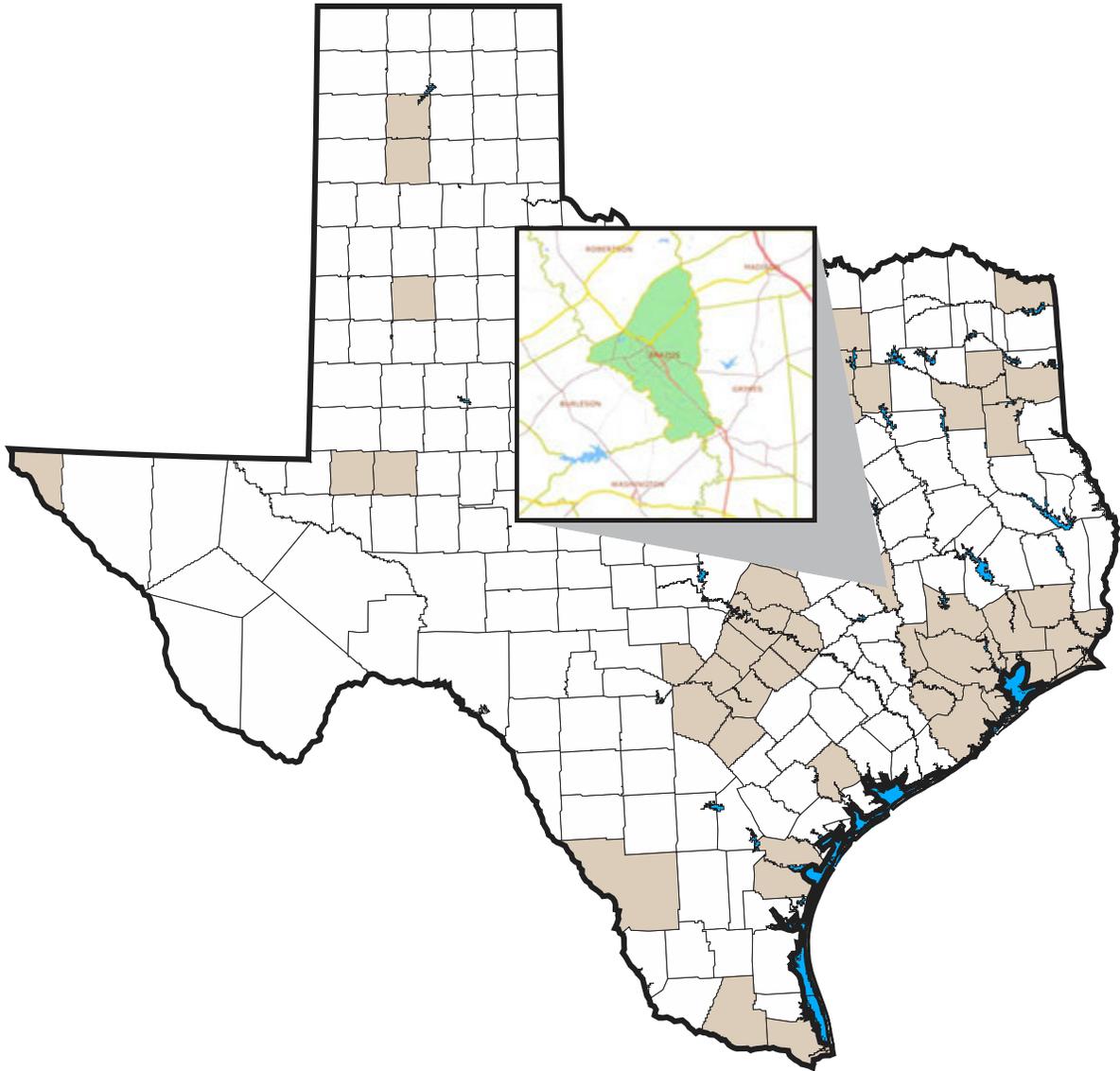


2011-2012 Bryan-College Station MPO Household Travel Survey Technical Summary



Prepared by the
Texas A&M Transportation Institute
October 2015

2011-2012 Bryan-College Station MPO Household Travel Survey

Technical Summary

Texas Department of Transportation Travel Survey Program

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INTRODUCTION

From 2011 to 2012, the Transportation Planning and Programming Division (TPP) of the Texas Department of Transportation (TxDOT) sponsored a comprehensive set of travel surveys in the Bryan-College Station Metropolitan Planning Organization (MPO) area located in Brazos County, Texas. Throughout this report, the area will be referred to as the Bryan-College Station MPO area. The purpose of the survey was to collect data and information needed as input to the Bryan-College Station MPO area travel demand model. The model is an important planning tool used to forecast future traffic levels on area roadways, evaluate the region's transportation plan, and aid (if needed) in the region's air quality conformity analyses. Most urbanized areas in Texas (as well as in the U.S. and abroad) rely on travel forecasting models as a tool in their transportation planning and air quality analysis efforts. Since modeling results may be used in determining conformity or non-conformity status of transportation plans to federal clean air regulations, the use of accurate and up-to-date data from regional travel surveys is important to TxDOT and MPOs across the state.

Four different types of travel surveys were conducted in the Bryan-College Station MPO area, including a household survey that included a passive Global Positioning System (GPS) component, a workplace survey that included special generator surveys, a commercial vehicle survey, and an external survey. The household survey collected data on the amount and characteristics of travel generated by households within the area. The work place survey collected data on travel to and from area businesses, special generators, and places of employment. The commercial vehicle survey collected data on cargo transport vehicles and fleet or service vehicles of area governments and businesses. The external survey collected data on trips made in and out of the study area. Each survey collected a different component of travel needed for the travel demand model. All surveys were designed to capture characteristics of weekday travel during the school year.

This report summarizes the results of the household survey for the Bryan-College Station MPO area. This report presents a variety of household summary information. The summary information is subject to modification as the survey data are further evaluated and analyzed within the context of all the travel surveys conducted.

The household survey sample design is based on obtaining travel information from a pre-determined number of randomly-selected households within certain ranges of household income and household size. The desired number of surveyed households in any household size/income range is not proportional to the estimated number of households in the cell. Rather, the number of households to be surveyed in each cell is based on the total estimated number of households in the area and the expected number of trips the households will make during a typical school-year weekday.

The survey sample design is based on a desired level of accuracy of +/- 10 percent with a confidence level of 90 percent of the total person trips in the survey area. Figure 1 shows the general vicinity of the Bryan-College Station MPO area, while Figure 2 provides a map showing the household locations, Traffic Analysis Zones (TAZs), and county areas. The number of households in the study area in 2011-2012 was estimated from the 2010 census and the Texas State Data Center (TSDC) population projections for Brazos County.

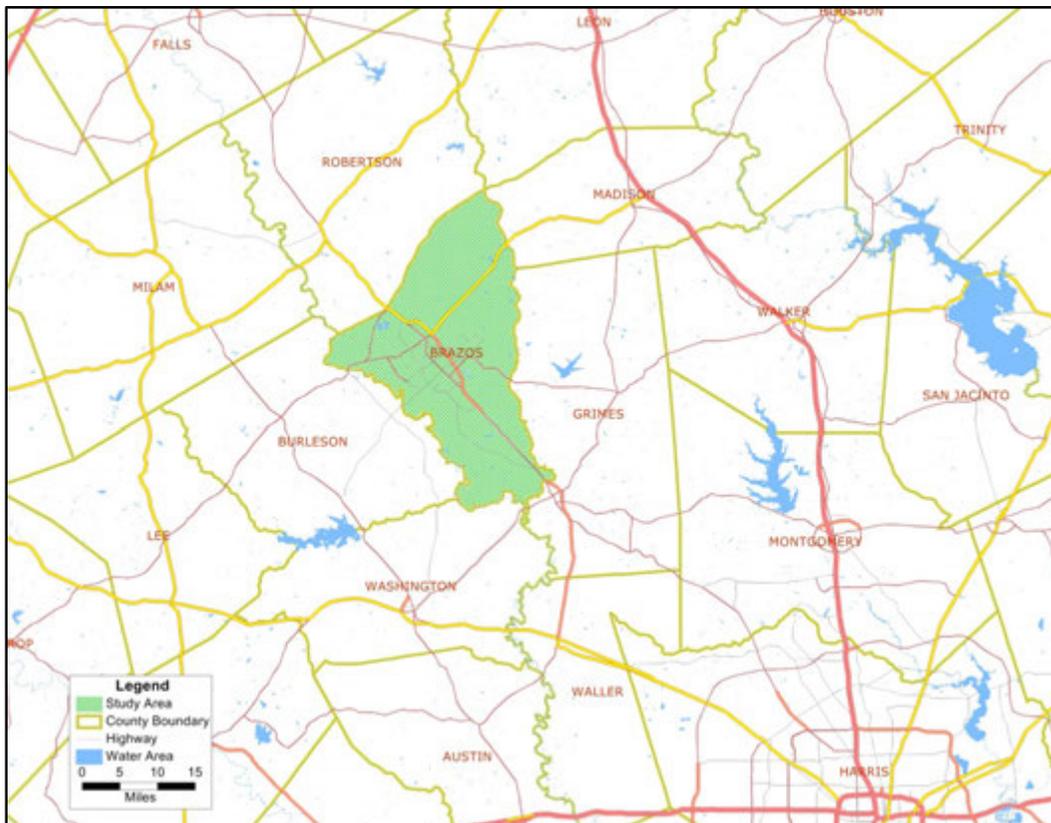


Figure 1. Bryan-College Station MPO Study Area.

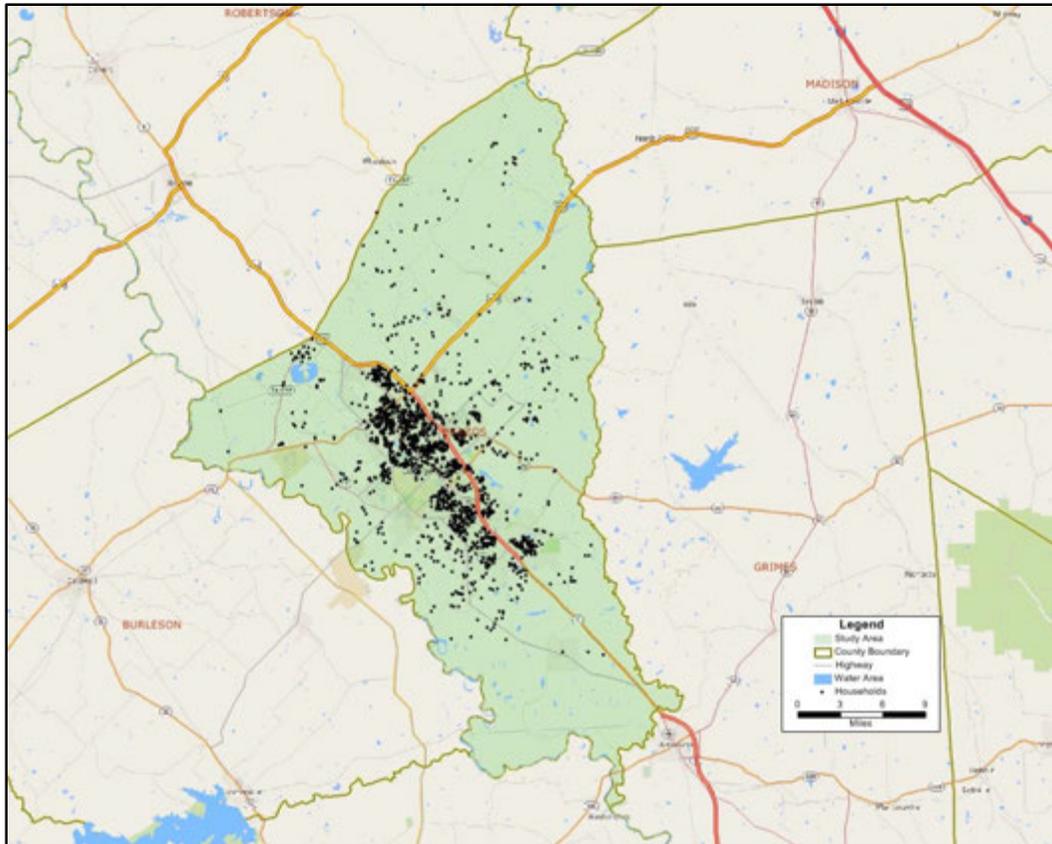


Figure 2. Bryan-College Station MPO Study Area Household Locations and TAZ Areas.

Table 1 shows the estimated number of households in the study area, the number of households surveyed, and the distribution of the number of households surveyed stratified by household size and household income range. A total of 1,992 households were surveyed within the Bryan-College Station MPO area. The minimum number of households surveyed in any household size/income range cell was 2 and the maximum number surveyed was 270. Of the estimated 53,584 households in the study area, 27 percent are households with one person and 33 percent are households with two persons.

Table 1. Estimated Number of 2011-2012 Households, Number of Households Surveyed, and Percent of Surveyed Households, Stratified by Household Size and Income Range.

Income Range	Household Size					Total
	1	2	3	4	5+	
Estimated Number of Households						
\$0 to \$9,999	4,292	2,604	1,254	86	32	8,268
\$10,000 to \$24,999	4,110	4,104	1,881	1,774	1,002	12,871
\$25,000 to \$49,999	3,408	3,569	1,950	1,586	1,211	11,724
\$50,000 to \$99,999	1,924	3,971	2,508	2,374	1,350	12,127
\$100,000 ⁺	514	3,301	1,886	1,591	1,302	8,594
Total	14,248	17,549	9,479	7411	4,897	53,584
Number of Households Surveyed						
\$0 to \$9,999	91	49	18	2	2	162
\$10,000 to \$24,999	171	270	101	45	34	621
\$25,000 to \$49,999	75	123	71	71	60	400
\$50,000 to \$99,999	58	155	97	151	84	545
\$100,000 ⁺	18	92	43	75	36	264
Total	413	689	330	344	216	1,992
Percent of Households Surveyed						
\$0 to \$9,999	4.6	2.4	0.9	0.1	0.1	8.1
\$10,000 to \$24,999	8.6	13.6	5.1	2.3	1.7	31.3
\$25,000 to \$49,999	3.7	6.2	3.6	3.6	3.0	20.1
\$50,000 to \$99,999	2.9	7.8	4.8	7.6	4.1	27.2
\$100,000 ⁺	0.9	4.6	2.2	3.8	1.8	13.3
Total	20.7	34.6	16.6	17.4	10.7	100.0

HOUSEHOLD SURVEY RESULTS

This survey represents a sample of household demographic and travel characteristics for a Monday through Friday weekday during the school year from the Spring of 2011 through the Fall of 2012. For participating households, each member of the household was provided a diary to record his or her travel. The survey data were retrieved from participants by phone at a pre-arranged call-back time within two days after their specified travel date. Every attempt was made to interview all persons within each of the 1,992 randomly-selected households that participated in the survey. In many cases, a proxy provided information for household members who were not available. Adult members of the household usually reported the activities and trips for minors

in the household. A small number of households chose to return their completed diaries by mail, in lieu of providing their trip information over the phone.

Key Points Regarding Household Survey Data

- The survey data are for an average weekday collected from February 2011 through September 2012.
- The survey data were tabulated only for persons who lived in the surveyed households. Persons living in group quarters, such as nursing homes, correctional facilities, or dormitories were not surveyed.
- The survey data are for persons of all ages unless otherwise noted.
- The survey data do not include non-household-based travel such as commercial vehicles, tourists, or persons staying in hotels.
- The estimates of population and number of households are based on the expanded survey data and may differ from population and household estimates developed by other agencies.
- The survey data are for trips that began and ended within the planning area. Trips that began inside the planning area and ended outside the planning area, or vice versa, are summarized in the external travel survey report.

Findings of the Survey

For the Brazos County area:

- 97 percent of households had a vehicle available;
- 95 percent of households had a licensed driver;
- In general, trip rates per household increased with household size, with household income, and with vehicle availability;
- The average vehicle occupancy was 1.11 persons per vehicle;
- 94 percent of person trips were made in a personal-use vehicle;
- Of the household population that travelled, 62.1 percent drove a vehicle, 27.4 percent rode as a passenger in a vehicle, 3.4 percent walked, and the remainder of the trips were made using some other mode;
- Nearly 20 percent of the total persons within the household population did not make an internal trip within the planning area on their survey day;
- On average, each person made 3.8 person trips per day and each household made 9.8 person trips per day;

- The average person trip length was 4.1 miles and the average person trip duration was 6.8 minutes;
- The average vehicle trip length was 4.4 miles and the average vehicle trip duration was 7.2 minutes;
- The peak hour for household travel was from 7:01 a.m. to 8:00 a.m., during which 15.7 percent of the trip starts occurred. The second highest hour for household trip starts was from 3:01 p.m. to 4:00 p.m. when 11.3 percent of the daily trip starts occurred; and
- Weekday school year household travel internal to the study area accounted for an estimated 1.42 million vehicle miles of travel (VMT).

HOUSEHOLD CHARACTERISTICS

Characteristics of the household influence travel behavior. For example, household size, income, vehicles available, number of persons employed, and family life cycle affect the amount and time-of-day those trips are made. For this survey, households include only persons living in residences, and do not include persons living in group quarters. The figures in this section are for the expanded survey data.

Household Size

Figure 3 shows the distribution of households by household size for the Bryan-College Station MPO area in 2011-2012. Household size and household income range are the two household variables used to stratify the household trip rates calculated from the household travel survey. When forecasting future travel, the forecast population must be estimated by household size and household income range. Average household size in the Bryan-College Station MPO area in 2011-2012 estimated from the expanded survey results was 2.6 persons per household. For the Bryan-College Station MPO area travel model, three variables—household size, household income, and the number of persons employed in the household—were used to stratify trip rates for the home-based work (HBW) trip purpose. For the home-based non-work (HBNW) and the non-home based (NHB) trip purposes, two variables—household size and household income—were used to stratify trip rates.

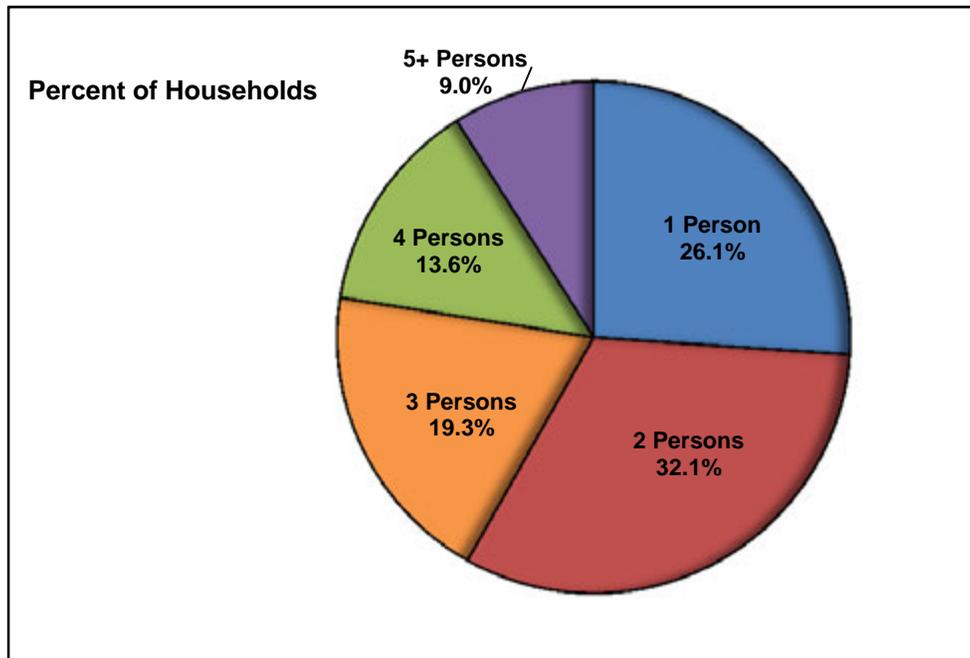


Figure 3. Distribution of Households by Household Size.

A typical household makes a certain number of trips on most days to meet household needs; for example, to purchase food and other necessities, to earn an income, to attend school, to visit friends and family, to receive medical care, to attend events, etc. For this reason, the number of households is a better predictor of future travel than using the number of persons.

Household Life Cycle

Household life cycle influences the amount and time of travel. For example, households with children tend to make more trips than households without children. Households with working adults tend to make more trips than households with retired adults. There were an estimated 53,584 households in the Bryan-College Station MPO area in 2011-2012. Figure 4 shows the distribution of these 53,584 households by household size and household life cycle (those with no children and not retired, those with children, and those with only retired persons).

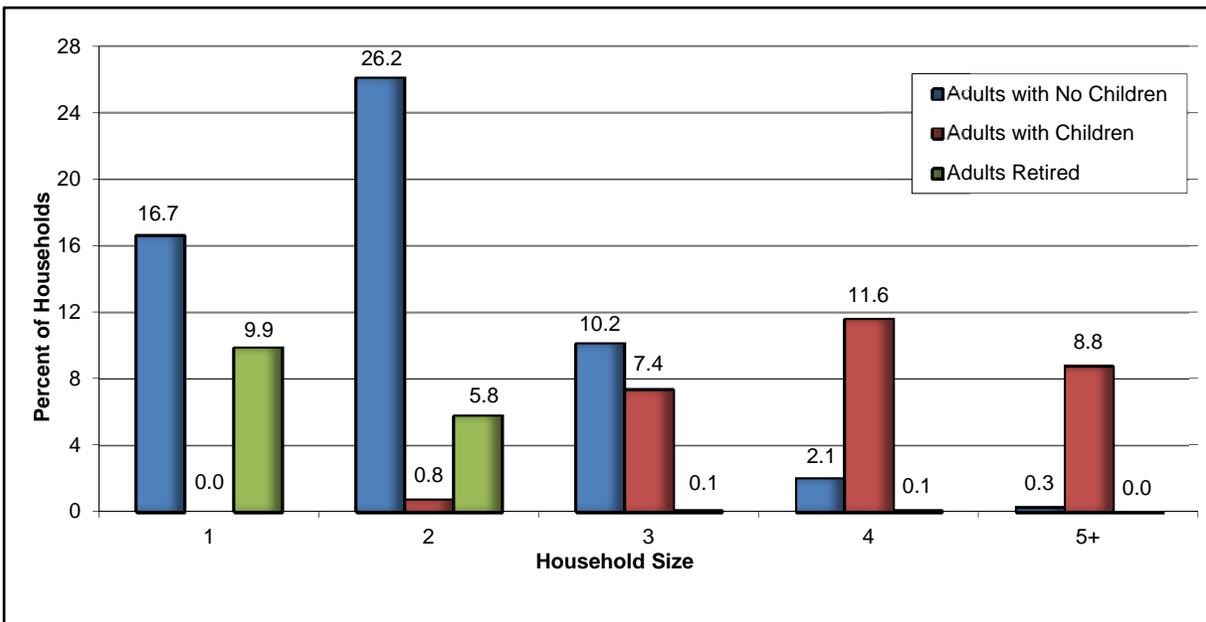


Figure 4. Distribution of Household Size vs. Life Cycle.

Household Income

Household income and household size are the two primary variables used to estimate household trip rates. As household income increases, the amount of household travel tends to increase. Additionally, as income increases, vehicle ownership tends to increase and additional financial resources are available to the household to support increased travel. Figure 5 provides the distribution of the 53,584 expanded households in the survey by the combined annual household income range.

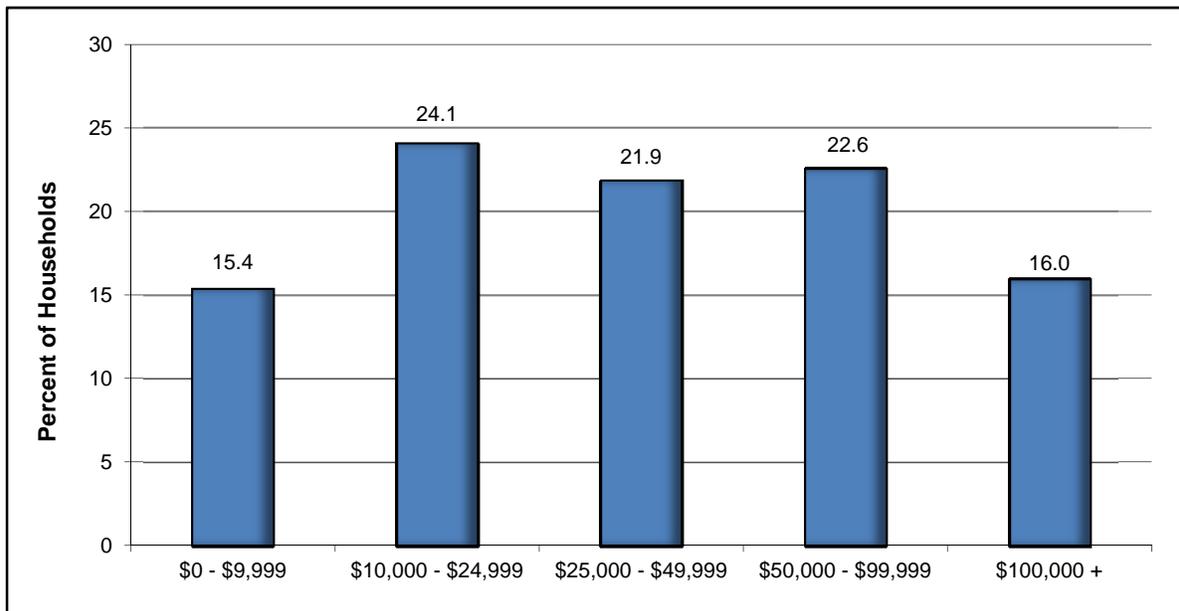


Figure 5. Distribution of Households by Household Income Range.

