



CALGARY AND REGION
TRAVEL AND ACTIVITY SURVEY

City of Calgary

Calgary and Region: Travel and Activity Survey *Final Report*

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Executive Summary

The City of Calgary contracted with NuStats to conduct a comprehensive study of the demographic and travel behavior characteristics of residents within the City of Calgary and the surrounding region. The purpose of the 2011 Calgary and Region Travel and Activity Survey was to provide the necessary data to update the City's Regional transportation model, support future model development projects, and provide a baseline for the Calgary Transportation Plan Monitoring Program. The goal was to obtain demographic and trip data from a minimum of 9,000 households in the City of Calgary and surrounding area. The final data set contains information for 9,015 households, of which 8,115 (90%) are located in the City and the remaining 900 (10%) in the surrounding Region.

Travel data was collected for each day of the week, averaging 1,290 completed surveys per day. The number of completed surveys peaks on Tuesday with 1,350 and on Wednesday with 1,381. The total number of completed surveys on these two days was 10% above the daily average.

A stratified sampling approach was used, wherein the survey universe was divided into smaller groups and a random sample was chosen within each group. This approach allowed NuStats to oversample at certain geographic and demographic levels in order to capture the diversity of the population according to specific factors which might affect travel behavior, while still meeting the geographic and day of week distribution goals.

Data collection activities for the full study began in fall 2011 and continued through spring 2012. These activities included six main stages: (1) advance notification, (2) recruitment, (3) placement of materials, (4) reminder call, (5) travel data retrieval, and, (6) data processing.

Of the 274,086 households which were sampled for full-study data collection, 269,126 households were initially contacted via an advance brochure that explained the survey purpose and invited them to participate in the recruitment survey either by phone or online. Households that were not mailed an advance brochure were initially contacted by telephone. Once the household agreed to participate in the study, key household and person level information was collected. Fifty-two percent of households completed the recruitment survey via telephone. The remaining 48% completed recruitment online.

Once retrieved, household travel details were processed and then subjected to quality control checks. Data Processing took place on a daily basis throughout the study, beginning with the release of sample for recruitment, then to processing recruitment data for the travel diary mail-out, to appending the retrieval data to the master tables, and finally to performing quality control measures on the data. All trip-ends and habitual addresses were geocoded real-time during the retrieval interview through TripBuilder software.

Response rates for this survey were similar to similar large-scale household travel surveys. Just over 5% of households invited to participate in the study completed recruitment (recruitment rate), and 65% of households completing recruitment also completed the retrieval interview (retrieval rate). Response rates are calculated by multiplying the recruitment and retrieval rates; thus, the study experienced a 3.4% response rate overall.

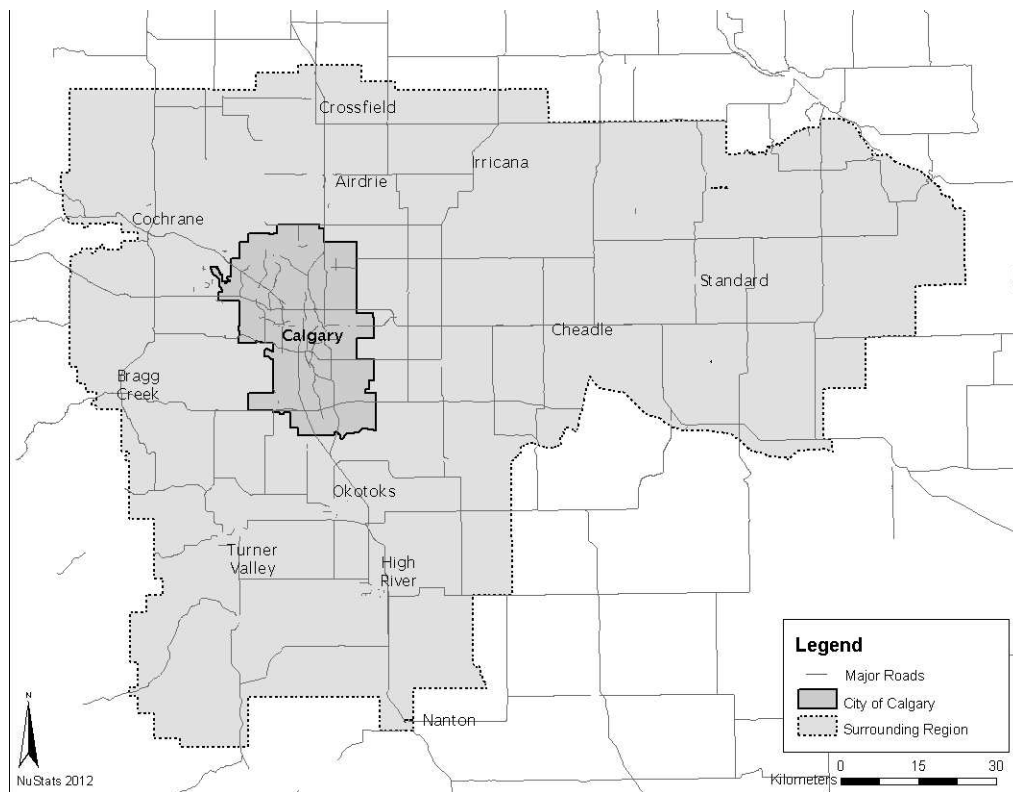
Survey Methods

Objectives and Approach

The Calgary and Region Travel and Activity Survey (CARTAS) is a comprehensive study of the demographic and travel behavior characteristics of residents within the City of Calgary and the surrounding region. Sponsored by the City of Calgary, the data collected in the 2011-2012 survey will be used to improve the region's travel demand forecast models. The study area is shown in Figure 1. Additional maps containing granular geographic areas are found in Appendix K.

The CARTAS project was designed as a traditional household travel and activity survey. As such, sampled households were contacted by mail and telephone to secure their participation in the study and were then mailed personalized diaries in which they were asked to report their travel for an assigned 24-hour period. Their travel details were retrieved by telephone, online, or by mail. Once retrieved, their travel details were processed and then subjected to rigorous quality control checks.

Figure 1: Household Travel Survey Study Area



Survey Design

The goal of the survey was to collect data from a minimum of 9,000 households within the City of Calgary and the surrounding region. Demographic information (obtained during the recruitment interview) and detailed travel and activity information (obtained during the retrieval interview) was collected for all household members, and all visitors to the study area, on the pre-assigned travel day. The final data set contains demographic and trip information for 9,015 households.

The survey employed a generally accepted research method for household travel behavior research, in which household members record all trips for a specified 24-hour period (from 4:00 a.m. to 3:59 a.m.) using a specially designed, customized travel diary. In the survey materials and interview questionnaires, participants were assured that their responses would be kept confidential and that they would be analyzed in the aggregate only. As a result, the data files were structured such that a 7-digit unique identifier (“sample number”) was used to link each household’s data together, and documentation was prepared such to ensure that the public use data files would be stripped of all identifying information prior to its release. Households were randomly assigned to non-holiday weekdays and weekends for recording their travel (Monday–Sunday).

Multi-Modal Response

In order to minimize response bias and include all types of households and travelers in the region, CARTAS allowed for multi-modal response to the invitation to participate. Once they received the advanced materials in the mail inviting participation into the study, households had the option of completing the recruitment interview over the phone or via the web survey. Similarly, the retrieval interview could be completed by telephone, using the web survey, or by simply mailing back the completed travel diaries.

Definition of a Completed Household

A household was defined as complete when: (1) all related household members completed the survey; (2) all related household members provided activities for the full travel period; and (3) all locations were assigned an XY coordinate and transportation zone.

Tiered Variables

During the pre-test, higher than anticipated item non-response was experienced for many variables. In order to combat item non-response bias during the full study, NuStats partnered with the City of Calgary to develop a Tiered Variable Matrix in which all variables were grouped into one of six “tiers” of allowable levels of non-response. Variables that were critical for travel demand modeling were grouped into Tier 0-1, and required 100% response from all respondents. These included variables such as household size, the number of household workers, and the number of household vehicles. Variables that are less critical for the travel demand model were categorized into subsequent tiers with increasing tolerance for non-response. The tier matrix is included in Appendix J of this report.

Sample Design

The sample was procured from two lists provided by the City of Calgary. First, the City sample file was pulled from the tax assessment databases; it contained street addresses for every residential property in the City of Calgary, including university residences. Second, the surrounding region sample file was pulled from a list service that gathered information from telephone and other public listings. Utilization of the two sample files ensured coverage of all types of households, irrespective of their residence type or location within the region.

The region sample file contained names, addresses, and telephone numbers, while the City sample file only included names and addresses. In order to actively recruit these households to participate in the study, NuStats sent the City sample file to Marketing Systems Group (MSG), a sample provider based out of Fort Washington, Pennsylvania. By matching the names and addresses to their database of listed household telephone numbers, MSG was able to match 44 percent of addresses to a phone number.

Sample records matched to a telephone number were actively recruited by our call center¹, and those without one were passively recruited by an advance mailing. These two groups of sample were separated and then divided into replicates of roughly 500 households each. These replicates were randomized so that each one represented the overall sampling frame. Replication provides a mechanism to more easily control the advance mailings and scheduling the release of new sample records for dialing.

Survey Universe

The survey universe comprised all 436,460 households in the study area. Table 3 provides the distribution of the universe of households by geography, according to the 2006 Canadian Census.

Table 3: Distribution of Households in Study Area

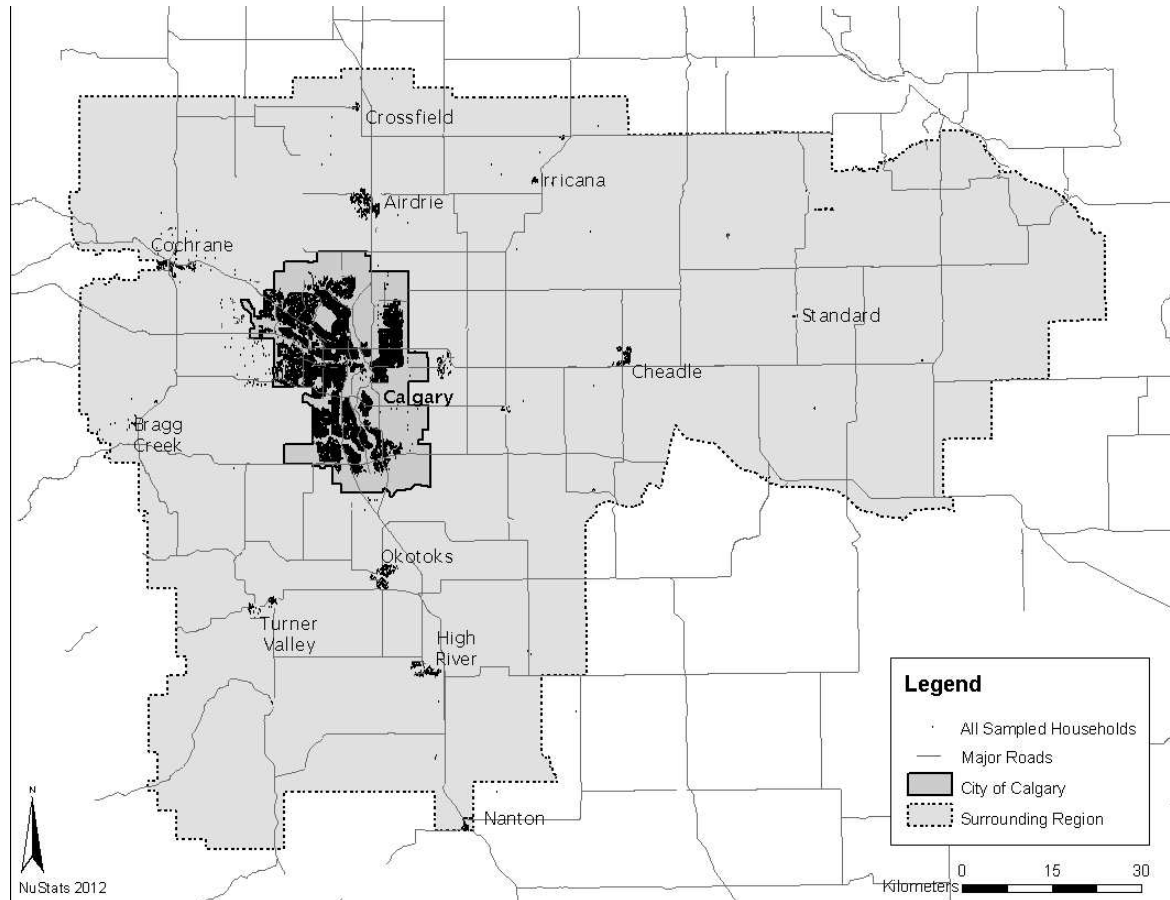
Geography	Number of Households	Percent Households
City of Calgary	383,715	87.9%
Surrounding Region	52,745	12.1%
Total	436,460	100.0%

Source: 2006 Canadian Census

Figure 2, below, shows the location of all households that were invited to participate in the main study through mailed advance materials and/or a telephone call.

¹ Households matched to a telephone number also had the opportunity to participate via the web, if they so desired.

Figure 2: Sampled Household Locations (Map of Study Area)



Sampling Method

The selection of an appropriate sampling method is critical for an effective sample design that guards against unplanned selectiveness and produces a robust data set that is representative of the population. To ensure adequate representation, a sample needs to be drawn scientifically so that each person in the population has a measurable chance of selection. This way, the results can be reliably projected from the sample to the larger population with known levels of certainty and precision.

NuStats employed a stratified probability sampling of households. Stratified sampling is a probability sampling method wherein the survey universe is divided into smaller groups and a random sample is chosen within each group (i.e., every sampling unit has some non-zero probability of being selected into the sample). The results of this method were an oversampling for some strata to ensure that we captured the diversity of the population according to specific factors which might affect travel behavior in the study area. Thus, within strata, households were selected randomly (i.e., with equal probabilities), but within the combined sample (across strata) there was an unequal probability sampling of households.

Sample Size

The sample size for the main survey was 9,000 completed surveys. Table 4 provides the project's target distribution of completed surveys by study area geography of residence.

Table 4: Target Distribution of Completed Surveys

Geography	Number of Completed Surveys	Percent Completed Surveys
City of Calgary	7,912	88%
Surrounding Region	1,088	12%
Total	9,000	100%

Effect of Multi-Modal Data Collection on Sampling

Multi-modal data collection does not have significant consideration in the sampling. For recruitment, Computer-Assisted Telephone Interview (CATI) and Web survey instruments were available for data collection. For retrieval, CATI, Web, and mail-back options were available. Multi-modal data collection helps reach a diversified and representative sample not possible through one survey mode. For example, young respondents are more likely to use the internet; therefore an online survey option is an effective means of communicating with this group. Additionally, as previously described, a portion of the sample was unmatched to a phone number. NuStats mailed advance brochures to 100 percent of the unmatched sample inviting them to participate in the study and encouraging them to go online or call the hotline to complete the survey.

Sample Generation and Processing

Sample addresses were divided into two categories: (a) those with telephone numbers ('matched'), and (b) those without telephone numbers (unmatched). The following table shows the distribution of the overall sample included by sample type for the full study.

