding establishments, and distinguished between residents and non-residents of the Victoria study area. The total trips were classified by purpose, both from the origin to the work place and from the work place to the next destination, and summed as person trips (all travel modes, including walking and bicycle trips) and auto-driver trips (all trips by drivers and passengers of cars, trucks, and vans, including commercial cargo transport and service vehicles) for each trip purpose category.

The survey employee trips were expanded first to estimate the total employee person trips and employee auto-driver trips by purpose. The process involved dividing the survey employee trips for each category purpose by the number of employee surveys and then multiplying this number by the total number of employees reported to be at work during the survey day. The expanded employee person/auto-driver trips were subtracted from the total person/vehicle count at the site to yield the total visitor person/auto-driver trips to the site.

The survey visitor person/auto-driver trips were used to establish the proportion of visitor trips for each trip purpose category. These percentages were applied to the total estimated visitor trips to yield the visitor person/auto-driver trips by purpose. The average visitor vehicle occupancy rates were based on the auto-driver mode of travel and were calculated for each trip purpose. These occupancy rates were used to convert the expanded visitor person trips to auto-driver trips, or visitor auto-driver trips to person trips, depending on whether a vehicle count or a person count was conducted at the site.

After the data were expanded for each site, the results were aggregated by employment type and area type. The results from the full survey sites were then used to estimate the number of employee and visitor trips by purpose and employment type at the partial survey sites. The person and vehicle counts at each partial survey site were used to expand the trip estimates. Table 45 provides the work place survey data summary by area and employment types.

**Table 45. Work Place Survey Data Summary by Area Type and Employment Type.**

<b>Area Type</b>	<b>Item</b>	<b>Basic</b>	<b>Retail</b>	<b>Service</b>	<b>Education</b>	<b>Total</b>
<b>CBD</b>	Number of sites	1	-	1	-	2
	Total employment	3	-	14	-	17
	Employees at work	2	-	9	-	11
	Total person count	52	-	488	-	540
	Total vehicle count	45	-	382	-	427
	Total CV count	-	-	2	-	2
<b>Urban</b>	Number of sites	20	41	40	12	113
	Total employment	397	767	417	635	2,216
	Employees at work	285	462	354	598	1,699
	Total person count	1,880	24,828	4,305	10,552	41,565
	Total vehicle count	1,749	18,255	3,648	7,670	31,322
	Total CV count	131	284	126	180	721
<b>Suburban</b>	Number of sites	10	22	25	16	73
	Total employment	227	564	356	1,115	2,262
	Employees at work	196	375	263	1,071	1,905
	Total person count	1,884	19,447	2,880	16,628	40,839
	Total vehicle count	1,600	13,977	2,413	13,483	31,473
	Total CV count	68	144	108	159	479
<b>Rural</b>	Number of sites	6	6	2	7	21
	Total employment	62	55	28	250	395
	Employees at work	57	43	27	178	305
	Total person count	247	1,271	84	3,008	4,610
	Total vehicle count	228	918	71	1,986	3,203
	Total CV count	22	287	12	83	404
<b>Total</b>	<b>Number of sites</b>	<b>37</b>	<b>69</b>	<b>68</b>	<b>35</b>	<b>209</b>
	<b>Total employment</b>	<b>689</b>	<b>1,386</b>	<b>815</b>	<b>2,000</b>	<b>4,890</b>
	<b>Employees at work</b>	<b>540</b>	<b>880</b>	<b>653</b>	<b>1,847</b>	<b>3,920</b>
	<b>Total person count</b>	<b>4,063</b>	<b>45,546</b>	<b>7,757</b>	<b>30,188</b>	<b>87,554</b>
	<b>Total vehicle count</b>	<b>3,622</b>	<b>33,150</b>	<b>6,514</b>	<b>23,139</b>	<b>66,425</b>
	<b>Total CV count</b>	<b>221</b>	<b>715</b>	<b>248</b>	<b>422</b>	<b>1,606</b>

The expanded person and auto-driver trips by purpose, shown in Table 46 and Table 47 for each employment and area type category, were divided by the total employment (in Table 45) to develop the attraction rates (in Table 48 and Table 49). The total expanded trips do not include the external trips and “not first store” trips to the surveyed work places.

**Table 46. Work Place Survey Person Trips by Trip Purpose, Area Type, and Employment Type.**

Area Type	Basic					Total Person Trips
	HBW Attractions	HBNW Attractions	NHB-D	NHB-O	NON-RES	
CBD	8	10	10	12	7	47
Urban	605	470	209	367	168	1,819
Suburban	247	214	431	427	340	1,659
Rural	152	0	0	67	28	247
<b>Total</b>	<b>1,012</b>	<b>694</b>	<b>650</b>	<b>873</b>	<b>543</b>	<b>3,772</b>
Area Type	Retail					Total Person Trips
	HBW Attractions	HBNW Attractions	NHB-D	NHB-O	NON-RES	
CBD	0	0	0	0	0	0
Urban	680	10,902	2,778	4,554	5,916	24,830
Suburban	1,175	10,163	2,159	2,557	3,391	19,445
Rural	358	408	61	0	444	1,271
<b>Total</b>	<b>2,213</b>	<b>21,473</b>	<b>4,998</b>	<b>7,111</b>	<b>9,751</b>	<b>45,546</b>
Area Type	Service					Total Person Trips
	HBW Attractions	HBNW Attractions	NHB-D	NHB-O	NON-RES	
CBD	22	286	24	90	46	468
Urban	489	2,171	240	759	450	4,109
Suburban	373	1,546	61	509	346	2,835
Rural	14	16	0	29	26	85
<b>Total</b>	<b>898</b>	<b>4,019</b>	<b>325</b>	<b>1,387</b>	<b>868</b>	<b>7,497</b>
Area Type	Education					Total Person Trips
	HBW Attractions	HBNW Attractions	NHB-D	NHB-O	NON-RES	
CBD	0	0	0	0	0	0
Urban	692	6,397	1,601	1,276	586	10,552
Suburban	1,572	10,097	1,663	2,495	788	16,615
Rural	262	1,811	388	401	145	3,007
<b>Total</b>	<b>2,526</b>	<b>18,305</b>	<b>3,652</b>	<b>4,172</b>	<b>1,519</b>	<b>30,174</b>

**Table 47. Work Place Survey Auto-Driver Trips by Trip Purpose, Area Type, and Employment Type.**

Area Type	Basic					Total Auto-Driver Trips
	HBW Attractions	HBNW Attractions	NHB-D	NHB-O	NON-RES	
CBD	7	9	9	10	6	41
Urban	527	458	200	356	150	1,691
Suburban	217	189	370	366	263	1,405
Rural	138	0	0	67	23	228
<b>Total</b>	<b>889</b>	<b>656</b>	<b>579</b>	<b>799</b>	<b>442</b>	<b>3,365</b>
Area Type	Retail					Total Auto-Driver Trips
	HBW Attractions	HBNW Attractions	NHB-D	NHB-O	NON-RES	
CBD	0	0	0	0	0	0
Urban	661	7,895	2,030	3,343	4,326	18,255
Suburban	952	7,285	1,519	1,811	2408	13,975
Rural	265	288	43	0	322	918
<b>Total</b>	<b>1,878</b>	<b>15,468</b>	<b>3,592</b>	<b>5,154</b>	<b>7,056</b>	<b>33,148</b>
Area Type	Service					Total Auto-Driver Trips
	HBW Attractions	HBNW Attractions	NHB-D	NHB-O	NON-RES	
CBD	19	222	18	71	37	367
Urban	447	1,837	204	637	356	3,481
Suburban	354	1,256	49	419	299	2,377
Rural	12	12	0	26	21	71
<b>Total</b>	<b>832</b>	<b>3,327</b>	<b>271</b>	<b>1,153</b>	<b>713</b>	<b>6,296</b>
Area Type	Education					Total Auto-Driver Trips
	HBW Attractions	HBNW Attractions	NHB-D	NHB-O	NON-RES	
CBD	0	0	0	0	0	0
Urban	622	4,497	1,164	914	472	7,669
Suburban	1,452	8,002	1,350	1,979	686	13,469
Rural	252	1,117	244	267	105	1,985
<b>Total</b>	<b>2,326</b>	<b>13,616</b>	<b>2,758</b>	<b>3,160</b>	<b>1,263</b>	<b>23,123</b>

Table 48 and Table 49 show the survey person and auto-driver trip attraction rates by purpose for each employment category and area type, respectively. The NHB trips represented the average of NHB origin and destination trips. The NON-RES trips were divided by two to develop a rate for non-resident trip attractions. The external trips were removed from the analysis because these trips were estimated using the external survey and input to the travel demand model directly.