Household Vehicle Availability and Licensed Drivers

In general, as the number of vehicles available to the household increases, daily household travel increases. This household characteristic also impacts forecasting and the demand for public transportation. As household vehicle availability increases, the household demand for public transportation tends to decrease. Figure 6 shows the distribution of the 53,584 expanded households in the survey by the number of vehicles available. Approximately 6 percent of households did not have a vehicle available. The average number of vehicles available per household was 2.1.

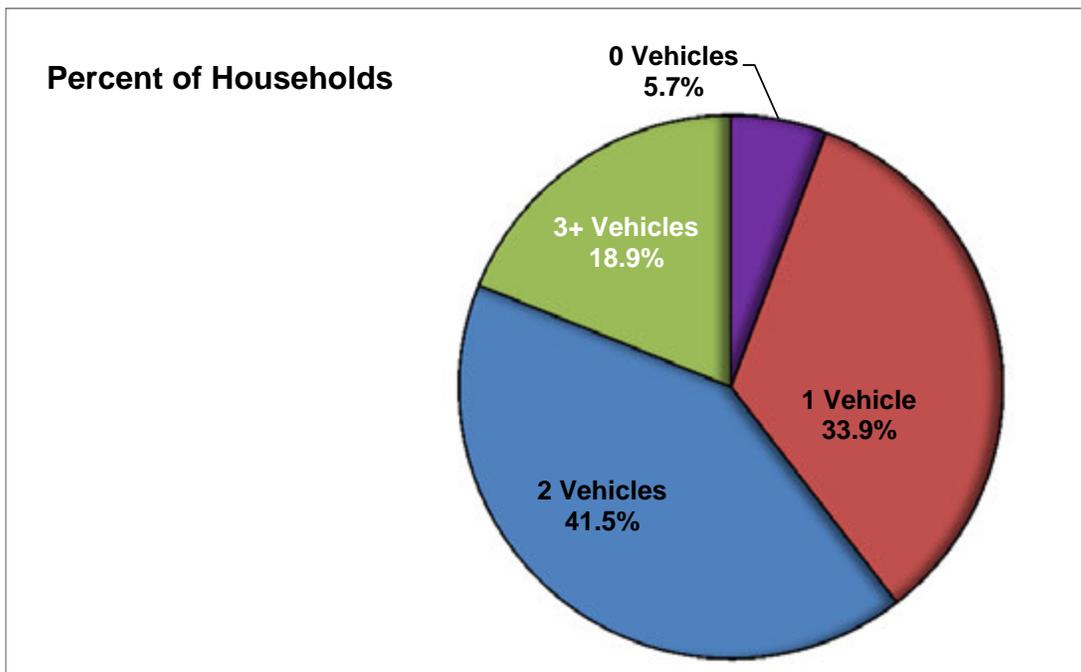


Figure 6. Distribution of Households by Number of Vehicles Available.

Figure 7 shows the distribution of the 53,584 expanded households by the number of licensed drivers per household. Slightly more than 5 percent of the households did not have a licensed driver.

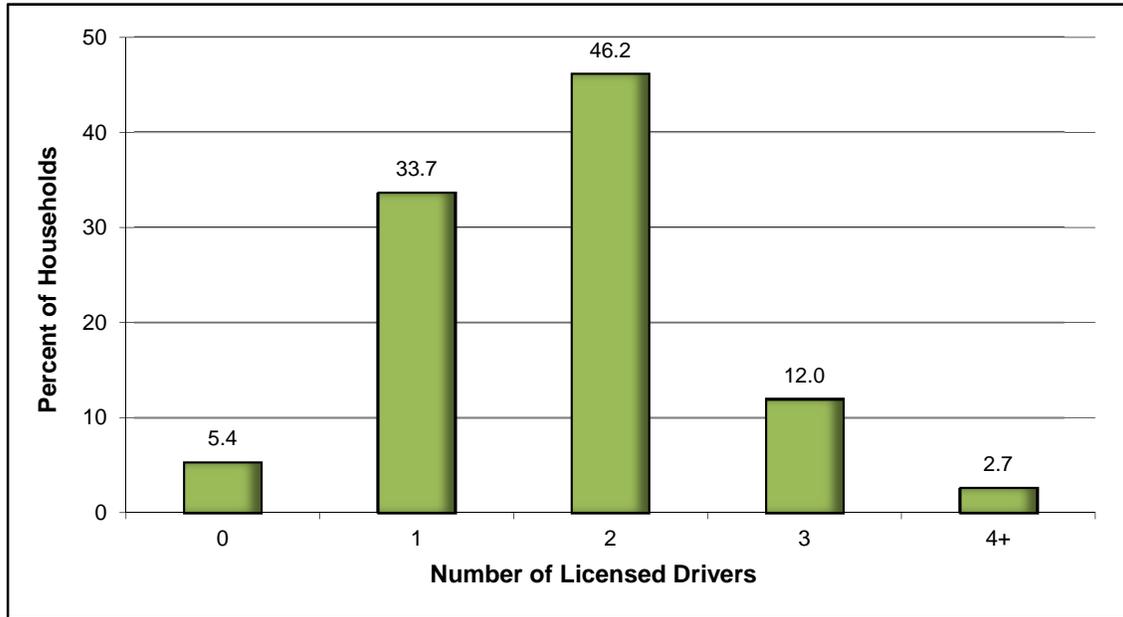


Figure 7. Distribution of Households by Number of Licensed Drivers.

Figure 8 shows the distribution of the 53,584 expanded households by the number of licensed drivers and the number of vehicles available. For over two-thirds of the households (67 percent), the number of licensed drivers and the number of vehicles available was equal. For 12 percent of the households, the number of licensed drivers was more than the number of vehicles available and for slightly less than 17 percent of the households, the number of licensed drivers was less than the number of vehicles available. Fewer than 4 percent of the households had neither a licensed driver nor a vehicle available.

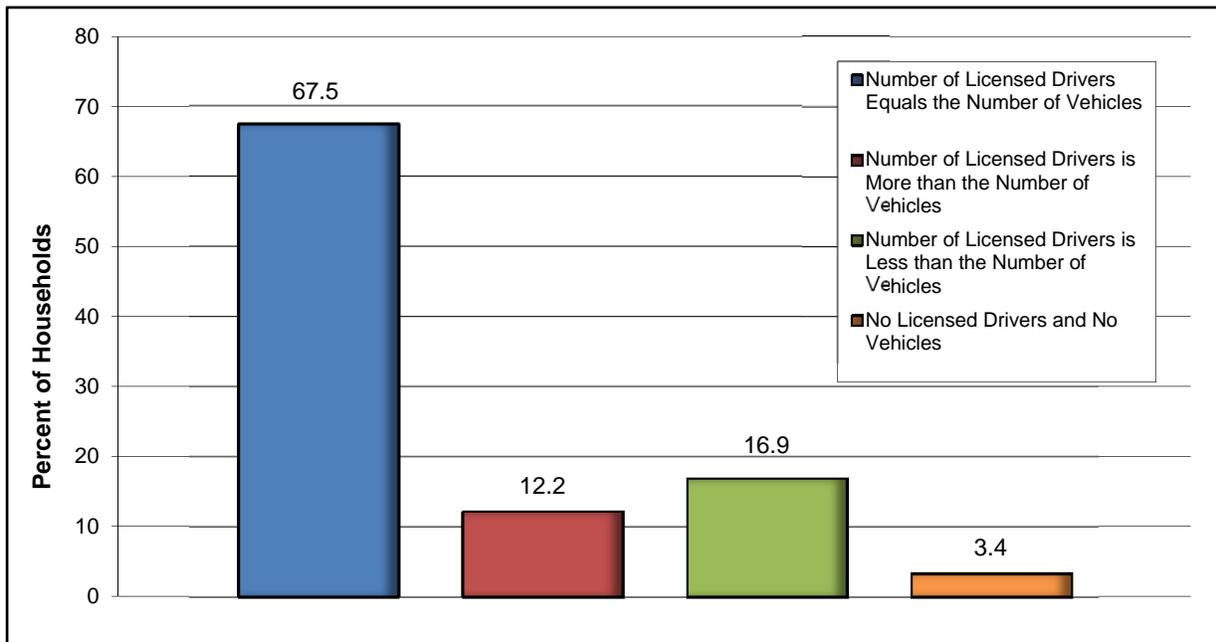


Figure 8. Comparison of Households by Licensed Drivers and Vehicle Availability.

Figure 9 shows the distribution of the 53,584 expanded households by the number of persons employed. The 53,584 expanded households included 134,877 persons for an average of 2.5 persons per household. Just over 38 percent of households had just one person employed, while a quarter of households did not have any persons employed and over 31 percent of households had two persons employed.

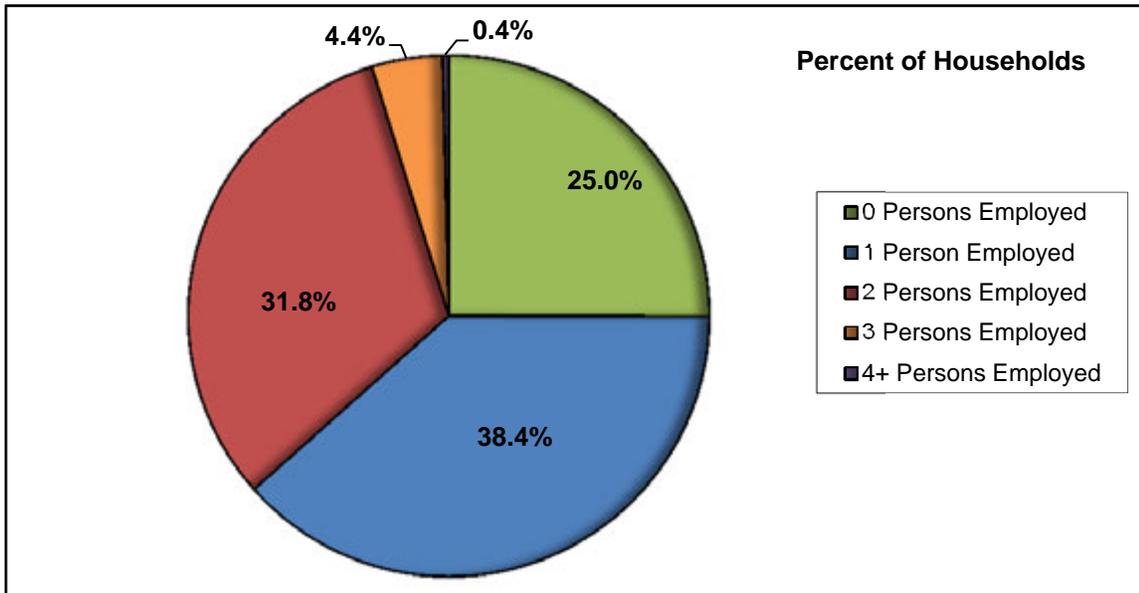


Figure 9. Distribution of Households by Number of Persons Employed.

Figure 10 shows the distribution of all persons, regardless of age, by employment status. Approximately 25 percent of the population was retired and 24 percent of the population was employed full time. Slightly less than 24 percent of the population was unemployed students.

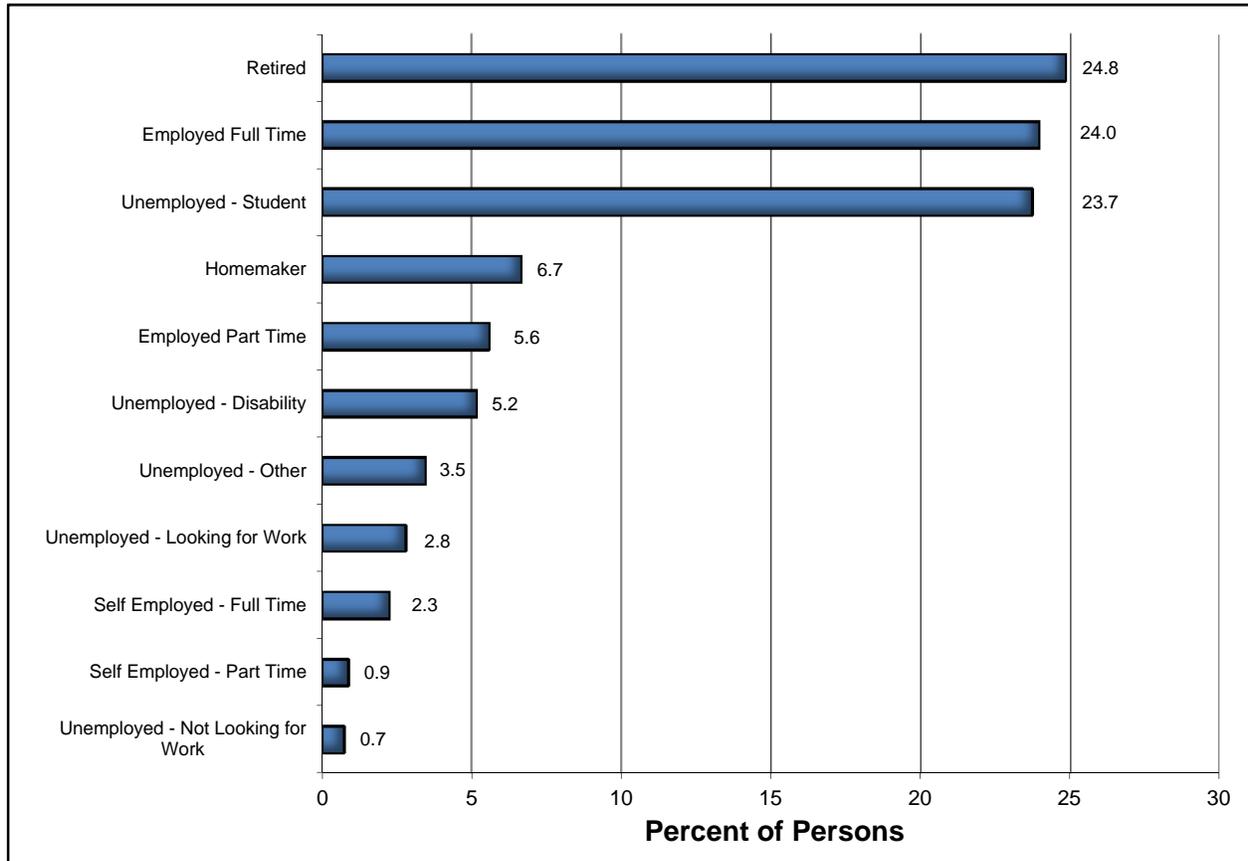


Figure 10. Distribution of Persons by Employment Status.

Figure 11 shows the distribution of the employed persons by the type of employer. The 53,584 households had 58,366 employed persons for an average of 1.09 employed persons per household. The employment type of Education Post-Secondary included the largest percentage of employed persons, encompassing over 17 percent of those employed. The Office (Non-Government) employer type accounted for the second largest percentage of employed persons, including approximately 16 percent of those employed. The Eating Establishment employer type (14 percent of employees) and Industrial/Manufacturing/Warehouse employer type (12 percent of employees) came in at the third and fourth spots, respectively.

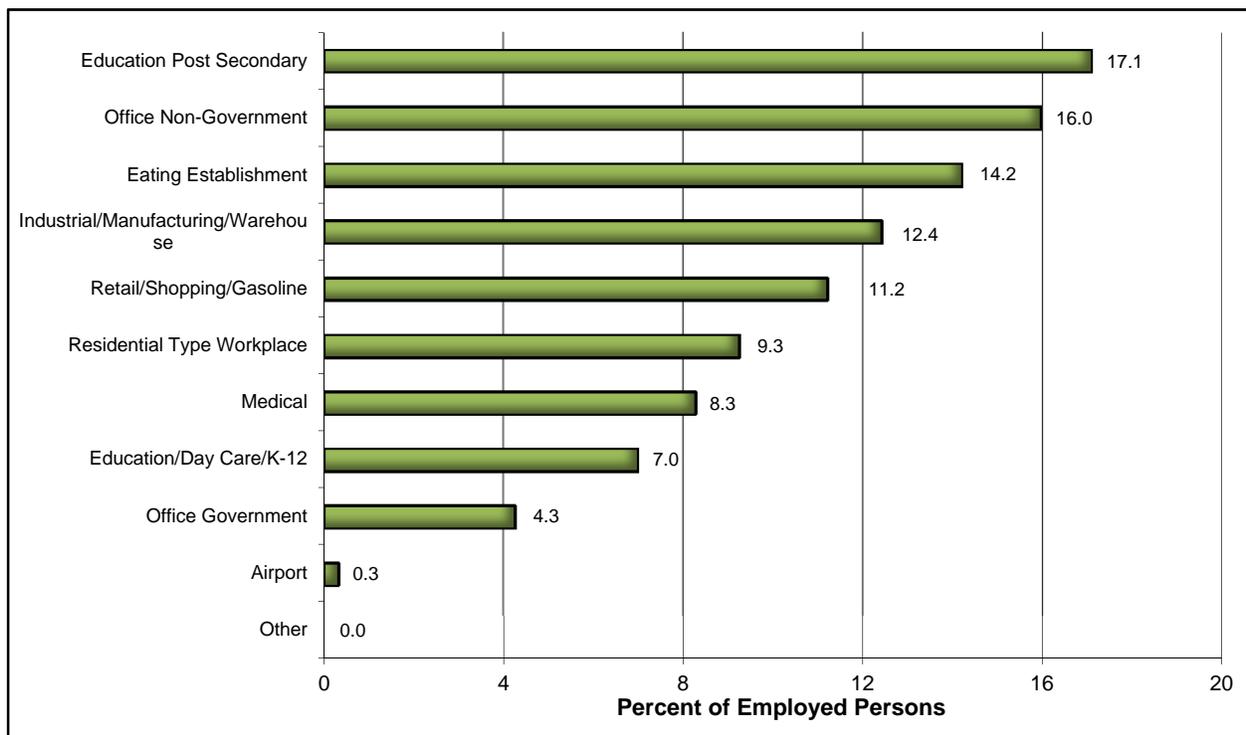


Figure 11. Distribution of Employed Persons by Employer Type.

Ethnicity

Figure 12 shows the distribution of the 134,877 persons by ethnicity. Over 60 percent of the population was White/Caucasian, 25 percent of the population was Hispanic/Mexican American, and 11 percent of the population was Black/African American. All other ethnicities combined comprised less than 4 percent of the population.

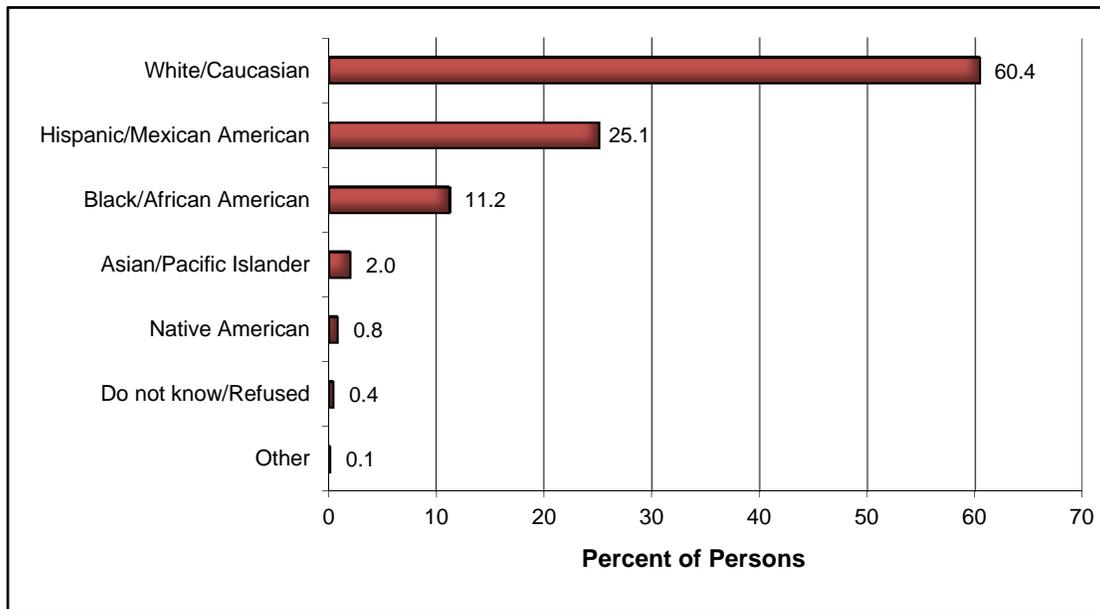


Figure 12. Distribution of Persons by Ethnicity.

TRAVEL CHARACTERISTICS

The previous section reported on a variety of household and person characteristics obtained from the household travel survey. In this section, these household and person characteristics are related to household travel characteristics. Household size, household income, household life cycle, household vehicle availability, household licensed drivers, and household employment all affect the amount of household travel.

Household Trip Rates and Vehicle Occupancy

The household trip rates in this section are for person trips made in a vehicle either as the driver or as a passenger. Figure 13 shows the household trip rates as a function of household size. As the household size increases, household trip rates increase and become higher for large household sizes. For travel forecasting applications, households with five or more household members are grouped and an average trip rate is used for the group. Figure 14 shows the

household trip rates as a function of the household income range. As expected, as household income increases, the household trip rate increases.

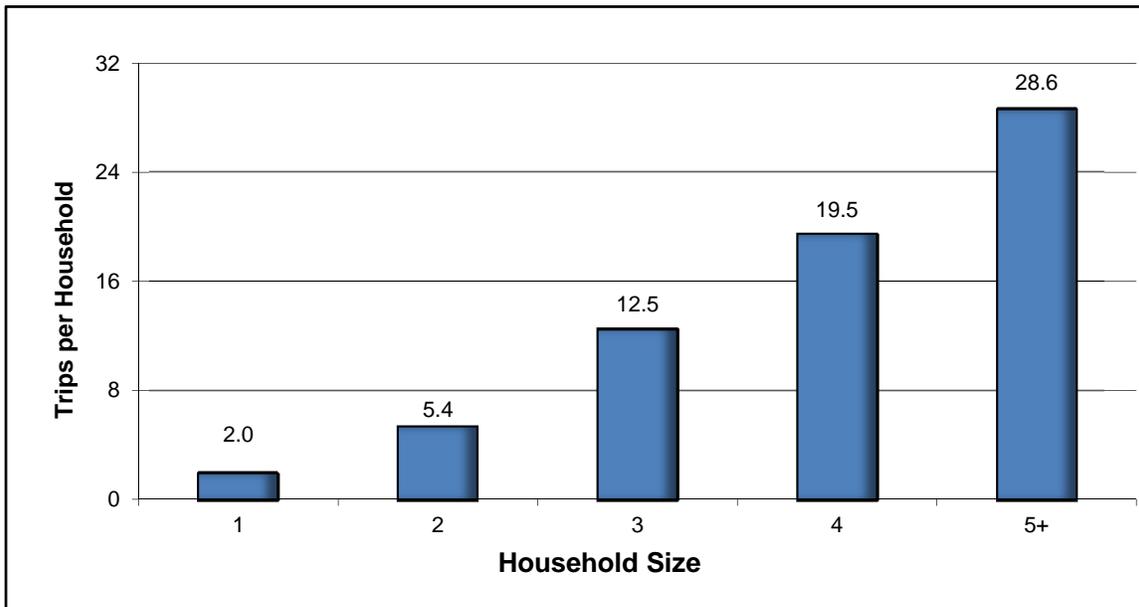


Figure 13. Household Trip Rate by Household Size.

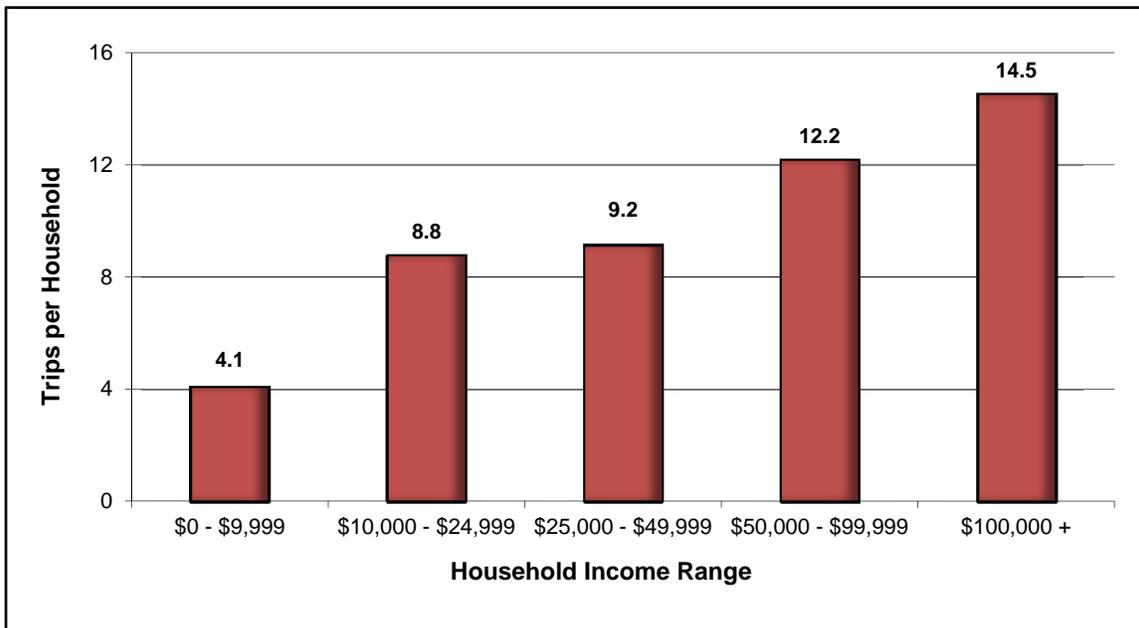


Figure 14. Household Trip Rate by Household Income Range.