Table 5: Sample Detail

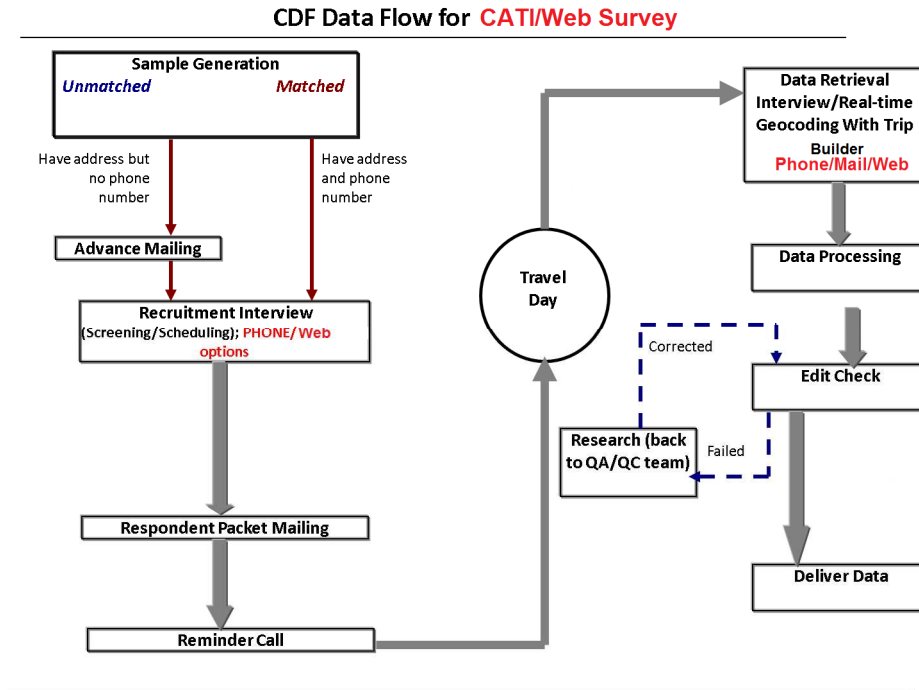
Sample Type	Count	Percent
Urban Matched	141,149	53.6%
Urban Unmatched	91,178	34.7%
Region Matched	29,243	11.1%
University Unmatched	1,536	0.6%
Total	263,106	100.0%

Data Collection

Full Study

Data collection activities began in fall 2011 and continued through June 2012. These activities centered around six main stages: advance notification, recruitment, placement of materials, reminder call, travel data retrieval, and data processing and quality control. The details regarding each stage are provided in this section, and are illustrated in Figure 3, below.

Figure 3: Continuous Data Flow (CDF) Process



Advance Notification

Prior to the recruitment call, a study letter and a brochure were mailed to a portion of the households for which a telephone, name and address were known prior to the recruitment call, as well as to all households with no telephone number. This mailing served as advance notification to the household that they had been randomly selected to participate in the study, and if NuStats had a telephone number, that they would be receiving a telephone call. They were also given the option of calling NuStats or going online to participate in the survey. The mailing provided information about the study sponsor, introduced NuStats as the company that would be contacting them, and provided the Website address and a telephone number where additional information could be obtained.

Since households without a telephone number experienced the increased burden of self-recruiting, the advance brochure informed these households that an incentive of \$25 would be provided upon completion of the survey by all household members. All households, regardless of telephone status, were promised in the advance notification \$25 payable upon completion of both recruitment and retrieval *online*. In the main survey, the City provided the incentives to responding households; this was a change from the pilot survey in which the incentives had been provided by NuStats.

Recruitment

The recruitment interview was administered either by interviewers using a Computer-Assisted Telephone Interviewing (CATI) program or self-completed by respondents providing the same information online. The recruitment questions focused on demographic information including

household income, household size, vehicle ownership, and other household characteristics. In addition, demographic characteristics were obtained for each member of the household, including age, gender, and employment and school status. See Appendix A for the CATI recruitment questionnaire and Appendix B for the Web questionnaire.

Distribution of the recruitment mode of the 9,015 households included in the final data file is presented in Table 6. Note that almost half of recruited households (48.2 percent) chose to complete the recruitment portion online. This is the highest web participation rate that NuStats had experienced in any of its many previous household surveys.

Table 6: Recruitment Mode

Phase	% CATI	% Web	Total
Recruitment	51.8%	48.2%	100.0%

Key recruitment indicators by household size are displayed in Table 7. As expected, call durations increased as household size increased. Overall, households required an average of two call attempts before completing the recruitment interview.

Table 7: Recruitment Interview Length and Average Call Attempts/Household by Household Size

Household Size	N	Average Call Duration (in min.)	Average Call Attempts
1	1,996	13.8	1.9
2	3,875	17.9	2.0
3	1,366	22.2	2.2
4+	1,778	26.0	2.2
Overall	9,015	19.3	2.0

Respondent Packet Mailing

The day following recruitment, the demographic information was processed into the master data set, and packets were assembled for each recruited household. These packets included a cover letter, a travel diary for each household member, along with instructions and an example, and a postage-paid envelope in which to return the completed diaries after the retrieval interview (see Appendix I). The postage-paid envelope served to provide each household the option of mailing back the completed surveys, as opposed to completing online or over the telephone. Travel days were scheduled 17-19 days after recruitment to allow for sufficient time for packets to reach the households. Diary packets were printed and mailed by Apache Superior Print, a local firm based out of Calgary.

Reminder Call

The night prior to the assigned travel day, reminder calls were made to the households. This reminder call served three key purposes:

1. To confirm that the household received the packet, and to answer any questions respondents might have about using the travel diary and recording their travel
2. To schedule an appointment for the retrieval interview or to encourage the household to complete the survey online

- To increase the likelihood that the household will follow through with recording their travel by reiterating the importance of the study and of the household's participation

For those instances where an answering machine was reached, the interviewer left a brief message with a toll-free number that respondents could call if they had questions.

Retrieval

The day after an assigned travel day or at a time agreed-upon during the reminder call, telephone calls were made to retrieve the travel data recorded by each eligible household member in his/her travel diary, when a telephone number was available. The interviews were guided using CATI programs of the retrieval instrument (see Appendix C for the CATI retrieval questionnaire and Appendix D for the web retrieval questionnaire). As may be seen in Table 8, less than a quarter (24.2 percent) of retrieval interviews were completed by CATI. The largest percent were mail-back completes, and roughly 35 percent used the web survey.

Table 8: Retrieval Mode

	% CATI	% WEB	% MAIL	TOTAL
City of Calgary (n=8,115)	23.0%	36.5%	40.5%	100.0%
Surrounding Region (n=900)	34.4%	19.8%	45.8%	100.0%
Overall (n=9,015)	24.2%	34.8%	41.0%	100.0%

Table 9 shows how the average number of call attempts and the average number of minutes for each call increase as the size of the household increases. The average call duration for households with only 1 household member is just under 16 minutes, while retrieval interviews for households with four or more members average over 35 minutes. On average, it took 5.3 call attempts to complete each retrieval interview.

Table 9: Retrieval Interview Length and Average Call Attempts per Household by Household Size

Household Size	N	Average Call Duration (in min.)	Average Call Attempts
1	1,996	15.8	4.6
2	3,875	22.7	5.2
3	1,366	29.3	6.0
4+	1,778	35.5	6.1
Overall	9,015	24.7	5.3

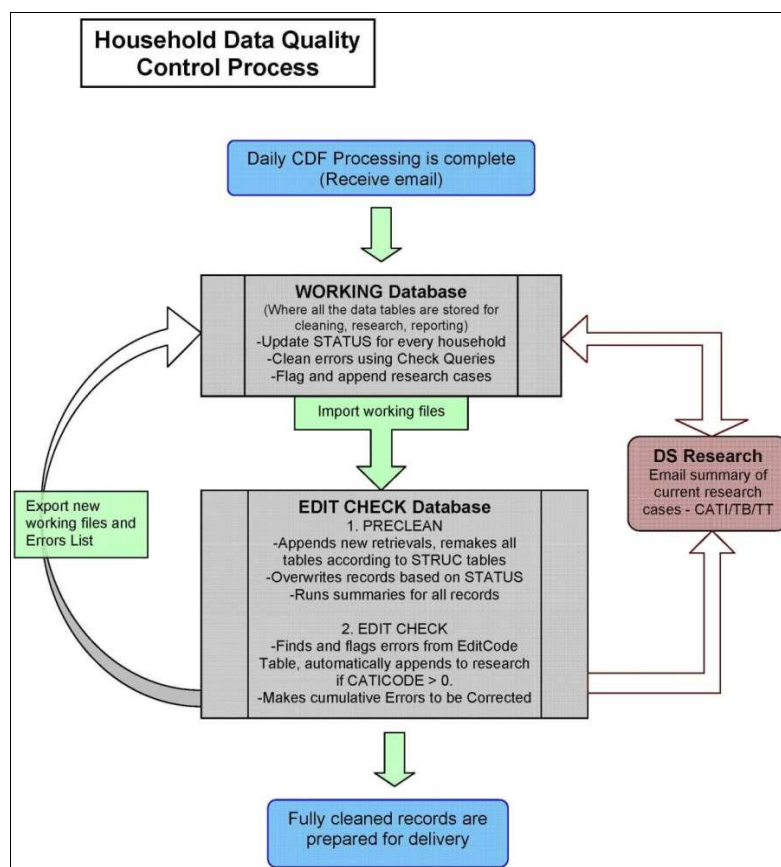
Data Processing, Coding, and Correction

Data processing took place on a daily basis throughout the study, beginning with the release of sample for recruitment, then to processing recruitment data for the respondent mail-out, to appending the retrieval data to the master tables, and finally to performing initial quality control measures on the data. A master control file tracked the progress of each household through the various survey stages, with codes to allow immediate identification of problem cases that were not progressing according to schedule, as well to confirm that cleared cases moved along appropriately. The full data processing flow is presented in Figure 4.

Routine data checks included the following:

- Data range checks to ensure data were inside the expected ranges for each variable and that there was agreement across data files (for example, if the household had four persons and two vehicles, there should be four records in the person file and two records in the vehicle file)
- Flagging for manual review, if a person reported no travel, in order to confirm that the reason for non-travel was appropriate based on the demographic characteristics of the household member (those cases for which the reason for non-travel was suspect or did not make sense within the context of the available demographic information were flagged and returned to the research team for confirmation or replacement.)
- Checks within the travel data itself including:
 - ✓ Did each trip begin and end at a different location? Loop trips (those that have the same origin and destination) might be neighborhood walks, which were treated as at-home non-work activities rather than a trip.
 - ✓ Did each person return home at the end of the travel day? If not, did the final recorded destination make sense within the context of the household and person characteristics?
 - ✓ For all instances where a respondent reported traveling with other household members, was the shared trip reported for all other household members?
 - ✓ For all trips with “auto-driver” as the reported mode, was the respondent a licensed driver?
 - ✓ For all trips reported as “auto-passenger”, did another household member report the same trip as an auto-driver? If not, did the passenger report riding in a non-household vehicle with at least one other person making the trip?

Figure 4: Data Processing Flow Chart



Real-Time Geocoding with TripBuilder

All trip-ends and habitual addresses were geocoded during the retrieval telephone and web interviews with the TripBuilder software. The TripBuilder software was designed to provide interviewers or respondents using the web program with study area details (road names, landmark references, etc.) using a Google interface. Interviewers used this additional detail to confirm respondent-reported locations in real time. An additional benefit of the use of the TripBuilder software was that once the interview was completed, full address information with matching X/Y coordinates was immediately available for 100 percent of the locations.

Assessment of Survey Quality

Household, person, household vehicles, and retrieval items had a significantly decreased non-response rate for the key variables compared to pilot effort. The full study employed a tiered-variable non-response allowance system, in which each “tier” allowed a certain percentage of “don’t know” or “refused” responses. Ultimately, the final data file conformed to pre-established requirements for minimal item non-response.

Non-Response Analysis

Variables with non-response are presented in this section by “variable tier”. The percentages indicated are the proportion of responses that were “don’t know” and/or “refused.” Many data items were included in “Tier 1”, which required 100% response for all survey participants. These items were critical items for regional planners. Table 10 illustrates data elements from Tier 2A, which had an allowance of up to 1 percent non-response.

Table 10: Tier 2A Item Non-Response*

Data Element	% Non-Response
Work Name	0.8%
Location Of Parking	0.5%
Number Of Rooms	0.5%
Vehicle Year	0.5%
Was Vehicle Parked On Trip	0.4%
If Parked, Was It Paid Parking	0.4%
Transit Service Used For Trip	0.2%
Owner Status	0.2%
Vehicle Fuel Type	0.2%
Gender	0.2%
Disability Status	0.2%
Self Employed Or Not	0.1%
Residence Type	0.1%
Amount Of Paid Parking	0.1%
Licensed Driver	0.1%

**Maximum 1% item non-response allowable*

Tier 2B allowed for a maximum of 5 percent non-response; the level of non-response for these data items is shown in Table 11. The 2.4 percent non-response rate for the question regarding whether parking was offered at work largely reflects uncertainty or inability to answer, rather than refusal to answer the question. All other items are within reasonable bounds and are comparable to other studies of this type.

Table 11: Tier 2B Item Non-Response*

Data Element	% Non-Response
Parking Offered At Work	2.4%
Unit Of Time Parking Was Paid For	1.3%
Vehicle Make	1.2%
Education	0.8%
Typicality Of Last Week's Work Hours	0.7%
Type Of Parking Offered At Work	0.6%
Method Of Fare Payment	0.5%
Who Paid Fare	0.5%
Vehicle Owned, Leased Or Employer Provided	0.3%
Occupation	0.1%
Industry	0.1%
Vehicle Used On Travel Day	0.1%

**Maximum 5% item non-response allowable*

Tier 3 allowed up to a maximum of 10 percent item non-response. As may be seen in Table 12, the cost of transit pass (17%) and specific work parking location (10%) were items that were most

frequently refused. Cost of transit pass was later allowed to exceed the allowable level of non-response as the City will attempt to impute this at a later date.

Table 12: Tier 3A Item Non-Response*

Data Element	% Non-Response
Cost Of Transit Pass	17.4%
Specific Work Parking Location	9.9%
Was A Vehicle Available For This Trip	9.9%
Total Fare Of Taxi Trip	6.5%
Second Job Work Hours	5.7%
Reason Vehicle Not Used On Travel Day	5.5%
Second Job - Approximate Annual Wage	5.5%
Parking Location Cross Street	5.2%
Second Job - Work Name	4.3%
Cost Of Parking At Work	4.3%
Transit Line Or Route Used For Trip	3.8%
Vehicle Model	2.3%
Kind Of Discounted Or Subsidized Pass Available	1.1%
Approximate Size Of Home	0.9%
Availability Of Discount Or Subsidized Transit Pass	0.1%

**Maximum 10% item non-response allowable*

Table 13 presents a summary of item non-response for Tier 3B, set to allow a maximum of 15 percent non-response. The percentages indicated are the level of responses that were “don’t know” and/or “refused.” All items are within reasonable bounds, are comparable to other studies of this type, and are close to what we expected at the onset of the main study.

Table 13: Tier 3B Item Non-Response*

Data Element	% Non-Response
Approximate Annual Wage	11.7%
Second Job -Other Occupation	11.1%
Annual Household Income	7.3%
Cost Of Discounted Or Subsidized Pass	4.6%
Second Job -Parking Offered At Work	3.1%
Second Job -Type Of Parking Offered At Work	0.9%

**Maximum 15% item non-response allowable*

The lowest tier, Tier 4, allowed a maximum of no more than 30 percent non-response. As may be seen in Table 14, volunteer parking location experienced the highest level of non-response with 23 percent of all recruited households refusing to answer this question.