**Table 48. Work Place Survey Person Trip Attraction Rates.**

Trip Purpose	Area Type	Person Trips Per Employee			
		Basic	Retail	Service	Education
HBW	CBD	2.532	0.000	1.565	0.000
	Urban	1.523	0.886	1.172	1.089
	Suburban	1.086	2.083	1.049	1.410
	Rural	2.460	6.510	0.500	1.048
HBNW Retail	CBD		0.000		
	Urban		14.214		
	Suburban		18.020		
	Rural		7.413		
HBNW Other	CBD	3.358		20.442	
	Urban	1.184		5.205	
	Suburban	0.942		4.342	
	Rural	0.000		0.554	
HBNW School	CBD				0.000
	Urban				10.075
	Suburban				9.055
	Rural				7.245
NHB	CBD	3.607	0.000	4.081	0.000
	Urban	0.725	4.780	1.198	2.266
	Suburban	1.890	4.181	0.801	1.865
	Rural	0.537	0.559	0.509	1.578
NON-RES	CBD	1.244	0.000	1.633	0.000
	Urban	0.212	3.857	0.540	0.462
	Suburban	0.748	3.007	0.486	0.354
	Rural	0.226	4.038	0.465	0.290

Note: Attraction rates represent observed rates.

**Table 49. Work Place Survey Auto-Driver Trip Attraction Rates.**

Trip Purpose	Area Type	Auto-Driver Trips Per Employee			
		Basic	Retail	Service	Education
HBW	CBD	2.254	0.000	1.373	0.000
	Urban	1.326	0.862	1.073	0.980
	Suburban	0.958	1.688	0.995	1.303
	Rural	2.218	4.814	0.500	1.007
HBNW Retail	CBD		0.000		
	Urban		10.293		
	Suburban		12.917		
	Rural		5.240		
HBNW Other	CBD	2.858		15.822	
	Urban	1.155		4.406	
	Suburban	0.833		3.529	
	Rural	0.000		0.554	
HBNW School	CBD				0.000
	Urban				7.082
	Suburban				7.177
	Rural				4.467
NHB	CBD	3.070	0.000	3.182	0.000
	Urban	0.701	3.502	1.009	1.637
	Suburban	1.620	2.952	0.658	1.493
	Rural	0.537	0.392	0.509	1.024
NON-RES	CBD	1.059	0.000	1.313	0.000
	Urban	0.189	2.820	0.427	0.372
	Suburban	0.579	2.135	0.421	0.308
	Rural	0.226	2.927	0.465	0.210

Note: Attraction rates represent observed rates.

The CV counts taken at each site were aggregated by area type and employment type, and then divided by the total employment, and then divided by two to develop a trip attraction rate for CV travel. Table 50 shows the survey CV trip attraction rates.

**Table 50. Work Place Survey CV Trip Attraction Rates.**

Area Type	CV Trips Per Employee			
	Basic	Retail	Service	Education
CBD	0.000	0.000	0.143	0.000
Urban	0.330	0.370	0.302	0.283
Suburban	0.300	0.255	0.303	0.143
Rural	0.355	5.218	0.429	0.332

Note: Attraction rates represent observed rates.

Table 51 shows the expanded survey trip attractions and attraction rates by purpose for each Victoria study area special generator. The expansion procedures used were similar to the full work place survey sites. The attraction rates were developed by dividing the expanded trips by purpose by the total employment at the special generator. The external trips were removed from the analysis. The NHB trips represented the average of the NHB origin and destination trips. The NON-RES trips were divided by two to develop a rate for non-resident trip attractions. The CV count at the special generator was divided by two to develop a rate for CV trip attractions.

**Table 51. Special Generator Survey Person and Auto-Driver Trip Attractions and Rates.**

Trip Purpose	Victoria College/UH of Victoria			
	Total Person Trips	Person Trips Per Employee	Total Auto-Driver Trips	Auto-Driver Trips Per Employee
HBW	426	1.419	385	1.283
HBNW	4,951	16.502	3,783	12.610
NHB	738	2.459	577	1.923
NON-RES	964	3.212	724	2.413
CV Trips	49	0.162	49	0.163
<b>Total</b>	<b>7,128</b>	<b>23.754</b>	<b>5,518</b>	<b>18.392</b>
Trip Purpose	Citizens Medical Center			
	Total Person Trips	Person Trips Per Employee	Total Auto-Driver Trips	Auto-Driver Trips Per Employee
HBW	946	0.728	785	0.604
HBNW	5,517	4.244	3,991	3.070
NHB	1,041	0.801	804	0.618
NON-RES	1,434	1.103	1,065	0.819
CV Trips	77	0.059	77	0.059
<b>Total</b>	<b>9,015</b>	<b>6.935</b>	<b>6,722</b>	<b>5.170</b>
Trip Purpose	Victoria Mall			
	Total Person Trips	Person Trips Per Employee	Total Auto-Driver Trips	Auto-Driver Trips Per Employee
HBW	1,457	1.619	1,275	1.417
HBNW	8,100	9.000	6,259	6.954
NHB	2,125	2.361	1,660	1.844
NON-RES	2,142	2.380	1,542	1.713
CV Trips	144	0.160	144	0.160
<b>Total</b>	<b>13,968</b>	<b>15.520</b>	<b>10,880</b>	<b>12.088</b>
Trip Purpose	Invista/Dupont Plant*			
	Total Person Trips	Person Trips Per Employee	Total Auto-Driver Trips	Auto-Driver Trips Per Employee
HBW	1,221	1.221	1,069	1.069
HBNW	1,410	1.410	1,229	1.229
NHB	1,107	1.107	959	0.959
NON-RES	230	0.230	198	0.198
CV Trips	183	0.183	183	0.183
<b>Total</b>	<b>4,151</b>	<b>4.151</b>	<b>3,638</b>	<b>3.638</b>

\* Partial survey site. The total trip attractions and rates were developed using the trip data attributes from the work place surveys at Basic establishments.

## 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 attractions per employee, were developed for each trip purpose, area type, and employment type. The NHB origin and destination trips were combined and divided by two to develop an attraction rate for NHB trips. The NON-RES trips were divided by two to develop an attraction rate for non-resident travel.

Table 52 and Table 53 show the total person and auto-driver vehicle trip attraction rates by purpose and employment type for all area types, as calculated from the survey trip data, respectively. The next step in model rate development involved applying the survey attraction rates to the overall employment estimates for the study area. Table 54 provides the 2012 employment estimates for the Victoria study area that was used to estimate the total trip attractions and to develop the attraction rates by employment type and area type.

**Table 52. Work Place Survey Total Person Trip Attraction Rates.**

<b>Employment Type</b>	<b>HBW</b>	<b>HBNW</b>	<b>NHB</b>	<b>NON-RES</b>
Basic	1.468	1.007	1.105	0.395
Retail	1.596	15.493	4.369	3.518
Service	1.102	4.930	1.050	0.533
Education	1.263	9.153	1.956	0.380

**Table 53. Work Place Survey Total Auto-Driver Trip Attraction Rates.**

<b>Employment Type</b>	<b>HBW</b>	<b>HBNW</b>	<b>NHB</b>	<b>NON-RES</b>
Basic	1.289	0.952	0.999	0.321
Retail	1.355	11.160	3.155	2.546
Service	1.021	4.082	0.875	0.438
Education	1.163	6.808	1.480	0.316

**Table 54. Total Employment in Victoria County by Employment Type and Area Type.**

Area Type	Total Employment				Total
	Basic	Retail	Service	Education	
CBD	57	41	2,181	2	2,281
Urban	3,134	4,433	5,774	554	13,895
Suburban	5,822	2,566	2,846	703	11,937
Rural	2,796	421	1,214	355	4,786
<b>Total</b>	<b>11,809</b>	<b>7,461</b>	<b>12,015</b>	<b>1,614</b>	<b>32,899</b>

Source: Victoria MPO Employment Estimates, 2012.

Table 55 and Table 56 show the estimated total person and auto-driver trip attractions to Victoria County by employment type and trip purpose, respectively.

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

Employment Type	HBW	HBNW	NHB	NON-RES	Total
Basic	17,336	11,892	13,043	4,659	46,930
Retail	11,908	115,593	32,593	26,248	186,342
Service	13,241	59,234	12,616	6,398	91,489
Education	2,038	14,773	3,157	614	20,582
<b>Total</b>	<b>44,523</b>	<b>201,492</b>	<b>61,409</b>	<b>37,919</b>	<b>345,343</b>

**Table 56. Total Auto-Driver Trip Attractions by Employment Type and Trip Purpose.**

Employment Type	HBW	HBNW	NHB	NON-RES	Total
Basic	15,222	11,242	11,797	3,791	42,052
Retail	10,110	83,265	23,536	18,992	135,903
Service	12,267	49,045	10,507	5,257	77,076
Education	1,877	10,988	2,389	509	15,763
<b>Total</b>	<b>39,476</b>	<b>154,540</b>	<b>48,229</b>	<b>28,549</b>	<b>270,794</b>

Table 57 shows the CV trip attraction rates and total CV vehicle attractions by employment type.

**Table 57. Work Place Survey CV Trip Attraction Rates and Total Trip Attractions by Employment Type.**

<b>Employment Type</b>	<b>Total CV Trips Per Employee</b>	<b>Total CV Trip Attractions</b>
Basic	0.321	3,788
Retail	0.516	3,849
Service	0.304	3,653
Education	0.211	340
<b>All Employment Types</b>	<b>1.352</b>	<b>11,630</b>

The total trip attractions estimated from the work place survey were then compared with the estimated total trip productions from the household survey and CV survey. Table 58 provides a summary of the trip estimates from the travel surveys conducted in the Victoria study area. The results showed significant differences between the number of HBNW retail trips from the work place survey and the household survey. The work place survey sample included big box retail establishments that generated high volumes of person and vehicle counts during the survey day. The HBNW trips at education facilities and NHB trips from the household survey were higher than the work place survey trip estimates. The estimates of CV trips from the work place survey were approximately 24 percent of the total trip estimates from the CV survey.