Figure 15 shows the household trip rates as a function of the number of vehicles available to household members for travel. As expected, households with no vehicles available made fewer trips per household than those households with vehicles available to them. Households with 3 or more vehicles make an average of 13 person trips per household, while households with 7 or more vehicles make an average of over 10 person trips per household. Additionally, note that households with no vehicles available make a meaningful number of trips (2.6).

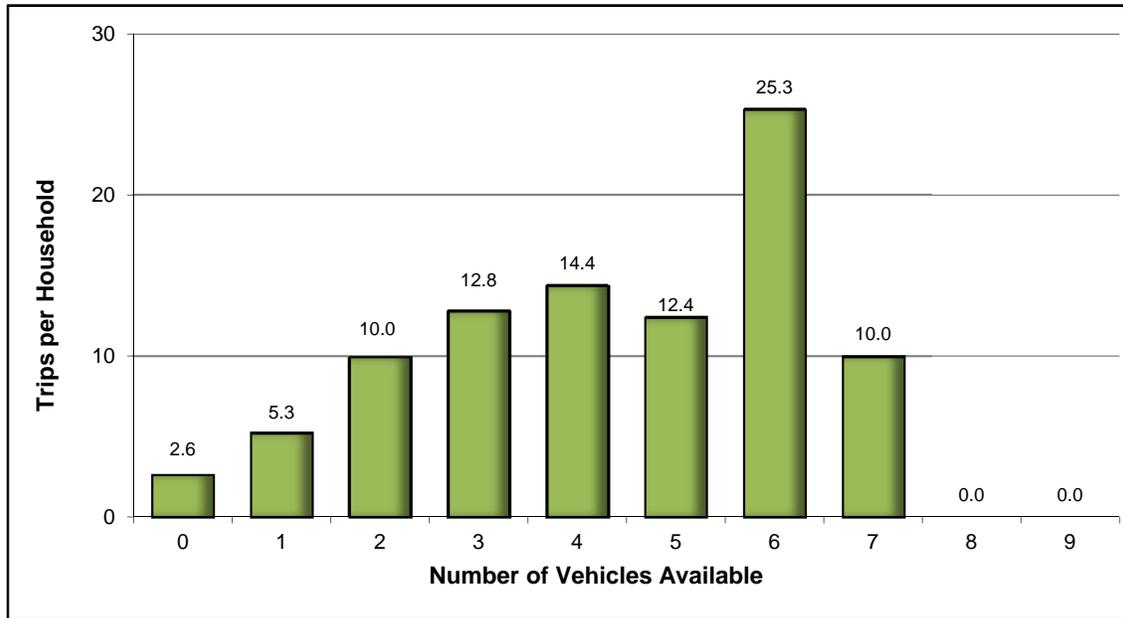


Figure 15. Household Trip Rates by Number of Vehicles Available.

Table 2 shows the person trip rates cross classified by household size and household income for all internal trip purposes combined, that is, trips that begin and end inside the household travel survey area. These trip rates are for all trips by all modes including transit, bicycle, and walk trips. For travel forecasting applications, the cross-classified trip rates are disaggregated by trip purpose into HBW trips, HBNW trips, and NHB trips (see the terminology section for the definitions of these terms). As part of the travel forecasting process, the person trips are divided among the modes during the mode split step. The average person trip rate, internal to the planning area for all households, was 9.84 person trips per household.

Table 2. Person Trip Rates by Household Size and Household Income.

Household Income Range	Household Size					Total
	1	2	3	4	5+	
\$0-\$9,999	1.59	4.89	9.45	16.79	32.97	4.10
\$10,000-\$24,999	1.93	5.57	13.91	18.14	23.99	8.79
\$25,000-\$49,999	2.19	4.73	10.43	17.95	28.27	9.16
\$50,000-\$99,999	2.88	5.65	12.66	19.55	30.86	12.19
\$100,000⁺	1.75	6.05	15.27	22.66	30.18	14.55
Total	2.01	5.41	12.54	19.51	28.65	9.84

Table 3 shows the average vehicle occupancy for person trips made in private vehicles by household size and by household income range. The average vehicle occupancy of households was 1.11 persons per vehicle.

Table 3. Average Vehicle Occupancy by Household Size and Household Income.

Household Income Range	Household Size					Total
	1	2	3	4	5+	
\$0-\$9,999	1.10	0.82	0.57	0.33	2.57	0.83
\$10,000-\$24,999	0.95	0.88	0.92	1.08	1.45	1.02
\$25,000-\$49,999	0.99	0.95	0.88	0.95	1.40	1.04
\$50,000-\$99,999	1.11	1.06	1.02	1.16	1.44	1.16
\$100,000⁺	1.11	1.09	1.01	1.39	1.47	1.24
Total	1.03	0.98	0.93	1.16	1.45	1.11

Travel by Age Cohort

A total of 134,877 persons were represented in the expanded household survey based on persons who reported their age.

Table 4 shows the number of persons and distribution of persons by age cohort that did not make any internal trips on their survey day. As expected, older persons are less likely to travel than are younger persons, but the older population is mobile and contributes significantly to the amount of household travel.

Table 4. Number of Persons, Percent of Persons, and Percent of Persons Making Zero Trips by Age Cohort.

Age Cohort	Number of Persons	Percent of Persons	Number of Persons Making Trips	Number of Persons Making Zero Internal Trips	Percent of Persons Making Zero Internal Trips
0-15	37,395	27.73	33,241	4,154	11.10
16-19	10,323	7.65	9,282	1,040	10.07
20-24	10,939	8.11	7,245	3,694	33.76
25-29	10,413	7.72	7,635	2,777	26.66
30-34	9,536	7.07	7,770	1,766	18.51
35-39	7,792	5.78	6,196	1,596	20.48
40-44	7,968	5.91	6,667	1,301	16.32
45-49	7,777	5.76	6,443	1,335	17.16
50-54	7,901	5.86	6,098	1,803	22.81
55-59	6,750	5.00	5,696	1,054	15.61
60-64	5,524	4.10	4,307	1,216	22.01
65-69	4,025	2.98	2,994	1,031	25.61
70-74	2,938	2.18	5,051	887	30.19
75-79	2,303	1.71	1,442	861	37.38
80+	3,293	2.44	1,676	1,616	49.07
Total	134,877	100.0	108,745	26,132	19.37

MODE OF TRAVEL

The modes of travel were household automobile-driver, household automobile-passenger, school bus, walk, public transportation, bicycle, carpool/vanpool, and commercial vehicle. Figure 16 provides the distribution of person trips by mode. Automobile travel accounted for approximately 90 percent of the person trips. The “walk” mode accounted for just 3 percent of the person trips, while bicycle trips accounted for only 1.0 percent of the person trips. The surveyed households made little use of public transportation, accounting for only 0.7 percent of person trips.

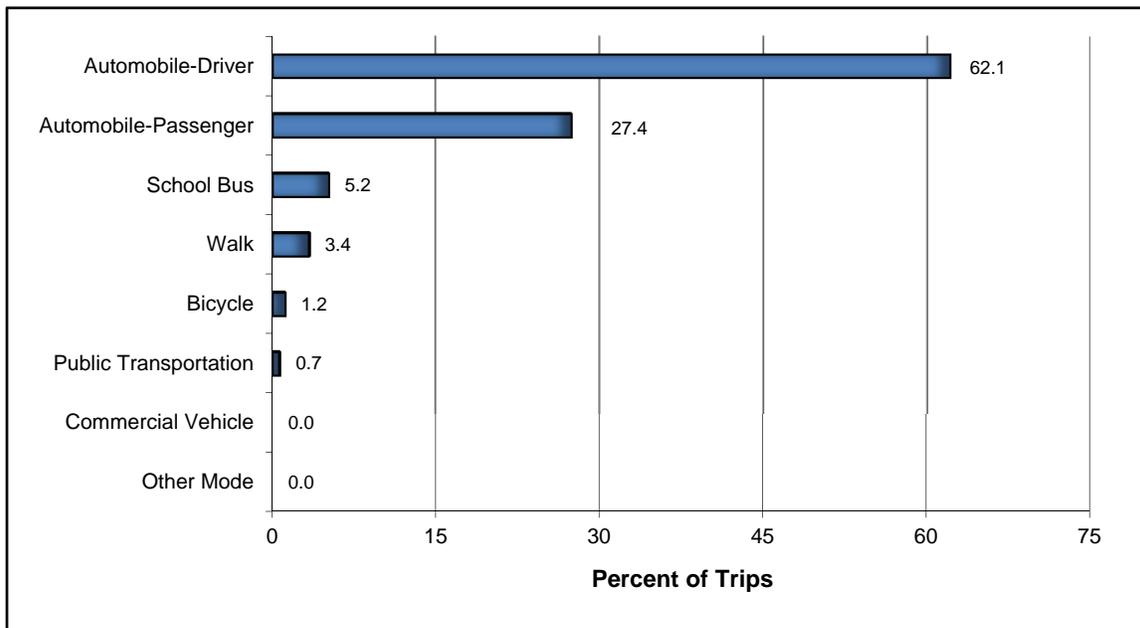


Figure 16. Distribution of Person Trips by Mode of Travel.

AMOUNT OF TRAVEL

Several measures are used to record the amount of travel—the number of person trips, the number of vehicle trips, the trip distances in miles, the trip durations or travel times in minutes, and the VMT.

Trip Distance

Figure 17 shows the distribution of person trips by the length of the trip in miles. The distribution is for internal person trips, trips beginning and ending inside the study area. The average person trip length was 4.1 miles.

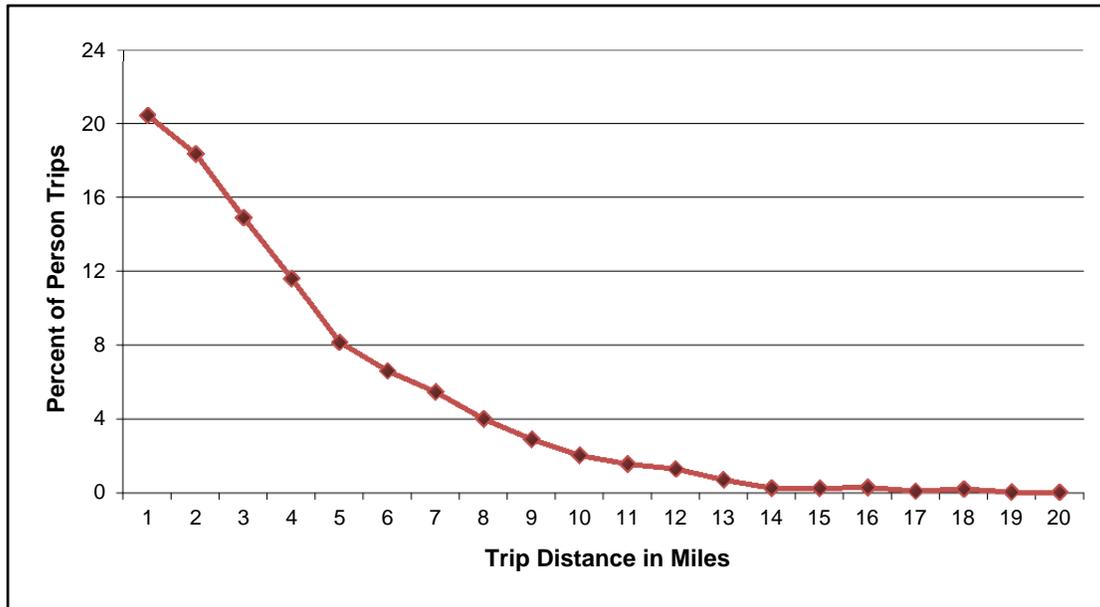


Figure 17. Distribution of Person Trips by Trip Distance in Miles.

Figure 18 provides the distribution of vehicle trips by the length of the trip in miles. For travel demand modeling purposes, the travel modeler needs data about the distribution of vehicle trips in miles and the average vehicle trip length in miles for each internal trip purpose. The average vehicle trip length was 4.4 miles. Distributions similar to Figure 18 are prepared for each internal trip purpose.

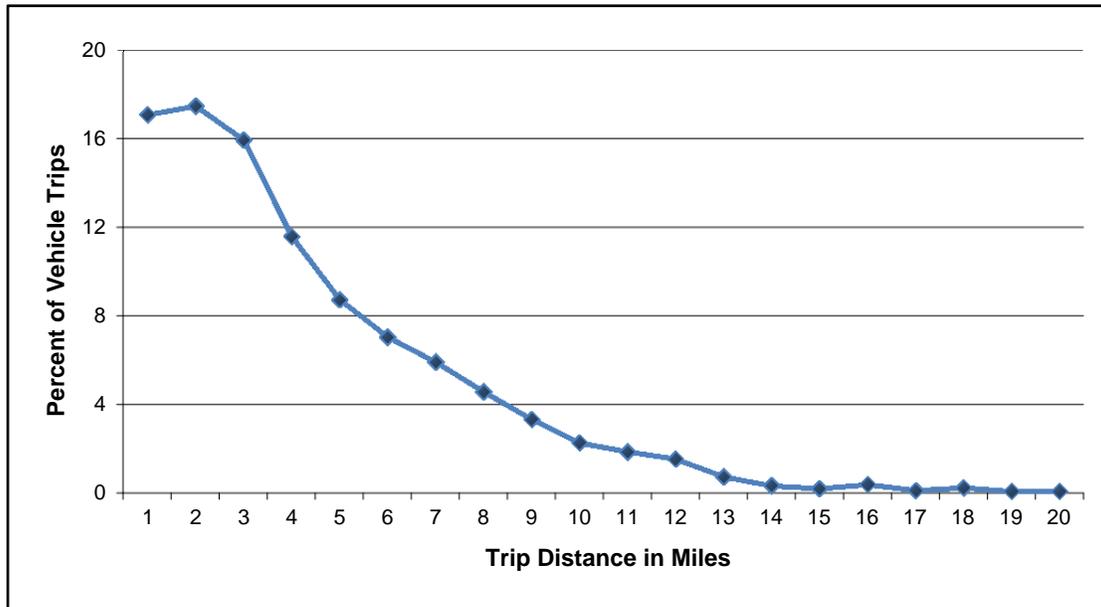


Figure 18. Distribution of Motorized Vehicle Trips by Trip Distance in Miles.

Trip Duration

Figure 19 shows the distribution of person trips by the duration of the trip in minutes. The distribution is for internal person trips, trips beginning and ending inside the study area. The average person trip duration was 6.8 minutes.

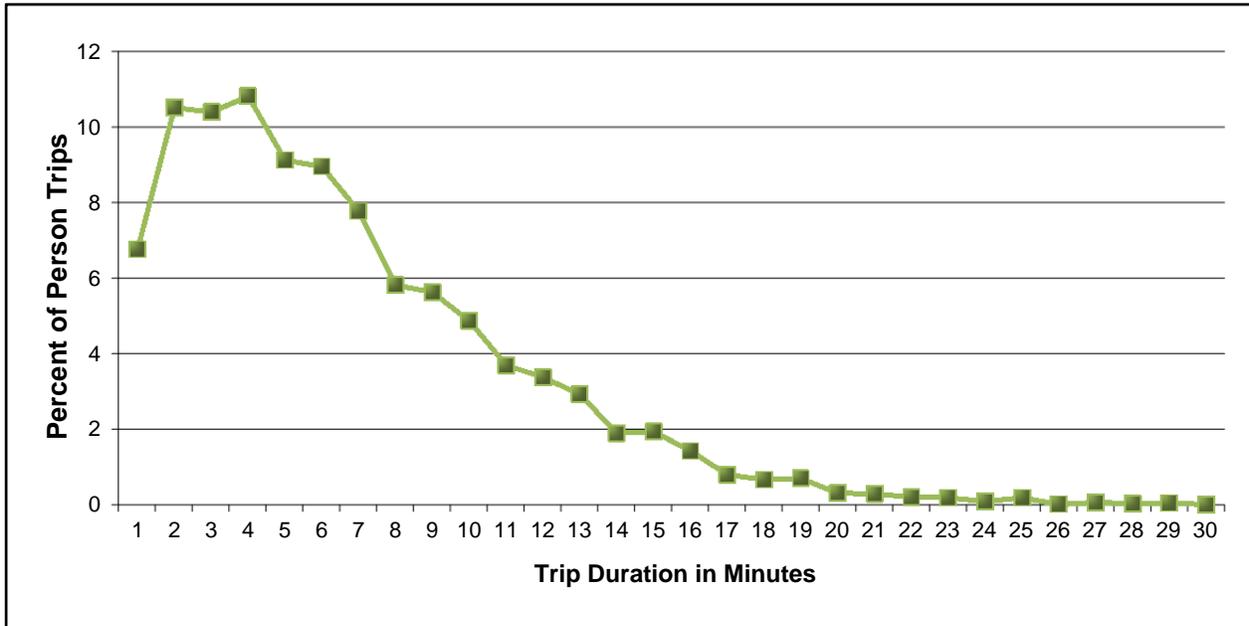


Figure 19. Distribution of Person Trips by Trip Duration in Minutes.

Figure 20 presents the distribution of vehicle trips by the duration of the trip in minutes. The average vehicle trip duration was 7.2 minutes.

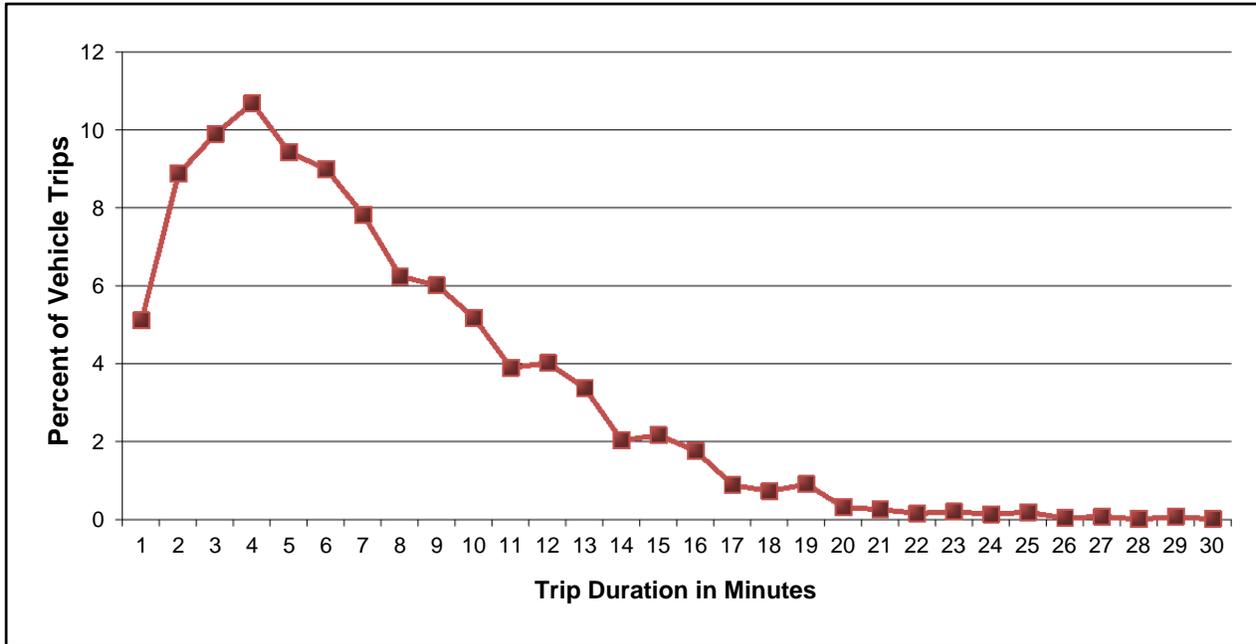


Figure 20. Distribution of Motorized Vehicle Trips by Trip Duration in Minutes.

Vehicle Miles of Travel

VMT is calculated as the product of the average vehicle trip length in miles and the number of vehicle trips. For household trips internal to the study area, the estimated VMT was 1.42 million miles per school-year weekday. This is not the total VMT for the study area, as the VMT associated with external-local, external-through, commercial vehicle, visitor travel, and intrazonal trips are not included in the estimate.

TIME OF TRAVEL

The time of travel is a function of the activity to be accomplished. The start times for trips to work and to school are dictated by the time that work and school begin. For other activities, such as trips to shop or for recreation, the trip start times are flexible. As travel during peak periods becomes more congested, some drivers choose to make trips earlier or later to avoid the most congested travel times. Figure 21 shows the distribution of start times for a 24-hour weekday during the school year. The highest percentage (15.7 percent) of trip starts occurs during the

morning peak period of 7:01 a.m. to 8:00 a.m. During this morning peak period, trips from home to work and trips from home to school are typical. The afternoon peak between the hours of 3:01 p.m. and 4:00 p.m. has the second highest percentage (11.3 percent) of daily trip starts. During this hour, trips from school to home are largely contributing to this peak. Trip starts during the hour from 5:01 p.m. to 6:00 p.m., which are largely trips from work to home, has the third highest percentage (10.1 percent) of daily trip starts.

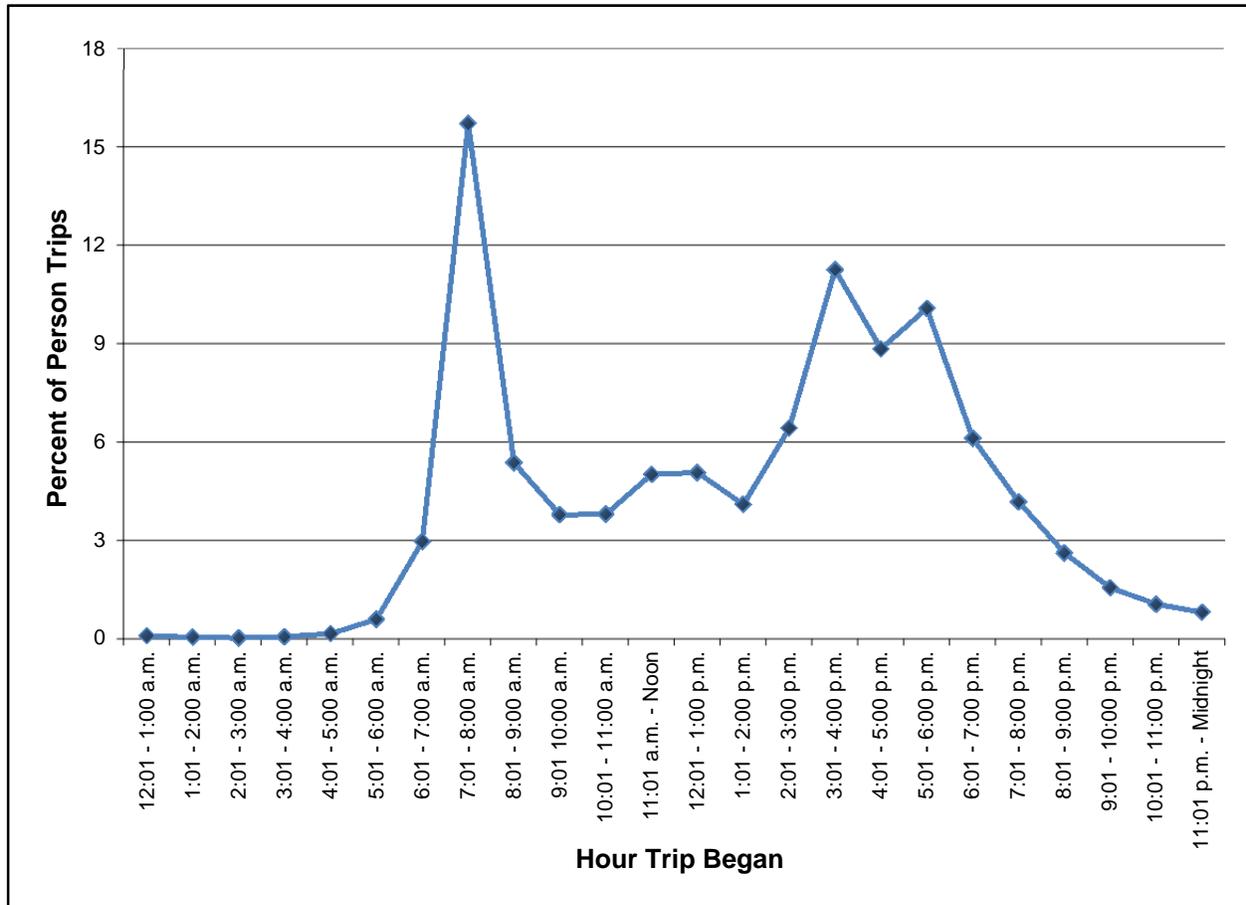


Figure 21. Distribution of Person Trip Start Times by Hour of the Day.