Table 14: Tier 4 Item Non-Response*

Place / Activity File	% Non-Response
Volunteer Parking Location	22.6%
Number Of Nights Spent In Calgary	16.0%
Volunteer Parking Cost	14.3%
Received Adv. Letter	12.0%
Visitor Home City	8.0%
Visitor Home Province	4.2%
Frequency Of Parking Payments	3.9%
Typical Hours Volunteered	3.7%
Parking Offered At Volunteer Location	3.5%
Visitor Home Province	3.2%
Visitor Brought Vehicle To Calgary	2.4%
Mode Of Transportation To Get To Calgary	2.4%
Typical Week Volunteering	2.0%
# Hours Worked Last Week At Second Job	1.7%
Number Of Volunteer Jobs	1.6%
Hours Volunteered Last Week	1.3%
Volunteer Name	1.0%
Were Diaries Completed	0.9%
Volunteer Type Of Parking	0.5%

*Maximum 30% item non-response allowable

Geographic Coverage

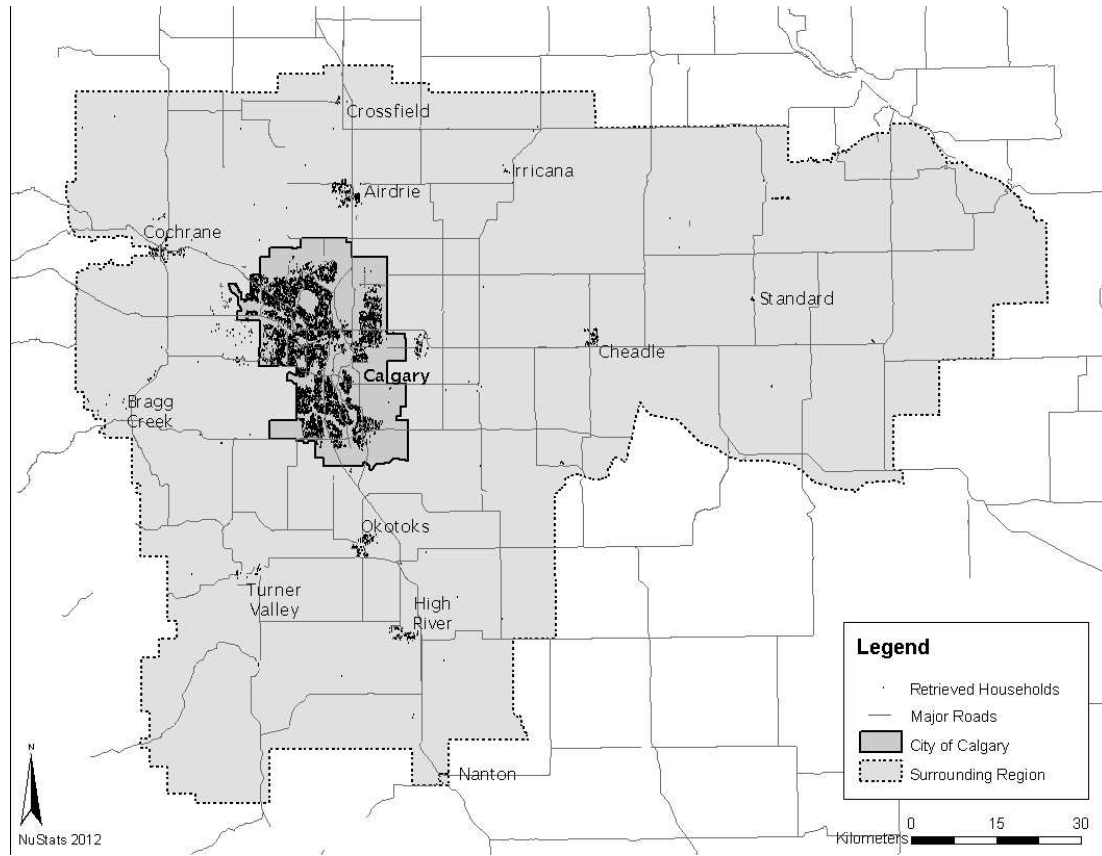
The main study aimed to achieve 9,000 completed surveys, with the distribution matching as closely as possible to the 2006 Canadian census (Calgary compared with the surrounding region). The overall project goals were exceeded with 9,015 households included in the final data file. The overall main study retrieval rate was 65.5%, as shown in Table 15.

Table 15: Geographic Distribution and Retrieval Rate

Geography	Retrieval Goal	Recruits	Retrievals	% of Goal	Retrieval Rate
City of Calgary	7,912	12,345	8,115	102.6%	65.7%
Surrounding Region	1,088	1,425	900	82.7%	63.2%
Total	9,000	13,770	9,015	100.0%	65.5 %

Figure 5 maps all 9,015 households that completed all components of the study and are contained in the final data file.

Figure 5: Participating Household Locations (Map of Calgary Region)



Demographic Coverage

The full study effort continually tracked the demographic representation to inform sampling procedures in an effort to reach a representative sample. Table 16 shows the distribution of demographic characteristics of participating households as compared to 2006 Census data. The sampling approach resulted in a household distribution that varies from the Census in some areas, while closely matching others.

Table 16: Demographic Results Compared to Census

Demographic		Retrieval	2006 Census
Total Households		9,015 households / 21,550 persons	436,460 households / 979,505 persons
Household Residence	City of Calgary	90%	88%
	Surrounding Region	10%	12%
Household size	1	22%	24.4%
	2	43%	33.1%
	3	15%	16.6%
	4+	20%	25.9%
Household Income	Less than \$30,000	9%	16.7%
	\$30,000 - \$49,999	11%	17.9%
	\$50,000 - \$99,999	31%	35.4%
	\$100,000 or more	42%	30.0%
	Income Refusals	7%	NA
Respondent Age	<16 years old	17%	18.2%
	16- 24	8%	14.5%
	25 - 34	8%	16.4%
	35 - 54	31%	32.4%
	55+	36%	18.5%
Respondent Worker Status	Employed	53%	59.1%
	Unemployed	8%	2.5%
	Not in the Labor Force	23%	20.1%
	Under 15 years old	16%	18.2%

Response Rates

Overall, response rates were similar to other large-scale regional household travel surveys. The response rate calculation entails the calculation of two rates, which are then multiplied together to form a third rate. The first rate is the recruitment rate, which reflects the proportion of the sample that was recruited into the study. The recruitment rate is the ratio of all recruited households to all samples eligible for recruitment. The second rate is the retrieval rate, calculated as the proportion of all retrieved households to all recruited households. The final response rate is derived by multiplying the recruitment rate by the retrieval rate. The response rate overall and by geography is presented in Table 17.

Table 17: Response Rates by Geography

Geography	Recruitment Rate	Retrieval Rate	Final Response Rate (Recruitment Rate/Retrieval Rate)
City of Calgary	5.3%	65.7%	3.5%
Surrounding Region	4.9%	63.2%	3.1%
Overall	5.2%	65.5%	3.4%

The response rates for the CARTAS main study effort are shown in Table 18, along with those from other recent studies conducted by NuStats. The CARTAS main response rate was slightly lower than other studies. This is attributed to the high percentage of unmatched sample that was invited to participate in the survey as compared to other recent studies.

Table 18: Response Rate Comparison to Other Surveys

Study	Year	Final Response Rate
CARTAS Main Study	2011-12	3%
ARC Regional Travel Survey	2011	6%
CALTRANS HH Travel Survey (pilot)	2011	5%
ARC Regional Travel Survey Pre-Test	2010	11%
Central Indiana Full Study	2010	41%
Oregon Full Study – Region 4	2009	39%
Oregon Full Study – Region 2	2009	44%
Central Indiana Pre-Test	2008	10%
Oregon 1-day Pre-Test	2008	15%
Chicago Full Study	2007–2008	10%
Chicago Pre-Test	2006	9%

Data Weighting

From a finite population sampling theory perspective, analytic weights are needed to develop estimates of population parameters and, more generally, to draw inferences about the population that was sampled as part of the study. Without the use of analytic weights, population estimates are subject to biases of unknown (possibly large) magnitude. Consequently, analytic weights are crucial to obtaining survey estimates with minimal bias.

The weighting approach used in this study accounts for the biases associated with sampling and for the robustness of the data collected. Specifically, the components of the analytic weights generated using this method are as follows:

- Sampling weights
- Raking adjustments

The analytic weights are computed at the household and person level. These weights adjust the relative importance of responses to reflect the different probabilities of selection of respondents and align the sample distributions to population distributions. This section discusses the components of the household weight and person weight in detail.

Household Weight

Sampling Weight

The sampling weight reflects the probability of selection of a residential address from the sampling frame. Considering the single-frame methodology employed in this study, that is, that all addresses in the sample universe were assembled by the City of Calgary, a roughly equal sampling weight was expected. Not all of the sample from the frame was selected for inclusion into the full study

(households used in the pilot, duplicate records, sample with invalid addresses, and some sample without phone numbers were excluded). During the weighting procedure, the sample was divided into three “frames”: City of Calgary sample, sample from the surrounding region, and University sample, in order to calculate sampling weights. Specifically, the sampling weight for a sampling unit j in the sampling frame, denoted as $W_{j,SampFr}$, is simply the reciprocal of the selection probability of the sampling unit.

$$W_{j,SampFr} = \frac{1}{\text{Prob}_{j,SampFr}}$$

where,

Sampling unit j is an address in the city sampling frame, the region sampling frame, or the university sampling frame.

Sampling frame $SampFr$ is city sampling frame, the region sampling frame, or the university sampling frame.

Raking Adjustment

Raking improves the reliability of the survey estimates; hence, raking adjustments are used to align the weighted sample to population statistics from 2006 Canadian Census.

These adjustments were made using raking variables. In particular, the aforementioned sampling weights were adjusted so that the sums of the adjusted weights are equal to known population totals for certain subgroups of the population defined by demographic characteristics and geographic variables. The variables used for raking at the household level are as follows:

- Household size
- Household income
- Geography of Residence (City of Calgary or Surrounding Region)

These variables were chosen as the raking variables due to significant differences in the coverage by categories of these variables. Therefore, it is reasonable to expect that maximum bias reduction would be achieved using these variables. It is important to note that the missing values in the raking variables will be imputed to calculate the raking adjustments.

The raking procedure is based on an iterative proportional fitting procedure, a standard process that involves simultaneous ratio adjustments to two or more marginal distributions of the population counts. The raking procedure is undertaken in a sequence of adjustments. First, the base weights are adjusted to one marginal distribution and then to the second marginal distribution, and so on. One sequence of adjustments to the marginal distributions is known as a cycle or iteration. The procedure is repeated until convergence is achieved.

Table 19 presents distribution of survey data before and after raking as compared to 2006 Census data. Household income variable included in Table 19 is the *imputed* data variable that was used for raking. That is, for households that refused to provide income, income was imputed as the mode income of households with the same home ownership, number of household vehicles, and household size combinations.

Table 19: Raking Adjustment at Household Level

Raking Variable*	2006 Census	Survey Data		Difference (% points)	
		Before Raking	After Raking	Before Raking	After Raking
Household Geography (n=438,085 households)					
City of Calgary	88%	90%	88%	2%	0%
Surrounding Region	12%	10%	12%	-2%	0%
Household Size					
1	24%	22%	24%	-2%	0%
2	33%	43%	33%	10%	0%
3	17%	15%	17%	-2%	0%
4+	26%	20%	26%	-6%	0%
Household Income					
Less than \$30,000	17%	9%	17%	-8%	0%
\$30,000 - \$49,999	18%	11%	18%	-7%	0%
\$50,000 - \$99,999	35%	33%	35%	-2%	0%
\$100,000 or more	30%	47%	30%	17%	0%

*Note: Table reports imputed variables used for the raking procedure

Final Household Weight

The final analytic weight is simply the product of sampling weight and the raking adjustment. The final household weight was applied to both the household and vehicle data files.

Person Weight

The person weight is a product of the final household weight and the person-level raking weight. Specifically, the person data weighted by the 'final household weight' was raked to align it to the population statistics from 2006 Canadian Census data. The raking procedure was again based on an iterative proportional fitting procedure. The variables used for raking at the person level were as follows:

- Age
- Worker Status

The final person weight was applied to the person, activity and place files.

Table 20 presents distribution of survey data before and after raking as compared to 2006 census data. Variables shown in Table 20 are *imputed* variables. The age shown is a combination of reported age and alternate age ranges provided by the respondent if they were unwilling to provide exact age. The work status shown was computed using Worker Status, Unemployed Worker Status, and Age/Alternate Age Ranges.

Table 20: Raking Adjustment at Person Level

Raking Variable*	Census	Survey Data		Difference (% points)	
		Before Raking	After Raking	Before Raking	After Raking
Age (n=979,505 persons)					
Younger than 15	18%	15%	18%	-3%	0%
15-24	15%	9%	15%	-6%	0%
25-34	16%	8%	16%	-8%	0%
35-54	32%	31%	32%	-1%	0%
55+	18%	36%	18%	18%	0%
Work Status					
Employed	59%	53%	59%	-6%	0%
Unemployed	3%	8%	3%	5%	0%
Not in Labor Force	20%	23%	20%	3%	0%
Under 15 years old	18%	16%	18%	-2%	0%

*Note: Table reports imputed variables used for the raking procedure

Limitations of the Survey

- 1) **Response Rate and Survey Non-Response.** Some level of non-response occurs in every voluntary survey. Low response rates are attributable to a variety of factors, including to a growing resistance by householders to surveys in general and to telephone surveys in particular, and to the changing patterns of telephone access in Canadian households. Household travel surveys are particularly susceptible to non-response. These surveys are complex, requiring a two-stage interview process plus the completion of a travel diary by all household members. Since each interview stage has an accompanying level of non-response, the overall response rate is the product of a recruitment rate and a retrieval rate.
- 2) **Under-Reporting of Trips.** An important determinant of data quality is the accuracy of the reported trips. To enhance reporting accuracy, most household travel surveys rely on travel diaries in which respondents are asked to record each trip for a specific time period (e.g., 24 hours). Yet even with the use of diaries, under-reporting of trips by survey respondents is a well-documented occurrence. Memory decay, failure to understand or to follow survey instructions, unwillingness to report full details of travel, and simple carelessness all contribute to the incomplete collection of travel data. After the data have been weighted and expanded, the trip rates will need to be assessed relative to prior surveys and other metropolitan areas.
- 3) **Response Bias.** Surveys are prone to non-response errors because certain types of households selected in a sample do not participate in surveys or individual household members fail to answer an item in an interview.

Recommendations for Study Improvement

Travel behavior study innovations are in continuous development by various research organizations. Sponsors typically focus concerns on multiple elements relevant to their existing or planned models.

Future studies should consider each element and weigh the importance by priority and financial investment. The indexing of priority, innovation, value, and cost is a difficult task, even for experienced model coordinators.

GPS Data Collection. Most travel surveys include a GPS component, in which households either use provided GPS devices or provide the survey firm with access to their own mobile trace data. This provides a non-obtrusive way to gather detailed trip information, including route information and speed, as well as an independent means of developing trip correction factors for diary only data. The City had included GPS in the pretest, but this was not incorporated into the main survey design.

Survey Results

Overall Project Targets (Unweighted)

The overall project goal of 9,000 completed surveys was exceeded, primarily because the City of Calgary sample goal was exceeded by 203 completed surveys. The final weighted data file contained nine-hundred completed surveys for the surrounding region; 188 completed surveys short of the project target for that area, as shown in Table 21.