**Table 58. Travel Estimates from the Victoria Travel Surveys.**

<b>Trip Purpose</b>	<b>Work Place Survey</b>		<b>Household Survey</b>		<b>CV Survey</b>
	<b>Person Trips</b>	<b>Auto-Driver Trips</b>	<b>Person Trips</b>	<b>Auto- Driver Trips</b>	<b>Vehicle Trips</b>
HBW	44,523	39,476	35,521	33,088	-
HBNW Retail	115,593	83,265	57,001	40,940	-
HBNW Other	71,126	60,287	63,658	44,429	-
HBNW Education (K to 12)	14,773	10,988	64,331	31,961	-
NHB	61,409	48,229	108,154	79,360	-
NON-RES	37,919	28,549	-	-	-
All Purposes	345,343	270,794	328,665	229,778	-
CV Trips	-	11,630	-	-	48,838

The attraction rates by trip purpose from the work place survey required further adjustments to balance the aggregate estimates of trip attractions with the aggregate estimates of trip productions from the household survey and CV survey. The balancing factors for HBW and HBNW person/auto-driver trips were calculated by dividing the number of person/auto-driver trips from the household survey with the number of person/auto-driver 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 the total NHB trips from the household survey.

The NON-RES trips from the work place survey were calculated, summed, and divided by the total employment. The resulting rates were applied to the employment data to develop an estimate of the total internal trips made by persons that did not live in the study area. The total non-resident trips from the Victoria work place survey, when converted to trip productions and attractions, yield an estimate of 37,919 person trips and 28,549 auto-driver trips. These estimates are recommended for use in the travel demand model for non-resident travel.

Table 59 and Table 60 show the work place survey person and auto-driver trip attraction rates, with cell adjustments, by area type for each trip purpose and employment type category, respectively. It is important to note that the survey design only sampled by employment type with no strata for area type. The actual survey sample did not represent the CBD and was low in the rural area types, hence resulting in sizable differences in the trip estimates across area types. This situation was addressed by performing cell adjustments to develop more reasonable trip rates across area types. The average attraction rates developed for each category of employment were applied in the CBD where no surveys were conducted. Since the number of surveys in the rural areas for basic, retail, and service employment were deemed quite low compared with the suburban areas, cell adjustments were performed by combining the trip observations for the suburban and rural areas.

Table 61 and Table 62 show the balanced person and auto-driver trip production/attraction rates, by area type for each trip purpose and employment type category. Table 63 and Table 64 show the balanced total trip production/attraction rates by employment category and trip purpose. Table 65 and Table 66 show the balanced total trip productions/attractions by employment category and trip purpose. The attraction rates used in the estimation of the balanced total trip productions/attractions were in full significant digits.

**Table 59. Work Place Survey Adjusted Person Trip Attraction Rates.**

Trip Purpose	Area Type	Person Trips Per Employee			
		Basic	Retail	Service	Education
HBW	CBD	1.519	1.669	1.100	1.308
	Urban	1.575	0.926	1.170	1.127
	Suburban	1.429	2.589	1.007	1.460
	Rural	1.429	2.589	1.007	1.085
HBNW Retail	CBD		15.619		
	Urban		14.330		
	Suburban		17.217		
	Rural		17.217		
HBNW Other	CBD	1.175		5.096	
	Urban	1.400		5.380	
	Suburban	0.863		4.201	
	Rural	0.863		4.201	
HBNW School	CBD				9.301
	Urban				10.238
	Suburban				9.202
	Rural				7.362
NHB	CBD	0.896	4.329	1.071	1.974
	Urban	0.592	4.734	1.219	2.276
	Suburban	1.292	3.827	0.798	1.888
	Rural	1.292	3.827	0.798	1.591
NON-RES	CBD	0.298	3.485	0.545	0.383
	Urban	0.160	3.821	0.553	0.466
	Suburban	0.480	3.069	0.496	0.357
	Rural	0.480	3.069	0.496	0.293

Note: Attraction rates represent trip rates after cell combinations and adjustments. The CBD trip rates were adjusted using the overall average attraction rates developed for each employment category.

**Table 60. Work Place Survey Adjusted Auto-Driver Trip Attraction Rates.**

Trip Purpose	Area Type	Auto-Driver Trips Per Employee			
		Basic	Retail	Service	Education
HBW	CBD	1.325	1.406	1.019	1.200
	Urban	1.363	0.894	1.071	1.011
	Suburban	1.262	2.038	0.950	1.345
	Rural	1.262	2.038	0.950	1.039
HBNW Retail	CBD		11.245		
	Urban		10.372		
	Suburban		12.329		
	Rural		12.329		
HBNW Other	CBD	1.148		4.192	
	Urban	1.393		4.525	
	Suburban	0.790		3.392	
	Rural	0.790		3.392	
HBNW School	CBD				7.078
	Urban				7.363
	Suburban				7.462
	Rural				4.644
NHB	CBD	0.832	3.121	0.879	1.523
	Urban	0.587	3.463	1.008	1.677
	Suburban	1.150	2.697	0.653	1.540
	Rural	1.150	2.697	0.748	1.053
NON-RES	CBD	0.250	2.519	0.450	0.316
	Urban	0.147	2.790	0.439	0.381
	Suburban	0.385	2.182	0.429	0.315
	Rural	0.385	2.182	0.429	0.215

Note: Attraction rates represent trip rates after cell combinations and adjustments. The CBD trip rates were adjusted using the overall average attraction rates developed for each employment category.

**Table 61. Balanced Person Trip Production/Attraction Rates.**

Trip Purpose	Area Type	Person Trips Per Employee			
		Basic	Retail	Service	Education
HBW	CBD	1.212	1.331	0.846	1.035
	Urban	1.257	0.739	0.900	0.893
	Suburban	1.140	2.065	0.868	1.156
	Rural	1.140	2.065	0.868	0.893
HBNW Retail	CBD		7.702		
	Urban		7.066		
	Suburban		8.490		
	Rural		8.490		
HBNW Other	CBD	1.051		5.704	
	Urban	1.253		6.022	
	Suburban	0.772		4.703	
	Rural	0.772		4.703	
HBNW School	CBD				40.503
	Urban				44.583
	Suburban				40.070
	Rural				32.060
NHB	CBD	1.578	7.624	1.887	3.477
	Urban	1.042	8.337	2.148	4.009
	Suburban	2.276	6.740	1.405	3.325
	Rural	2.276	6.740	1.405	2.801
NON-RES	CBD	0.298	3.485	0.595	0.383
	Urban	0.160	3.821	0.729	0.466
	Suburban	0.480	3.069	0.666	0.357
	Rural	0.480	3.069	0.496	0.293

Note: Attraction rates represent balanced and adjusted rates to match trip production estimates from the 2010 Victoria Household Travel Survey.

**Table 62. Balanced Auto-Driver Trip Production/Attraction Rates.**

Trip Purpose	Area Type	Auto-Driver Trips Per Employee			
		Basic	Retail	Service	Education
HBW	CBD	1.110	1.209	0.854	1.006
	Urban	1.142	0.719	0.898	0.848
	Suburban	1.058	1.754	0.797	1.127
	Rural	1.058	1.754	0.797	0.871
HBNW Retail	CBD		5.529		
	Urban		5.100		
	Suburban		6.062		
	Rural		6.062		
HBNW Other	CBD	0.846		3.090	
	Urban	1.027		3.335	
	Suburban	0.582		2.500	
	Rural	0.582		2.500	
HBNW School	CBD				20.589
	Urban				21.418
	Suburban				21.705
	Rural				13.509
NHB	CBD	1.369	5.135	1.446	2.506
	Urban	0.966	5.698	1.659	2.760
	Suburban	1.892	4.438	1.075	2.534
	Rural	1.892	4.438	1.231	1.732
NON-RES	CBD	0.250	2.519	0.450	0.323
	Urban	0.147	2.790	0.439	0.381
	Suburban	0.385	2.182	0.429	0.315
	Rural	0.385	2.182	0.429	0.215

Note: Attraction rates represent balanced and adjusted rates to match trip production estimates from the 2010 Victoria Household Travel Survey.

**Table 63. Balanced Total Person Trip Production/Attraction Rates.**

Employment Type	HBW	HBNW	NHB	NON-RES
Basic	1.171	0.901	1.945	0.395
Retail	1.273	7.640	7.694	3.518
Service	0.879	5.518	1.849	0.666
Education	1.008	39.858	3.445	0.380

**Table 64. Balanced Total Auto-Driver Trip Production/Attraction Rates.**

Employment Type	HBW	HBNW	NHB	NON-RES
Basic	1.080	0.702	1.644	0.321
Retail	1.136	5.487	5.191	2.546
Service	0.856	3.762	1.439	0.547
Education	0.975	19.803	2.435	0.316

**Table 65. Balanced Total Person Trip Productions/Attractions by Employment Type and Trip Purpose.**

Employment Type	HBW	HBNW	NHB	NON-RES
Basic	13,831	10,643	22,971	4,659
Retail	9,500	57,001	57,404	26,248
Service	10,564	53,015	22,219	6,398
Education	1,626	64,331	5,560	614
<b>Total</b>	<b>35,521</b>	<b>184,990</b>	<b>108,154</b>	<b>37,919</b>

**Table 66. Balanced Total Auto-Driver Trip Productions/Attractions by Employment Type and Trip Purpose.**

Employment Type	HBW	HBNW	NHB	NON-RES
Basic	12,759	8,285	19,412	3,791
Retail	8,474	40,940	38,728	18,992
Service	10,282	45,205	17,289	5,257
Education	1,573	31,961	3,931	509
<b>Total</b>	<b>33,088</b>	<b>126,391</b>	<b>79,360</b>	<b>28,549</b>

Table 67 shows the work place survey CV attraction rates, with cell adjustments, by area type for each employment and trip purpose category. The CBD rates were developed using the overall average attraction rate for each employment category.