TRAVEL PURPOSE

As a part of their travel diary, each household member was asked to identify from a list of choices what they did at each trip destination. The information about the trip destination was used to categorize the trip by trip purpose. In travel demand modeling, typically there are three internal trip purposes—HBW, HBNW, and NHB trips. Figure 22 shows the distribution of person trips by the trip destination purposes used in the survey. As would be expected, the most frequent trip destination was the return home trip.

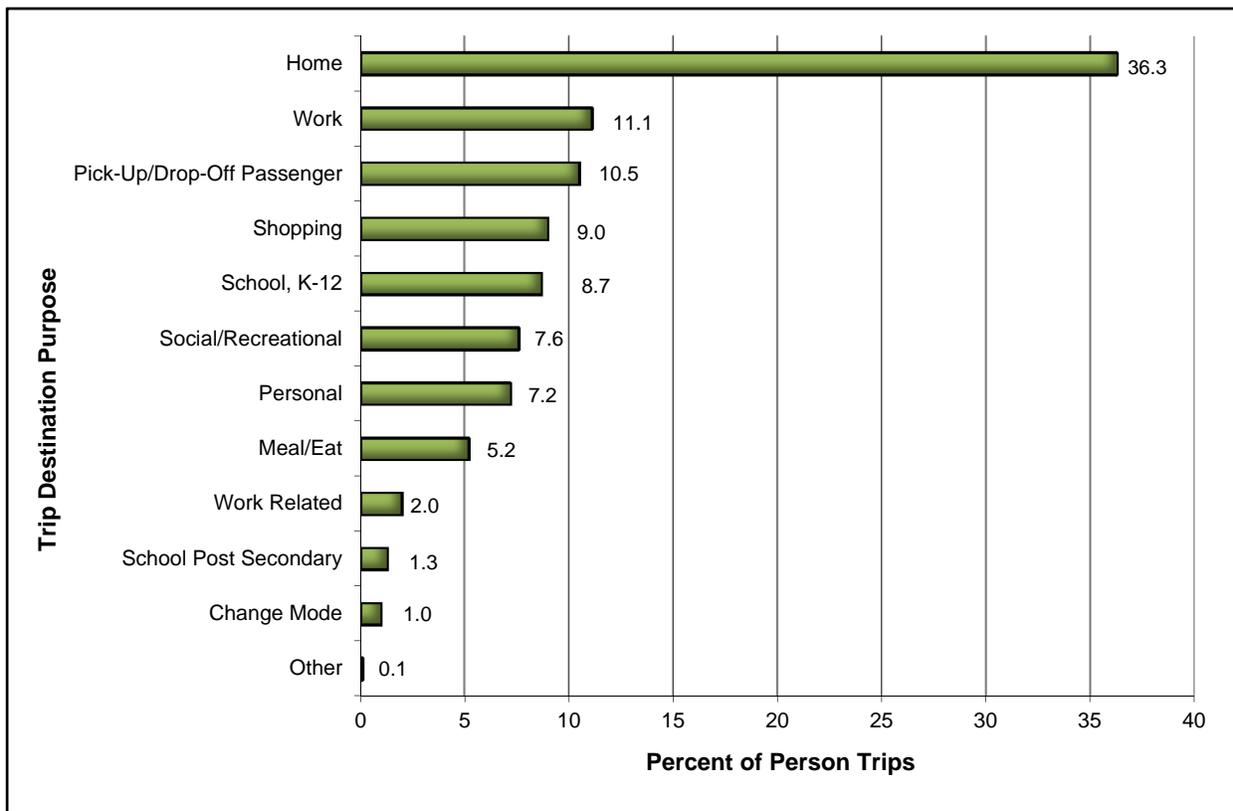


Figure 22. Distribution of Person Trips by Trip Destination Purpose.

Type of Place at Trip Destination

Closely related to the travel purpose and what the traveler did at the destination end of the trip is information on the type of place or business that was at the destination end of the trip. The travel demand modeler uses this information to develop trip attraction rates for various types of land use. In travel demand modeling, attractions are typically grouped into four categories—basic, retail, service, and education. Table 5 shows the distribution of person trips by the types of places identified in the survey for the destination end of the trip.

Table 5. Number of Person Trips and Distribution of Person Trips by Type of Place at Trip Destination.

Type of Place	Person Trips	Percent of Person Trips
Residential	34,488	8.06
Residential Type Work Place	1,215	0.28
Construction Site	1,175	0.27
Transportation Stop	2,956	0.69
Automotive Dealer/Repair	5,104	1.19
Bank/Financial Institution	6,079	1.43
Barber/Beauty/Nail Salon	3,524	0.82
Bookstore/Newsstand	698	0.16
Convenience/Drug Store	5,030	1.17
Government Offices	10,397	2.43
Offices Non-Government	19,542	4.56
Grocery	23,973	5.60
Health Club	7,601	1.78
Medical Facility/Hospital	21,852	5.10
Movie Theater/Cinema	1,433	0.34
Restaurant/Fast Food, Bar and Grill	38,736	9.05
Educational-12th Grade or Lower	122,288	28.56
Educational-College, Trade, Etc.	35,591	8.31
Shopping Mall/Department Store	33,323	7.79
Gas Station	9,013	2.11
Airport	349	0.08
Other	0	0.00
Do Not Know/Refused	43,756	10.22
Total	428,123	100.00

WHERE PEOPLE TRAVELED

Figure 23 shows the Bryan-College Station MPO area divided into seven sub-regions. This map is used to generally illustrate the geographic distribution of internal person trip movements within the region. Figure 24 through Figure 30 illustrates the number of person trip interchanges between each sub-region and all other sub-regions. The general amount of travel between each sub-region within the region is reflected by the width of the line between each subarea. The

wider the line is indicates a greater amount of travel between the sub-regions. Figure 31, the final figure in this sequence, shows the percent of person trips that remained within each sub-region.

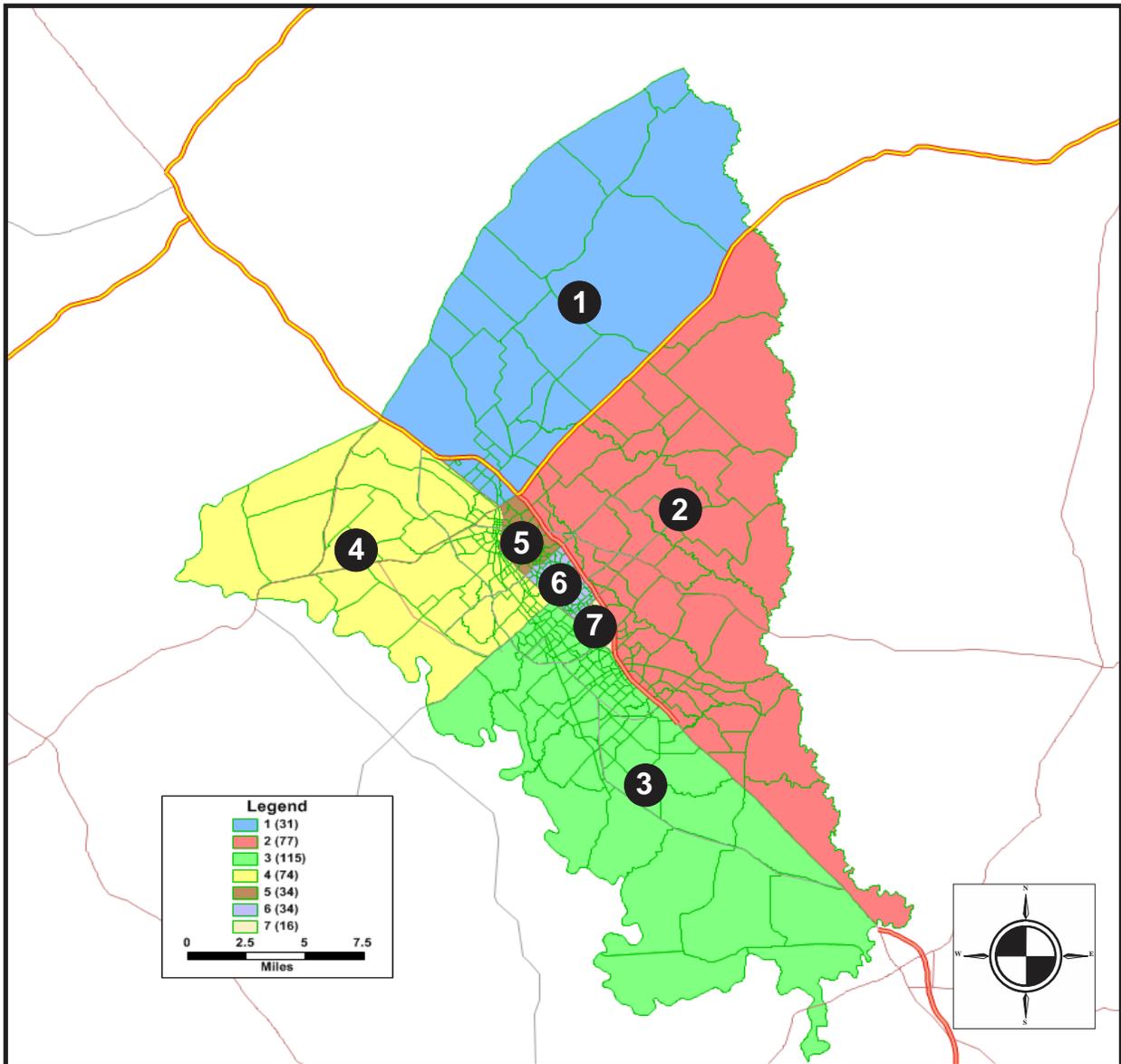


Figure 23. Bryan-College Station MPO Area and the Seven Sub-Regions within the Study Area.

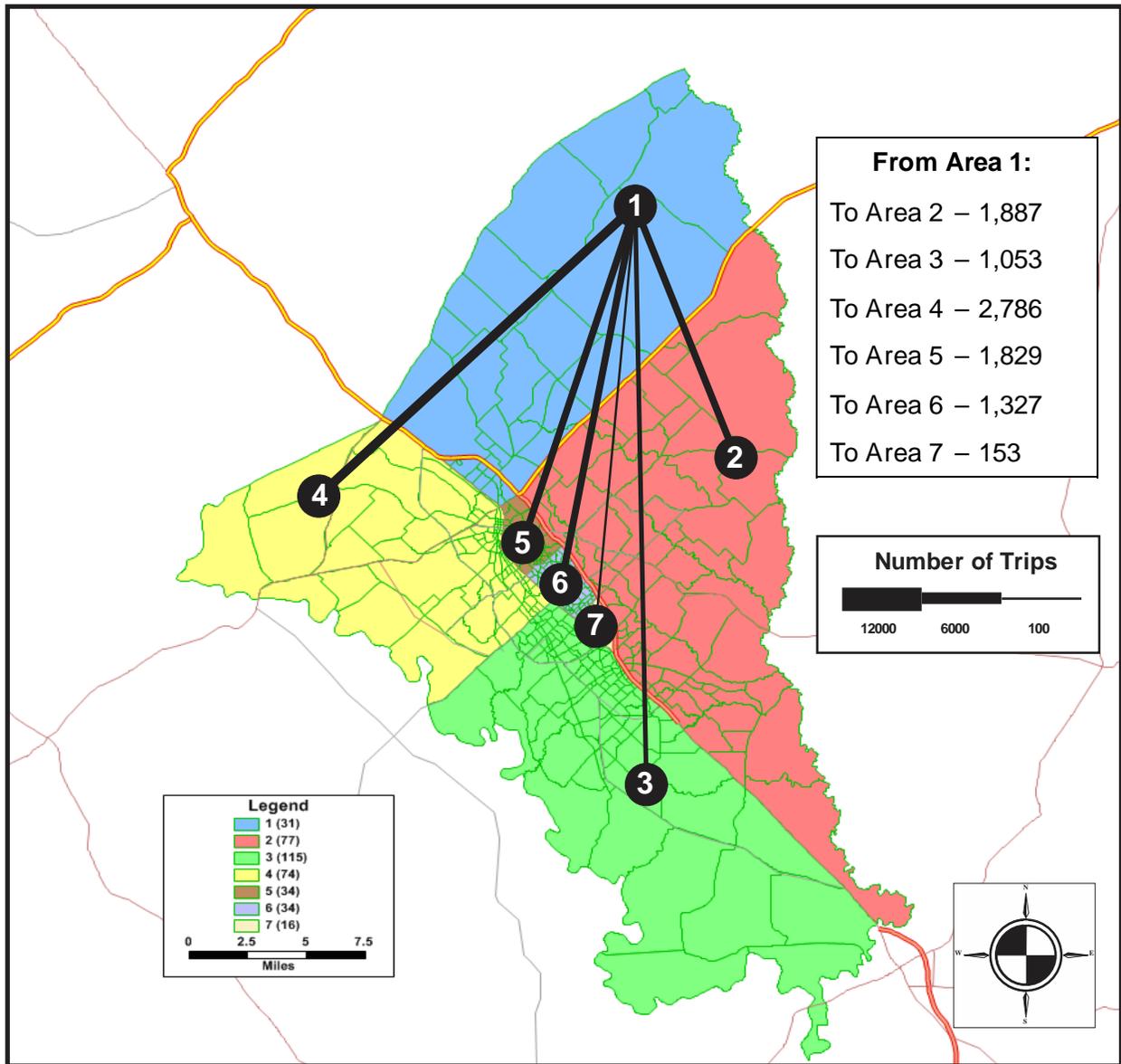


Figure 24. Person Trip Interchanges between Area 1 and Areas 2-7.

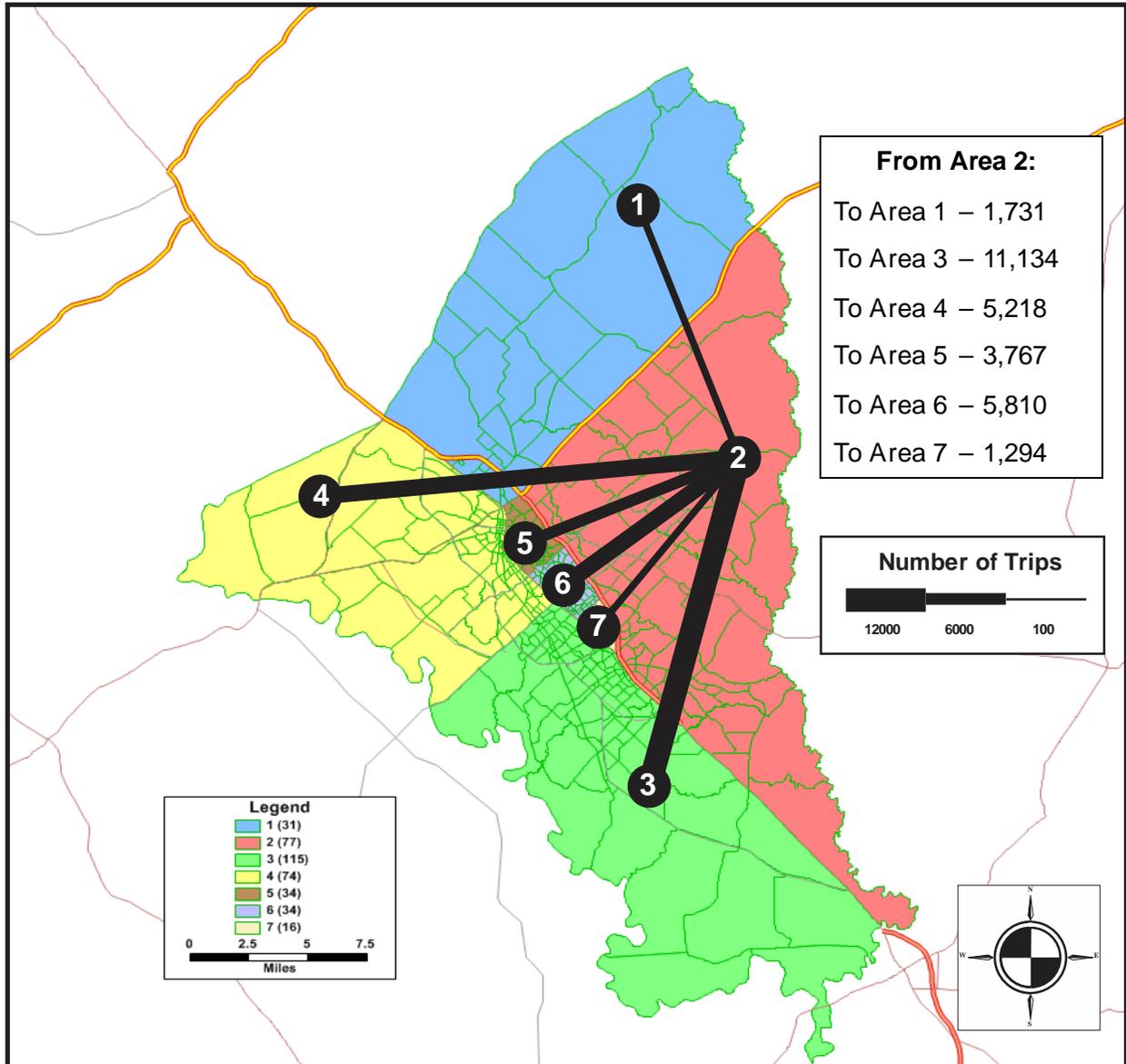


Figure 25. Person Trip Interchanges between Area 2 and Area 1 and Areas 3-7.

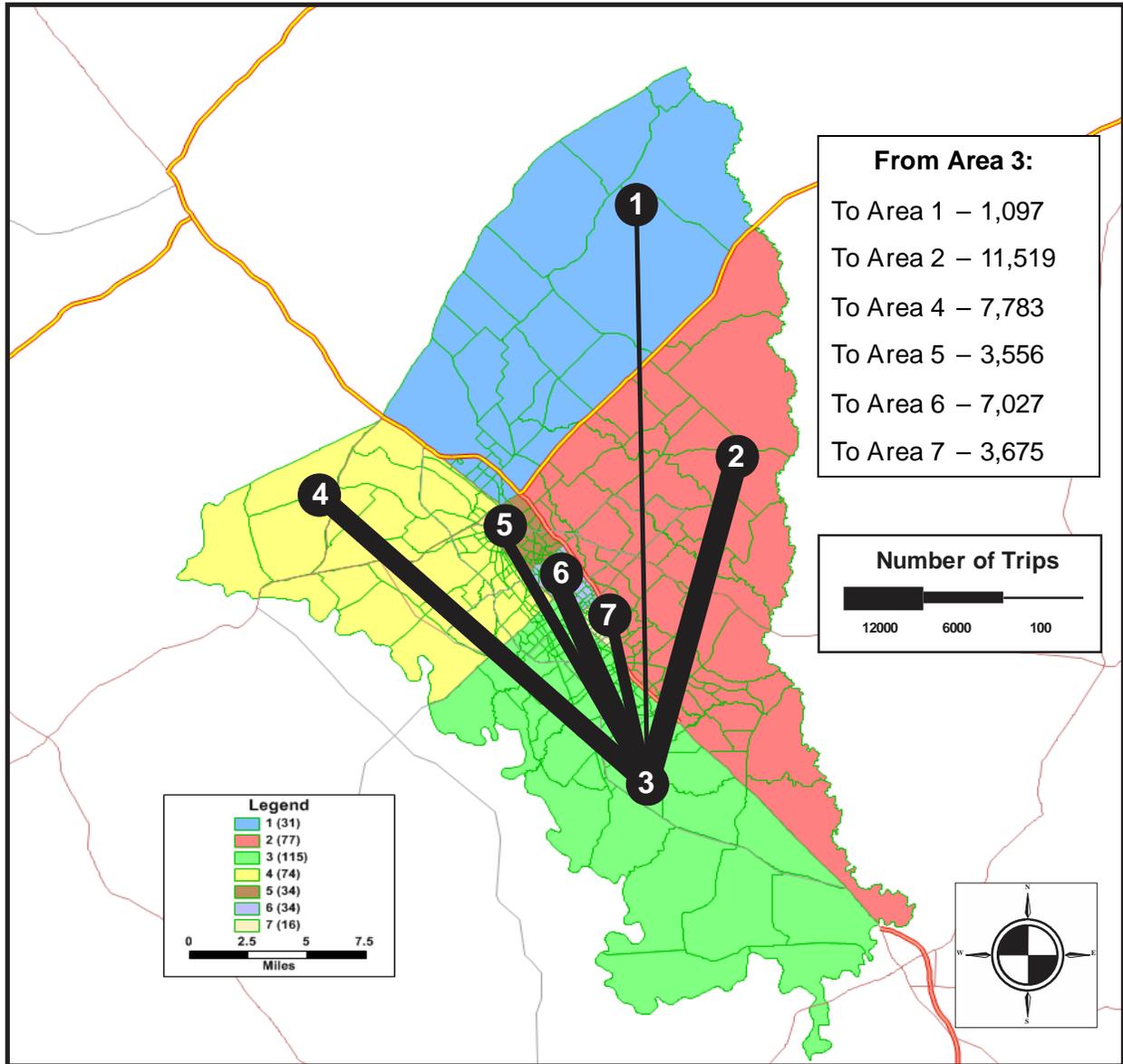


Figure 26. Person Trip Interchanges between Area 3 and Areas 1-2 and Areas 4-7.

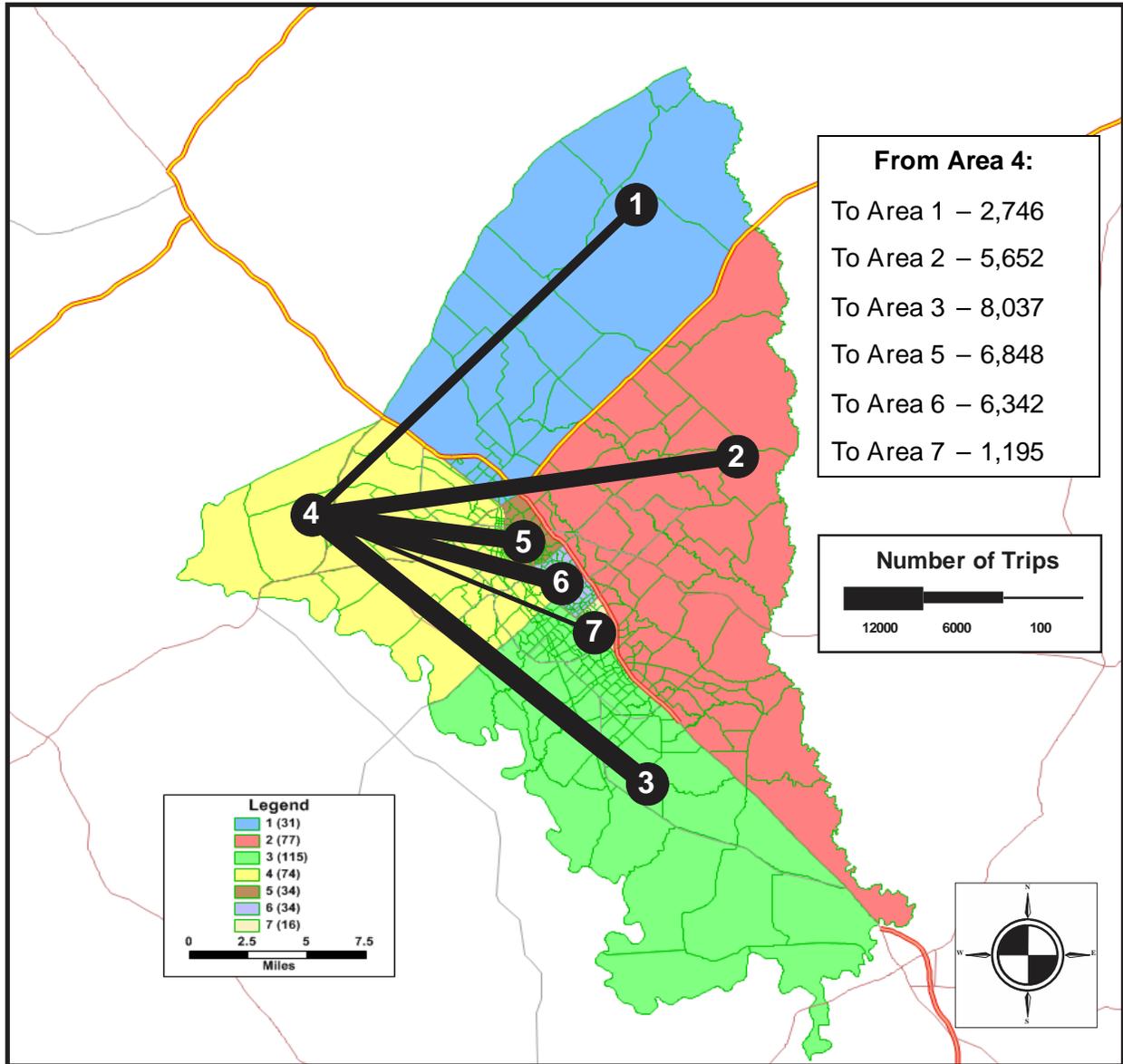


Figure 27. Person Trip Interchanges between Area 4 and Areas 1-3 and Areas 5-7.