Table 21: Travel Day by Geography (Unweighted)

	Target		City of Calgary		Region	
	City	Region	Count	Difference +/-	Count	Difference +/-
Weekday	5,652	777	5,686	34	717	-60
Weekend	2,260	311	2,429	169	183	-128
Total	7,912	1,088	8,115	203	900	-188

Table 22 presents the home geographic zone of Calgary residents by whether they reported travel for a weekday or a weekend day. Maps defining Geographic Zone (Calgary) and Geographic Area (Surrounding Region) as presented in this section of the report can be found in Appendix K.

Table 22: Home Geographic Zone (GZ) – Calgary Residents (Unweighted)

GZ Code	City Geographic Zone (GZ)	Weekday		Weekend		Overall	
		Frequency	Percent	Frequency	Percent	Frequency	Percent
1	CBD	23	0.4%	12	0.5%	35	0.4%
2	CBD South	37	0.7%	16	0.7%	53	0.7%
3	Manchester	31	0.5%	21	0.9%	52	0.6%
4	Mount Royal	299	5.3%	114	4.7%	413	5.1%
5	Strathcona	547	9.6%	232	9.6%	779	9.6%
6	Spring Bank	148	2.6%	59	2.6%	207	2.6%
7	Willow Park	311	5.5%	140	5.6%	451	5.6%
8	Glenmore	313	5.5%	121	5.3%	434	5.3%
9	Bonavista	298	5.2%	118	5.1%	416	5.1%
10	Midnapore	345	6.1%	146	6.1%	491	6.1%
11	Providence	0	0.0%	0	0.0%	0	0.0%
12	Pine Creek	60	1.1%	20	1.0%	80	1.0%
13	Homesteads	70	1.2%	23	1.1%	93	1.1%

GZ Code	City Geographic Zone (GZ)	Weekday		Weekend		Overall	
		Frequency	Percent	Frequency	Percent	Frequency	Percent
14	Machenzie	217	3.8%	105	4.0%	322	4.0%
15	Southeast Industrial	90	1.6%	40	1.6%	130	1.6%
16	Foothills	41	0.7%	27	1.1%	68	0.8%
17	Forest Lawn	269	4.7%	113	4.7%	382	4.7%
18	The Properties	153	2.7%	85	3.5%	238	2.9%
19	Northeast Industrial	48	0.8%	25	1.0%	73	0.9%
20	Airport	0	0.0%	1	<0.1%	1	0.0%
21	Saddle Ridge	99	1.7%	56	2.3%	155	1.9%
22	Rosedale	176	3.1%	58	2.4%	234	2.9%
23	Parkdale	162	2.8%	65	2.7%	227	2.8%
24	University of Calgary	6	0.1%	1	<0.1%	7	0.1%
25	Pleasant Heights	176	3.1%	76	3.1%	252	3.1%
26	Triwood	200	3.5%	89	3.7%	289	3.6%
27	Varsity	339	6.0%	139	5.7%	478	5.9%
28	West Scenic Acres	133	2.3%	62	2.6%	195	2.4%
29	Spy Hill	92	1.6%	32	1.3%	124	1.5%
30	Crowchild	436	7.7%	189	7.8%	625	7.7%
31	Beddington	367	6.5%	161	6.6%	528	6.5%
32	Calgary North	200	3.5%	83	3.4%	283	3.5%
	Total	5,686	100.0%	2,429	100.0%	8,115	100.0%

Similar to Table 22, Table 23 indicates home geographic area of residents of the surrounding region by whether travel was reported for a weekday or a weekend day.

Table 23: Home Geographic Area (GA) – Region Residents (Unweighted)

GA Code	City Geographic Zone (GZ)	Weekday		Weekend		Overall	
		Frequency	Percent	Frequency	Percent	Frequency	Percent
1	Western Wheatland	11	1.5%	4	2.2%	15	1.7%
2	Eastern Wheatland	3	0.4%	1	0.5%	4	0.4%
3	Strathmore	62	8.6%	19	10.4%	81	9.0%
4	Inner Foothills	3	0.4%	3	1.6%	6	0.7%
5	Turner Valley / BD	20	2.8%	3	1.6%	23	2.6%
6	High River	68	9.5%	15	8.2%	83	9.2%
7	Okotoks	101	14.1%	26	14.2%	127	14.1%
8	Rest of Outer Foothills	20	2.8%	4	2.2%	24	2.7%
9	Inner East Rockyview	14	2.0%	0	0.0%	14	1.6%

GA Code	City Geographic Zone (GZ)	Weekday		Weekend		Overall	
		Frequency	Percent	Frequency	Percent	Frequency	Percent
10	Outer East Rockyview	11	1.5%	1	0.5%	12	1.3%
11	Inner West Rockyview	48	6.7%	11	6.0%	59	6.6%
12	Outer West Rockyview	37	5.2%	5	2.7%	42	4.7%
13	Cochrane	108	15.1%	30	16.4%	138	15.3%
14	Airdrie	170	23.7%	45	24.6%	215	23.9%
15	Chestermere	41	5.7%	16	8.7%	57	6.3%
	Total	717	100.0%	183	100.0%	900	100.0%

Household Demographics (Unweighted)

Of the 5,686 City of Calgary households reporting travel on a weekday, most are 2-person households. Of the 2,494 two-person households, 19 percent reside in geographic area 4, which includes Willow Park, Glenmore, and Bonavista (areas in Table 24 defined by GZ codes contained in Table 22, above). See Table 24 below for more detail.

Table 24: Geographic Area of Residence (Calgary Residents) by Household Size, Weekday Travelers (Unweighted)

Area	GZ Codes	1 person	2 people	3 people	4+ people	Overall
		(n=1,343)	(n=2,494)	(n=810)	(n=1,039)	(n=5,686)
1	1, 2	2.8%	0.7%	0.5%	0.1%	1.1%
2	3, 4	8.6%	5.3%	4.4%	4.6%	5.8%
3	5, 6	13.5%	11.2%	12.7%	12.6%	12.2%
4	7, 8, 9	13.4%	19.3%	16.5%	12.2%	16.2%
5	10, 11, 12	4.2%	6.9%	7.8%	11.0%	7.1%
6	13, 14	3.4%	4.8%	4.9%	7.8%	5.0%
7	15, 16	2.2%	2.4%	3.5%	1.3%	2.3%
8	17, 18, 19	8.6%	8.7%	8.3%	6.6%	8.3%
9	20, 21	2.0%	1.5%	1.9%	1.9%	1.7%
10	22, 25	9.8%	5.5%	4.7%	4.4%	6.2%
11	23, 24, 26	7.3%	6.7%	6.8%	4.6%	6.5%
12	27, 28	7.6%	8.3%	7.0%	10.2%	8.3%
13	29, 30	6.9%	9.7%	8.3%	12.1%	9.3%
14	31, 32	9.6%	9.1%	12.7%	10.4%	10.0%
	Total	100.0%	100.0%	100.0%	100.0%	100.0%

Table 25 indicates household size by geographic area of residence (City of Calgary) for weekend travelers. Overall, 526 households contain just one person, while 486 households reported four or more household members. Geographic areas 3, 4, or 14 contain the highest instance of large households (4+ household members).

Table 25: Geographic Area of Residence (Calgary Residents) by Household Size, Weekend Travelers (Unweighted)

Area	GZ Codes	1 person (n=526)	2 people (n=1,028)	3 people (n=389)	4+ people (n=486)	Overall (n=2,429)
1	1, 2	4.0%	0.6%	0.0%	0.2%	1.2%
2	3, 4	8.0%	5.3%	3.3%	5.3%	5.6%
3	5, 6	11.6%	12.6%	11.1%	11.7%	12.0%
4	7, 8, 9	12.4%	18.1%	17.2%	12.6%	15.6%
5	10, 11, 12	3.2%	5.9%	11.1%	9.3%	6.8%
6	13, 14	4.8%	4.0%	5.7%	8.2%	5.3%
7	15, 16	1.7%	2.7%	3.1%	3.7%	2.8%
8	17, 18, 19	11.0%	10.3%	7.7%	6.0%	9.2%
9	20, 21	1.3%	1.5%	3.9%	4.1%	2.3%
10	22, 25	10.3%	4.4%	3.3%	4.5%	5.5%
11	23, 24, 26	8.6%	7.1%	4.6%	3.9%	6.4%
12	27, 28	6.8%	8.5%	7.5%	10.1%	8.3%
13	29, 30	7.0%	9.1%	12.3%	8.6%	9.1%
14	31, 32	9.3%	9.9%	9.3%	11.7%	10.0%
Total		100.0%	100.0%	100.0%	100.0%	100.0%

As shown in Table 26, among households residing in the surrounding region and reporting travel on a weekday, just fewer than 40 percent (285 of 717) are two-person households. Seventy-nine percent (570 of 717) of weekday travelers reside in Towns, while the remaining 21 percent reside in the rural region.

Table 26: Geographic Area of Residence (Region Residents) by Household Size, Weekday Travelers (Unweighted)

Area	1 person (n=102)	2 people (n=285)	3 people (n=138)	4+ people (n=192)	Overall (n=717)
Towns	81.4%	80.0%	73.2%	82.3%	79.5%
Rural Region	18.6%	20.0%	26.8%	17.7%	20.5%
Total	100.0%	100.0%	100.0%	100.0%	100.0%

Similar to the 40 percent of weekday travelers that are two-person households in the table above, 37 percent (68 of 183) of households who reported weekend travel are two-person households, as seen in Table 27 below. Whereas residents of the Rural Region comprise 20.5 percent of weekday travelers above, they make up just fewer than 16 percent of weekend travelers.

Table 27: Geographic Area of Residence (Region Residents) by Household Size, Weekend Travelers (Unweighted)

Area	1 person (n=25)	2 people (n=68)	3 people (n=29)	4+ people (n=61)	Overall (n=183)
Towns	92.0%	79.4%	79.3%	88.5%	84.2%
Rural Region	8.0%	20.6%	20.7%	11.5%	15.8%
Total	100.0%	100.0%	100.0%	100.0%	100.0%

Overall, 2,333 of 5,261 (44%) households residing in Calgary and reporting weekday travel indicated an annual household income of \$100,000 or more. Many of these households reside in geographic areas 3 and 4. See Table 28 for additional detail. Just 144 households (fewer than 3 percent of total) reported a household income less than \$15,000.

Table 28: Geographic Area of Residence (Calgary Residents) by Household Income, Weekday Travelers (Unweighted)*

Area	GZ Codes	\$0-<\$15k	\$15k-<\$30k	\$30k-<\$50k	\$50k-<\$75k	\$75k-<\$100k	\$100k+	Overall
1	1, 2	6	9	18	13	3	7	56
		10.7%	16.1%	32.1%	23.2%	5.4%	12.5%	100.0%
2	3, 4	13	23	37	55	34	151	313
		4.2%	7.3%	11.8%	17.6%	10.9%	48.2%	100.0%
3	5, 6	12	49	68	108	80	326	643
		1.9%	7.6%	10.6%	16.8%	12.4%	50.7%	100.0%
4	7, 8, 9	22	53	125	175	110	353	838
		2.6%	6.3%	14.9%	20.9%	13.1%	42.1%	100.0%
5	10, 11, 12	9	9	29	65	64	198	374
		2.4%	2.4%	7.8%	17.4%	17.1%	52.9%	100.0%
6	13, 14	2	7	8	37	58	151	263
		0.8%	2.7%	3.0%	14.1%	22.1%	57.4%	100.0%
7	15, 16	3	10	12	24	17	54	120
		2.5%	8.3%	10.0%	20.0%	14.2%	45.0%	100.0%
8	17, 18, 19	16	59	76	114	72	109	446
		3.6%	13.2%	17.0%	25.6%	16.1%	24.4%	100.0%
9	20, 21	2	9	18	24	22	21	96
		2.1%	9.4%	18.8%	25.0%	22.9%	21.9%	100.0%
10	22, 25	13	33	49	67	40	125	327
		4.0%	10.1%	15.0%	20.5%	12.2%	38.2%	100.0%
11	23, 24, 26	9	27	39	65	41	149	330
		2.7%	8.2%	11.8%	19.7%	12.4%	45.2%	100.0%

Area	GZ Codes	\$0-<\$15k	\$15k-<\$30k	\$30k-<\$50k	\$50k-<\$75k	\$75k-<\$100k	\$100k+	Overall
12	27, 28	16	29	48	75	61	211	440
		3.6%	6.6%	10.9%	17.0%	13.9%	48.0%	100.0%
13	29, 30	13	22	34	78	82	256	485
		2.7%	4.5%	7.0%	16.1%	16.9%	52.8%	100.0%
14	31, 32	8	32	65	114	89	222	530
		1.5%	6.0%	12.3%	21.5%	16.8%	41.9%	100.0%
Total		144	371	626	1014	773	2,333	5,261
		2.7%	7.1%	11.9%	19.3%	14.7%	44.3%	100.0%

**Note: Table excludes households that did not provide household income*

As shown in Table 29, below, an even higher proportion of weekend travelers than weekday travelers reported an income at or above \$100,000 (46% as compared to 44% above).

Table 29: Geographic Area of Residence (Calgary Residents) by Household Income, Weekend Travelers (Unweighted)*

Area	GZ Codes	\$0-<\$15k	\$15k-<\$30k	\$30k-<\$50k	\$50k-<\$75k	\$75k-<\$100k	\$100k+	Overall
1	1, 2	2	4	5	8	1	7	27
		7.4%	14.8%	18.5%	29.6%	3.7%	25.9%	100.0%
2	3, 4	5	6	16	24	12	63	126
		4.0%	4.8%	12.7%	19.0%	9.5%	50.0%	100.0%
3	5, 6	5	11	30	43	28	151	268
		1.9%	4.1%	11.2%	16.0%	10.4%	56.3%	100.0%
4	7, 8, 9	9	31	53	62	41	153	349
		2.6%	8.9%	15.2%	17.8%	11.7%	43.8%	100.0%
5	10, 11, 12	1	6	13	22	25	88	155
		0.6%	3.9%	8.4%	14.2%	16.1%	56.8%	100.0%
6	13, 14	1	8	9	12	24	64	118
		0.8%	6.8%	7.6%	10.2%	20.3%	54.2%	100.0%
7	15, 16	0	2	8	9	15	29	63
		0.0%	3.2%	12.7%	14.3%	23.8%	46.0%	100.0%
8	17, 18, 19	8	24	40	55	37	51	215
		3.7%	11.2%	18.6%	25.6%	17.2%	23.7%	100.0%
9	20, 21	2	3	3	14	10	22	54
		3.7%	5.6%	5.6%	25.9%	18.5%	40.7%	100.0%
10	22, 25	1	11	25	31	15	42	125
		0.8%	8.8%	20.0%	24.8%	12.0%	33.6%	100.0%
11	23, 24, 26	5	17	21	19	16	61	139
		3.6%	12.2%	15.1%	13.7%	11.5%	43.9%	100.0%

Area	GZ Codes	\$0-<\$15k	\$15k-<\$30k	\$30k-<\$50k	\$50k-<\$75k	\$75k-<\$100k	\$100k+	Overall
12	27, 28	3	12	16	30	30	100	191
		1.6%	6.3%	8.4%	15.7%	15.7%	52.4%	100.0%
13	29, 30	2	13	23	30	23	111	202
		1.0%	6.4%	11.4%	14.9%	11.4%	55.0%	100.0%
14	31, 32	7	9	30	44	25	104	219
		3.2%	4.1%	13.7%	20.1%	11.4%	47.5%	100.0%
Total		51	157	292	403	302	1,046	2,251
		2.3%	7.0%	13.0%	17.9%	13.4%	46.5%	100.0%

**Note: Table excludes households that did not provide household income*

Tables 30 and 31, below provide the distribution of residents of the region traveling on the weekday and weekend by household income. Similar to the City of Calgary households in the two preceding tables, many households in Tables 30 and 31 indicate household incomes of \$100,000 or higher.