**Table 67. Work Place Survey Adjusted CV Trip Attraction Rates.**

Area Type	Basic	Retail	Service	Education
CBD*	0.321	0.516	0.304	0.211
Urban	0.330	0.370	0.302	0.283
Suburban	0.311	0.696	0.313	0.143
Rural	0.311	0.696	0.313	0.332
<b>All Area Types</b>	<b>0.321</b>	<b>0.516</b>	<b>0.304</b>	<b>0.211</b>

Note: Attraction rates represent trip rates after cell combinations and adjustments.

\* The CBD rates represent the overall average attraction rate for each employment category.

Table 68 shows the adjusted and balanced CV trip attraction rates by area type and employment type, including household. The CV rates per household were held constant across area types. Trip balancing was performed to match the CV trip estimates from the work place survey with the CV trip estimates from the 2010 Victoria Commercial Vehicle Survey. Table 69 provides the balanced total CV attractions by area type and employment type.

**Table 68. Adjusted and Balanced CV Trip Attractions Rates.**

Area Type	Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee	Per Household
CBD	1.367	2.229	1.268	0.803	0.246
Urban	1.405	1.599	1.261	1.078	0.246
Suburban	1.326	3.007	1.304	0.544	0.246
Rural	1.326	3.007	1.304	1.264	0.246
<b>All Area Types</b>	<b>1.347</b>	<b>2.166</b>	<b>1.277</b>	<b>0.886</b>	<b>0.246</b>

Note: Attraction rates represent balanced and adjusted rates to match total CV trip estimates from the 2010 Victoria Commercial Vehicle Survey.

**Table 69. Adjusted and Balanced Total CV Trip Attractions.**

<b>Area Type</b>	<b>Basic</b>	<b>Retail</b>	<b>Service</b>	<b>Education</b>	<b>Total</b>
CBD	78	91	2,766	2	2,937
Urban	4,403	7,089	7,278	597	19,367
Suburban	7,719	7,716	3,711	383	19,529
Rural	3,707	1,266	1,583	449	7,005
<b>All Area Types</b>	<b>15,907</b>	<b>16,162</b>	<b>15,338</b>	<b>1,431</b>	<b>48,838</b>

Table 70 and Table 71 show the recommended person and auto-driver trip attraction rates to be used as data inputs to the Victoria travel demand model. These rates represent adjusted, balanced, and smoothed data.

**Table 70. Recommended Person Trip Attraction Rates.**

Trip Purpose	Area Type	Person Trips				
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee	Per Household
HBW	CBD	1.166	1.127	0.942	1.099	0.050
	Urban	1.060	1.080	0.903	1.021	0.050
	Suburban	1.208	1.690	0.824	1.001	0.050
	Rural	1.219	1.408	0.785	1.000	0.050
HBNW Retail	CBD	7.706				
	Urban	7.300				
	Suburban	8.314				
	Rural	7.098				
HBNW Other	CBD	0.985		5.894		0.591
	Urban	0.942		5.993		0.591
	Suburban	0.900		4.859		0.591
	Rural	0.857		4.133		0.591
HBNW School	CBD	39.858				
	Urban	42.307				
	Suburban	39.389				
	Rural	36.958				
NHB	CBD	1.965	7.515	1.966	3.445	0.182
	Urban	1.956	7.911	2.126	3.934	0.182
	Suburban	1.990	7.416	1.488	3.263	0.182
	Rural	1.839	7.120	1.169	3.042	0.182
NON-RES	CBD	0.439	3.504	0.763	0.380	
	Urban	0.351	3.825	0.695	0.423	
	Suburban	0.439	3.073	0.635	0.377	
	Rural	0.351	3.003	0.429	0.317	

Note: Recommended attraction rates represent adjusted, balanced, and smoothed rates to match the trip production estimates from the 2010 Victoria Household Travel Survey.

**Table 71. Recommended Auto-Driver Trip Attraction Rates.**

Trip Purpose	Area Type	Auto-Driver Trips				
		Per Basic Employee	Per Retail Employee	Per Service Employee	Per Education Employee	Per Household
HBW	CBD	1.152	1.119	0.864	1.032	0.044
	Urban	1.048	1.068	0.862	1.001	0.044
	Suburban	1.113	1.272	0.765	0.987	0.044
	Rural	1.048	1.017	0.653	0.910	0.044
HBNW Retail	CBD	5.576				
	Urban	5.143				
	Suburban	6.113				
	Rural	5.285				
HBNW Other	CBD	0.734		3.090		0.360
	Urban	0.891		3.336		0.360
	Suburban	0.694		2.501		0.360
	Rural	0.505		2.494		0.360
HBNW School	CBD	19.803				
	Urban	19.978				
	Suburban	20.246				
	Rural	18.656				
NHB	CBD	1.527	5.160	1.470	2.435	0.123
	Urban	1.639	5.725	1.687	2.761	0.123
	Suburban	1.867	4.460	1.093	2.535	0.123
	Rural	1.188	4.019	1.017	1.732	0.123
NON-RES	CBD	0.361	2.519	0.473	0.316	
	Urban	0.316	2.790	0.463	0.354	
	Suburban	0.347	2.182	0.421	0.304	
	Rural	0.271	2.182	0.294	0.278	

Note: Recommended attraction rates represent adjusted, balanced, and smoothed rates to match the trip production estimates from the 2010 Victoria Household Travel Survey.

## **SURVEY SUMMARY**

The TxDOT TPP Division funded the Victoria work place and special generator surveys in 2011. The surveys collected data on the travel characteristics of employees and non-employees at industrial, retail, service, and education establishments. These data are used for updating and forecasting travel demand within the Victoria urban area.

The work place survey consisted of four data collection efforts, which involved a general establishment survey, an intercept interview survey, a person or vehicle count, and a CV 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 2,204, of which 82 percent were reported to be at work during the travel survey day. A total of 453 employees and 302 non-employees/visitors participated in the intercept interviews. The partial survey sites consisted of 109 establishments, with total reported employment of 4,698, of which 78 percent were reported to be at work during the survey day. The partial sites did not include intercept interview surveys. The survey findings indicated that approximately 87,554 persons and 66,424 non-CVs were traveling to and from the surveyed establishments during the travel survey period. There were 1,606 CVs counted at the surveyed establishments during their normal operating hours.

The special generator survey consisted of Victoria College/UH of Victoria, Citizens Medical Center, Victoria Mall, and Invista/Dupont Plant. The data collection efforts for the special generator survey were similar to the work place survey.

The expansion of work place and special generator survey data involved a series of procedures to develop the trip rate estimates for each trip purpose category based on employment and count data. In the final analysis, the aggregate estimates of trip attractions from the 2011 Victoria Work Place Survey were compared with the aggregate estimates of trip productions from the 2010 Victoria Household Travel Survey. Adjustments and balancing factors were applied to match the total trip attractions with the total trip productions. The recommended trip attraction rates represent adjusted, balanced, and smoothed data.

The total non-resident trip attractions amounted to approximately 37,919 person trips and 28,549 auto-driver trips. The CV trip attraction rates were developed to match the total 48,838 internal trip estimates from the 2010 Victoria Commercial Vehicle Survey.

Adjustments made to the observed trip rates are highly sensitive to the amount of employment and distribution of employment. The 2012 Victoria MPO employment data was used as basis in developing the trip rates and estimating the total attractions. The recommended attraction rates presented in this report may require further adjustments during the calibration phase of the travel demand model for the Victoria study area using a more updated employment data.