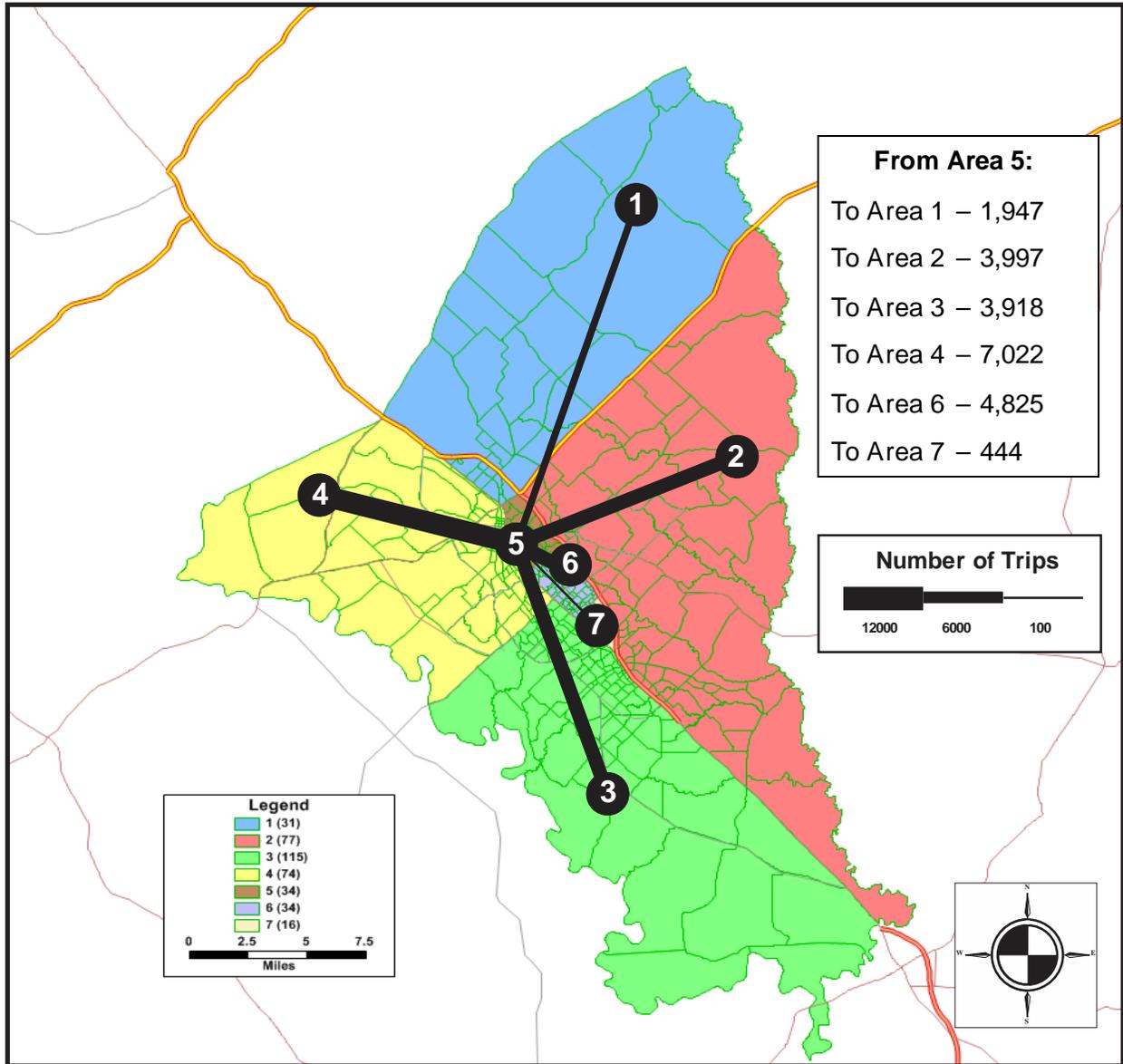


Figure 28. Person Trip Interchanges between Area 5 and Areas 1-4 and Areas 6-7.

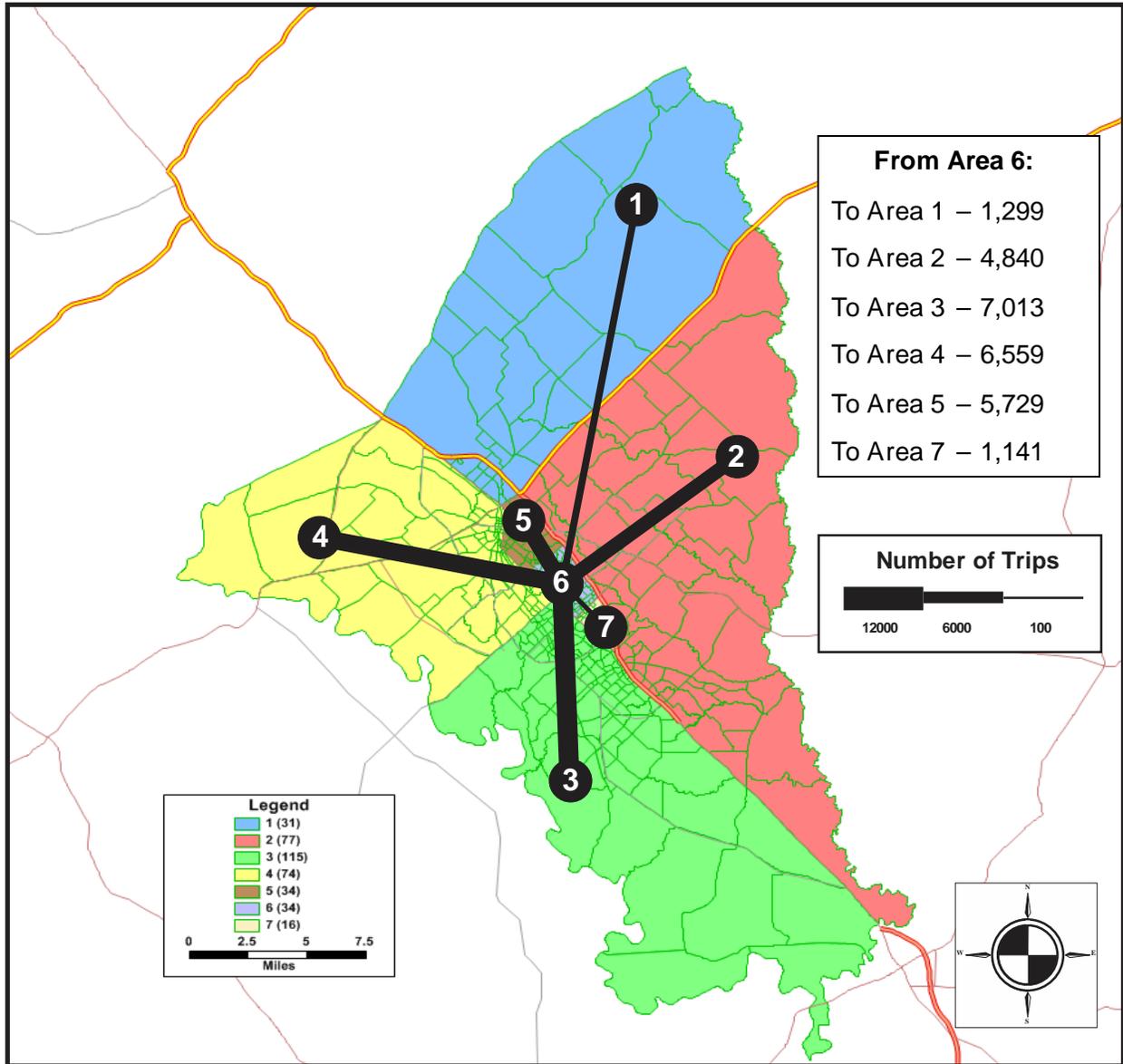


Figure 29. Person Trip Interchanges between Area 6 and Areas 1-5 and Area 7.

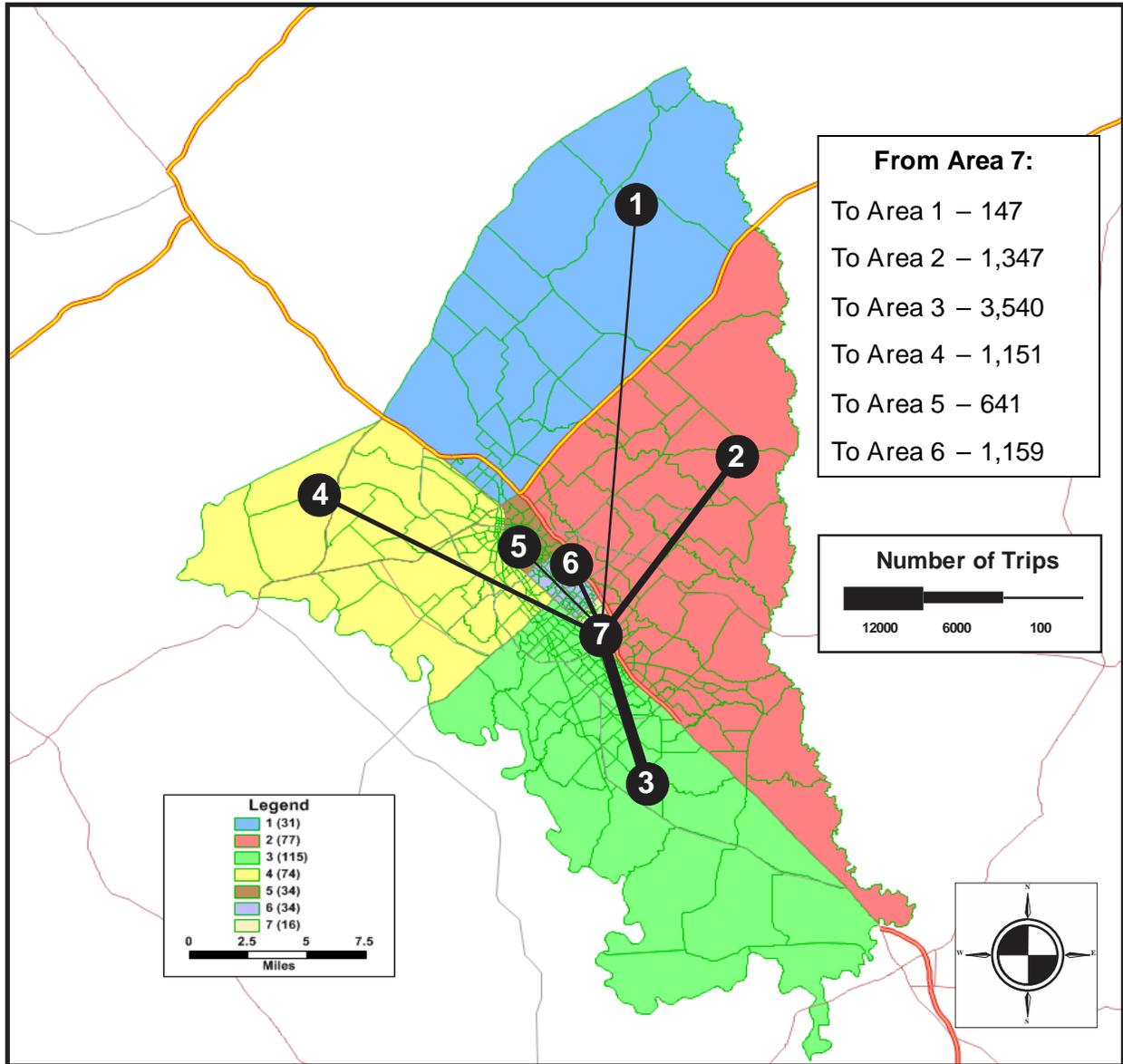


Figure 30. Person Trip Interchanges between Area 7 and Areas 1-6.

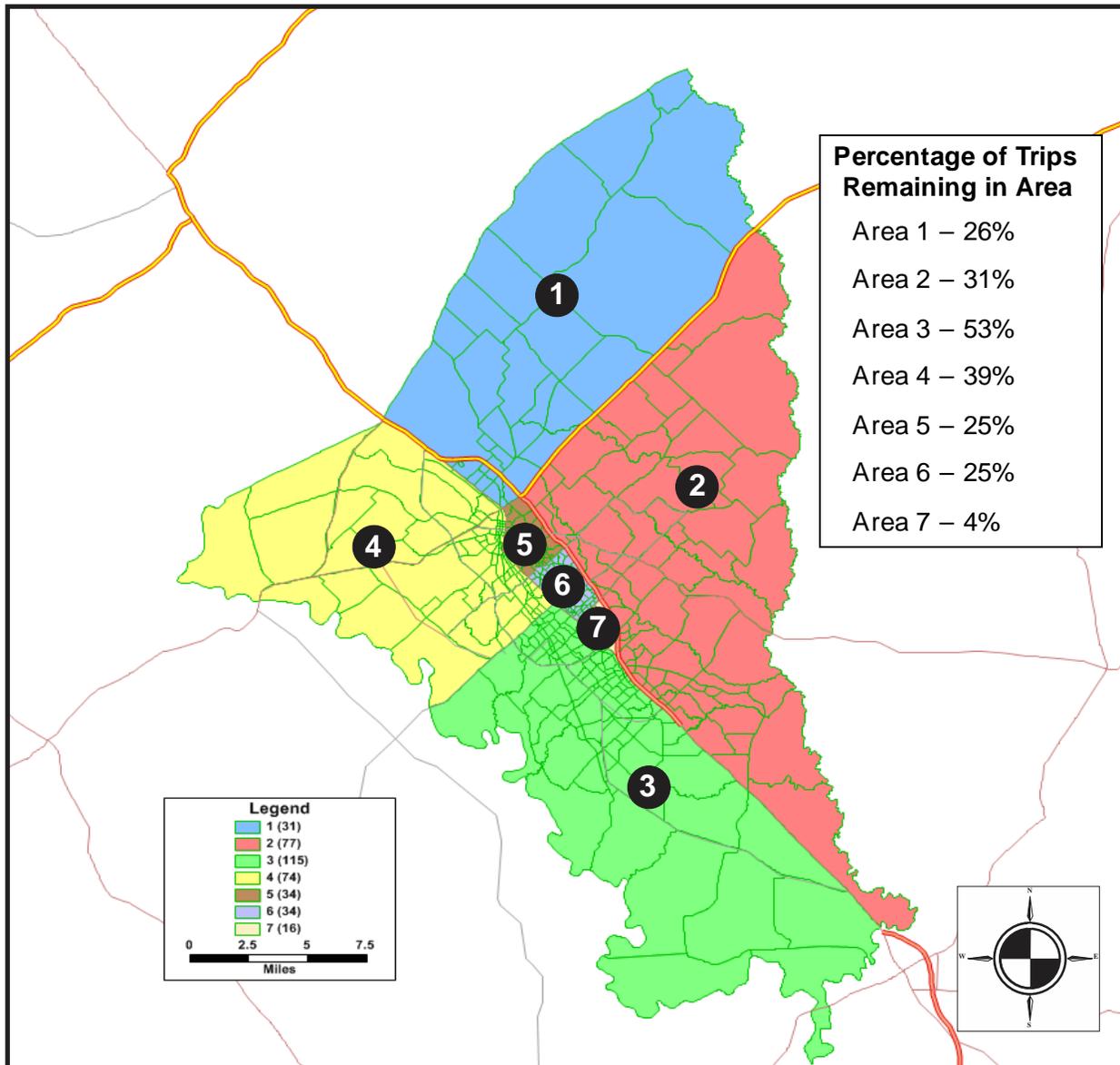


Figure 31. Percent of Person Trips that Remain within Each Sub-Region.

SUMMARY DATA

Table 6 shows the household survey summary data for the Bryan-College Station MPO area and for travel surveys conducted in a few other study areas in Texas. More detailed data than provided in this report has been provided to TxDOT's TPP Division for their use in updating the Bryan-College Station MPO area travel demand model.

Table 6. Comparative Household Survey Data.

Urban Area	Brazos County	Killeen-Temple Study Area	McLennan County	Potter and Randall Counties	Taylor and Jones Counties
Demographics					
Household Population	134,877	335,963	228,241	233,533	131,496
Licensed Drivers	80,606	243,610	151,191	164,001	92,930
Number of Households	53,584	125,934	83,995	88,507	50,724
Average Household Size	2.52	2.67	2.72	2.64	2.59
Number of Motor Vehicles	96,451	134,398	158,805	178,784	100,571
Motor Vehicles per Household	1.79	1.07	1.89	2.02	1.98
Number of Daily Trips by Mode					
Total Person Trips	527,228	1,212,890	712,766	830,583	511,575
Automobile-Driver Trips	324,435	848,141	450,637	523,635	348,903
Motor Vehicle Passenger Trips	146,381	288,138	223,990	265,544	135,126
School Bus Trips	27,884	32,618	3,201	7,872	10,819
Walk Trips	17,490	35,372	16,627	11,563	6,818
Public Transit Trips	4,239	831	3,201	7,872	2,394
Bicycle Trips	6,126	1,888	4,781	2,002	1,017
Commercial Vehicle Trips	322	125,862	111,659	81,403	113,789
Other Modes/Taxi	351	2,109	NA	1,873	NA
Number of Daily Trips by Destination/Purpose					
Trips to Home	155,591	469,134	254,084	300,993	175,402
Trips to Work	47,556	150,646	80,919	86,938	50,718
Trips Work Related	8,343	32,199	21,604	25,302	12,246
Trips to Shop	38,606	128,720	74,105	95,421	53,481
Trips to Pick-Up/Drop-Off Passenger	44,736	119,222	65,744	77,014	53,811
Trips for Personal Business	30,596	97,279	59,229	73,011	38,984
Trips for Social/Recreation	32,479	77,136	69,543	68,556	37,945
Trips for School (K-12)	37,653	69,738	35,467	46,973	27,469
Trips for School Post Secondary	5,468	13,519	5,739	4,897	5,351
Trips for Meal/Eat	22,346	67,322	40,757	46,049	33,358
Trips to Change Mode	4,213	9,462	4,038	2,836	2,586
Other Trips	536	10,863	1,537	2,590	1,135
Daily Trip Rates					
Person Trips per Person	3.17	3.60	3.12	3.62	3.85
Person Trips per Household	9.83	9.63	8.49	9.38	9.98
Trip Lengths					
Average Person Trip Length in Miles	4.1	5.1	5.8	4.7	3.9
Average Vehicle Trip Length in Miles	4.4	5.4	6.3	5	4.1
Average Person Trip Duration in Minutes	6.8	10.1	8.8	5.9	7
Average Vehicle Trip Duration in Minutes	7.2	10.3	9.4	6.1	7.3

TERMINOLOGY

Within the context of the household travel survey, a number of terms are used. These terms are defined in this section.

Automobile Driver Trip – The movement of a vehicle from one location to another location. These trips are recorded for the person driving the vehicle. These are also referred to as vehicle trips.

Home-Based Non-Work (HBNW) Trip – A trip with one end of the trip at home and the other end of the trip is at a location other than the work location. An HBNW trip is non-directional in terms of the trip activity/trip purpose.

Home-Based Work (HBW) Trip – A trip that has one end of the trip at home and the other end of the trip at work. An HBW trip is non-directional in terms of the trip activity/trip purpose (i.e., a trip from home to work or from work to home is defined as an HBW trip).

Mode of Travel – The physical means used by the household member to make a trip. The modes are walk, vehicle driver, vehicle passenger, carpool driver, carpool passenger, public transportation, school bus, taxi/paid limousine, bicycle, motorcycle/moped, and other.

Non-Home-Based (NHB) Trip – A trip with neither end of the trip at home.

Person Trip – The movement of an individual from one location to another location. In the household survey, trips were recorded for all persons in a surveyed household.

Trip Activity – The activity at the location the trip began and/or the location the trip ended. There are 22 activities used in the household survey. The activities were recorded in the survey and post processed to identify the trip purpose associated with each trip activity.

Trip Attractions – The number of trips attracted to a particular category of land use. Trip attractions are calculated by trip purpose and model of travel for different land use categories.

Trip Productions – The number of trips produced by members of a household. Trip productions are calculated by trip purpose and mode of travel. Production rates are the number of trip productions divided by the number of households that produced those trips.

Trip Purpose – Stated in terms of the purpose at the location the trip began and the purpose at the location the trip ended. For example, a trip that began at home and ended at work would be referred to as a home-based work (HBW) trip. There are three primary trip purposes used in the household survey. These include HBW, HBNW, and NHB.

Vehicle Availability – The number of vehicles available to members of a household for making trips.

Vehicle Occupancy – The number of occupants in a vehicle during a vehicle trip including the driver of the vehicle.

**APPENDIX A:
HOUSEHOLD SURVEY INSTRUMENTS**

Location 5: Where did you go next?	How did you get to Location 5?	What did you do here?
When did you arrive at this location? ____ : ____ . AM . PM <hr/> What is the Name of this Location? <hr/> What Type of Place/Business Is This? <hr/> Street Address (be as specific as possible) - OR - & Nearest Intersecting Streets <hr/> City _____ State _____ County _____ Zip Code (if known) _____ <hr/> Did you walk more than a block from a parking lot to this location? 01=Yes 02=No Where did you park? _____ Did you pay to park? 01=Yes 02=No How much did you pay to park? \$ _____ Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____	What was the primary type of transportation you used? <input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____ How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____ <hr/> If you used a car, van, or truck for this trip . . . Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____ Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____ Was this a . . .? • Carpool • Vanpool • Neither Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? • Yes • No	What did you do at this location? (check all that apply) <input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____ <hr/> When did you leave this location? ____ : ____ . AM . PM -----OR----- • This was the last place I went today
If You Forgot a Stop <i>Anywhere</i> Between This Location and Location 6, Provide the Information Below:		
For what reason did you stop between Location 5 and 6? _____		Number of minutes stopped: _____
Where did you stop? Name of Stop Location _____	Address or Nearest Intersection _____	City, County, and State _____
Location 6: Where did you go next?	How did you get to Location 6?	What did you do here?
When did you arrive at this location? ____ : ____ . AM . PM <hr/> What is the Name of this Location? <hr/> What Type of Place/Business Is This? <hr/> Street Address (be as specific as possible) - OR - & Nearest Intersecting Streets <hr/> City _____ State _____ County _____ Zip Code (if known) _____ <hr/> Did you walk fore than a block from a parking lot to this location? 01=Yes 02=No Where did you park? _____ Did you pay to park? 01=Yes 02=No How much did you pay to park? \$ _____ Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____	What was the primary type of transportation you used? <input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____ How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____ <hr/> If you used a car, van, or truck for this trip . . . Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____ Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____ Was this a . . .? • Carpool • Vanpool • Neither Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? • Yes • No	What did you do at this location? (check all that apply) <input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____ <hr/> When did you leave this location? ____ : ____ . AM . PM -----OR----- • This was the last place I went today
If You Forgot a Stop <i>Anywhere</i> Between This Location and Location 7, Provide the Information Below:		
For what reason did you stop between Location 6 and 7? _____		Number of minutes stopped: _____
Where did you stop? Name of Stop Location _____	Address or Nearest Intersection _____	City, County, and State _____

Location 7: Where did you go next?	How did you get to Location 7?	What did you do here?
When did you arrive at this location? ____ : ____ . AM . PM <hr/> What is the Name of this Location? <hr/> What Type of Place/Business Is This? <hr/> Street Address (be as specific as possible) - OR - & Nearest Intersecting Streets <hr/> City _____ State _____ County _____ Zip Code (if known) _____ <hr/> Did you walk more than a block from a parking lot to this location? 01=Yes 02=No Where did you park? Did you pay to park? 01=Yes 02=No How much did you pay to park? \$ _____ Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____	What was the primary type of transportation you used? <input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____ How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____ <hr/> <i>If you used a car, van, or truck for this trip . . .</i> Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____ Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____ Was this a . . .? <input type="checkbox"/> Carpool <input type="checkbox"/> Vanpool <input type="checkbox"/> Neither Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? <input type="checkbox"/> Yes <input type="checkbox"/> No	What did you do at this location? (check all that apply) <input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____ <hr/> When did you leave this location? ____ : ____ . AM . PM -----OR----- <input type="checkbox"/> This was the last place I went today
If You Forgot a Stop <i>Anywhere</i> Between This Location and Location 8, Provide the Information Below:		
For what reason did you stop between Location 7 and 8? _____		Number of minutes stopped: _____
Where did you stop?	Name of Stop Location _____ Address or Nearest Intersection _____	City, County, and State _____
Location 4: Where did you go next?	How did you get to Location 4?	What did you do here?
When did you arrive at this location? ____ : ____ . AM . PM <hr/> What is the Name of this Location? <hr/> What Type of Place/Business Is This? <hr/> Street Address (be as specific as possible) - OR - & Nearest Intersecting Streets <hr/> City _____ State _____ County _____ Zip Code (if known) _____ <hr/> Did you walk more than a block from a parking lot to this location? 01=Yes 02=No Where did you park? Did you pay to park? 01=Yes 02=No How much did you pay to park? \$ _____ Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____	What was the primary type of transportation you used? <input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____ How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____ <hr/> <i>If you used a car, van, or truck for this trip . . .</i> Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____ Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____ Was this a . . .? <input type="checkbox"/> Carpool <input type="checkbox"/> Vanpool <input type="checkbox"/> Neither Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? <input type="checkbox"/> Yes <input type="checkbox"/> No	What did you do at this location? (check all that apply) <input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____ <hr/> When did you leave this location? ____ : ____ . AM . PM -----OR----- <input type="checkbox"/> This was the last place I went today
If You Forgot a Stop <i>Anywhere</i> Between This Location and Location 5, Provide the Information Below:		
For what reason did you stop between Location 4 and 5? _____		Number of minutes stopped: _____
Where did you stop?	Name of Stop Location _____ Address or Nearest Intersection _____	City, County, and State _____