Table 30: Geographic Area of Residence (Region Residents) by Household Income, Weekday Travelers (Unweighted)

Area	\$0-<\$15k	\$15k-<\$30k	\$30k-<\$50k	\$50k-<\$75k	\$75k-<\$100k	\$100k+	Overall
Towns	8	32	50	94	83	262	529
	1.5%	6.0%	9.5%	17.8%	15.7%	49.5%	100.0%
Rural Region	2	6	14	23	21	73	139
	1.4%	4.3%	10.1%	16.5%	15.1%	52.5%	100.0%
Total	10	38	64	117	104	335	668
	1.5%	5.7%	9.6%	17.5%	15.6%	50.1%	100.0%

**Note: Table excludes households that did not provide household income*

Table 31: Geographic Area of Residence (Region Residents) by Household Income, Weekend Travelers (Unweighted)

Area	\$0-<\$15k	\$15k-<\$30k	\$30k-<\$50k	\$50k-<\$75k	\$75k-<\$100k	\$100k+	Overall
Towns	2	6	10	25	25	76	144
	1.4%	4.2%	6.9%	17.4%	17.4%	52.8%	100.0%
Rural Region	0	2	0	6	7	14	29
	0.0%	6.9%	0.0%	20.7%	24.1%	48.3%	100.0%
Total	2	8	10	31	32	90	173
	1.2%	4.6%	5.8%	17.9%	18.5%	52.0%	100.0%

**Note: Table excludes households that did not provide household income*

Weekday-traveling households with one or two persons reported a high instance of a household income between \$50,000 and \$75,000 (23%), while households with three or more members reported

a high instance of a household income between \$100,000 and \$150,000 (33%). See Table 32, below, for more detail about overall weekday travelers by household size and income.

Table 32: Income (All Households) by Household Size, Weekday Travelers (Unweighted)

Household Income	1 or 2 persons		3 or more persons		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
\$0-<\$15k	129	3.3%	25	1.2%	154	2.6%
\$15k-<\$30k	372	9.6%	37	1.8%	409	6.9%
\$30k-<\$50k	599	15.5%	91	4.4%	690	11.6%
\$50k-<\$75k	873	22.6%	258	12.5%	1,131	19.1%
\$75k-<\$100k	558	14.4%	319	15.4%	877	14.8%
\$100k-<\$150k	772	20.0%	690	33.4%	1,462	24.7%
\$150k-<\$200k	291	7.5%	352	17.0%	643	10.8%
\$200k+	268	6.9%	295	14.3%	563	9.5%
Total	3,862	100.0%	2,067	100.0%	5,929	100.0%

**Note: Table excludes households that did not provide household income*

As shown in Table 33, twenty-five percent of weekend travelers reported a household income between \$100,000 and \$150,000; this includes 21 percent of 1-2 person households and 32 percent of 3+ person households.

Table 33: Income (All Households) by Household Size, Weekend Travelers (Unweighted)

Household Income	1 or 2 persons		3 or more persons		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
\$0-<\$15k	43	2.9%	10	1.1%	53	2.2%
\$15k-<\$30k	150	10.0%	15	1.6%	165	6.8%
\$30k-<\$50k	259	17.2%	43	4.7%	302	12.5%
\$50k-<\$75k	316	21.0%	118	12.9%	434	17.9%
\$75k-<\$100k	195	12.9%	139	15.1%	334	13.8%
\$100k-<\$150k	313	20.8%	290	31.6%	603	24.9%
\$150k-<\$200k	127	8.4%	172	18.7%	299	12.3%
\$200k+	103	6.8%	131	14.3%	234	9.7%
Total	1,506	100.0%	918	100.0%	2,424	100.0%

**Note: Table excludes households that did not provide household income*

Tables 34 and 35 show a household lifecycle status for all households by household income. Table 34 contains households reporting weekday travel, while Table 35 contains households who reported weekend travel. Weekday-traveling households earning less than \$50,000 were likely to be households with 1 person aged 55+ (38%) or 2-persons aged 55+ (28%), while weekday-traveling households earning \$50,000 or more were less likely to fall into those lifecycle categories.

Table 34: Household Lifecycle (All Households) by Household Income, Weekday Travelers (Unweighted)

Household Lifecycle	<\$50,000		\$50,000+		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
1 person age 0-24	11	0.9%	6	0.1%	17	0.3%
1 person age 25-34	36	2.9%	67	1.4%	103	1.7%
1 person age 35-54	110	8.8%	283	6.1%	393	6.6%
1 person age 55+	479	38.2%	353	7.5%	832	14.0%
2 person with one person age 0-14	12	1.0%	33	0.7%	45	0.8%
2 person with one person age 15-19	22	1.8%	59	1.3%	81	1.4%
2 person with both people age 20-34	11	0.9%	122	2.6%	133	2.2%
2 adults with at least one person age 35+, both people 20+, and either 0 or 1 person age 55+	70	5.6%	644	13.8%	714	12.0%
2 person both age 55+	349	27.9%	1,195	25.6%	1,544	26.0%
3 person with 1 person age 0-14	31	2.5%	318	6.8%	349	5.9%
3 person with 1 person age 15-19	16	1.3%	275	5.9%	291	4.9%
3 person with 2 people age 0-14	8	0.6%	21	0.4%	29	0.5%
3 person with 1 person age 0-14 and 1 person age 15-19	0	0.0%	0	0.0%	0	0.0%
3 person with 2 people age 15-19	6	0.5%	23	0.5%	29	0.5%
3 person with 1 person age and 2 people age 20-34	0	0.0%	1	0.0%	1	0.0%
3 person with 3 people age 20-34	0	0.0%	5	0.1%	5	0.1%
3 person with 2 people age 35-54 and 1 person age 25-34	0	0.0%	4	0.1%	4	0.1%
3 person with one or more person age 55+ and all other people age 20+	25	2.0%	156	3.3%	181	3.1%
3 person with 3 people age 35-54	0	0.0%	4	0.1%	4	0.1%
4 person with 4 people age 25-34	0	0.0%	1	0.0%	1	0.0%
4 person with 4 people age 35-54	0	0.0%	2	0.0%	2	0.0%
4 or 5 person with all people age 0-24 (Kegger Group)	2	0.2%	0	0.0%	2	0.0%
4 or 5 person with 1 person age 25-54 and all others age 0-24	7	0.6%	18	0.4%	25	0.4%
4 or 5 person with 1 person age 35-54 and all others age 25-34	0	0.0%	1	0.0%	1	0.0%
4 or 5 person with 2 or more people age 25-54 and all others 0-24 (Nuclear)	34	2.7%	810	17.3%	844	14.2%
4 or 5 person with at least 1 person age 55+ (Multi-Generational)	17	1.4%	213	4.6%	230	3.9%
6+ person all age 0-24 (Friends)	0	0.0%	0	0.0%	0	0.0%
6+ person with 1 person age 25-54 and all others age 0-24	0	0.0%	0	0.0%	0	0.0%

Household Lifecycle	<\$50,000		\$50,000+		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
6+ person with 2 or more people age 25-54 and all others age 0-54 (Large Nuclear)	3	0.2%	44	0.9%	47	0.8%
6+ person with at least 1 person age 55+ (Large Multi-Generational)	4	0.3%	18	0.4%	22	0.4%
Total	1,253	100.0%	4,676	100.0%	5,929	100.0%

**Note: Table excludes households that did not provide household income*

Nineteen percent of weekend travelers earning \$50,000 or more fall into the Nuclear household lifecycle category (4 or 5 person with 2 or more people age 25-54 and all others 0-24), while only 4 percent of those earning less than \$50,000 fall into that category.

Table 35: Household Lifecycle (All Households) by Household Income, Weekend Travelers (Unweighted)

Household Lifecycle	<\$50,000		\$50,000+		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
1 person age 0-24	6	1.2%	1	0.1%	7	0.3%
1 person age 25-34	24	4.6%	21	1.1%	45	1.9%
1 person age 35-54	36	6.9%	110	5.8%	146	6.0%
1 person age 55+	193	37.1%	115	6.0%	308	12.7%
2 person with one person age 0-14	4	0.8%	11	0.6%	15	0.6%
2 person with one person age 15-19	10	1.9%	28	1.5%	38	1.6%
2 person with both people age 20-34	3	0.6%	55	2.9%	58	2.4%
2 adults with at least one person age 35+, both people 20+, and either 0 or 1 person age 55+	28	5.4%	236	12.4%	264	10.9%
2 person both age 55+	148	28.5%	477	25.1%	625	25.8%
3 person with 1 person age 0-14	10	1.9%	151	7.9%	161	6.6%
3 person with 1 person age 15-19	8	1.5%	137	7.2%	145	6.0%
3 person with 2 people age 0-14	3	0.6%	4	0.2%	7	0.3%
3 person with 1 person age 0-14 and 1 person age 15-19	0	0.0%	0	0.0%	0	0.0%
3 person with 2 people age 15-19	2	0.4%	4	0.2%	6	0.2%
3 person with 1 person age and 2 people age 20-34	0	0.0%	0	0.0%	0	0.0%
3 person with 3 people age 20-34	0	0.0%	1	0.1%	1	0.0%
3 person with 2 people age 35-54 and 1 person age 25-34	0	0.0%	2	0.1%	2	0.1%
3 person with one or more person age 55+ and all other people age 20+	11	2.1%	60	3.2%	71	2.9%
3 person with 3 people age 35-54	0	0.0%	2	0.1%	2	0.1%
4 person with 4 people age 25-34	0	0.0%	0	0.0%	0	0.0%
4 person with 4 people age 35-54	0	0.0%	0	0.0%	0	0.0%
4 or 5 person with all people age 0-24 (Kegger Group)	0	0.0%	1	0.1%	1	0.0%

Household Lifecycle	<\$50,000		\$50,000+		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
4 or 5 person with 1 person age 25-54 and all others age 0-24	1	0.2%	7	0.4%	8	0.3%
4 or 5 person with 1 person age 35-54 and all others age 25-34	0	0.0%	0	0.0%	0	0.0%
4 or 5 person with 2 or more people age 25-54 and all others 0-24 (Nuclear)	22	4.2%	363	19.1%	385	15.9%
4 or 5 person with at least 1 person age 55+ (Multi-Generational)	7	1.3%	85	4.5%	92	3.8%
6+ person all age 0-24 (Friends)	0	0.0%	0	0.0%	0	0.0%
6+ person with 1 person age 25-54 and all others age 0-24	0	0.0%	0	0.0%	0	0.0%
6+ person with 2 or more people age 25-54 and all others age 0-54 (Large Nuclear)	3	0.6%	22	1.2%	25	1.0%
6+ person with at least 1 person age 55+ (Large Multi-Generational)	1	0.2%	11	0.6%	12	0.5%
Total	520	100.0%	1,904	100.0%	2,424	100.0%

**Note: Table excludes households that did not provide household income*

Weighted Results

The analysis in this section includes data tables run using weighted data. Over 40 percent of households residing in the City of Calgary, as well as in the surrounding region reported having two household vehicles. Overall, just 5 percent of participating households reported being zero-vehicle households; 97 percent of those (433 of 448) reside within the City of Calgary.

Table 36: Number of Household Vehicles by Geography (Weighted)

Number of Household Vehicles	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
0	433	5.5%	15	1.4%	448	5.0%
1	2,815	35.5%	210	19.3%	3,025	33.6%
2	3,180	40.1%	466	42.8%	3,646	40.4%
3+	1,498	18.9%	398	36.5%	1,896	21.0%
Total	7,925	100.0%	1,090	100.0%	9,015	100.0%

Whereas 36 percent of City of Calgary households reported having two or more workers in the household, over 49 percent of households in the surrounding region reported having two or more workers. Overall, just over 26 percent of households are zero-worker households, as shown in Table 37.

Table 37: Household Workers by Geography (Weighted)

Household Workers	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
0	2,176	27.5%	189	17.3%	2,365	26.2%
1	2,840	35.8%	366	33.6%	3,206	35.6%

Household Workers	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
2	2,338	29.5%	421	38.7%	2,760	30.6%
3+	571	7.2%	113	10.4%	685	7.6%
Total	7,925	100.0%	1,090	100.0%	9,015	100.0%

As shown in Table 38, sixty-five percent of City of Calgary households do not contain any students, while only 54 percent of those from the surrounding region reported no students in the household.

Table 38: Household Students by Geography (Weighted)

Household Students	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
0	5,132	64.8%	585	53.7%	5,718	63.4%
1	1,300	16.4%	203	18.7%	1,503	16.7%
2	1,129	14.2%	203	18.7%	1,332	14.8%
3+	364	4.6%	98	9.0%	462	5.1%
Total	7,925	100.0%	1,090	100.0%	9,015	100.0%

Survey participants were fairly evenly split by gender. Shown in Table 39, fifty-one percent of participants are female, while 49 percent are male. More females than males participated from the City of Calgary, while a slightly higher proportion of males participated from the surrounding region.

Table 39: Respondent Gender by Geography (Weighted)

Respondent Gender	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
Male	8,828	48.3%	1,654	51.5%	10,481	48.7%
Female	9,461	51.7%	1,559	48.5%	11,020	51.3%
Total	18,288	100.0%	3,213	100.0%	21,501	100.0%

As shown in Table 40, twenty percent of respondents are younger than 16, while just over 18 percent are age 55 or older. A higher proportion of City of Calgary residents are age 55 or older than those from the surrounding region.

Table 40: Respondent Age by Geography (Weighted)

Respondent Age	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
0-15	3,477	19.0%	850	26.4%	4,326	20.1%
16-24	2,340	12.8%	376	11.7%	2,716	12.6%
25-34	3,019	16.5%	519	16.1%	3,538	16.4%
35-44	2,734	14.9%	473	14.7%	3,207	14.9%

Respondent Age	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
45-54	3,184	17.4%	598	18.6%	3,782	17.6%
55-64	1,881	10.3%	250	7.8%	2,130	9.9%
65-74	1,028	5.6%	103	3.2%	1,131	5.2%
75 and older	671	3.7%	49	1.5%	719	3.3%
Total	18,334	100.0%	3,216	100.0%	21,550	100.0%

Sixty percent of adults residing in the City of Calgary are workers, plus an additional 13 percent that both work and volunteer. In the surrounding region, 62 percent are workers plus an additional 17 percent that both worked and volunteer. The overall unemployment rate in the study area is just under 24 percent of adults.

Table 41: Worker Status by Geography, Adults (Weighted)

Worker Status	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
Worker	8,915	60.0%	1,472	62.2%	10,387	60.3%
Volunteer	342	2.3%	45	1.9%	386	2.2%
Non-Worker and Non-Volunteer	3,634	24.5%	458	19.3%	4,092	23.8%
Worker and Volunteer	1,967	13.2%	392	16.6%	2,359	13.7%
Total	14,857	100.0%	2,366	100.0%	17,224	100.0%

Of the 4,092 respondents who indicated that they are not employed and do not volunteer, nearly 42 percent indicated that they are retired. Just fewer than 35 percent of unemployed residents from the surrounding region reported being retired, and 43 percent from the City of Calgary reported being retired. Twenty-seven percent of unemployed participants said that they are a student, either part-time or full-time. See Table 42, below, for additional information on unemployment status by home geography.