**APPENDIX A:  
WORK PLACE TRAVEL SURVEY FORMS**



VICTORIA WORK PLACE RECRUITMENT SURVEY

Form G

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

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

**(If you have to call back, get):**

The manager or owner's name: \_\_\_\_\_

And, a good time to call back: \_\_\_\_\_

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

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

**If yes, continue. If NO, when can I call back?** \_\_\_\_\_

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

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

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

**If yes, ask:**

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

**(Name: \_\_\_\_\_).** Then ask the Preliminary Questions.

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

**If the answer is yes,**

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

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

**Victoria Workplace Recruitment Survey Form G - 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**).

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1. How many full and part time employees are located at your site? EMPLOYEES \_\_\_\_\_ #
2. On a typical week day, how many persons visit this location? VISITORS \_\_\_\_\_ #
3. On a typical week day, how many employees do you have working at this location? \_\_\_\_\_ #
4. What are your hours of operation? FROM \_\_\_\_\_ am/pm, TO \_\_\_\_\_ am/pm
5. Are you in a shopping center or in an office building? \_\_\_\_\_  
If yes, are any other companies in the shopping center or office building?  
Yes No (circle one)
6. Does the building you are in have its own parking lot? Yes No (circle one)  
Is this parking shared between your business and other businesses? Yes No (circle one)  
Do people use your parking lot **or driveway** as a cut through to access other businesses?  
Yes No (circle one)
7. What time does your first employee arrive? \_\_\_\_\_:\_\_\_\_\_ am or \_\_\_\_\_:\_\_\_\_\_ pm
8. What time does your last employee leave? \_\_\_\_\_:\_\_\_\_\_ am or \_\_\_\_\_:\_\_\_\_\_ pm
9. How many deliveries are made at this location on an average day? \_\_\_\_\_ #
10. What are the delivery hours? FROM \_\_\_\_\_:\_\_\_\_\_ am/pm, TO \_\_\_\_\_:\_\_\_\_\_ am/pm
11. Do you have a special door for deliveries or for employees? Yes No (circle one)
12. How many vehicles are owned and/or leased by your company for business use in this area? \_\_\_\_\_ #

How many of these are:

- \_\_\_\_\_ passenger car or sport utility vehicle
- \_\_\_\_\_ pickup truck
- \_\_\_\_\_ van used for cargo delivery or pickup
- \_\_\_\_\_ van used as a service vehicle

If not one of the above categories, how many of these are:

- \_\_\_\_\_ cargo transport vehicles
- \_\_\_\_\_ vehicles used for service or other business purposes

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

**Victoria Workplace Recruitment Survey Form G - Continued**

CALL DISPOSITION LOG

Company Name: \_\_\_\_\_

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

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

**Record 9**

Survey Date: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

Site #: \_\_\_\_\_

NAICS Code: \_\_\_\_\_

TAZ #: \_\_\_\_\_

**VICTORIA 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): \_\_\_\_\_ Number of Deliveries on Day of Survey: \_\_\_\_\_

---

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

\_\_\_\_\_ Commercial Cargo Transport Vehicles \_\_\_\_\_ Commercial Service Vehicles

\_\_\_\_\_ Cars/SUVs \_\_\_\_\_ Cargo Vans \_\_\_\_\_ Service Vans \_\_\_\_\_ Pickup Trucks

**VICTORIA WORK PLACE  
INTERCEPT TRAVEL SURVEY  
Form B**

Free Standing Work Place

TAZ #: \_\_\_\_\_ Survey Area: \_\_\_\_\_

Site #: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Interviewer: \_\_\_\_\_

Employment Type: \_\_\_\_\_

Address: \_\_\_\_\_

Location: \_\_\_\_\_

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



**VICTORIA WORK PLACE  
INTERCEPT TRAVEL SURVEY  
Form C**

Non-Free Standing Work Place

TAZ #: \_\_\_\_\_ Survey Area: \_\_\_\_\_

Site #: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Interviewer: \_\_\_\_\_

Employment Type: \_\_\_\_\_

Address: \_\_\_\_\_

Location: \_\_\_\_\_

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





<u>Questions</u>	<u>Vehicle 1</u>	<u>Vehicle 2</u>
10. What is your reason for coming here today? (Choose from Trip Purpose Options below)	_____ (Trip Purpose Option #)	_____ (Trip Purpose Option #)
11a. What is the address of the last place you got into your vehicle? (Address or nearest two intersecting streets) 11b. What type of place was that location? (Choose from Type of Place Options below)	a. _____ _____ b. Type of Place Option # _____	a. _____ _____ b. Type of Place Option # _____
12a. Is that location in:  12b. If outside of Victoria County, what street or highway were you on when you entered the study area?	a. <input type="checkbox"/> Victoria County <input type="checkbox"/> Other county (enter name) _____ b. _____	a. <input type="checkbox"/> Victoria County <input type="checkbox"/> Other county (enter name) _____ b. _____
13. What was your purpose for being at that location? (Choose from Trip Purpose Options below)	_____ (Trip Purpose Option #)	_____ (Trip Purpose Option #)
14. What approximate time did you leave that location?	_____ am / _____ pm	_____ am / _____ pm
15a. What is the address of the place you will be going when you leave? (place/address or nearest intersection/city) 15b. What type of place is that location? (Choose from Type of Place Options below)	a. _____ _____ b. Type of Place Option # _____	a. _____ _____ b. Type of Place Option # _____
16a. Is that location in:  16b. If outside Victoria County, what street or highway will you be on when you leave the study area?	a. <input type="checkbox"/> Victoria County <input type="checkbox"/> Other county (enter name) _____ b. _____	a. <input type="checkbox"/> Victoria County <input type="checkbox"/> Other county (enter name) _____ b. _____
17. What is your purpose for traveling to your next destination? (Choose from Trip Purpose Options below)	_____ (Trip Purpose Option #)	_____ (Trip Purpose Option #)
18. Thank them for their time and participation.		

**Trip Purpose Options**

- |  |   |                     |
|--|---|---------------------|
| 1) Base location/Return to base location | 4) Delivery and Pick Up                 | 7) To home          |
| 2) Delivery                              | 5) Maintenance                          | 8) Buy gas/fuel     |
| 3) Pickup                                | 6) Driver Needs (lunch, restroom, etc.) | 9) Other (Specify)  |
|  |   | 99) Refused/Unknown |

**Type of Place Options**

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

VICTORIA COLLEGE/UH VICTORIA  
SPECIAL GENERATOR INTERCEPT SURVEY

Form B

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

TAZ #: \_\_\_\_\_ Survey Area: \_\_\_\_\_

Interviewer: \_\_\_\_\_

Location on Campus: \_\_\_\_\_

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



**VICTORIA MALL  
SPECIAL GENERATOR INTERCEPT SURVEY**

**Form B**

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

TAZ #: \_\_\_\_\_ Survey Area: \_\_\_\_\_

Interviewer: \_\_\_\_\_

Location at Mall: \_\_\_\_\_

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

Victoria Mall Special Generator Intercept Survey, Record SVM, Form B – Continued

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

**Victoria Medical Center**  
**SPECIAL GENERATOR INTERCEPT SURVEY**  
**Form B**

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

TAZ #: \_\_\_\_\_

Survey Area: \_\_\_\_\_

Interviewer: \_\_\_\_\_

Location at Health Care Center: \_\_\_\_\_

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

Victoria Medical Center Special Generator Intercept Survey, Record SMC, Form B – Continued

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

**APPENDIX B:  
ASCII FILE FORMATS**



## Victoria Work Place Recruitment Survey, Form G Format

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

### FIELD COLUMNS

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code indicating type of record. Here it should be RSV.
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. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Unique non-zero number assigned to each work place.
6. Name	17	66	Alphanum. LJ	A50	Name of establishment.
7. Address	67	116	Alphanum. LJ	A50	Address of establishment.
8. City	117	141	Alphanum. LJ	A25	City where establishment is located.
9. Employment Type	142	144	Numeric RJ	I3	Code indicating the type of employment at the work place. 1 - Basic; 2 - Retail; 3 - Service; 4 - Education; 5 - Other
10. Other Employment Type	145	174	Alphanum. LJ	A30	If employment type is coded as other, this field contains a description of the employment type.
11. Study Area	175	176	Alphanum. LJ	A2	Code indicating study area work place is located. C - Corpus Christi, V - Victoria
12. Zone	177	181	Numeric RJ	I5	Transportation analysis zone where work place is located.
13. Phone No.	182	191	Numeric RJ	I10	Phone number of work place
14. Number of Attempts	192	194	Numeric RJ	I3	Number of attempts made to contact work place
15. Call Disposition Code	195	196	Numeric RJ	I2	Code indicating results of call attempts. See code definitions.
16. Other Call Disposition	197	246	Alphanum. LJ	A50	If call disposition code is "other", this field contains a description of the call disposition.
17. Recruitment	247	248	Numeric RJ	I2	Code indicating results of recruitment attempts. 1 - Full Survey; 2 - Partial Survey; 3 - Refusal w/Data; 4 - Refusal w/No data.
18. Employment	249	254	Numeric RJ	I6	Total number of full and part time employees at this location.
19. No. Visitors	255	259	Numeric RJ	I5	Average number of visitors to work place during weekday.
20. No. Employees	260	264	Numeric RJ	I5	Average number of employees at work during weekday.
21. Begin Operations	265	269	Numeric RJ	I5	Normal time (military) operations begin at work place.
22. End Operations	270	274	Numeric RJ	I5	Normal time (military) operations end at work place.
23. Location Code	275	276	Numeric RJ	I2	Code indicating type of location. 1 - Shopping center or office building; 2 - Other
24. Others at Location	277	278	Numeric RJ	I2	Code indicating if other businesses are located at the same location. 1 - Yes; 2 - No
25. Parking	279	280	Numeric RJ	I2	Code indicating if work place has its own parking. 1 - Yes; 2 - No
26. Cut Thru Traffic	281	282	Numeric RJ	I2	Code indicating if traffic cuts through parking lot to access other businesses. 1 - Yes; 2 - No
27. Arrival Time	283	287	Numeric RJ	I5	Normal time of arrival for first employee.
28. Departure Time	288	292	Numeric RJ	I5	Normal time of departure for last employee.
29. Deliveries	293	295	Numeric RJ	I3	Number of deliveries on an average week day.
30. From Delivery Hours	296	300	Numeric RJ	I5	Beginning time for deliveries in military time.
31. To Deliver Hours	301	305	Numeric RJ	I5	Ending time for deliveries in military time.
32. Special Access	306	307	Numeric RJ	I2	Code indicating if special access is provided for deliveries or employees. 1 - Yes; 2 - No
33. Business Vehicles	308	314	Numeric RJ	I7	Number of vehicles owned or leased by work place for business purposes.