Location 3: Where did you go next?	How did you get to Location 3?	What did you do here?
When did you arrive at this location? _____ : _____ . AM . PM What is the Name of this Location? _____ What Type of Place/Business Is This? _____ Street Address (be as specific as possible) _____ - OR - & Nearest Intersecting Streets _____ City _____ State _____ County _____ Zip Code (if known) _____ Did you walk more than a block from a parking lot to this location? 01=Yes 02=No Where did you park? _____ Did you pay to park? 01=Yes 02=No How much did you pay to park? \$ _____ Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____	What was the primary type of transportation you used? <input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____ How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____ <i>If you used a car, van, or truck for this trip . . .</i> Were you the . . . ? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____ Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____ Was this a . . . ? • Carpool • Vanpool • Neither Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? • Yes • No	What did you do at this location? (check all that apply) <input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____ When did you leave this location? _____ : _____ . AM . PM ----- OR ----- • This was the last place I went today
If You Forgot a Stop <i>Anywhere</i> Between This Location and Location 4, Provide the Information Below:		
For what reason did you stop between Location 3 and 4? _____		Number of minutes stopped: _____
Where did you stop? Name of Stop Location _____	Address or Nearest Intersection _____	City, County, and State _____
Location 8: Where did you go next?	How did you get to Location 8?	What did you do here?
When did you arrive at this location? _____ : _____ . AM . PM What is the Name of this Location? _____ What Type of Place/Business Is This? _____ Street Address (be as specific as possible) _____ - OR - & Nearest Intersecting Streets _____ City _____ State _____ County _____ Zip Code (if known) _____ Did you walk more than a block from a parking lot to this location? 01=Yes 02=No Where did you park? _____ Did you pay to park? 01=Yes 02=No How much did you pay to park? \$ _____ Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____	What was the primary type of transportation you used? <input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____ How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____ <i>If you used a car, van, or truck for this trip . . .</i> Were you the . . . ? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____ Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____ Was this a . . . ? • Carpool • Vanpool • Neither Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? • Yes • No	What did you do at this location? (check all that apply) <input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____ When did you leave this location? _____ : _____ . AM . PM ----- OR ----- • This was the last place I went today
If You Forgot a Stop <i>Anywhere</i> Between This Location and Location 9, Provide the Information Below:		
For what reason did you stop between Location 8 and 9? _____		Number of minutes stopped: _____
Where did you stop? Name of Stop Location _____	Address or Nearest Intersection _____	City, County, and State _____

Location 9: Where did you go next?	How did you get to Location 9?	What did you do here?
<p>When did you arrive at this location? _____ : _____ . AM . PM</p> <p>What is the Name of this Location? _____</p> <p>What Type of Place/Business Is This? _____</p> <p>Street Address (be as specific as possible) _____ - OR - & Nearest Intersecting Streets _____</p> <p>City _____ State _____ County _____</p> <p>Zip Code (if known) _____</p> <p>Did you walk more than a block from a parking lot to this location? 01=Yes 02=No</p> <p>Where did you park? _____</p> <p>Did you pay to park? 01=Yes 02=No</p> <p>How much did you pay to park? \$ _____</p> <p>Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____</p>	<p>What was the primary type of transportation you used?</p> <p><input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____</p> <p>How far did you walk to the bus stop? _____</p> <p>How far did you walk to your destination? _____</p> <p>Intersection where you get off the bus? _____</p> <p style="background-color: #f2f2f2;">If you used a car, van, or truck for this trip . . .</p> <p>Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger</p> <p>Including yourself, how many TOTAL people were in the vehicle? _____</p> <p>Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____</p> <p>Was this a . . .? • Carpool • Vanpool • Neither</p> <p>Please indicate the following about the vehicle: Year _____ Make/Model _____</p> <p>Was this your household's vehicle? • Yes • No</p>	<p>What did you do at this location? (check all that apply)</p> <p><input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____</p> <p style="background-color: #f2f2f2;">When did you leave this location?</p> <p>_____ : _____ . AM . PM</p> <p>-----OR-----</p> <p>• This was the last place I went today</p>
If You Forgot a Stop <u>Anywhere</u> Between This Location and Location 10, Provide the Information Below:		
For what reason did you stop between Location 9 and 10? _____		Number of minutes stopped: _____
Where did you stop? Name of Stop Location _____	Address or Nearest Intersection _____	City, County, and State _____
Location 2: Where did you go next?	How did you get to Location 2?	What did you do here?
<p>When did you arrive at this location? _____ : _____ . AM . PM</p> <p>What is the Name of this Location? _____</p> <p>What Type of Place/Business Is This? _____</p> <p>Street Address (be as specific as possible) _____ - OR - & Nearest Intersecting Streets _____</p> <p>City _____ State _____ County _____</p> <p>Zip Code (if known) _____</p> <p>Did you walk more than a block from a parking lot to this location? 01=Yes 02=No</p> <p>Where did you park? _____</p> <p>Did you pay to park? 01=Yes 02=No</p> <p>How much did you pay to park? \$ _____</p> <p>Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____</p>	<p>What was the primary type of transportation you used?</p> <p><input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____</p> <p>How far did you walk to the bus stop? _____</p> <p>How far did you walk to your destination? _____</p> <p>Intersection where you get off the bus? _____</p> <p style="background-color: #f2f2f2;">If you used a car, van, or truck for this trip . . .</p> <p>Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger</p> <p>Including yourself, how many TOTAL people were in the vehicle? _____</p> <p>Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____</p> <p>Was this a . . .? • Carpool • Vanpool • Neither</p> <p>Please indicate the following about the vehicle: Year _____ Make/Model _____</p> <p>Was this your household's vehicle? • Yes • No</p>	<p>What did you do at this location? (check all that apply)</p> <p><input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____</p> <p style="background-color: #f2f2f2;">When did you leave this location?</p> <p>_____ : _____ . AM . PM</p> <p>-----OR-----</p> <p>• This was the last place I went today</p>
If You Forgot a Stop <u>Anywhere</u> Between This Location and Location 3, Provide the Information Below:		
For what reason did you stop between Location 2 and 3? _____		Number of minutes stopped: _____
Where did you stop? Name of Stop Location _____	Address or Nearest Intersection _____	City, County, and State _____

Location 1: Where did you go next?	How did you get to Location 1?	What did you do here?
<p>When did you arrive at this location? : : AM PM</p> <p>What is the Name of this Location? </p> <p>What Type of Place/Business Is This? </p> <p>Street Address (be as specific as possible) - OR - & Nearest Intersecting Streets </p> <p>City State County</p> <p>Zip Code (if known)</p> <p>Did you walk more than a block from a parking lot to this location? 01=Yes 02=No</p> <p>Where did you park? </p> <p>Did you pay to park? 01=Yes 02=No How much did you pay to park? \$</p> <p>Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other</p>	<p>What was the primary type of transportation you used?</p> <p><input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____</p> <p>How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____</p> <p><i>If you used a car, van, or truck for this trip . . .</i></p> <p>Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____</p> <p>Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____</p> <p>Was this a . . .? • Carpool • Vanpool • Neither</p> <p>Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? • Yes • No</p>	<p>What did you do at this location? (check all that apply)</p> <p><input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____</p> <p>When did you leave this location? : : AM PM ----- OR ----- • This was the last place I went today</p>
If You Forgot a Stop <i>Anywhere</i> Between This Location and Location 2, Provide the Information Below:		
For what reason did you stop between Location 1 and 2? _____		Number of minutes stopped: _____
Where did you stop? Name of Stop Location _____ Address or Nearest Intersection _____		City, County, and State _____
Location 10: Where did you go next?	How did you get to Location 10?	What did you do here?
<p>When did you arrive at this location? : : AM PM</p> <p>What is the Name of this Location? </p> <p>What Type of Place/Business Is This? </p> <p>Street Address (be as specific as possible) - OR - & Nearest Intersecting Streets </p> <p>City State County</p> <p>Zip Code (if known)</p> <p>Did you walk more than a block from a parking lot to this location? 01=Yes 02=No</p> <p>Where did you park? </p> <p>Did you pay to park? 01=Yes 02=No How much did you pay to park? \$</p> <p>Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other</p>	<p>What was the primary type of transportation you used?</p> <p><input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____</p> <p>How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____</p> <p><i>If you used a car, van, or truck for this trip . . .</i></p> <p>Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____</p> <p>Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____</p> <p>Was this a . . .? • Carpool • Vanpool • Neither</p> <p>Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? • Yes • No</p>	<p>What did you do at this location? (check all that apply)</p> <p><input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____</p> <p>When did you leave this location? : : AM PM ----- OR ----- • This was the last place I went today</p>
If You Forgot a Stop <i>Anywhere</i> Between This Location and Location 11, Provide the Information Below:		
For what reason did you stop between Location 10 and 11? _____		Number of minutes stopped: _____
Where did you stop? Name of Stop Location _____ Address or Nearest Intersection _____		City, County, and State _____

Location 11: Where did you go next?	How did you get to Location 11?	What did you do here?
When did you arrive at this location? _____ : _____ . AM . PM What is the Name of this Location? _____ What Type of Place/Business Is This? _____ Street Address (be as specific as possible) _____ - OR - _____ & Nearest Intersecting Streets _____ City _____ State _____ County _____ Zip Code (if known) _____ Did you walk more than a block from a parking lot to this location? 01=Yes 02=No Where did you park? _____ Did you pay to park? 01=Yes 02=No How much did you pay to park? \$ _____ Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other _____	What was the primary type of transportation you used? <input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____ How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____ <i>If you used a car, van, or truck for this trip . . .</i> Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____ Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____ Was this a . . .? • Carpool • Vanpool • Neither Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? • Yes • No	What did you do at this location? (check all that apply) <input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____ When did you leave this location? _____ : _____ . AM . PM _____ - OR - _____ • This was the last place I went today
If You Forgot a Stop <u>Anywhere</u> Between This Location and Location 12, Provide the Information Below:		
For what reason did you stop between Location 11 and 12? _____ Number of minutes stopped: _____ Where did you stop? _____ <div style="display: flex; justify-content: space-between; font-size: small;"> Name of Stop Location Address or Nearest Intersection City, County, and State </div>		
Start Location: At 3:00 am today, were you . . . ?		
<input type="checkbox"/> At Home Street Address (be as specific as possible) _____ City _____ County _____ State _____ _____ Zip Code (if known) _____ _____ & _____ Nearest Intersecting Streets Why NO travels? _____	<input type="checkbox"/> Traveling (you were driving or flying at 3:00 am today) What type of transportation were you using? <input type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus (Specify Route: _____) <input type="checkbox"/> Other _____ Were you the . . .? <input type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? _____ Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? _____ Was this a . . .? • Carpool • Vanpool • Neither Please indicate the following about the vehicle: Year _____ Make/Model _____ Was this your household's vehicle? • Yes • No	<input type="checkbox"/> At Work, or <input type="checkbox"/> At Another Location What is the Name of this Location? _____ What Type of Place/Business Is This? _____ Street Address (be as specific as possible) _____ City _____ County _____ State _____ _____ Zip Code (if known) _____ _____ & _____ Nearest Intersecting Streets
<div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> <div style="text-align: center;">↓</div> <div style="text-align: center;">↓</div> <div style="text-align: center;">↓</div> </div> <p style="text-align: center;">At what time did you leave your starting location? _____ <input type="checkbox"/> AM <input type="checkbox"/> PM</p> <p style="text-align: center;"><i>Please proceed to "Location 1" on the next page.</i></p>		

Additional Instructions

- If you travel by bus please include your walk to and from the bus stop as individual trips.
- If you stopped to at a gas station or drive-thru, please record each location as an individual trip
- Return trips home should also be recorded as individual trips
- If someone stays home all day – Mark Location 1 "Stayed home all day" and return the diary in the enclosed envelope
- If someone is out of town or away from the residence for the entire day and night – Mark Location 1 "Out of Region all day" and return the diary in the enclosed envelope

If you have any questions, please call:
ETC Institute
1-888-801-5368

Work Location

If employed, please provide the following information about your work location:

Name of Employer

Address of Workplace

City

State

County

Zip Code

Additional Locations

Use the additional sheets provided if you have more than 11 Locations where you made a stop.

Questions?

If you have any questions, please call **1-888-801-5368** toll-free.

ETC Institute
725 W. Frontier Circle
Olathe, KS 66061

Comments

Thank you for your participation in this important survey.

****** Example ******

Location 2: Where did you go next?	How did you get to Location 2?	What did you do here?
When did you arrive at this location? 6 : 36 AM XM FedEx What is the Name of this Location? shipping What Type of Place/Business Is This? Street Address (be as specific as possible) Boonville Rd OR Tx 6 Frontage Nearest Intersecting Streets Bryan TX Brazos City State County 77808 Zip Code (if known) Did you walk more than a block from a parking lot to this location? 01=Yes 02=No Where did you park? Did you pay to park? 01=Yes 02=No How much did you pay to park? \$ 0 Pay Method: 01=Hourly 02=Daily 03=Weekly 04=Monthly 05=Annually 96=Other	What was the primary type of transportation you used? <input checked="" type="checkbox"/> Car, van, truck <input type="checkbox"/> Motorcycle or moped <input type="checkbox"/> Bicycle <input type="checkbox"/> Taxi <input type="checkbox"/> Walk <input type="checkbox"/> School Bus <input type="checkbox"/> Service vehicle <input type="checkbox"/> Cargo transport vehicle <input type="checkbox"/> Transit Bus <input type="checkbox"/> Other _____ How far did you walk to the bus stop? _____ How far did you walk to your destination? _____ Intersection where you get off the bus? _____ If you used a car, van, or truck for this trip... Were you the...? <input checked="" type="checkbox"/> driver <input type="checkbox"/> passenger Including yourself, how many TOTAL people were in the vehicle? 2 Including yourself, how many people from YOUR HOUSEHOLD were in the vehicle? 2 Was this a...? <input type="checkbox"/> Carpool <input type="checkbox"/> Vanpool <input checked="" type="checkbox"/> Neither Please indicate the following about the vehicle: Year 2003 Make/Model Chevy Impala Was this your household's vehicle? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	What did you do at this location? (check all that apply) <input type="checkbox"/> Return Home from your primary job <input type="checkbox"/> Return Home for another reason <input checked="" type="checkbox"/> Meal/Eat <input type="checkbox"/> Work <input type="checkbox"/> Work Related <input type="checkbox"/> School <input type="checkbox"/> Personal Business: _____ <input type="checkbox"/> Volunteer/Civic <input type="checkbox"/> Shop <input type="checkbox"/> Social/Recreation/Entertainment <input type="checkbox"/> Pick-Up/Drop-Off Passenger <input type="checkbox"/> Change Mode (e.g., car to bus): <input type="checkbox"/> Other: _____ When did you leave this location? 7 : 43 AM XM -----OR----- <input type="checkbox"/> This was the last place I went today

If You Stopped *Anywhere* Between This Location and Location 3, Provide the Information Below:

For what reason did you stop between Location 2 and 3? _____ Number of minutes stopped: _____
 Where did you stop? _____
Name of Stop Location Address or Nearest Intersection City, County, and State



2014 Texas Department of Transportation Bryan/College Station Household Activity/Travel Survey

Instructions

Please tell us about ALL locations you traveled to, what you did, and how you got there, beginning at 3 a.m. Include all changes in location you made whether you were traveling by vehicle, bus, bike, walking, or other means. Give us as much information as you can about each location or place you stopped, no matter how short. For example, if you stop to get gas on your way to work, please record both locations separately. Also, try to record as much detail about the address as possible. For example, write 123 N. Main Street instead of 123 Main.

**If you have any questions, please call 1-888-801-5368
ETC Institute**

Each person in the household completes an activity/travel diary for **ONE** day
See Example on back page

Person's age: _____ Gender: Male Female

Write your travel date: _____

Circle your travel day: Monday Tuesday Wednesday Thursday Friday

- *If someone stays home all day,*
Mark diary Location 1 "stayed home all day" and return.
- *If someone is out of town or away from residence for entire day and night,*
Mark diary Location 1 "out of region all day" and return.

**APPENDIX B:
HOUSEHOLD SURVEY DATA FILE FORMATS**

RECORD TYPE 1 - HOUSEHOLD INFORMATION

This file will contain the household information collected for each household on Part 1, Household Information in the Household Survey. The data should be in an ASCII data file.

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	2	Numeric RJ	I2	Code indicating type of record. Here it should be 1.
2. Sample Number	3	9	Numeric RJ	I7	Unique non-zero number assigned to each household participating in survey.
3. Phone	10	21	Alphanum. LJ	A12	Phone number of household.
4. Month	22	23	Numeric RJ	I2	Month of travel day.
5. Day	24	25	Numeric RJ	I2	Day of the month of travel.
6. Year	26	29	Numeric RJ	I4	Year travel day occurred
7. Day of Week	30	30	Numeric RJ	I1	Day of the week travel was recorded: 1-Monday, 2-Tuesday, 3-Wednesday, 4-Thursday, 5-Friday.
8. Advance Letter	31	32	Numeric RJ	I2	Code indicating if household received advance letter: 1-Yes, 2-No, 3-No letter sent, 98-Don't Know, 99-Refused.
9. HH address	33	92	Alphanum. LJ	A60	Street address or nearest cross streets to household.
10. HH City	93	122	Alphanum. LJ	A30	City where household is located.
11. HH State	123	137	Alphanum. LJ	A15	State where household is located.
12. HH Zip Code	138	142	Numeric RJ	I5	Zip code of household address.
13. HH County	143	144	Numeric RJ	I2	Code indicating county/area in which household is located: 1-Brazos County.
14. HH Study Area	145	146	Alphanum	A2	Use 'B' to indicate zone is in the BCS study area.
15. HH Zone	147	151	Numeric RJ	I5	This field should be left blank-TxDOT or TTI will complete. TAZ number where household is located. The HH address must be coded to a zone in the BCS study area. Unknown zones should be coded 88888.
16. HH Longitude	152	161	Numeric RJ	F10.6	Longitude of household address. If unknown, it should be coded 888.888888.
17. HH Latitude	162	171	Numeric RJ	F10.6	Latitude of household address. If unknown, it should be coded 888.888888.
18. Number Persons	172	173	Numeric RJ	I2	Number of persons living in residence.
19. Number Employed	174	175	Numeric RJ	I2	Number of persons in household that are employed either full or part time.
20. Vehicles Available	176	177	Numeric RJ	I2	Number of cars, vans, light trucks, motorcycles available for use by the HH. 98-Don't Know, 99-Refused
21. Vehicles Owned / Leased	178	179	Numeric RJ	I2	Combined number of cars, vans, light trucks, motorcycles owned or leased by members of the household. 98-Don't know, 99-Refused
22. Bikes	180	181	Numeric RJ	I2	Number of working bicycles available for use by members of household. 98-Don't know, 99-Refused
23. Residence	182	183	Numeric RJ	I2	Code indicating the type of residence. See below for code definitions.
24. Other Residence	184	213	Alphanum. LJ	A30	If residence is coded as other, this field contains a description of the type of residence.

RECORD TYPE 1, FIELD COLUMNS, CONTINUED

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
25. Tenure	214	215	Numeric RJ	I2	Code indicating number of years at residence: 1-one year or less, 2-two years, 3-three years, 4-four years, 5-five or more years, 98-Don't know, 99-Refused.
26. Previous Residence	216	217	Numeric RJ	I2	If tenure was less than five years, this code indicates if previous residence was in Brazos county: 1-Yes, 2-No, 98-Don't know, and 99-Refused.
27. Previous Zip Code	218	222	Numeric RJ	I5	If tenure was less than five years, this is the zip code of the previous residence. Use 99998 for don't know or 99999 for refused.
28. HH Factors	223	242	Alphanum LJ	A20	Code indicating factors that influenced their decision to locate in their current household. If more than one, separate code numbers by comma. See code definitions.
29. Other Factors	243	272	Alphanum LJ	A30	Other factors influencing their decision to locate in their current household.
30. Income	273	274	Numeric RJ	I2	Code indicating combined annual income of all household members. See codes below.
31. Day Visitors	275	276	Numeric RJ	I2	Number of non-family persons that stopped at this residence for any reason on the travel day. 98-Don't Know, 99-Refused
32. Overnight Visitors	277	278	Numeric RJ	I2	Number of overnight visitors at this residence during their travel day. 98-Don't Know, 99-Refused
33. Delivery Vehicle	279	280	Numeric RJ	I2	Code indicating if someone in household drives a form of delivery vehicle: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
34. Number Delivery Driver	281	282	Numeric RJ	I2	Number of persons in household that are delivery drivers or travel within study area as part of their work. 98-Don't know, 99-Refused
35. HH Vehicle Use by Non HH Number	283	284	Numeric RJ	I2	Code indicating if one or more of the household vehicles was used by a non-household member on the travel day: 1-Yes, 2-No, 3-Zero vehicle household, 98-Don't Know, 99-Refused.
36. GPS House	285	286	Numeric RJ	I2	Code indicating if household vehicles had GPS equipment installed for GPS survey: 1-Yes, 2-No.
37. Total HH Trips	287	289	Numeric RJ	I3	The total combined number of all trips made by all persons in the household on the assigned travel day.

RESIDENCE

- 1 - Unattached Single Family Home
- 2 - Condo
- 3 - Duplex
- 4 - Apartment
- 5 - Mobile Home
- 96 - Other
- 98 - Don't Know
- 99 - Refused

HH FACTORS

- 1 - Price of Property
- 2 - Taxes
- 3 - Proximity to Work
- 4 - School District
- 5 - Proximity to School
- 6 - Character of Neighborhood or Area
- 7 - Access to Public Transportation
- 8 - Security / Safety
- 96 - Other
- 98 - Don't Know
- 99 - Refused

TIME WITHOUT PHONE

- 1 - Less than one week
- 2 - one week to less than two weeks
- 3 - two weeks to less than one month
- 4 - one month to less than three months
- 5 - three months to less than six months
- 6 - six months to less than one year
- 7 - one year or more
- 98 - Don't know
- 99 - Refused

RECORD TYPE 1 - CONTINUED

HOUSEHOLD INCOME CODES

1 - Less than \$5,000	11 - \$32,500 to \$34,999	21 - \$80,000 to \$99,999
2 - \$5,000 to \$9,999	12 - \$35,000 to \$39,999	22 - \$100,000 to \$124,999
3 - \$10,000 to \$14,999	13 - \$40,000 to \$44,999	23 - \$125,000 to \$149,999
4 - \$15,000 to \$17,499	14 - \$45,000 to \$49,999	24 - \$150,000 to \$199,999
5 - \$17,500 to \$19,999	15 - \$50,000 to \$54,999	25 - \$200,000 or more
6 - \$20,000 to \$22,499	16 - \$55,000 to \$59,999	98 - Don't Know
7 - \$22,500 to \$24,999	17 - \$60,000 to \$64,999	99 - Refused
8 - \$25,000 to \$27,499	18 - \$65,000 to \$69,999	
9 - \$27,500 to \$29,999	19 - \$70,000 to \$74,999	
10 - \$30,000 to \$32,499	20 - \$75,000 to \$79,999	

RECORD TYPE 2 - PERSON INFORMATION

This file will contain the information on each person in the household in Part 2, Person Information. The data should be in an ASCII data file.