Table 42: Unemployment Status by Geography, Adult Non-workers/Non-volunteers (Weighted)

Unemployment Status		City of Calgary		Surrounding Region		Overall	
		Frequency	Percent	Frequency	Percent	Frequency	Percent
Unemployment Status Provided	Retired	1,554	42.8%	158	34.5%	1,711	41.8%
	Homemaker	782	21.5%	106	23.2%	888	21.7%
	Unemployed	142	3.9%	19	4.1%	161	3.9%
	Student (Part-time or Full-Time)	954	26.3%	145	31.7%	1,099	26.9%
	Other	181	5.0%	30	6.5%	211	5.2%
Alternate Unemployment Provided	Retired or Homemaker or Unemployed	20	0.6%	0	0.0%	20	0.5%
Total		3,634	100.0%	458	100.0%	4,092	100.0%

A higher proportion of Calgary residents reported having attained a graduate degree (18 percent) than region residents (11 percent). Overall, just over nine percent of residents have attained a technical or trades school degree, as shown in Table 43.

Table 43: Education Attained (Weighted)

Education Attained	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
Pre-school	840	4.6%	166	5.2%	1,006	4.7%
Kindergarten – Grade 6	1,419	7.7%	360	11.2%	1,779	8.3%
Grades 7-9	893	4.9%	196	6.1%	1,088	5.1%
Grades 10-12	4,285	23.4%	901	28.0%	5,186	24.1%
University – Undergraduate	3,667	20.0%	481	14.9%	4,147	19.2%
University – Graduate	3,351	18.3%	343	10.7%	3,695	17.1%
College (e.g. Bow Valley College)	1,446	7.9%	308	9.6%	1,753	8.1%
Technical or Trades School (e.g. SAIT or apprenticeship)	1,727	9.4%	303	9.4%	2,030	9.4%
Other	548	3.0%	145	4.5%	693	3.2%
Refused	160	0.9%	12	0.4%	172	0.8%
Total	18,334	100.0%	3,216	100.0%	21,550	100.0%

Seventy-two percent of study area participants are non-students. Twenty-two percent of Calgary participants are full-time students, while nearly 26 percent of region participants are full-time students. Please see Table 44 for more information on the student status of survey participants.

Table 44: Student Status by Geography (Weighted)

Student Status	City of Calgary		Surrounding Region		Overall	
	Frequency	Percent	Frequency	Percent	Frequency	Percent
Full-Time	4114	22.4%	822	25.6%	4937	22.9%
Part-Time	984	5.4%	143	4.5%	1127	5.2%
Not a Student	13236	72.2%	2250	70.0%	15486	71.9%
Total	18334	100.0%	3216	100.0%	21550	100.0%

Just fewer than 29 percent of students are enrolled in Kindergarten through grade 6, followed by 20 percent of students being enrolled in grades 10-12. While some students preferred not to provide expanded grade level, they were willing to provide alternate grade ranges as indicated in Table 45, below.

Table 45: Student Grade Level by Geography (Weighted)

Student Grade Level		City of Calgary		Surrounding Region		Overall	
		Frequency	Percent	Frequency	Percent	Frequency	Percent
Student Grade Level Provided	Pre-School / Daycare	480	9.4%	55	5.7%	534	8.8%
	Kindergarten – Grade 6	1,363	26.7%	380	39.3%	1,743	28.7%
	Grades 7-9	612	12.0%	139	14.4%	751	12.4%

Student Grade Level		City of Calgary		Surrounding Region		Overall	
		Frequency	Percent	Frequency	Percent	Frequency	Percent
	Grades 10-12	985	19.3%	217	22.4%	1,202	19.8%
	University – Undergraduate	831	16.3%	106	11.0%	937	15.4%
	University – Graduate	307	6.0%	25	2.6%	332	5.5%
	College (e.g. Bow Valley College)	210	4.1%	15	1.6%	226	3.7%
	Technical or Trades School (e.g. SAIT or apprenticeship)	291	5.7%	30	3.1%	320	5.3%
	Other	13	0.2%	0	0.0%	13	0.2%
Alternate Student Grade Ranges Provided	Pre-School to Grade 8	3	0.1%	0	0.0%	3	0.0%
	Grade 9 to 12	1	0.0%	0	0.0%	1	0.0%
	Technical/vocational school, college/university (2 or 4-year)	3	0.1%	0	0.0%	3	0.1%
Total		5098	0.0%	966	100.0%	6,064	100.0%

Travel and Activity Behavior

This section presents information on unlinked trip rates using all-day travel as reported by participating households; rates and mode distributions may be different than other sources of mode data. Summarized in Table 46, on average, households residing within the study area made 11 trips on their travel day, while household members average 4.6 trips per day. On average, City of Calgary households make slightly fewer household trips (10.9), than households residing in the surrounding region (12.1). Conversely, individual household members residing in Calgary reported slightly higher person trip rates than individual region residents (4.7 compared with 4.1, respectively).

Table 46: Trip Rates (Weighted)

Trip Rates	City of Calgary	Surrounding Region	Overall
Average Household Trip Rate	10.9	12.1	11.1
Average Person Trip Rate	4.7	4.1	4.6

Table 47 shows activity rates for participating households, persons, and places visited on reported travel days. Overall, households average 11.3 activities and household members average just over four activities on their travel day.

Table 47: Activity Rates (Weighted)

Activity Rates		City of Calgary	Surrounding Region	Overall
Household	In-Home Activities per Household	11.1	12.8	11.3
	Out-of-Home Activities per Household	8.8	9.4	8.8
	Average Activities per Household	9.9	11.1	10.1
Person	In-Home Activities per Person	4.8	4.4	4.7
	Out-of-Home Activities per Person	3.8	3.2	3.7

Activity Rates		City of Calgary	Surrounding Region	Overall
	Average Activities per Person	4.3	3.8	4.2
Place	In-Home Activities per Place	1.0	1.1	1.0
	Out-of-Home Activities per Place	0.8	0.8	0.8
	Average Activities per Place	0.9	0.9	0.9

As expected, larger households reported higher average trip rates than smaller households. This trend is illustrated in Table 48, below.

Table 48: Trip Rates by Household Size (Weighted)

Number of Household Size	Weighted HH Count	Weighted TRIP Count	Weighted HH Trip Rate
1	2,201	8,248	3.8
2	2,983	20,052	6.7
3	1,499	21,368	14.3
4+	2,333	49,613	21.3
Total	9,015	99,280	11.0

Similar to the trend seen with trip rates as they relate to household size, in general, households with more household workers tend to make more trips during their travel day. Zero-worker households average just 3.2 trips, while three or more worker households average nearly 23. See Table 49 for the distribution of trip rates by number of household workers.

Table 49: Trip Rates by Number of Household Workers (Weighted)

Number of Household Workers	Weighted HH Count	Weighted TRIP Count	Weighted HH Trip Rate
0	2,365	7,493	3.2
1	3,206	31,948	10.0
2	2,760	44,280	16.0
3+	685	15,559	22.7
Total	9,015	99,280	11.0

As households earn higher incomes, they tend to make more discretionary trips, thus resulting in increased trip rates. This is demonstrated in Table 50 below. Whereas households earning between \$15,000 and \$30,000 reported an average of 5.4 trips on their travel day, households earning \$150,000 or more reported making nearly 16.5 trips.

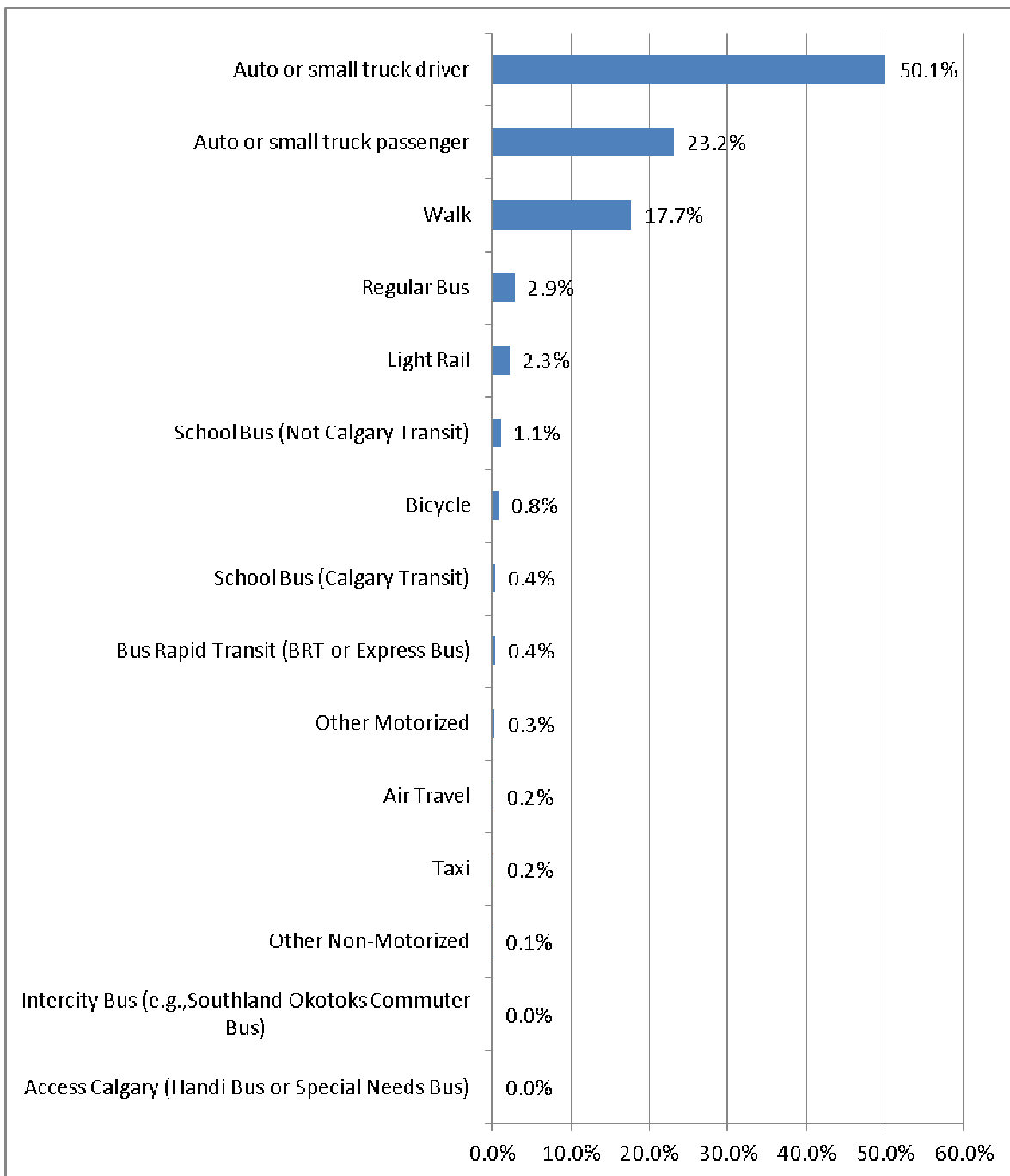
Table 50: Trip Rates by Household Income (Weighted)

Income	Weighted HH Count	Weighted TRIP Count	Weighted HH Trip Rate
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Income	Weighted HH Count	Weighted TRIP Count	Weighted HH Trip Rate
Less than \$15,000	405	2,855	7.1
\$15,000 to \$29,999	1,064	5,716	5.4
\$30,000 to \$49,999	1,595	11,735	7.4
\$50,000 to \$74,999	1,616	16,698	10.3
\$75,000 to \$99,999	1,397	18,830	13.5
\$100,000 to \$149,999	1,306	20,410	15.6
\$150,000 or more	1,155	19,009	16.5
Refused to Provide Income	477	4,028	8.4
Total	9,015	99,280	11.0

Figure 6 shows distribution of travel mode for all places reported during the CARTAS full study. Just fewer than 18 percent of all trips are made by walking, and regular bus trips account for nearly 3 percent of all trips.

Figure 6: Travel Mode (Weighted)



Twenty-two percent of all activities reported are “Household Activities”, followed by “Sleeping” (17 percent), and “Eating a meal” (17 percent). Just over 5 percent of activities are for “Working (for pay)”. See Figure 7 for additional detail on activities conducted by survey participants.

Figure 7: Activity Conducted At Location (Weighted)

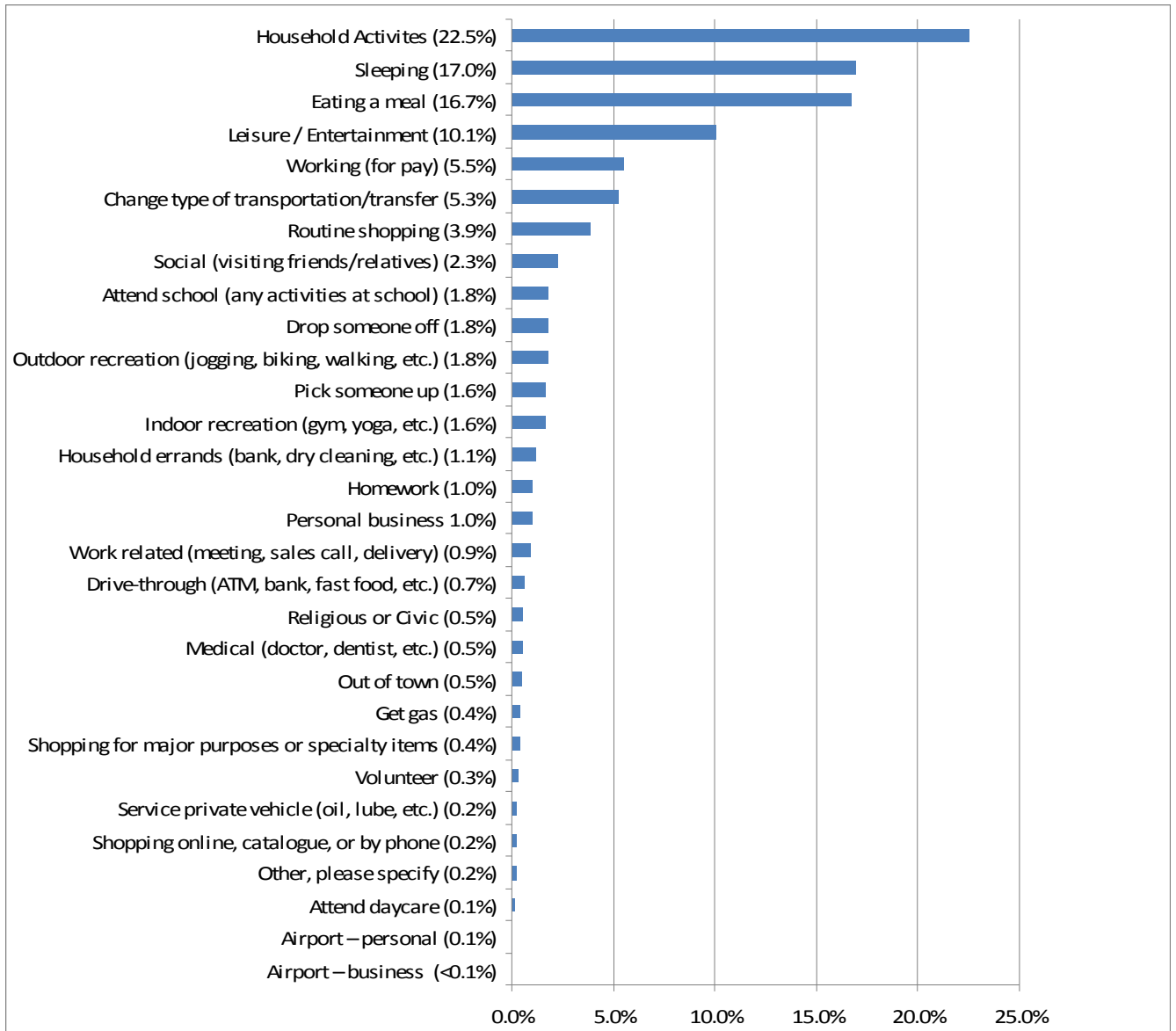
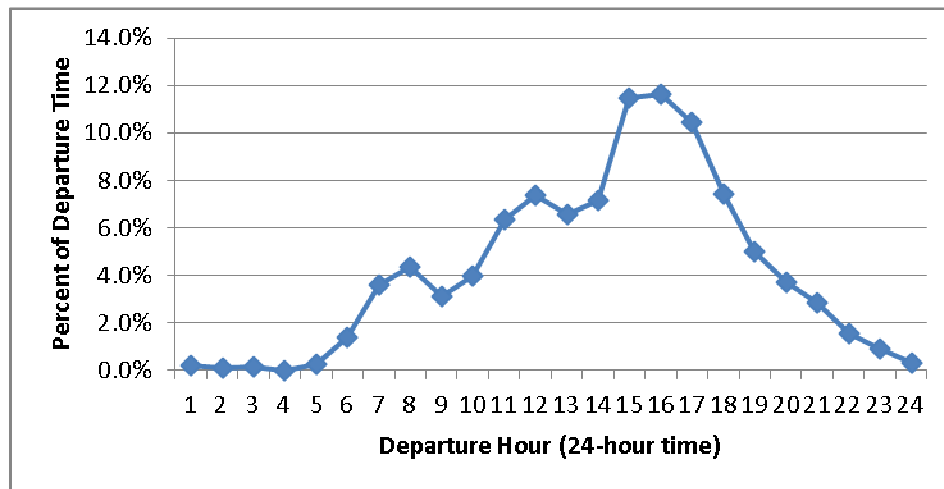