**Victoria Work Place Recruitment Survey, Form G Format – Continued.**

34. Cars / SUVs	315	319	Numeric RJ	15	Number of cars and SUVs owned or leased by work place for business purposes.
35. Pick-up Trucks	320	324	Numeric RJ	15	Number of pickup trucks owned or leased by work place for business purposes.
36. Cargo Vans	325	329	Numeric RJ	15	Number of vans owned or leased by work place used for delivery or pick up of cargo.
37. Service Vans	330	334	Numeric RJ	15	Number of vans owned or leased by work place used for commercial service or other purposes.
38. Cargo Vehicles	335	339	Numeric RJ	15	Number of cargo transport vehicles owned or leased by work place for business purposes that do not fall into the other categories.
39. Service Vehicles	340	344	Numeric RJ	15	Number of service vehicles owned or leased by work place for business purposes that do not fall into the other categories.

15. Call Disposition Codes

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

## Victoria Work Place General Survey, Form A Format

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

### FIELD COLUMNS

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

**Victoria Work Place General Survey, Form A Format – Continued.**

29. Service Vans	240	244	Numeric RJ	15	Number of vans owned or leased by work place for business service purposes.
30. Pickup Trucks	245	249	Numeric RJ	15	Number of pickup trucks owned or leased by work place for business purposes.
31. Cargo Transport Vehicles	250	254	Numeric RJ	15	Number of cargo transport vehicles owned or leased by work place for business purposes.
32. Service Vehicles	255	259	Numeric RJ	15	Number of service vehicles owned or leased by work place for business purposes.

8. Employment Type

1 - Office (Non-Government)	7 - Gov't/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-12th	11 - Bank/Financial Institution	
6 - Education - College, trade, other	12 - Manufacturing	

## Victoria Work Place Intercept Survey, Free Standing Workplace, Form B Format

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

### FIELD COLUMNS

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code which indicates the type of record. Here it should be V10.
2. Month	4	5	Numeric RJ	I2	Month workplace was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month workplace was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Unique non-zero number assigned to the establishment where these interviews were conducted.
6. Person Number	17	17	Numeric RJ	I1	Number of person being interviewed. This corresponds to the column number on the interview form.
7. Time Began	18	22	Numeric RJ	I5	Time interview began. Military time
8. Time Ended	23	27	Numeric RJ	I5	Time interview ended. Military time
9. Person Interviewed	28	29	Numeric RJ	I2	Code indicating if person being interviewed is an employee or a visitor. 1 - employee; 2 - visitor
10. Residence	30	54	Alphanum. LJ	A25	Name of city, county or country where person lives.
11. Residence Code	55	56	Numeric RJ	I2	Code indicating if residence is located outside the study area the work place is located. 1-Yes, 2-No, 99-Refused / Unknown.
12. Entry Road	57	86	Alphanum. LJ	A30	If person does not live in the study area the work place is located, this field should contain the name of the street/highway/bridge the person was on when they entered the study area the work place is located. If person stayed overnight, this field should be blank. Note that airport is a valid entry.
13. Study Area	87	88	Alphanum. LJ	A2	Code indicating study area where person entered. C - Corpus Christi study area, V - Victoria study area. If person lives in the same study area as the work place is located, this field should be blank.
14. Entry Zone	89	93	Numeric RJ	I5	Zone number associated with the street/highway/bridge person was on when they entered the study area the work place is located. If person lives in the study area the work place is located, this field should be blank.
15. Home Address	94	123	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
16. Intersecting Street	124	153	Alphanum. LJ	A30	If person gave nearest intersecting streets for their home address, this field should have the second street name, otherwise it is blank.
17. Longitude	154	163	Numeric RJ	F10.0	Longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
18. Latitude	164	173	Numeric RJ	F10.0	Latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
19. Zone Location	174	175	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address is not located in a study area but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank (i.e., address is out of Texas).

**Victoria Work Place Intercept Survey, Form B Format – Continued.**

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 – Nueces; 2 – San Patricio; 3 – Victoria; 96 - Other; 98 - Unknown; 99 - Refused.
24. Other Origin County	246	275	Alphanum. LJ	A30	If county origin/location is coded as "other", this field contains the name of the county or location.
25. Longitude	276	285	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
26. Latitude	286	295	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
27. Zone Location	296	297	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address not located in a county within these study areas, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
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. C - Corpus Christi study area, V - Victoria study area.
31. Entry External Zone	335	339	Numeric RJ	I5	If origin is outside the study area the work place is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.
32. Arrival Hour	340	342	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
33. Arrival Minute	343	345	Numeric RJ	I3	Minute person arrived at this site.
34. Mode	346	347	Numeric RJ	I2	Code indicating mode of travel to this location. See definitions below.
35. Other Mode	348	357	Alphanum. LJ	A10	If mode is coded "other", this field should contain a description of the mode given.
36. Number Persons	358	359	Numeric RJ	I2	If mode of travel was driver, passenger, taxi, commercial vehicle or motorcycle, this is the number of persons in the vehicle including the person being interviewed. This field is blank for all other modes.

**Victoria Work Place Intercept Survey, Form B Format – Continued.**

37. 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	Location of destination person is going.
42. Destination County	440	442	Numeric RJ	I3	Code indicating destination county/location: 1 – Nueces; 2 – San Patricio; 3 – Victoria; 96 - Other; 98 - Unknown; 99 - Refused.
43. Other Destination County	443	472	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
44. Destination Longitude	473	482	Numeric RJ	F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
45. Destination Latitude	483	492	Numeric RJ	F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas , this should be coded 999.9999. If unknown but in study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
46. Zone Location	493	494	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address is not in a study area, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
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 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. C - Corpus Christi study area, V - Victoria study area.
50. Exit External Zone	532	536	Numeric RJ	I5	If destination is outside the study area the work place is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.
51. Form Number	537	542	Numeric RJ	I6	Survey form number which contains raw survey data.

**Victoria Work Place Intercept Survey, Form B Format – Continued.**

34. Mode of Transportation Codes

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

38. Trip Purpose Codes

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

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

This file contains the travel data for employees and visitors surveyed at non-free standing work places using Form C, Intercept Travel Survey. The data are in an ASCII data file format.

### FIELD COLUMNS

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code which indicates the type of record. Here it should be V11.
2. Month	4	5	Numeric RJ	I2	Month workplace was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month workplace was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Unique non-zero number assigned to the work place where these interviews were conducted.
6. Person Number	17	17	Numeric RJ	I1	Number of person being interviewed. This corresponds to the column number on the interview form.
7. Time Began	18	22	Numeric RJ	I5	Time interview began. Military time
8. Time Ended	23	27	Numeric RJ	I5	Time interview ended. Military time
9. Person Interviewed	28	29	Numeric RJ	I2	Code indicating if person being interviewed is an employee or a visitor. 1 - employee; 2 - visitor
10. Residence	30	54	Alphanum. LJ	A25	Name of city, county or country where person lives.
11. Residence Code	55	56	Numeric RJ	I2	Code indicating if residence is located outside the study area the work place is located. 1-Yes, 2-No, 99-Refused / Unknown.
12. Entry Road	57	86	Alphanum. LJ	A30	If person does not live in the study area the work place is located, this field should contain the name of the street/highway/bridge the person was on when they entered the study area the work place is located. If person stayed overnight, this field should be blank. Note that airport is a valid entry.
13. Study Area	87	88	Alphanum. LJ	A2	Code indicating study area where person entered. C - Corpus Christi study area, V - Victoria study area. If person lives in the same study area as the work place is located, this field should be blank.
14. Entry Zone	89	93	Numeric RJ	I5	Zone number associated with the street/highway/bridge person was on when they entered the study area the work place is located. If person lives in study area, this field should be blank.
15. Home Address	94	123	Alphanum. LJ	A30	Address where person lives. If person gives nearest intersecting streets, this should be the first street name.
16. Intersecting Street	124	153	Alphanum. LJ	A30	If person gave nearest intersecting streets for their home address, this field should have the second street name, otherwise it is blank.
17. Longitude	154	163	Numeric RJ	F10.0	Longitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
18. Latitude	164	173	Numeric RJ	F10.0	Latitude of person's home address. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
19. Zone Location	174	175	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address is not located in a study area but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.