<u>Item</u>	<u>FIELD COLUMNS</u>				<u>Description</u>
	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	
1. Record Type	1	2	Numeric RJ	I2	Code indicating type of record, here it should be 2.
2. Sample Number	3	9	Numeric RJ	I7	Unique non-zero number assigned to each household participating in survey. This number should match the sample number of the above record.
3. Person Number	10	12	Numeric RJ	I3	Number assigned to each person in the household.
4. Relationship	13	14	Numeric RJ	I2	Code indicating relationship of person to the head of household. See code definitions below.
5. Sex	15	16	Numeric RJ	I2	Sex of person: 1-Male, 2-Female, 98-Don't Know, 99-Refused.
6. Ethnicity	17	18	Numeric RJ	I2	Race or ethnicity of person. See code definitions below.
7. Other Ethnicity	19	78	Alphanum RJ	A60	Description of other ethnicity which is not included in code definitions.
8. Age	79	81	Numeric RJ	I3	Age of person. 998-Don't know, 999-Refused
9. Licensed Driver	82	83	Numeric RJ	I2	Code indicating if person is a licensed driver (regardless of age): 1-Yes, 2-No, 98-Don't Know, 99-Refused.
10. Employment	84	85	Numeric RJ	I2	Code indicating if person is employed in a paying or volunteer job (regardless of age): 1-Yes, 2-No, 98-Don't Know, 99-Refused.
11. Employment Status	86	87	Numeric RJ	I2	If person is employed, this is a code number indicating the person's employment status. See code definitions.
12. Hours	88	90	Numeric RJ	I3	On average, the number of hours worked per week: 996-Varies from week to week, 998-Don't know, 999-Refused.
13. Not Employed	91	92	Numeric RJ	I2	Code indicating current status if person is not employed. See code definitions below.
14. Other Not Employed	93	152	Alphanum LJ	A60	Description of employment status if none of the options in the employment status code is applicable.
15. Commercial Vehicle Driver	153	154	Numeric RJ	I2	Code indicating if person is a commercial vehicle driver: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
16. Commercial Vehicle Type	155	156	Numeric RJ	I2	If person drives commercial vehicle, enter code identifying type of vehicle: 1-Cargo transport vehicle, 2-Commercial service vehicle, 3-Cargo transport and Service vehicle, 96-Other, 98-Don't Know, 99-Refused. If person does not drive a commercial vehicle, this field should be blank.
17. Other Commercial Vehicle Type	157	186	Alphanum. LJ	A30	If commercial vehicle type is coded as other, this field contains a description of the type of commercial vehicle.
18. Flex Time	187	188	Numeric RJ	I2	Code indicating if person's employer allows them to work flexible hours or the hours are fixed: 1-Flexible/Variable, 2-Fixed/Unchanging, 98-Don't Know, 99-Refused.
19. Job	189	190	Numeric RJ	I2	Code indicating if person has more than one paying job: 1-Yes, 2-No, 98-Don't Know, 99-Refused.

RECORD TYPE 2, FIELD COLUMNS - CONTINUED

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
20. Employer Name	191	250	Alphanum. LJ	A60	Name of person's primary employer.
21. Workplace Type	251	252	Numeric RJ	I2	Code indicating type of workplace where person is employed. See code definitions below.
22. Other Workplace	253	282	Alphanum. LJ	A30	Description if workplace type is coded as other.
23. Home Office	283	284	Numeric RJ	I2	Code indicating if workplace is a home office or business operated out of the home: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
24. Telecommute	285	286	Numeric RJ	I2	If employed 30 or more hours per week, code indicating if person works from home or telecommutes on a regular basis: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
25. Work Place Address	287	346	Alphanum. LJ	A60	Street address of work place or nearest intersecting street names.
26. Work Place City	347	376	Alphanum. LJ	A30	City where work place is located.
27. Work Place State	377	391	Alphanum. LJ	A15	State where work place is located.
28. Work Place County	392	393	Numeric RJ	I2	Code indicating county/area in which work place is located: 1-Brazos County, 96-Other, 98-Don't Know, 99-Refused.
29. Other Work Place County	394	423	Alphanum LJ	A30	If county is coded as other, this field should contain the name of the county where the work place is located.
30. Work Place Zip Code	424	428	Numeric RJ	I5	Zip code of workplace address.
31. Work Place Study Area	429	430	Alphanum	A2	Code indicating study area in which work address and TAZ zone is located. Use 'B' if address is in the Brazos County study area. If work address is outside Brazos County but in Texas, 'TX' should be entered in this field to indicate the zone number in the following field is a state zone number. Field should be left blank if location is outside the state of Texas.
32. Work Zone	431	435	Numeric RJ	I5	This field should be left blank-TxDOT or TTI will complete. Zone where workplace is located. This should be coded to a TAZ in the BCS study area. If unknown but in the study area being surveyed, it should be coded 88888. Locations outside of the study area but within Texas should be coded using the Statewide Zone System. Unknown locations outside of the study areas but within Texas should be coded 66666. Addresses in Mexico should be coded 77777. Addresses outside of Texas and Mexico should be coded using 99999.
33. Work Place Longitude	436	445	Numeric RJ	F10.6	Longitude of workplace location. If within the study area being surveyed, but unknown it should be coded 888.888888. If outside the study area being surveyed but within Texas and unknown, it should be coded as 666.666666. Locations in Mexico should be coded 777.777777 and addresses outside of Texas and Mexico should be coded 999.999999.

RECORD TYPE 2, FIELD COLUMNS - CONTINUED

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
34. Work Place Latitude	446	455	Numeric RJ	F10.6	Latitude of workplace location. If within the study area being surveyed, but unknown it should be coded 888.888888. If outside the study area being surveyed but within Texas and unknown it should be coded as 666.666666. Locations in Mexico should be coded 777.777777 and addresses outside of Texas and Mexico should be coded 999.999999.
35. Days Worked	456	457	Numeric RJ	I2	Number of days per week person typically works. 98-Don't Know, 99-Refused
36. Work at Home	458	459	Numeric RJ	I2	Out of the last seven days, the number of days worked at home instead of going to work. Valid responses: 0-7, 98-Don't Know, 99-Refused.
37. Second Job Type	460	461	Numeric RJ	I2	Code indicating type of workplace where person works at second job. See code definitions below.
38. Other Second Job	462	521	Alphanum. LJ	A60	Description if workplace type for second job is coded as other.
39. Second Job Employment Status	522	523	Numeric RJ	I2	If person is employed in a second job, this is a code number indicating the person's employment status related to the second job. See code definitions below.
40. Total Hours	524	526	Numeric RJ	I3	Total hours on average person works per week at all jobs. 998-Don't know, 999-Refused
41. Primary Occupation	527	528	Numeric RJ	I2	Code indicating the type of occupation for primary job. See code definitions below.
42. Primary Industry	529	530	Numeric RJ	I2	Code indicating the type of industry worked in for primary job. See code definition below.
43. Secondary Occupation	531	532	Numeric RJ	I2	Code indicating the type of occupation for secondary job. See code definitions below.
44. Secondary Industry	533	534	Numeric RJ	I2	Code indicating the type of industry worked in for secondary job. See code definition below.
45. Student Status	535	536	Numeric RJ	I2	Code indicating if person is enrolled in any type of school: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
46. School Type	537	538	Numeric RJ	I2	Code indicating type of school attended. See code definitions below.
47. Other School Type	539	598	Alphanum. LJ	A60	Description of school type if coded as other.
48. Hours Enrolled	599	600	Numeric RJ	I2	If person is enrolled in a college, trade school, etc., code indicates if person is enrolled for 12 or more hours: 1-Yes, 2-No, 98-Don't know, 99-Refused.
49. Bike Use	601	602	Numeric RJ	I2	Number of days a person rode a bike in the last seven days. 98-Don't Know, 99-Refused
50. Bike Purpose	603	604	Numeric RJ	I2	Code indicating the most common trip purpose for person's bike trips. See code definitions below.
51. Disability	605	606	Numeric RJ	I2	Code indicating if person has transportation disability: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
52. Travel	607	608	Numeric RJ	I2	Code indicating if person traveled on the designated travel day: 1-Yes, 2-No, 96-Indicates person was out of town or away from the residence for the entire day and night of their travel day.

RECORD TYPE 2, FIELD COLUMNS - CONTINUED

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
53. Person trips	609	611	Numeric RJ	I3	The total number of trips the person made on his/her travel day.
54. Why No Travel	612	671	Alphanum LJ	A60	Description of why the person did not make any trips on the travel day.
55. Diary Use	672	673	Numeric RJ	I2	Code indicating if person used diary or if information is based on memory: 1-Yes, used diary, 2-No, did not use diary - information is based on memory.
56. Data Retrieval	674	675	Numeric RJ	I2	Code indicating how data was retrieved: 1- from respondent, 2-by proxy, 3-mailed diary, 4-internet, 98-Don't know, 99-Refused.
57. Proxy ID	676	677	Numeric RJ	I2	This item identifies the person by person number who provided the information. 98- Don't know; 99-Refused
58. Date data was retrieved	678	681	Numeric RJ	I4	The month and day the data was retrieved. Record all months as 2 digits and all days as 2 digits with the month preceding the day. Example: April 1st should be coded as 0401.
59. Travel to Austin - San Antonio	682	683	Numeric RJ	I2	Code indicating frequency of travel to Austin - San Antonio. See options below.
60. Travel to Dallas - Ft. Worth	684	685	Numeric RJ	I2	Code indicating frequency of travel to Dallas - Ft. Worth. See options below.
61. Travel to Houston	686	687	Numeric RJ	I2	Code indicating frequency of travel to Houston. See options below.
62. Passenger Rail to Houston, Austin - San Antonio or Dallas - Ft. Worth	688	689	Numeric RJ	I2	Code indicating whether respondent would use passenger rail service to Houston, Austin - San Antonio or Dallas - Ft. Worth: 1 - Yes, 2 - No, 3 - Possibly.

RELATIONSHIP

- 0 - Head of Household
- 1 - Husband / Wife / Unmarried Partner
- 2 - Mother / Father / In-law
- 3 - Brother / Sister / In-law
- 4 - Grandfather / Grandmother
- 5 - Grandson / Granddaughter
- 6 - Son / Daughter / In-law
- 7 - Aunt / Uncle
- 8 - Other Relative
- 9 - Other Non-Relative
- 10 - Household Help
- 98 - Don't Know
- 99 - Refused

NOT EMPLOYED STATUS

- 1 - Retired
- 2 - Disability Status
- 3 - Homemaker
- 4 - Looking for Work
- 5 - Not Looking for Work
- 6 - Student (any age)
- 96 - Other
- 98 - Don't Know
- 99 - Refused

ETHNICITY

- 1 - Black / African American
- 2 - Hispanic / Mexican American
- 3 - Asian / Pacific Islander
- 4 - Native American
- 5 - White / Caucasian
- 96 - Other
- 98 - Don't Know
- 99 - Refused

WORK PLACE TYPE

- 1 - Office (Non-government)
- 2 - Office (Government)
- 3 - Retail/Shopping/Gas
- 4 - Industrial/Manufacturing/Warehouse
- 5 - Medical
- 6 - Education - Day Care/K-12
- 7 - Education-College, trade school, other
- 8 - Residential
- 9 - Airport
- 10 - Eating Establishment
- 96 - Other
- 98 - Don't Know
- 99 - Refused

EMPLOYMENT STATUS

- 1 - Employed full time 30 or more hours per week
- 2 - Employed part time less than 30 hours per week
- 3 - Self employed full time 30 or more hours per week
- 4 - Self employed part time less than 30 hours per week
- 98 - Don't Know
- 99 - Refused

OCCUPATION

- 1 - Management, professional, and related occupations
- 2 - Service occupations
- 3 - Sales and office occupations
- 4 - Farming, fishing, and forestry occupations
- 5 - Construction, extraction, and maintenance occupations
- 6 - Production, transportation, and material moving occupations
- 96 - Other / Not applicable (unemployed / student / retired)
- 98 - Don't know
- 99 - Refused

SCHOOL TYPE

- 1 - Day Care / Pre-School
- 2 - K-12th
- 3 - Post Secondary, College, Trade
- 96 - Other
- 98 - Don't Know
- 99 - Refused

BIKE TRIP PURPOSE

- 1 - Work
- 2 - School
- 3 - Shopping
- 4 - Visiting
- 5 - Recreation / Exercise
- 96 - Other
- 98 - Don't Know
- 99 - Refused

FREQUENCY OF TRAVEL OPTIONS

- 1 - Never
- 2 - 1 to 2 times per year
- 3 - 1 to 2 times every 6 months
- 4 - 1 to 2 times every 3 months
- 5 - 1 or more times every month
- 6 - 1 or more times every week

RECORD TYPE 2 - CONTINUED

INDUSTRY

- 1 - Agriculture, forestry, fishing and hunting, mining
- 2 - Construction
- 3 - Manufacturing
- 4 - Wholesale trade
- 5 - Retail trade
- 6 - Transportation, warehousing, utilities
- 7 - Information
- 8 - Finance, insurance, real estate, rental and leasing
- 9 - Professional, scientific, management, administrative, and waste management services
- 10 - Education, health, and social services
- 11 - Arts, entertainment, recreation, accommodation, food services
- 12 - Other services (except public administration)
- 13 - Public Administration
- 96 - Not Applicable - (unemployed, student, retired)
- 98 - Don't Know
- 99 - Refused

RECORD TYPE 3-VEHICLE INFORMATION

This file will contain the information on each vehicle available to members in each household. Each vehicle will have a data record. The data should be in an ASCII data file.

FIELD COLUMNS					
<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	2	Numeric RJ	I2	Code indicating type of record, here it should be 3.
2. Sample Number	3	9	Numeric RJ	I7	Unique non-zero number assigned to each household participating in survey.
3. Vehicle Number	10	11	Numeric RJ	I2	Unique non-zero number assigned to vehicle.
4. Type of Vehicle	12	13	Numeric RJ	I2	Code indicating type of vehicle. See code definitions below.
5. Other Vehicle Type	14	43	Alphanum LJ	A30	Other vehicle type not listed in vehicle code below.
6. Year	44	47	Numeric RJ	I4	Year vehicle was manufactured. 9998-Don't Know, 9999-Refused
7. Make	48	49	Numeric RJ	I2	Make of vehicle. See vehicle make codes below.
8. Other Make	50	109	Alphanum LJ	A60	Specify other make of vehicle if not included in vehicle make codes below.
9. Model	110	169	Alphanum. LJ	A60	Model of vehicle.
10. Type of Fuel	170	171	Numeric RJ	I2	Type of fuel used by vehicle: 1-Gasoline, 2-Diesel, 3-Propane, 4-Natural Gas, 5-Electricity, 6-Gas/Electric Hybrid, 96-Other, 98-Don't Know, 99-Refused.
11. Other Fuel Type	172	186	Alphanum. LJ	A15	Other type of fuel specified.
12. Commercial Use	187	188	Numeric RJ	I2	Code indicating if vehicle is used for commercial purposes: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
13. Commercial Type of Use	189	190	Numeric RJ	I2	If vehicle is used for commercial purposes, this field contains a code indicating the type of commercial use: 1-Cargo Delivery, 2-Commercial Service, 3-Cargo delivery and Commercial Service, 96-Other, 98-Don't know; 99-Refused.
14. Other Commercial Type of Use	191	220	Alphanum. LJ	A30	If commercial type is coded as other, this field contains a description of the type of commercial vehicle.
15. Odometer	221	228	Numeric RJ	I8	Odometer reading on vehicle at beginning of travel day. 99999998-Don't know, 99999999-Refused
16. Ownership	229	230	Numeric RJ	I2	Code indicating ownership of this vehicle: 1-Owned or leased by a member of HH, 2-Owned or leased by a non-household member or business, 98-Don't Know, 99-Refused.
17. Non HH Use	231	232	Numeric RJ	I2	Code indicating if vehicle was used by a non-household member on the travel day: 1-Yes, 2-No, 98-Don't Know, 99-Refused.

TYPE OF VEHICLE CODES

- 1 - Motorcycle (includes mopeds)
- 2 - Car (includes station wagons)
- 3 - Van (mini and passenger)
- 4 - Sport Utility Vehicle
- 5 - Pickup Truck
- 6 - Cargo Van
- 96 - Other
- 98 - Don't Know
- 99 - Refused

RECORD TYPE 3 - CONTINUED

VEHICLE MAKE CODES

1 - Acura	42 - Alfa Romeo
2 - Audi	43 - AM General
3 - BMW	44 - AMC
4 - Buick	45 - Austin / Austin Healey
5 - Cadillac	46 - Bluebird
6 - Chevrolet	47 - Brockway
7 - Chrysler	48 - BSA
8 - Dodge	49 - Daihatsu
9 - Ford	50 - Diamond Reo / Reo
10 - Geo	51 - Ducati
11 - GMC	52 - Eagle
12 - Harley Davidson	53 - Eagle Coach
13 - Honda	54 - Fiat
14 - Hyundai	55 - Freightliner
15 - Infiniti	56 - FWD
16 - Isuzu	57 - Gillig
17 - Jaguar	58 - Grumman
18 - Jeep	59 - Imperial
19 - Kawasaki	60 - International Harvester / Navistar
20 - KIA	61 - Iveco / Magirus
21 - Lexus	62 - Kenworth
22 - Lincoln	63 - Lancia
23 - Mazda	64 - Mack
24 - Mercury	65 - MCI
25 - Mercedes-Benz	66 - Merkur
26 - Mitsubishi	67 - MG
27 - Nissan/Datsun	68 - Moto-Guzzi
28 - Oldsmobile	69 - Norton
29 - Plymouth	70 - Peterbuilt
30 - Pontiac	71 - Peugeot
31 - Porsche	72 - Renault
32 - Range/Land Rover	73 - Sterling
33 - Saab	74 - Thomas Built
34 - Saturn	75 - Triumph
35 - Subaru	76 - White / Autocar-White GMC
36 - Suzuki	77 - Yugo
37 - Toyota	78 - Other Make Moped
38 - Volkswagen	79 - Other Make Motorcycle
39 - Volvo	96 - Other
40 - Yamaha	98 - Don't Know
41 - Daewoo	99 - Refused

RECORD TYPE 4-TRIP INFORMATION

This file will contain the trip/activity information for each person in each household. The data should be in an ASCII data file.

<u>Item</u>	<u>FIELD COLUMNS</u>				<u>Description</u>
	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	
1. Record Type	1	2	Numeric RJ	I2	Code indicating type of record. Here it should be 4.
2. Sample Number	3	9	Numeric RJ	I7	Unique non-zero number assigned to each household participating in survey. This number must match the number used for the same household and recorded in the Household Data File.
3. Month	10	11	Numeric RJ	I2	Month of travel day.
4. Day	12	13	Numeric RJ	I2	Day of the month of travel.
5. Year	14	17	Numeric RJ	I4	Year travel day occurred.
6. Person Number	18	19	Numeric RJ	I2	Number assigned to the person doing this activity.
7. Activity/Trip Number	20	21	Numeric RJ	I2	The first trip/activity for each person will be recorded as 0 for where their day began. Each subsequent trip/activity should be numbered sequentially as 1, 2, 3, etc.
8. Activity Type Code	22	23	Numeric RJ	I2	Code indicating the type of activity. See activity codes below. For activity 0 (where day began), this should be coded as 1 if it began at home, 4 if day began at work, or as 96 if it began at another location. If this is coded as 96, the activity description should be included in the activity description field.
9. Other Activity Description	24	83	Alphanum LJ	A60	Description of other activity.
10. Location	84	113	Alphanum. LJ	A30	Name of location where activity took place.
11. Location Address	114	173	Alphanum. LJ	A60	Street address of location or names of nearest intersecting streets.
12. Location City	174	203	Alphanum. LJ	A30	Name of city where location is.
13. Location State	204	218	Alphanum. LJ	A15	Name of state where location is.
14. Location County	219	220	Numeric RJ	I2	Code indicating county/area where location is: 1-Brazos County, 96-Other, enter name of county in next field, 98-Don't Know, 99-Refused.
15. Other County Location	221	250	Alphanum. LJ	A30	If county location is coded as other, this field should contain the name of the county where location is.
16. Location Zip Code	251	255	Numeric RJ	I5	Zip code of location address.
17. Exit Route Name	256	315	Alphanum LJ	A60	If location is outside of the study area being surveyed, this is the name of the highway/route/road used to exit the applicable study area.
18. External Zone	316	320	Numeric RJ	I5	This field should be left blank-TxDOT or TTI will complete. If location is outside the study area being surveyed, this field should contain the external zone number associated with the name of the highway/route/road used to exit the applicable study area.
19. Location Study Area	321	322	Alphanum	A2	Code indicating study area in which activity address/TAZ zone is located. Use 'B' if address is in Brazos County. If location is outside the study area being surveyed but within Texas, this field should be coded 'TX' to indicate the zone number in the next field is a state zone number. Field should be left blank if location is outside Texas.

RECORD TYPE 4, FIELD COLUMNS - CONTINUED

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
20. Location Zone Number	323	327	Numeric RJ	I5	This field should be left blank-TxDOT or TTI will complete. Zone number of location address. If in the study area being surveyed but location unknown, it should be coded 88888. Locations in Mexico should be coded 77777 and addresses outside of the study area being surveyed, but within Texas should be coded using the Statewide Zone System. Unknown locations outside of the study area being surveyed but within the state of Texas should be coded 66666. Addresses outside of Texas and Mexico should be coded using 99999.
21. Location Longitude	328	337	Numeric RJ	F10.6	Longitude of location. If within the study area being surveyed, but unknown it should be coded 888.888888. If outside the study area being surveyed but within Texas and unknown it should be coded as 666.6666. Locations in Mexico should be coded 777.7777 and addresses outside of Texas and Mexico should be coded 999.9999.
22. Location Latitude	338	347	Numeric RJ	F10.6	Latitude of location. If within the study area being surveyed, but unknown it should be coded 888.8888. If outside the study area being surveyed but within Texas and unknown it should be coded as 666.6666. Locations in Mexico should be coded 777.7777 and addresses outside of Texas and Mexico should be coded 999.9999.
23. Type of Place	348	349	Numeric RJ	I2	Code indicating the type of place at this location. If coded as other, specify in the next field. See code definitions below.
24. Other Type of Place	350	379	Alphanum. LJ	A30	Description of type of place where activity occurred if coded as other.
25. Purpose	380	381	Numeric RJ	I2	Purpose of trip, developed based on the activity type. See code definitions below.
26. Mode of Travel	382	383	Numeric RJ	I2	Code indicating mode of travel used in traveling to this location. See travel mode code definitions below.
27. Other Mode of Travel	384	413	Alphanum. LJ	A30	If other is coded in mode of travel, this is the description of the other mode.
28. Number of People	414	415	Numeric RJ	I2	If mode of travel was by auto, van, truck, commercial vehicle, motorcycle/moped, or taxi/limo, this is the number of persons in the vehicle, including the person driving. All other modes (bus, bicycle, walk, etc.) should be coded 96.
29. HH Members	416	417	Numeric RJ	I2	Of those in the vehicle, how many were household (HH) members. Field should be blank if number of people was coded 96.
30. Persons on Trip	418	427	Alphanum LJ	A10	Who was/were the HH members traveling with you? Code person numbers separated by commas.
31. Non HH Members	428	429	Numeric RJ	I2	Compute Non HH Members as number of people minus number of HH member. If number of people is coded as 96, this field should be blank.
32. HH Vehicle	430	431	Numeric RJ	I2	Was a HH vehicle used to make this trip? 1=Yes, 2=No, 98-Don't Know, 99-Refused
33. Vehicle Used	432	433	Numeric RJ	I2	If household vehicle was used for travel, this is the vehicle number (must correspond with vehicle number in household record). If other vehicle is used, this should be coded as 96.
34. Body Type	434	435	Numeric RJ	I2	See codes below for body type.
35. Other Body Type	436	465	Alphanum LJ	A30	If body type is not in code set, describe body type.
36. Other Vehicle Year	466	469	Numeric RJ	I4	Year of other vehicle used for trip. 9998-Don't Know, 9999-Refused

RECORD TYPE 4, FIELD COLUMNS - CONTINUED

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
37. Other Vehicle Make	470	471	Numeric RJ	I2	Make of other vehicle used for trip. See codes below.
38. Other Vehicle Make Description	472	531	Alphanum. LJ	A60	If make of other vehicle is coded as other, this field contains a description of the vehicle make.
39. Other Vehicle Model	532	591	Alphanum. LJ	A60	Model of other vehicle used for trip.
40. Other Vehicle Fuel	592	593	Numeric RJ	I2	Type of fuel used by other vehicle: 1-Gasoline, 2-Diesel, 3-Propane, 4-Natural Gas, 5-Electricity, 6-Gas/Electric Hybrid, 96-Other, 98-Don't Know, 99-Refused.
41. Other Fuel	594	608	Alphanum. LJ	A15	Description of other fuel for other vehicle, if coded as 96 above.
42. Other Vehicle Commercial Use	609	610	Numeric RJ	I2	Code indicating if other vehicle is used for commercial purposes: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
43. Other Vehicle Commercial Type of Use	611	612	Numeric RJ	I2	If other vehicle is used for commercial purposes, this field indicates the type of commercial use. 1-Cargo delivery, 2-Commercial Service, 3-Cargo Delivery and Commercial Service, 96-Other, 98-Don't Know, 99-Refused.
44. Other Commercial Type of Use	613	642	Alphanum. LJ	A30	If commercial type of use code above is other, this field contains a description of the commercial type of use.
45. To Bus Stop	643	644	Numeric RJ	I2	Code indicating if they walked more than one block to get to bus stop: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
46. To Activity	645	646	Numeric RJ	I2	Code indicating if they parked or got off bus more than one block from this activity: 1-Yes, 2-No, 98-Don't Know, 99-Refused.
47. Off Bus Location	647	706	Alphanum. LJ	A60	Street address or names of nearest intersecting streets where person got off of bus.
48. Park	707	708	Numeric RJ	I2	Code indicating if person parked vehicle at this location: 1-Yes, 2-No, 98-Don't know, 99-Refused.
49. Parking Location	709	768	Alphanum. LJ	A60	If vehicle was, this field should contain the street address or the names of the nearest intersecting streets where vehicle was parked.
50. Pay Parking	769	770	Numeric RJ	I2	Code indicating if person paid to park vehicle at this location: 1-Yes, 2-No, 98-Don't know, 99-Refused.
51. Parking Cost	771	777	Numeric RJ	F7.2	If person paid to park vehicle at this location, amount paid for parking.
52. Parking Payment Method	778	779	Numeric RJ	I2	If person paid to park vehicle at this location, time period for parking cost payment: 1-Hourly, 2-Daily, 3-Weekly, 4-Monthly, 5-Annually, 96-Other, 98-Don't Know, 99-Refused.
53. Arrival Hour	780	781	Numeric RJ	I2	Hour that person arrived at this location. This hour should be in terms of military time. If this is activity 0, this should be blank since this is where they began their day.
54. Arrival Minute	782	783	Numeric RJ	I2	Minute that person arrived at this location. If this is activity 0, this should be blank since this is where they began their day.
55. Departure Hour	784	785	Numeric RJ	I2	Hour that person departed this location. This hour should be in terms of military time. If this is the last activity, this should be blank.
56. Departure Minute	786	787	Numeric RJ	I2	Minute that person departed this location. If this is the last activity for this person, this should be blank.