Figure 8, below, illustrates peak travel times in the morning, mid-day, and evening hours. Most trips occur between three p.m. and six p.m.

Figure 8: Trip Departure Times



Appendix A: Recruitment CATI Survey

Introduction / Screening

Universe: All

INT01

Universe: All

Hi, this is _____ with the Calgary and Region Travel and Activity Survey conducted on behalf of the City of Calgary. May I speak to an adult member of the household, age 18 or older in the household?

IF NEEDED: I'm calling on behalf of the City of Calgary, and the Calgary Regional Partnership about improving transportation in your area.

Advance Letter: ADVLT

Universe: All

We recently sent a brochure to your home to tell you about this important project. The City of Calgary, and the Calgary Regional Partnership are sponsoring the survey and are responsible for planning and improving transportation in the region. Did you receive the brochure? [IF NEEDED] The project is being supported by Alberta Transportation and the Calgary Regional Partnership.

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

PRVEW

Universe: ADVLTY<>1

We are doing a very important study about people's travel patterns and transportation needs. Planning agencies in your region will use data collected to make decisions about how to improve the region's transportation system. As a participating household, everyone who lives in your home or is visiting on your household's travel day will record their travel for 24-hours in a special diary. All data is strictly confidential is protected and will only be used to help plan better transportation facilities and services in the Calgary Region.

Spring Break: SPRINGBK

Universe: All

Before we provide your household a travel day, we would like to know if any member of your household will be on Spring Break any of the following weeks, I will read to you. DO NOT READ ASSN NUMBERS.

- 1 NO
- 2 March 26 – 30, 2012 (ASSN 12586 – 12590)
- 3 April 2 – 6, 2012 (ASSN 12593 – 12597)
- 4 April 9 – 13, 2012 (ASSN 12600 – 12604)
- 8 DON'T KNOW
- 9 REFUSE

SPRINGBK	NON VALID ASSNS
1	ALL ASSNS VALID
2	12584 - 12592
3	12591 - 12599
4	12598 - 12606
8	ALL ASSNS VALID
9	ALL ASSNS VALID

HH_ADR

Universe: All

(S2) Before we begin the survey, we would like to ask you for some general information about your household. This information will help us make sure we include all types of households in your area.

Please verify your address is still [ADDRESS].

- 1 YES, THIS IS MY ADDRESS
- 2 NO, THIS IS NOT MY ADDRESS [COLLECT CURRENT PHYSICAL ADDRESS]

Home Address: HADDR

Universe: All

What is your physical address? NO P.O. BOXES ALLOWED. PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

(HADDR) Address: _____
 (HSUIT) Suit: _____
 (HCITY) City: _____
 (HPROV) Province: _____
 (HPC) Postal Code: _____

Household Size: HHSIZ

Universe: All

We will be sending a diary for everyone who lives in your home or will be visiting your household on <DAY AND DATE> to keep track of travel and activities.

How many people, including yourself, live in your home?

NOTE: A HOUSEHOLD CONSISTS OF THE ENTIRE GROUP OF PERSONS WHO LIVE IN ONE DWELLING UNIT AND SHARE A KITCHEN. HH MEMBERS MAY BE A SINGLE FAMILY, TWO OR MORE FAMILIES LIVING TOGETHER, OR ANY OTHER GROUP OF RELATED OR UNRELATED PERSONS WHO SHARE LIVING ARRANGEMENTS.

IF NEEDED: EXAMPLES OF VISITORS ARE CHILDREN, FRIENDS, OR OTHER RELATIVES THAT DO NOT LIVE IN THE HOUSHOLD BUT WILL BE STAYING OVERNIGHT

ENTER NUMBER [RANGE 1-15]
 99 PREFER NOT TO ANSWER

People Visiting, from Out of Town, on Travel Day: HHVIS

Universe: All

How many visitors will be at your home on <ASSN>?
 ENTER NUMBER

- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Residence Type: RESTY

Universe: All

Do you live in a...

- 1 Single-family detached house
- 2 Duplex / Triplex / Fourplex
- 3 Row House
- 4 Apartment Building that has 5 or more stories
- 5 Apartment building that has fewer than 5 stories
- 6 Mobile home / Manufactured Home / RV / House Boat
- 7 Rooming House / Collective Residence / Dormitory
- 97 Other, SPECIFY
- 99 PREFER NOT TO ANSWER

Home Ownership Status: OWN

Universe: All

Do you own or rent your home?

- 1 Rent
- 2 Own/Buying (Paying off Mortgage)
- 7 Other, SPECIFY
- 9 PREFER NOT TO ANSWER

Approximate Size of Home: SQRFT

Universe: All

What is the approximate size of your home?

[INTERVIEWER NOTE: IF NEEDED: Studies have shown that the size of a household relates to the number of trips a household makes. Members of households in larger homes often make more trips than members of households in smaller homes.]

- 1 0-1,000 square feet [0-93 square meters]
- 2 1,000-1,500 square feet [93-139 square meters]
- 3 1,500-2,000 square feet [130-186 square meters]
- 4 2,000-3,000 square feet [186-279 square meters]
- 5 3,000 square feet or more [279 square meters or more]
- 9 PREFER NOT TO ANSWER

Number of Rooms: RMS

Universe: All

How many bedrooms are there in your home?

- ENTER NUMBER
- 99 REFUSED

Household Vehicle: HHVEH

Including all cars, trucks, vans, motorcycles and recreational vehicles, whether owned or leased or provided by an employer, how many vehicles are in working condition and presently available to the members of your household?

- ENTER NUMBER [RANGE 0-15]
- 99 REFUSED

VEHICLE INFORMATION

Ok, now I'd like to get some information about your vehicle(s).

Vehicle Year: YEAR

Universe: HHVEH>0

What is the year of <VEHNO>?
[RANGE=1920-2012]
9998 DON'T KNOW
9999 REFUSED

[IF YEAR=9998 or 9999] I understand your hesitancy to provide this information. However, every question in this survey is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence.
IF RESPONDENT STILL REFUSES: Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening

Vehicle Make: MAKE

Universe: HHVEH>0

What is the make of <VEHNO>?
97 Other, SPECIFY
98 DON'T KNOW
99 REFUSED

Vehicle Model: MODEL

Universe: HHVEH>0

What is the model of <VEHNO>?
ENTER MODEL
8 DON'T KNOW
9 REFUSED

Fuel Type: FUEL

Universe: HHVEH>0

What type of fuel does <VEHNO> use?
1 Gas
2 Diesel
3 Hybrid
4 Flex Fuel
7 Other, SPECIFY
8 DON'T KNOW
9 REFUSED

Vehicle Owned, leased, employer provided: VOWN

Universe: HHVEH>0

Is <VEHNO> owned, leased, employer provided, or something else?
1 OWNED OR LEASED
2 RENTAL CAR
3 EMPLOYER PROVIDED – OPEN USE
4 EMPLOYER PROVIDED – USE RESTRICTIONS
5 BORROWED FROM FRIEND OR RELATIVE
6 LOANER VEHICLE FROM REPAIR SHOP
7 FORMAL CAR SHARING PROGRAM
8 DON'T KNOW
9 REFUSED

VEHICLE ROSTER TO BE REPEATED FOR EACH VEHICLE, UP TO EIGHT VEHICLES

2: PERSON INFORMATION – ALL MEMBERS OF HH

Universe: ALL

First Name: FNAME**Universe: All**

Thank you. Now I will ask a few questions to get information about each person in your household so that we can prepare individual travel diaries. Again, I want to assure you that this information is for research purposes only and will be kept strictly confidential. Earlier, you indicated there were <HHSIZ> persons in your household. What is your first name?

[IF ONLY 2 PERSONS IN THE HOUSEHOLD ASK: What is your first name? THEN ASK: What is the other person's first name?]

ENTER NAME

What is the name of the next oldest person in the household? [IF RELUCTANT] Initials are okay at this point.

What is the name of the next oldest person?
[IF RELUCTANT] Initials are okay at this point.

Gender: GEND**Universe: All**

And what is [FNAME]'s gender? [INTERVIEWER NOTE: DO NOT ASK RESPONDENT ABOUT HIS/HER GENDER]

- 1 MALE
- 2 FEMALE
- 8 Don't Know
- 9 REFUSED

Calgary Region Resident: RESI**Universe: All**

[Are/Is] [you/he/she] a household member, or a visitor that will be staying at the household on <ASSN>?

- 1 Resident
- 2 Out of town visitor
- 98 Don't Know
- 99 REFUSED

IF NEEDED: EXAMPLES OF VISITORS ARE CHILDREN, FRIENDS, OR OTHER RELATIVES THAT DO NOT LIVE IN THE HOUSEHOLD BUT WILL BE STAYING OVERNIGHT.

Visitor City: HTOWN**Universe: RESI=2**

The following information is only used to ensure the representativeness of our survey sample. What is <PRN14> city and province, state, or country of residence?

(HTCITY)City: _____
(HPROV)Province/State/Country: _____
NOTE: LEAVE BLANK IF REFUSED

Bring Vehicle to Calgary for Visit: BVEH**Universe: RESI=2**

Did you bring a vehicle with you on your visit to Calgary?

- 1 Yes
- 2 No
- 9 REFUSED

Mode of Transportation to get to Calgary: TRANSPORT

Universe: RESI=2

What mode of transportation did you use for your visit to Calgary?

- 1 Walk
- 2 Bicycle
- 3 Other non-motorized
- 4 Vehicle driver
- 5 Vehicle passenger
- 6 Light Rail
- 7 Bus Rapid Transit (BRT or express route)
- 8 Regular bus
- 9 Access Calgary (Handi Bus and Special Needs Bus)
- 10 Intercity bus (e.g., Southland Okotoks Commuter Bus)
- 11 School bus (Calgary transit)
- 12 Taxi
- 13 School bus (not Calgary transit)
- 14 Air travel
- 15 Other motorized
- 99 REFUSED

Number of Nights spent in Calgary: NIGHTS

Universe: RESI=2

How many nights did you spend on Calgary?

- ENTER NUMBER OF NIGHTS:
- 99 REFUSED

Age: AGE

Universe: All

What is [his/her/your] age in years?

- ENTER AGE [RANGE: 1-98]
- 99 99 years or older
- 998 Don't Know
- 999 REFUSED

REFAGE

Universe: AGE=999

I understand your hesitancy to provide age, however it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some age ranges to you, and you can tell me when I get to the appropriate range. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INT07

Universe: REFAGE=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Age Ranges In Years: ALTAGE

Universe: REFAGE=2

Please select the age range that best represents [you/FNAME]:

- 1 0-15
- 2 16-24

- 3 25-34
- 4 35-44
- 5 45-54
- 6 55-64
- 7 65-74
- 8 75 and older

Licensed Driver: LIC

Universe: RESI<>2 and AGE>15 or ALTAGE>1

[Does/Do] [he/she/you] have a valid driver's license?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSED

Illness or Disability that affects ability to travel: DISAB

Universe: RESI<>2

[Does/Do] [he/she/you] have an illness or disability that affects [your/their] ability to travel?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSED

3: WORK INFORMATION – ALL MEMBERS OF HH
Universe: Age 16+; if under skip to SCHOOL INFORMATION

Employed: EMPLY

Universe: RESI<>2 and IF AGE>15 or ALTAGE>1

[Is/Are] [he/she/you] employed either full-time or part-time?

- 1 Yes
- 2 No
- 8 Don't Know
- 9 REFUSED

INTXX

Universe: EMPLY=9

I understand your hesitancy to provide information regarding full or part time status. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you'd like to provide this information, I can collect it now. If you do not feel comfortable providing this information, I will need to end the interview.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 9 I don't want to provide this information

Volunteer: VOLUN

Universe: RESI<>2

[Does/Do] [he/she/you] do any type of volunteer work on a regular basis?

- 1 Yes
- 2 No
- 9 REFUSED

REFVOLUN

Universe: VOLUN=9

I understand your hesitancy to provide information regarding your volunteer status. However volunteer status is critical for transportation planning and forecasting future transportation needs.

You can be assured that this information will be held in the strictest of confidence. If you'd like to provide this information, I can collect it now. If you do not feel comfortable providing this information, I will need to end the interview.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 9 RESPONDENT REFUSES

Works: WORKS

**Universe: RESI<>2 and (AGE>15 and AGE<999 or ALTAGE>1
[CALCULATED]**

- 1 [IF EMPLY=1] TREAT AS WORKER
- 2 [IF EMPLY>1 AND VOLUN=1] TREAT AS VOLUNTEER
- 3 [IF EMPLY>1 AND VOLUN>1] TREAT AS NON WORKER / NON VOLUNTEER
- 4 [IF EMPLY=1 AND VOLUN=1]TREAT AS BOTH WORKER AND VOLUNTEER

Status: WKSTAT

Universe: RESI<>2 and WORKS=3

Which of the following best describes [his/her/your] status?