**Victoria Work Place Intercept Survey, Form C Format – Continued.**

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. Code indicating origin of trip; 1-Home, 2-Other.
21. Origin Code	181	182	Numeric RJ	I2	
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 – Nueces; 2 – San Patricio; 3 – Victoria; 96 - Other; 98 - Unknown; 99 - Refused.
24. Other Origin County	246	275	Alphanum. LJ	A30	If county origin/location is coded as "other", this field contains the name of the county or location.
25. Longitude	276	285	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
26. Latitude	286	295	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
27. Zone Location	296	297	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address not located in a county within the study area, but within Texas, this field should contain the Letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
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. C - Corpus Christi study area, V - Victoria study area.
31. Entry External Zone	335	339	Numeric RJ	I5	If origin is outside of the study area the work place is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area the work place is located.
32. Arrival Hour	340	342	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.
33. Arrival Minute	343	345	Numeric RJ	I3	Minute person arrived at this site.
34. Mode	346	347	Numeric RJ	I2	Code indicating mode of travel to this location. See definitions below.
35. Other Mode	348	357	Alphanum. LJ	A10	If mode is coded "other", this field should contain a description of the mode given.

**Victoria Work Place Intercept Survey, Form C Format – Continued.**

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 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. First Store	378	379	Numeric RJ	I2	Code indicating if this store/work place is the first visited in the location since arriving. 1 - Yes, 2 - No, 99 - Refused/Unknown.
41. Number Visited	380	381	Numeric RJ	I2	Number of stores/work places visited in this location including this establishment.
42. More Visits	382	383	Numeric RJ	I2	Number of additional stores/work places in this location person plans on visiting during this trip.
43. Depart Destination	384	385	Numeric RJ	I2	Code indicating destination when person departs from this site; 1-Home, 2-Other.
44. Destination Location	386	445	Alphanum. LJ	A60	Name & address of destination person is going.
45. Destination County	446	448	Numeric RJ	I3	Code indicating destination county/location: 1 – Nueces; 2 – San Patricio; 3 – Victoria; 96 - Other; 98 - Unknown; 99 - Refused.
46. Other Destination County	449	478	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
47. Destination Longitude	479	488	Numeric RJ	F10.0	Longitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
48. Destination Latitude	489	498	Numeric RJ	F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in the study area the work place is located, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
49. Zone Location	499	500	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address is not located in a county within these study areas, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
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. C - Corpus Christi study area, V - Victoria study area.
53. Exit External Zone	538	542	Numeric RJ	I5	If destination is outside the study area the work place is located, this field should contain the external station number associated with the bridge, street, or highway used to exit the study area the work place is located.
54. Form Number	543	548	Numeric RJ	I6	Survey form number which contains raw survey data.

**Victoria Work Place Intercept Survey, Form C Format – Continued.**

34. Mode of Transportation Codes

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

38. Trip Purpose Codes

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

## Victoria Work Place and Special Generator Commercial Vehicle Intercept Survey, Form D Format

This file contains the travel data for commercial vehicles surveyed at work places and special generators, using Form D, Intercept Travel Survey. The data are in an ASCII data file format.

### FIELD COLUMNS

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Numeric RJ	A3	Code which indicates the type of record, here it should be V12.
2. Month	4	5	Numeric RJ	I2	Month workplace was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month workplace was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Site Number	12	16	Numeric RJ	I5	Non-zero number assigned to the workplace.
6. Interviewer	17	66	Alphanum. LJ	A50	Name of person conducting survey interview.
7. Truck Number	67	68	Numeric RJ	I2	Truck number surveyed. This should correspond to the column number of the survey form used to collect the data.
8. Arrival Hour	69	71	Numeric RJ	I3	Hour vehicle arrived at location. Must be in military time.
9. Arrival Minute	72	74	Numeric RJ	I3	Minute vehicle arrived at location.
10. Occupancy	75	76	Numeric RJ	I2	Number of people in vehicle.
11. Vehicle Classification	77	78	Numeric RJ	I2	Code indicating the classification of the vehicle. See below for code descriptions.
12. Other Classification	79	88	Alphanum. LJ	A10	If vehicle classification is coded as "other", this field should contain the description recorded on the survey form for vehicle.
13. Type of Vehicle	89	91	Numeric RJ	I3	Code indicating type of commercial vehicle. Use 1 for cargo transport vehicle and 2 for service vehicle (i.e. all others besides cargo transport).
14. Delivery Cargo	92	94	Numeric RJ	I3	Cargo being delivered to work place. See code definitions below. If no cargo is being delivered, this should be coded as none (#23).
15. Unclassified Delivery Cargo	95	144	Alphanum. LJ	A50	If delivery cargo is coded as unclassified (#19) in item 14, this field should contain the name of the cargo being delivered.
16. Delivery Cargo Weight	145	151	Numeric RJ	I7	Weight in pounds of cargo being delivered.
17. Pick-up Cargo	152	154	Numeric RJ	I3	Cargo being picked up at work place. See code definitions below. If no cargo is being picked up, this should be coded as none (#23).
18. Unclassified Pick Up Cargo	155	204	Alphanum. LJ	A50	If pick up cargo is coded as unclassified (#19) in item 17, this field should contain the name of the cargo being picked up.
19. Pick Up Cargo Weight	205	211	Numeric RJ	I7	Weight in pounds of cargo being picked up.
20. Trip Purpose	212	213	Numeric RJ	I2	Purpose of trip. See code descriptions below.
21. Other Trip Purpose	214	223	Alphanum. LJ	A10	If trip purpose is coded as "other", this is a description of that purpose.
22. Origin Street Address	224	253	Alphanum. LJ	A30	Street address of last place person got into vehicle before traveling to this workplace.
23. Origin City and Zip	254	283	Alphanum. LJ	A30	City and zip code of location of last place person got into vehicle before traveling to this workplace.
24. Origin Longitude	284	293	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
25. Origin Latitude	294	303	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.

**Victoria Work Place and Special Generator Commercial Vehicle Survey, Form D Format – Continued.**

26. Zone Indicator	304	305	Alphanum. LJ	A2	If address is outside of the study area, but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. If address is in the Corpus study area this should be coded “C”. If address is in the Victoria study area this should be coded as “V”.
27. Origin Zone	306	310	Numeric RJ	15	Zone where trip originated. Locations in Mexico should be coded 7777. Locations not in a study area county but within Texas should be coded to the state zone system. Unknown zone numbers in the study area should be coded as 8888. Unknown zone numbers not in a study area county but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
28. Origin Type of Place	311	312	Numeric RJ	12	Code indicating type of place at origin of trip. See type of place codes below.
29. County of Origin	313	314	Numeric RJ	12	Code indicating county where origin of trip is located. See code definitions below.
30. Other Origin County	315	344	Alphanum. LJ	A30	If county of origin is coded as "other", this field contains the name of the county or location.
31. Entry Facility	345	374	Alphanum. LJ	A30	If origin is outside of the study area, this field should contain the name of the bridge, street, or highway used to enter the study area where the site being surveyed is located.
32. Entry External Zone	375	379	Numeric RJ	15	If origin is outside the study area, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area where the site being surveyed is located.
33. Origin Purpose	380	381	Numeric RJ	12	Purpose for being at origin address where this trip originated. See code definitions below.
34. Other Origin Purpose	382	391	Alphanum. LJ	A10	If the origin purpose is coded as “other”, this is a description of that purpose.
35. Hour Departed	392	394	Numeric RJ	I3	Hour vehicle departed from origin address. This time should be in military time.
36. Minute Departed	395	397	Numeric RJ	I3	Minute vehicle departed from origin address.
37. Destination Street Address	398	427	Alphanum. LJ	A30	Street address of location vehicle will be going when it leaves this workplace.
38. Destination City and Zip	428	457	Alphanum. LJ	A30	City and zip code of location vehicle will be going when it leaves this workplace.
39. Longitude	458	467	Numeric RJ	F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
40. Latitude	468	477	Numeric RJ	F10.0	Latitude of destination location. If address is in Mexico, this should be coded 777.7777. If address is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
41. Zone Indicator	478	479	Alphanum. LJ	A2	If address is outside of the study area, but within Texas, this field should contain the letter “S” indicating the zone number in the next field is for the state zone system. If address is in the Corpus study area this should be coded “C”. If address is in the Victoria study area this should be coded as “V”.
42. Destination Zone	480	484	Numeric RJ	15	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations outside the study area but within Texas should be coded to the state zone system. Unknown zone numbers in the study area should be coded as 8888. Unknown zone numbers outside the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.

**Victoria Work Place and Special Generator Commercial Vehicle Survey, Form D Format – Continued.**

43. Destination Type of Place	485	486	Numeric RJ	I2	Type of place at destination. See type of place codes below.
44. Destination County	487	488	Numeric RJ	I2	Code indicating county destination is located. See code definitions below.
45. Other Destination County	489	518	Alphanum. LJ	A30	If county of destination is coded as "other", this field contains the name of the county or location.
46. Exit Facility	519	548	Alphanum. LJ	A30	If destination is outside the study area, this field should contain the name of the bridge, street, or highway used to leave the study areawhere the site being surveyed is located.
47. Exit External Zone	549	553	Numeric RJ	I5	If destination is outside the study area, this field should contain the external station number associated with the bridge, street, or highway used to leave the study areawhere the site being surveyed is located.
48. Destination Purpose	554	555	Numeric RJ	I2	Purpose for traveling to the next destination. See below for code definitions.
49. Other Destination Purpose	556	565	Alphanum. LJ	A10	If the destination purpose is coded as "other", this is a description of that purpose.
50. Form Number	566	572	Numeric RJ	I7	Number of survey form.