RECORD TYPE 4 - CONTINUED

TYPE OF PLACE CODES

- 1 – Residential
- 2 - Residential Type Workplace
- 3 - Construction Site
- 4 - Transportation stop (Bus, Train)
- 5 - Automotive Dealer/Repair
- 6 - Bank / Financial Institution
- 7 - Barber/Beauty/Nail Salon
- 8 - Bookstore/News Stand
- 9 - Convenience / Drug Store
- 10 - Government/City/County/State/Federal Offices
- 11 - Offices (Non-Government)
- 12 - Grocery

ACTIVITY TYPES

- 1 - At Home; primary job related
- 2 - At Home; other
- 3 - At Home; job and non-job related
- 4 - Work
- 5 - Work Related
- 6 - School; post secondary, college, trade
- 7 - School; secondary-day care, kindergarten, elementary, middle, high
- 8 - Incidental Shopping; gas, groceries, etc.
- 9 - Major Shopping; clothes, appliances, etc.
- 10 - Banking
- 11 - Personal Business; laundry, dry cleaning, barber, medical, etc.

TRIP PURPOSE CODES

- 1 - Home (Act. Codes 1,2,3)
- 2 - Meal/Eat (14)
- 3 - Work (Act. Codes 4)
- 4 - Work Related (Act. Code 5)
- 5 - School; K thru 12 (Act. Codes 7)
- 6 - School; Post Secondary (Act. Code 6)
- 7 - Shopping (Act. Codes 8,9)
- 8 - Personal (Act. Codes 10,11,12,15)
- 9 - Social / Recreation (Act. Codes 13)
- 10 - Pick-up Drop-off (Act. Code 16, 17, 18)
- 11 - Change Mode (Act. Code 19)
- 96 - Other (Act. Code 20)
- 98 - Don't Know
- 99 – Refused

OTHER VEHICLE CLASSIFICATION CODES

- 1 - Motorcycle (includes mopeds)
- 2 - Car (includes station wagons)
- 3 - Van (mini and passenger)
- 4 - Sport Utility Vehicle
- 5 – Pick-up Truck
- 6 - Cargo Van
- 96 - Other
- 98 - Don't Know
- 99 - Refused

- 13 - Health Club
- 14 - Medical Facility/Hospital
- 15 - Movie Theater/Cinema
- 16 - Restaurant/Fast Food, Bar & Grill
- 17 - Educational - 12th Grade or lower
- 18 - Educational - college, trade, etc.
- 19 - Shopping Mall/ Department Store.
- 20 - Convenience Store/ Gas Station
- 21 - Airport
- 96 - Other
- 98 - Don't Know
- 99 - Refused

- 12 - Other Services
- 13 - Social / Recreational
- 14 - Eat Out
- 15 - Civic Activities (including church)
- 16 - Pick-up / Drop-off Person at Work
- 17 - Pick-up / Drop-off Person at School / Day Care
- 18 - Pick-up / Drop-off Person at Other
- 19 - Change Mode of Travel
- 96 - Other Activity
- 98 - Don't Know
- 99 - Refused

MODE OF TRAVEL CODES

- 1 - Walk
- 2 - Auto / Van / Truck Driver
- 3 - Auto / Van / Truck Passenger
- 4 - Carpool Driver
- 5 - Carpool Passenger
- 6 - Vanpool Driver
- 7 - Vanpool Passenger
- 8 - Commercial Service Vehicle Driver
- 9 - Commercial Service Vehicle Passenger
- 10 - Commercial Cargo Transport Vehicle Driver
- 11 - Commercial Cargo Transport Vehicle Passenger
- 12 - Bus
- 13 - School Bus
- 14 - Taxi / Paid Limo
- 15 - Bicycle
- 16 - Motorcycle / Moped
- 96 - Other
- 98 - Don't Know
- 99 - Refused

RECORD TYPE 5 - STUDENT INFORMATION

This file will contain the student information collected for each person in the Student Travel Survey. The data should be in an ASCII data file.

FIELD COLUMNS

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	2	Numeric RJ	I2	Code indicating type of record. Here it should be 5.
2. Student Sample Number	3	9	Numeric RJ	I7	Unique non-zero number assigned to each person participating in the college student survey.
3. Phone	10	21	Alphanum. LJ	A12	Phone number of student or student household.
4. Month	22	23	Numeric RJ	I2	Month of travel day.
5. Day	24	25	Numeric RJ	I2	Day of the month of travel.
6. Year	26	29	Numeric RJ	I4	Year travel day occurred
7. Day of Week	30	30	Numeric RJ	I1	Day of the week travel was reported: 1-Monday, 2-Tuesday, 3-Wednesday, 4-Thursday, 5-Friday.
8. Advance Letter	31	32	Numeric RJ	I2	Code indicating if student household received advance letter: 1-Yes, 2-No, 3-No letter sent, 98-Don't Know, 99-Refused.
9. Student HH Address	33	92	Alphanum. LJ	A60	Street address, nearest cross streets to student household, or name of apartment/condo complex
10. Student HH City	93	122	Alphanum. LJ	A30	City where student household is located.
11. Student HH State	123	137	Alphanum. LJ	A15	State where student household is located.
12. Student HH Zip Code	138	142	Numeric RJ	I5	Zip code of student household address.
13. Student HH County	143	144	Numeric RJ	I2	Code indicating county/area in which household is located: 1-Brazos County.
14. Student HH Study Area	145	146	Alphanum	A2	Use 'B' to indicate zone is in the BCS study area.
15. Student HH Zone	147	151	Numeric RJ	I5	This field should be left blank-TxDOT or TTI will complete. TAZ number where household is located. The student HH address must be coded to a zone in the BCS study area. Unknown zones should be coded 88888.
16. Student HH Longitude	152	161	Numeric RJ	F10.6	Longitude of student household address. If unknown, it should be coded 888.888888.
17. Student HH Latitude	162	171	Numeric RJ	F10.6	Latitude of student household address. If unknown, it should be coded 888.888888.
18. College ID	172	173	Numeric RJ	I2	Code indicating if person is a student at: 1-Texas A&M, 2-Blinn College, 96-Other.
19. Other College	174	203	Alphanum LJ	A30	If college ID code is other, this is description.
20. Student Type	204	205	Numeric RJ	I2	Code indicating if person is: 1-Undergraduate Student, 2-Graduate Student, 96-Other.
21. Other Student Type	206	235	Alphanum. LJ	A30	If Student Type is other, this is description.
22. Enrollment	236	237	Numeric RJ	I2	Code indicating if student is enrolled: 1-Full Time, 2-Part Time, 96-Other. Full time is 9-semester hours or greater. Part-time is less than 9 hours.
23. Other Enrollment	238	267	Alphanum. LJ	A30	If Enrollment code is other, this is description.
24. Employment	268	269	Numeric RJ	I2	Code indicating if person is employed. 1-Yes, 2-No
25. Work Location	270	271	Numeric RJ	I2	If person is employed, this code indicates if he/she works: 1-On-Campus, 2-Off Campus.
26. Work Type of Place	272	273	Numeric RJ	I2	Code indicating the type of place where the student works. Choose from type of place code list below.
27. Other Work Type of Place	274	303	Alphanum. LJ	A30	If Work Type code is other, this is description.
28. Student Residence	304	305	Numeric RJ	I2	Code indicating the type residence in which the student lives. See student residence codes below
29. Other Student Residence	306	335	Alphanum. LJ	A30	If Student Residence code is other, this is description.
30. Total Number of Roommates/HH Size	336	337	Numeric RJ	I2	The total number of roommates that live in the same dwelling (apartment, house, dorm, etc.) as the student. 98-Don't know, 99-Refused.
31. Campus Mode	338	339	Numeric RJ	I2	Code indicating the student's primary means of travel to and from the campus: See campus modes below.

RECORD TYPE 5 – FIELD COLUMNS - CONTINUED

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
32. Other Campus Mode	340	369	Alphanum. LJ	A30	If Campus Mode code is other, this is description.
33. Housing Costs	370	374	Numeric RJ	I5	The dollar amount the student pays each month for his/her share of rent or housing. 9998-Don't know, 9999-Refused.
34. Vehicle Available	375	376	Numeric RJ	I2	Code indicating if the student has a vehicle or has access to one that is available for use on a regular basis. 1-Yes, 2-No, 98-Don't Know, 99-Refused
35. Student Age	377	379	Numeric RJ	I3	Age of student. Allow 1 to 100. 998-Don't Know, 999-Refused
36. Student Gender	380	381	Numeric RJ	I2	Gender of student. 1-Male, 2-Female, 98-Don't know, 99-Refused.
37. Student Ethnicity	382	383	Numeric RJ	I2	Ethnicity of student. See ethnicity codes below.
38. Other Student Ethnicity	384	443	Numeric RJ	A60	If student ethnicity code is other, this is description.
39. Student Total Trips	444	446	Numeric RJ	I3	The total number of all trips made by the student on the travel day for which he/she provided data.
40. Why No Travel	447	506	Alphanum. LJ	A60	Description of why the student did not make any trips on the travel day.
41. Travel to Austin - San Antonio	507	508	Numeric RJ	I2	Code indicating frequency of travel to Austin - San Antonio. See options below.
42. Travel to Dallas - Ft. Worth	509	510	Numeric RJ	I2	Code indicating frequency of travel to Dallas - Ft. Worth. See options below.
43. Travel to Houston	511	512	Numeric RJ	I2	Code indicating frequency of travel to Houston. See options below.
44. Passenger Rail to Houston, Austin - San Antonio or Dallas - Ft. Worth	513	514	Numeric RJ	I2	Code indicating whether respondent would use passenger rail service to Austin - San Antonio or Houston: 1 - Yes, 2 - No, 3 - Possibly.

STUDENT RESIDENCE CODES

- 1 - On-campus Dorm
- 2 - Apartment or Condominium
- 3 - Duplex or 4-plex
- 4 - House/single family home
- 5 - Mobile Home
- 6 - Off-campus Dorm (e.g., Callaway house, Traditions at Northgate, etc.)
- 96 - Other
- 98 - Don't Know
- 99 - Refused

MODE OF TRAVEL CODES

- 1 - Car / Truck / SUV
- 2 - Bicycle
- 3 - Walk
- 4 - Motorcycle / Moped
- 5 - Texas A&M Shuttle Bus
- 6 - Apartment Shuttle Bus or Van Service
- 7 - Brazos Transit Service
- 96 - Other
- 98 - Don't Know
- 99 - Refused

ETHNICITY

- 1 - Black / African American
- 2 - Hispanic / Mexican American
- 3 - Asian / Pacific Islander
- 4 - Native American
- 5 - White / Caucasian
- 96 - Other
- 98 - Don't Know
- 99 - Refused

WORK TYPE OF PLACE CODES

- 1 - Mall/Dept. Store/Sporting Goods
- 2 - Grocery/Drug Store
- 3 - Gas Station/Convenience Store
- 4 - Restaurant/Fast Food
- 5 - Bookstore
- 6 - Medical/clinic/hospital
- 7 - Bank/Financial Institution
- 8 - Barber/beauty/nail salon
- 9 - Health/gym/sports venue
- 10 - Movies/family entertainment
- 11 - Government office
- 12 - Office (non-government)
- 13 - Education (12th grade or lower)
- 14 - Education (college or trade)
- 15 - Construction site
- 16 - Industrial/Manufacturing/Warehouse
- 17 - Residential type workplace
- 18 - Airport/Transportation
- 96 - Other
- 98 - Don't Know
- 99 - Refused

RECORD TYPE 6 - STUDENT TRIP INFORMATION

This file will contain the trip/activity information for each person in the Student Travel Survey. The data should be in an ASCII data file.

FIELD COLUMNS

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
1. Record Type	1	2	Numeric RJ	I2	Code indicating type of record. Here it should be 6.
2. Student Sample Number	3	9	Numeric RJ	I7	Unique non-zero number assigned to each person participating in the Student Travel Survey. This number must match the number used for the same person recorded in the Student Information File.
3. Month	10	11	Numeric RJ	I2	Month of travel day.
4. Day	12	13	Numeric RJ	I2	Day of the month of travel.
5. Year	14	17	Numeric RJ	I4	Year travel day occurred.
6. Activity/Trip Number	18	19	Numeric RJ	I2	The first trip/activity for each student will be recorded as 0 for where their day began. Each subsequent trip/activity should be numbered sequentially as 1, 2, 3, etc.
7. Activity Type Code	20	39	Numeric RJ	A20	Code indicating the type of activity. See activity codes below. If more than one activity is indicated, separate code numbers by comma. For activity 0 (where day began), this should be coded as a 1 if it began at home, 4 if day began at work, or as 96 if it began at another location. If this is coded as 96, the activity description should be included in the other activity description field.
8. Other Activity Description	40	99	Alphanum LJ	A60	Description of other activity.
9. Name of Location	100	129	Alphanum. LJ	A30	Name of location where activity took place (indicate name of building, facility or area if on Texas A&M campus).
10. On Texas A&M Campus	130	131	Numeric RJ	I2	Code indicating if location is on Texas A&M campus: 1-Yes, 2-No.
11. Location Address	132	191	Alphanum. LJ	A60	Street address of location or names of nearest intersecting streets (leave blank if on Texas A&M campus).
12. Location City	192	221	Alphanum. LJ	A30	Name of city or town where location is.
13. Location State	222	236	Alphanum. LJ	A15	Name of state where location is.
14. Location County	237	238	Numeric RJ	I2	Code indicating county/area where location is: 1-Brazos County, 96-Other, enter name of county in next field, 98-Don't Know, 99-Refused.
15. Other County Location	239	268	Alphanum. LJ	A30	If county location is coded as other, this field should contain the name of the county where location is.
16. Location Zip Code	269	273	Numeric RJ	I5	Zip code of location address.
17. Location Study Area	274	275	Alphanum	A2	Code indicating study area in which activity address/TAZ zone is located. Use 'B' if address is in Brazos County. If location is outside the study area being surveyed but within Texas, this field should be coded 'TX' to indicate the zone number in the next field is a state zone number. Field should be left blank if location is outside Texas.
18. Location Zone Number	276	280	Numeric RJ	I5	This field should be left blank-TxDOT or TTI will complete. Zone number of location address. If in the study area being surveyed but location unknown, it should be coded 88888. Locations in Mexico should be coded 77777 and addresses outside of the study area being surveyed, but within Texas should be coded using the Statewide Zone System. Unknown locations outside of the study area being surveyed but within the state of Texas should be coded 66666. Addresses outside of Texas and Mexico should be coded using 99999.

RECORD TYPE 6 – FIELD COLUMNS - CONTINUED

<u>Item</u>	<u>Begin</u>	<u>End</u>	<u>Type</u>	<u>Format</u>	<u>Description</u>
19. Location Longitude	281	290	Numeric RJ	F10.6	Longitude of location. If within the study area being surveyed, but unknown it should be coded 888.888888. If outside the study area being surveyed but within Texas and unknown it should be coded as 666.666666. Locations in Mexico should be coded 777.777777 and addresses outside of Texas and Mexico should be coded 999.999999.
20. Location Latitude	291	300	Numeric RJ	F10.6	Latitude of location. If within the study area being surveyed, but unknown it should be coded 888.8888. If outside the study area being surveyed but within Texas and unknown it should be coded as 666.6666. Locations in Mexico should be coded 777.7777 and addresses outside of Texas and Mexico should be coded 999.9999.
21. Type of Place	301	302	Numeric RJ	I2	Code indicating the type of place at this location. If coded as other, specify in the next field. See code definitions below.
22. Other Place	303	332	Alphanum. LJ	A30	Description of other type of place where activity occurred.
23. Mode of Travel	333	334	Numeric RJ	I2	Code indicating mode of travel used in traveling to this location. See travel mode code definitions below.
24. Other Mode	335	364	Alphanum. LJ	A30	If other is coded in mode of travel, this is the description of the other mode.
25. Driver or Passenger	365	366	Numeric RJ	I2	If mode of travel was car, truck or SUV, this indicates if person was the driver or a passenger: 1-Driver, 2-Passenger.
26. Vehicle Occupancy	367	368	Numeric RJ	I2	If mode of travel was car, truck or SUV, this is the number of persons in the vehicle, including the person driving. All other modes (bus, bicycle, walk, etc.) should be coded 96.
27. Park	369	370	Numeric RJ	I2	Code indicating if person parked vehicle at this location: 1-Yes, 2-No, 98-Don't know, 99-Refused.
28. Texas A&M Parking Location	371	372	Numeric RJ	I2	If student drove or was a passenger in a car, truck or SUV that was parked to get to a location on the Texas A&M campus, this is the parking location. See coding options below. Choose lot closest to parking location.
29. Other Texas A&M Parking Location	373	432	Alphanum. LJ	A60	If A&M parking location is coded as other, this is the description of the other parking location.
30. Texas A&M Campus Shuttle	433	434	Numeric RJ	I2	Code indicating if student used campus shuttle after parking to get closer to location on campus: 1-Yes, 2-No.
31. Arrival Hour	435	436	Numeric RJ	I2	Hour that student arrived at this location. This hour should be in terms of military time. If this is activity 0, this should be blank since this is where they began their day.
32. Arrival Minute	437	438	Numeric RJ	I2	Minute that student arrived at this location. If this is activity 0, this should be blank since this is where they began their day.
33. Departure Hour	439	440	Numeric RJ	I2	Hour that student departed this location. This hour should be in terms of military time. If this is the last activity, this should be blank.
34. Departure Minute	441	442	Numeric RJ	I2	Minute that student departed this location. If this is the last activity for this student, this should be blank.

RECORD TYPE 6 – CONTINUED**ACTIVITY TYPES**

- 1 - Return Home/Dorm from Primary Job
- 2 - Return to Home/Dorm other Reason
- 3 - Meal/Eat
- 4 - Work
- 5 - Work Related
- 6 - School/Attend Class or Lab
- 7 - Personal Business
- 8 - Volunteer/Civic
- 9 - Shop
- 10 - Social/Recreational/Entertainment
- 11 - Pick-up / Drop-off Passenger
- 12 - Change Mode (e.g., car to bus)
- 96 - Other Activity
- 98 - Don't Know
- 99 - Refused

TEXAS A&M PARKING LOCATION CODES**MAIN CAMPUS**

- 1 - Northside Garage
- 2 - Southside Garage
- 3 - University Center Garage (by Rudder Tower)
- 4 - Lot 30(a-e) by North Area Res. Halls and Life Sciences Bldg.
- 5 - Lot 50, Near Zachry Bldg. and N. Bizzel Street
- 6 - Lot 62 or 48 by Kyle Field, McFerrin, and Bright Bldgs.
- 7 - Lot 40 (a-d), by Duncan Hall/George Bush Drive

WEST CAMPUS

- 8 - West Campus Garage
- 9 - Lot 61 (across from West Campus Garage)
- 10 - Reed Arena Lot (Lots 100a-g)
- 11 - Student Rec. Center (Lot 100h)
- 12 - Olsen Field Lot (Lot 100J)
- 13 - Kleberg Bldg. Lot (Lot 74)
- 14 - Med. Center (Lot 18)
- 15 - School of Rural Public Health (Lot 114)
- 16 - Ocean Drilling Program (Lot 110)
- 17 - TTI Buildings (Lot 113)
- 18 - Bush School/Allen Bldg. (Lot 111)
- 19 - Vet School/Agronomy Road Area (Lots 24, 36, and 71)

OFF-CAMPUS PARKING LOCATIONS

- 20 - College Main Garage (Northgate)
- 21 - Northgate Surface Parking Lot
- 22 - Northgate Area, on street
- 23 - Married Student Housing (Hensel, Front, Ball Street area)
- 24 - Southside Neighborhood, on-street (across Bush Drive)
- 25 - Eastgate Neighborhood, on-street (across Texas Avenue)
- 96 - Other
- 98 - Don't Know
- 99 - Refused

TYPE OF PLACE CODES**RETAIL**

- 1 - Mall/Dept. Store/Sporting Goods
- 2 - Grocery/Drug Store
- 3 - Gas/Convenient Store
- 4 - Book Store
- 5 - Restaurant/Fast Food

SERVICE

- 6 - Medical/Clinic/Hospital
- 7 - Bank/Financial Institution
- 8 - Barber/Beauty/Nail Salon
- 9 - Health/Gym/Sports venue
- 10 - Movies/Family Entertainment

OFFICE/EDUCATION

- 11 - Government Office
- 12 - Office (non-government)
- 13 - Education (12th grade and lower)
- 14 - Education (college or trade)

MISCELLANEOUS

- 15 - Construction Site
- 16 - Industrial/Manufacture/Warehouse
- 17 - Residential
- 18 - Residential type workplace
- 19 - Airport/Bus Stop
- 96 - Other

MODE OF TRAVEL CODES

- 1 - Car / Truck / SUV
- 2 - Bicycle
- 3 - Walk
- 4 - Motorcycle / Moped
- 5 - Texas A&M Shuttle Bus
- 6 - Apartment Shuttle Bus or Van Service
- 7 - Brazos Transit Service
- 96 - Other
- 98 - Don't Know
- 99 - Refused

**Bryan-College Station MPO Household Travel and Activity Survey
GPS Data Part 1 – GPS Administrative Data File**

This file contains information about each GPS-equipped vehicle in the Household Survey. The data in this file should be submitted as a comma-delimited file (GpsAdmin.CSV) with information for each GPS-equipped vehicle entered in a separate row. Commas should not be used within individual fields.

Data Field	Type	Description
1. Data File Name	Alphanumeric	Name assigned to the data file containing the GPS data for this vehicle. Naming convention is MMDDYY_XXXX where MM is the survey month, DD is the survey day, YY is the last two digits of the survey year, and XXXX is the identification number assigned to the GPS unit installed in the vehicle.
2. Sample Number	Numeric	Unique number assigned to each household participating in survey.
3. Vehicle Number	Numeric	Unique number assigned to each household vehicle in survey. This number should match the number used for this vehicle in Record Type 3.
4. Survey Year	Numeric	Four-digit year survey travel occurred.
5. Vehicle Year	Numeric	Year vehicle was manufactured. 9998-don't know, 9999-Refused
6. Vehicle Make	Alphanumeric	Make of vehicle.
7. Vehicle Model	Alphanumeric	Model of vehicle.
8. Begin Odometer	Numeric	Odometer reading on vehicle when GPS unit was installed.
9. End Odometer	Numeric	Odometer reading on vehicle when GPS unit was removed.
10. GPS Installation Date	Numeric	Six-digit date (MMDDYY) that the GPS unit was installed (e.g. 012814)
11. GPS Installation Time	Numeric	Time GPS unit was installed (4 digits in military time e.g. 1354).
12. GPS Removal Date	Numeric	Six-digit date (MMDDYY) that the GPS unit was removed (e.g. 013014)
13. GPS Removal Time	Numeric	Time GPS unit was removed (4 digits in military time e.g. 0906).

**Bryan-College Station MPO Household Travel and Activity Survey
GPS Data Part 2 – GPS Data Log Files**

These files contain the second-by-second travel data for each GPS unit deployed in the Household Survey. These files should be submitted in a comma-delimited format with the 6-digit survey date (MMDDYY) and GPS Unit Number included in the file name (e.g., 012914_1234.CSV). The travel data obtained from each GPS unit must be provided in a separate file. Commas should not be used within individual fields.

Data Field	Type	Description
1. GPS Unit Number	Numeric	Unique number assigned to the GPS unit used to collect the data.
2. Sample Number	Numeric	Unique non-zero number assigned to each household participating in survey.
3. Vehicle Number	Numeric	Unique number assigned to each household vehicle in survey. This number should match the number used for this vehicle in Record Type 3.
4. GMT Date	Alphanumeric	Greenwich mean date stamp. MM/DD/YYYY with leading zeros for single digit values.
5. GMT Time	Alphanumeric	Greenwich mean time stamp. HH:MM:SS with leading zeros for single digit values.
6. Local Date	Alphanumeric	Local date stamp. MM/DD/YYYY with leading zeros for single-digit values.
7. Local Time	Alphanumeric	Local time stamp. HH:MM:SS with leading zeros for single digit values.
8. Latitude	Numeric	Latitude in degrees to 6 decimal places.
9. Longitude	Numeric	Longitude in degrees to 6 decimal places.
10. Elevation	Numeric	Elevation in feet
11. Velocity	Numeric	Speed in miles per hour to 2 decimal places (e.g. 34.26)
12. Heading	Numeric	Heading of vehicle in degrees to 2 decimal places (e.g. 228.91).