11. Vehicle Classification Codes

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

20, 33, 48. Trip Purpose Options

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

29, 44. County Codes

- 1 - Nueces
- 2 - San Patricio
- 3 - Victoria
- 96 - Other
- 98 - Unknown
- 99 - Refused

14. Vehicle Cargo Codes

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

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

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

28, 43. Type of Place Codes

- 1 - Office Building
- 2 - Retail / Shopping
- 3 - Industrial/Manufacturing
- 4 - Medical / Hospital
- 5 - Educational (12<sup>th</sup> grade or less)

- 6 - Educational (College, Trade, etc.)
- 7 - Government Office/Building
- 8 - Residential
- 9 - Airport
- 10 - Intermodal Facility

- 11 - Warehouse
- 12 - Distribution Center
- 13 - Construction Site
- 14 - Other (specify )
- 99 - Refused/Unknown

## Victoria Standard Special Generator Intercept Survey, Form B Format

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

### FIELD COLUMNS

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code which indicates the type of record. Here it should be SMC (Victoria Medical Center) or SVM (Victoria Mall), depending on the special generator being surveyed.
2. Month	4	5	Numeric RJ	I2	Month workplace was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month workplace was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Name of Generator	12	61	Alphanum. LJ	A50	Name of 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 located outside the study area the generator is located. 1-Yes, 2-No, 99-Refused / Unknown.
14. Entry Road	157	186	Alphanum. LJ	A30	If person does not live in 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. C - Corpus Christi study area, V - Victoria study area. If person lives in the same study area as the work place 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.

**Victoria Standard Special Generator Intercept Survey, Form B Format – Continued.**

21. Zone Location	274	275	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address is not located in a study area but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank (i.e., address is out of Texas).
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 – Nueces; 2 – San Patricio; 3 – Victoria; 96 - Other; 98 - Unknown; 99 - Refused.
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 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 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 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 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. C - Corpus Christi study area, V - Victoria study area. If address not located in a county within these study areas, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
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. C - Corpus Christi study area, V - Victoria study area.
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.

**Victoria Standard Special Generator Intercept Survey, Form B Format – Continued.**

37. Other Mode	448	457	Alphanum. LJ	A10	If mode is coded “other”, this field should contain a description of the mode given.
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. 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 County	480	482	Numeric RJ	I3	Code indicating destination county/location: 1 – Nueces; 2 – San Patricio; 3 – Victoria; 96 - Other; 98 - Unknown; 99 - Refused.
44. Other Destination County	483	512	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
45. Destination Location	513	572	Alphanum. LJ	A60	Location of destination person is going.
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. C - Corpus Christi study area, V - Victoria study area. If address is not in a study area, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
49. Destination Zone	595	599	Numeric RJ	I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in 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. C - Corpus Christi study area, V - Victoria study area.
52. Exit External Zone	632	636	Numeric RJ	I5	If destination is outside the study area the generator is located, this field should contain the external station number associated with the bridge, street, or highway used to enter the study area.
53. Form Number	637	642	Numeric RJ	I6	Survey form number which contains raw survey data.

**Victoria Standard Special Generator Intercept Survey, Form B Format – Continued.**

36. Mode of Transportation Codes

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

40. Trip Purpose Codes

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

## Victoria Special Generator College Intercept Survey, Form B Format

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

### FIELD COLUMNS

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	3	Alphanum. LJ	A3	Code which indicates the type of record. Here it should be SUC (Victoria College).
2. Month	4	5	Numeric RJ	I2	Month work place was surveyed.
3. Day	6	7	Numeric RJ	I2	Day of the month work place was surveyed.
4. Year	8	11	Numeric RJ	I4	Year work place was surveyed.
5. Campus Location	12	61	Alphanum. LJ	A50	Location on campus where interviews are being conducted.
6. Site Number	62	66	Numeric RJ	I5	Unique non-zero number assigned to the site 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 located outside the study area the generator is located. 1-Yes, 2-No, 99-Refused / Unknown.
14. Entry Road	109	138	Alphanum. LJ	A30	If person does not live in the study area 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	139	140	Alphanum. LJ	A2	Code indicating study area where person entered. C - Corpus Christi study area, V - Victoria study area. If person lives in the same study area as the work place 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 generator is located. If person lives in the study area the generator 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 study area, 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 study area, 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. C - Corpus Christi study area, V - Victoria study area. If address is not located in a study area but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank (i.e., address is out of Texas).

**Victoria Special Generator College Intercept Survey, Form B Format – Continued.**

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 study area should be coded as 8888. Unknown zone numbers outside the study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
23. Arrival Mode	233	234	Numeric RJ	I2	Code indicating mode of arrival at the university. See definitions below.
24. Other Arrival Mode	235	244	Alphanum. LJ	A10	If arrival mode is coded "other", this field should contain a description of the mode given.
25. Number Persons	245	246	Numeric RJ	I2	If mode of travel was driver, passenger, taxi, commercial vehicle or motorcycle, this is the number of persons in the vehicle including the person being interviewed. This field is blank for all other modes.
26. Fare	247	252	Numeric RJ	F6.2	If mode of travel was bus or rail, this is the fare paid.
27. Park Location	253	254	Numeric RJ	I2	Code indicating where person parked. See code definitions below.
28. Other Parking	255	304	Alphanum. LJ	A50	If park location is coded as other, this field contains description of where person parked.
29. Origin Code	305	306	Numeric RJ	I2	Code indicating origin of trip; 1-Home, 2-Other.
30. Origin Location	307	366	Alphanum. LJ	A60	Location that trip originated from (i.e. name, address, etc).
31. Origin County	367	369	Numeric RJ	I3	Code indicating origin county/location: 1 – Nueces; 2 – San Patricio; 3 – Victoria; 96 - Other; 98 - Unknown; 99 - Refused.
32. Other Origin County	370	399	Alphanum. LJ	A30	If county origin/location is coded as "other", this field contains the name of the county or location.
33. Longitude	400	409	Numeric RJ	F10.0	Longitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
34. Latitude	410	419	Numeric RJ	F10.0	Latitude of location trip originated from. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
35. Zone Location	420	421	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address not located in a county within these study areas, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
36. Origin Zone	422	426	Numeric RJ	I5	Zone where trip originated. Locations in Mexico should be coded 7777. Locations outside of the study areas, but within Texas should be coded to the state zone system. Unknown zone numbers in study area should be coded as 8888. Unknown zone numbers outside of study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
37. Entry Facility	427	456	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.
38. Entry Study Area	457	458	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. C - Corpus Christi study area, V - Victoria study area.
39. Entry External Zone	459	463	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.
40. Arrival Hour	464	466	Numeric RJ	I3	Hour person arrived at this site. This hour should be in terms of military time.

**Victoria Special Generator College Intercept Survey, Form B Format – Continued.**

41. Arrival Minute	467	469	Numeric RJ	I3	Minute person arrived at this site.
42. Trip Purpose	470	471	Numeric RJ	I2	Code indicating purpose of trip. See code definitions below.
43. Other Purpose	472	481	Alphanum. LJ	A10	If purpose is coded as “other”, this contains description of purpose given.
44. Departure Mode	482	483	Numeric RJ	I2	Code indicating mode of departure from the university. See definitions below.
45. Departure Mode Other	484	493	Alphanum. LJ	A10	If departure mode is coded “other”, this field should contain a description of the mode given.
46. Depart Destination	494	495	Numeric RJ	I2	Code indicating destination when person departs from the university; 1-Home, 2-Other.
47. Destination Location	496	555	Alphanum. LJ	A60	Name & address of destination person is going.
48. Destination County	556	558	Numeric RJ	I3	Code indicating destination county/location: 1 – Nueces; 2 – San Patricio; 3 – Victoria; 96 - Other; 98 - Unknown; 99 - Refused.
49. Other Destination County	559	588	Alphanum. LJ	A30	If county destination/location is coded as "other", this field contains the name of the county or location.
50. Destination Longitude	589	598	Numeric RJ	F10.0	Longitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
51. Destination Latitude	599	608	Numeric RJ	F10.0	Latitude of destination location. If location is in Mexico, this should be coded 777.7777. If location is outside Texas, this should be coded 999.9999. If unknown but in study area, it should be coded 888.8888. If unknown but in Texas, it should be coded as 666.6666.
52. Zone Location	609	610	Alphanum. LJ	A2	Code indicating location of address. C - Corpus Christi study area, V - Victoria study area. If address is not in a study area, but within Texas, this field should contain the letter "S" indicating the zone number in the next field is for the state zone system. Otherwise this field should be blank.
53. Destination Zone	611	615	Numeric RJ	I5	Zone where individual is going when they leave this location. Locations in Mexico should be coded 7777. Locations not in the study areas, but within Texas should be coded to the state zone system. Unknown zone numbers in study area should be coded as 8888. Unknown zone numbers not in study area but within Texas should be coded as 6666. Locations outside Texas and not in Mexico should be coded as 9999.
54. Exit Facility	616	645	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.
55. Exit Study Area	646	647	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. C - Corpus Christi study area, V - Victoria study area.
56. Exit External Zone	648	652	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.
57. Form Number	653	658	Numeric RJ	I6	Survey form number which contains raw survey data.

**Victoria Special Generator College Intercept Survey, Form B Format – Continued.**

23. 44. Mode of Transportation Codes

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

42. Trip Purpose Codes

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

27. Park Location Codes

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