- 1 Retired
- 2 Homemaker
- 3 Unemployed
- 4 Student (Part-time or full-time)
- 7 Other, SPECIFY
- 8 Don't Know
- 9 REFUSED

REFWKSTAT

Universe: WKSTAT=9

I understand your hesitancy to provide work status. However work status is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some categories to you, and you just stop me when I get to the appropriate category. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFWKSTAT=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Broad Work Status Ranges: ALTWKSTAT

Universe: REFWKSTAT=2

Please select the category that best represents [his/her/your] status:

- 1 Retired / Homemaker / Unemployed
- 2 Student

Self-Employed: SELF

Universe: RESI <>2 and EMPLY=1

[Are/Is] [he/she/you] self-employed?

- 1 YES
- 2 NO

- 8 Don't Know
- 9 REFUSED

Number of jobs: JOBS

Universe: RESI <>2 and EMPLOY=1

How many jobs [does/do] [he/she/you] have?

ENTER NUMBER:
[RANGE 1-10]

Number of HRs Worked Last Week at primary Job: LSTWK

Universe: RESI <>2 and EMPLOY=1

How many hours did [he/she/you] work last week at [his/her/your] [primary/secondary] job? ROUND UP TO NEAREST WHOLE NUMBER

ENTER NUMBER: [RANGE 1-150]

- 998 Don't Know
- 999 REFUSED

REFLSTWK

Universe: LSTWK=999

I understand your hesitancy to provide the number of hours you worked last week. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some ranges to you, and you just stop me when I get to the appropriate range. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFVLSTWK=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Range of Number of Hours worked last week: ALTLSTWK

Universe: REFLSTWK=2

Please select the range that represents the number of hours [he/she/you] worked last week at [his/her/your] [primary/secondary] job:

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

Was Last Week a Typical Work Week: TPCL

Universe: RESI <>2 and EMPLOY=1

With respect to hours worked for <PRN15> [primary/secondary] job, was this a typical work week?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSED

Hours Worked Per Week: WHOORS

Universe: RESI<>2 and TPCL<>1

How many hours <PRN30> <PRN14> typically work at <PRN15> [primary/secondary] job?

ENTER NUMBER: [RANGE 1-150]

REFWHOURS

Universe: WHOURS=999

I understand your hesitancy to provide the number of hours you typically work per week. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some age ranges to you, and you just stop me when I get to the appropriate range. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION → BACK TO WHOURS
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION →SKIP TO ALTHOURS
- 9 RESPONDENT REFUSES

INTXX

Universe: REFWHOURS=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Range of Number of Hours typically worked per week: ALTHOURS

Universe: REFWHOURS=2

Please stop me when I get to the range that represents the number of hours [he/she/you] typically work.

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

Know Annual, Pre-Tax, Salary: PREWAGE

Universe: RESI <>2 and EMPLOY=1

Now I'd like to ask you a question about the wage <PRN14> <PRN40> <PRN15> [primary/secondary] job. I appreciate that this is sensitive information and you can be assured that this information will be held in the strictest of confidence. This information is important because it helps transportation planners measure labor productivity which has an impact on how and where people travel.

Do you know your annual, pretax, salary?

- 1 YES
- 2 NO

Approximate Annual Wage: WAGE

Universe: PREWAGE=2

And, how often do you get paid? Is it

- 1 WEEKLY (Once per week)
- 2 BI-WEEKLY (Every other week)
- 3 MONTHLY (Once per month)
- 9 REFUSED

Wage Paid Weekly: WEEKLY

Universe: WAGE=1

Please choose the following range that most accurately identifies the amount you are paid weekly. Is it

- 1 0 – 400
- 2 400 – 800
- 3 800 – 1,600
- 4 1,600 or more
- 9 REFUSED

Wage Paid Bi-Weekly: BIWEEKLY

Universe: WAGE=2

Please choose the following range that most accurately identifies the amount you are paid bi-weekly.
Is it

- 1 0 – 800
- 2 800 – 1,600
- 3 1,600 – 3,200
- 4 3,200 or more
- 9 REFUSED

Wage Paid Monthly: MONTHLY

Universe: WAGE=3

Please choose the following range that most accurately identifies the amount you are paid monthly.
Is it

- 1 0 – 1,600
- 2 1,600 – 3,200
- 3 3,200 – 6,400
- 4 6,400 or more
- 9 REFUSED

Wage Paid Annually: ANNUALLY

Universe: PREWAGE=1

Please choose the following range that most accurately identifies the amount you are paid annually.
Is it

- 1 0 – 20,000
- 2 20,000 – 40,000
- 3 40,000 – 80,000
- 4 80,000 or more
- 9 REFUSED

Primary Work Location: WLOC

Universe: RESI <=2 and EMPLOY=1

And is [his/her/your] work location for [his/her/your] [primary/secondary] job fixed, is it [his/her/your] home, or does it vary from day to day or week to week?

- 1 WORK FIXED LOCATION OUTSIDE OF HOME
- 2 TELECOMMUTER
- 3 WORK AT HOME
- 4 NO PLACE OF WORK (TAXI DRIVER OR SALESMAN)
- 5 PLACE OF WORK MAY CHANGE DAY TO DAY
- 6 PLACE OF WORK BEYOND DAILY COMMUTING DISTANCE

Vehicle Needed at Work: WVEH

Universe: RESI <=2 and EMPLOY=1

[Do/Does] [you, NAME] need [your/their] vehicle at work to perform [your/their] [primary/secondary] job?

- 1 YES
- 2 NO
- 9 REFUSED

REFWVEH

Universe: WVEH=9

I understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some categories to you, and you just stop me when I get to the appropriate category. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFWVEH=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

How often vehicle needed at work: ALTWVEH

Universe: WVEH<>2

How often [do/does] [you/NAME] need [your/their] vehicle at work to perform [your/their] job?

- 1 ALWAYS
- 2 SOMETIMES
- 3 NEVER

Work name: WNAME

Universe: RESI<>2 and EMPLOY=1 and WLOC<>3 and WLOC1<>3

What is the name of [his/her/your] [primary/secondary] job location?

ENTER RESPONSE: _____

CWADD

Universe: RESI=1 and EMPLOY=1 and WLOC<>3, 4, 5

What is the address of [his/her/your] [primary/secondary] job?

- 1 COMPLETE STREET ADDRESS KNOWN → GO TO WADDR
- 2 CROSS STREETS KNOWN BUT NOT FULL ADDRESS → WSXTR
- 8 DON'T KNOW
- 9 REFUSED

REFCWADD

Universe: CWADD>2

I understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFCWADD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening

Work Cross-Streets: WSXTR

Universe: RESI=1 and EMPLOY=1 and CWADD=2

Can you tell me the nearest cross streets of this work location?

ENTER RESPONSE: _____

Work Address: WADDR

Universe: RESI=1 and EMPLY=1 and CWADD=1

(IF NEEDED) What is the address of [his/her/your] [primary/secondary] job? PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

(WADDR) ADDRESS: _____

(WSUIT) SUIT: _____

(WCITY) CITY: _____

(WPROV) PROVINCE: _____

(WPC) POSTAL CODE: _____

Occupation Description: OCCUP

Universe: RESI =1 and EMPLY=1

How would you describe [his/her/your] occupation?

0	Management	Legislators, Government Officials, Mangers & Directors
1	Business, Finance and Administration	Accountants, Consultants, Administrators, Clerical Workers, Office Equipment Operators
2	Natural and Applied Science	Physical & Life Science Professionals, Engineers, Architects, Urban Planners, Surveyors, Mathematicians, Physical and Life Science Technicians, Computer Technicians
3	Health Services	Physicians, Dentists, Veterinarians, Optometrists, Chiropractors, Pharmacists, Dieticians, Therapy and Assessment Professionals, Registered Nurses, Health Technicians and Assistants
4	Social & Government Services & Teaching	Judges, Lawyers, Notaries, Professors, Instructors, Vocational Instructors, Teachers, Counsellors, Psychologists, Social Workers, Clergy, Probation Officers.
5	Performing & Facilitating Art, Culture, Recreation and Sports	Librarians, Creative Artists, Performing Artists & Technicians, Athletes, Coaches
6	Sales and Service Provision	Sales & Service Provision Insurance Agents, Real Estate Agents, Chefs, Cooks, Butchers, Bakers, Police Officers, Firefighters, Hairstylists, Retail Sales, Tourism, Food and Beverage, Cashiers, Clerks & Attendants
7	Trades, Transport & Equipment Operation	Building Contractors, Construction Tradespeople, Journeymen or Journeypersons, Airline Pilots, Flight Crew Members, Motor

		Vehicle Drivers, Manual Labourers.
8	Occupations Unique to Primary Industry (e.g. Oil & Gas, Logging, Mining, Agriculture)	Oil & Gas Drillers, Logging Machinery Operators, Operators & Agriculture & Horticulturalist Activities, Other Workers and Labourers
9	Occupations Unique to Processing, Manufacturing & Utilities	Processing and Manufacturing Activities, Assemblers & Labourers

97 Other, please specify

Industry Description: INDUS

Universe: RESI =1 and EMPLY=1

What industry [do/does] [you/he/she] work in?

1	Agriculture, Forestry, Fishing and Hunting
2	Mining, Quarrying, Oil & Gas Extraction
3	Utilities (e.g. power generation, natural gas distribution, water, sewage)
4	Construction (e.g. building construction, civil engineering)
5	Manufacturing (e.g. food, textiles, wood, paper, printing, plastics, machinery and other products)
6	Wholesale Trade
7	Retail Trade
8	Transportation, Warehousing and Storage (transport of goods or people by air, rail, truck etc., postal services, & warehousing.)
9	Information & Cultural Industries (e.g. publishing, film, telecommunications, internet)
10	Finance and Insurance
11	Real Estate & Rental & Leasing
12	Professional, Scientific & Technical Services (e.g. accounting, architecture, engineering, design)
13	Management of Companies and Enterprise
14	Administrative & Support, Waste Management and Remediation Services
15	Educational Services
16	Health Care & Social Assistance
17	Arts, Entertainment & Recreation
18	Accommodation and Food Services
19	Other services (except Public Administration) (e.g. repair and maintenance)
20	Public Administration (e.g. Federal, Provincial and Municipal protective services, regulatory services, labor & employment services, emergency services, aboriginal administration, and international and other extra-territorial administration)

97 Other, please specify

Parking Offered at Work: EMPRK

Universe: RESI =1 and EMPLY=1

Does [his/her/your] [primary/secondary] employer offer parking regardless of whether or not [he/she/you] use it? IF YES, PROBE IF IT IS FREE OR PAID PARKING.

- 1 YES – FREE
- 2 YES – PAID
- 3 NO
- 8 DON'T KNOW
- 9 REFUSED

Type of Parking: PKTYP

Universe: RESI=1 and EMPLY=1 and EMPRK< 3

What type of parking is offered by [his/her/your] [primary/secondary] employer?

- 1 ON DESTINATION PROPERTY (DRIVEWAY OR SURFACE LOT)
- 2 ON DESTINATION PROPERTY (GARAGE OR PARKADE)
- 3 ON STREET BY DESTINATION PROPERTY
- 4 DIFFERENT LOCATION – SURFACE LOT (ADDRESS)
- 5 DIFFERENT LOCATION – PARKADE (ADDRESS)
- 6 DIFFERENT LOCATION – ON STREET (ADDRESS)
- 7 DID NOT PARK (PICK UP OR DROP OFF)
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

Cost of Parking: PKCOS

Universe: RESI=1 and EMPLY=1 and EMPRK=2 and PKTYP=4,5,6, or 97

How much do [he/she/you] pay for parking?

- 7 RECORD RESPONSE
- 8 DON'T KNOW
- 9 REFUSED

[IF PKCOS= 8 or 9] I understand your hesitancy to provide this information. However, every question in this survey is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence.

IF RESPONDENT STILL REFUSES: Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Frequency of Parking Payments: PCFREQ

Universe: PKCOS=7

What is the frequency of these parking payments?

- 1 Per hour
- 2 Per day
- 3 Per week
- 4 Per month
- 5 Per year
- 7 Other, specify
- 8 Don't Know
- 9 PREFER NOT TO ANSWER

Parking Location Specified: WPLOC

Universe: RESI=1 and EMPLY=1 and PKTYP=4, 5, or 6

Please specify [his/her/your] [primary/secondary] parking location.

- 7 RECORD RESPONSE
- 8 DON'T KNOW
- 9 REFUSED

[IF WPLOC= 8 or 9] I understand your hesitancy to provide this information. However, every question in this survey is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence.

IF RESPONDENT STILL REFUSES: Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Number of Volunteer Jobs: VJOBS

Universe: RESI=1 and VOLUN=1

How many volunteer jobs [does/do] [he/she/you] have?

ENTER NUMBER: [RANGE 1-10] _____

99 REFUSED

Number of Hrs. Volunteered Last Week: VLSTWK

Universe: RESI=1 and VOLUN=1

How many hours did [he/she/you] work last week at [his/her/your] volunteer location?

ROUND UP TO NEAREST WHOLE NUMBER.

ENTER NUMBER: [RANGE 1-150]

999 REFUSED

REFVLSTW

Universe: VLSTWK=999

I understand your hesitancy to provide the number of hours you volunteered last week. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some ranges to you, and you just stop me when I get to the appropriate range. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFVLSTWK=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Range of Hrs. Volunteered Last Week: ALTVLSTWK

Universe: REFVLSTW=2

Please choose the range that represents the number of hours [he/she/you] worked last week at [his/her/your] volunteer location:

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

With Respect to Hrs., is this typical Hrs. Volunteering: VTPCL

Universe: RESI=1 and VOLUN=1

With respect to hours worked, was this a typical volunteer week?

- 1 Yes
- 2 No
- 8 Don't Know
- 9 PREFER NOT TO ANSWER

What are Typical Hrs. Volunteered: VHOURS

Universe: RESI=1 and VTPCL<>1

How many hours [does/do] [he/she/you] typically volunteer? ROUND UP TO NEAREST WHOLE NUMBER

Enter Number: [RANGE 1-150]
999 PREFER NOT TO ANSWER

REFVHOUR

Universe: VHOURS=999

I understand your hesitancy to provide the number of hours you typically volunteer per week. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some age ranges to you, and you just stop me when I get to the appropriate range. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFVHOURS=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Range of Hrs. Typically Volunteer per Week: ALTVHOURS

Universe: REFHOUR=2

Please choose the range that represents the number of hours [he/she/you] typically volunteer:

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

Volunteer Location: VLOC

Universe: RESI=1 and VOLUN=1

And is [his/her/your] work schedule for [his/her/your] volunteer job fixed, is it [his/her/your] home, or does it vary from day to day or week to week?

- 1 Volunteer fixed location outside of home
- 2 Telecommuter
- 3 Volunteer at home
- 4 No place of volunteer (taxi driver or salesman)
- 5 Place of volunteer may change day to day
- 6 Place of volunteer beyond daily commuting distance

Volunteer Name: VNAME

Universe: RESI=1 and VOLUN=1 and VLOC<>3

What is the name of [his/her/your] volunteer job location?

ENTER RESPONSE: _____

CVADD

Universe: RESI=1 and VOLUN=1 and VLOC<>3, 4, 5

What is the address of [his/her/your] volunteer job?

- 1 RESPONDENT KNOWS COMPLETE ADDRESS
- 2 RESPONDENT KNOW CROSS STREETS
- 98 DON'T KNOW
- 99 REFUSED

REFCVADD

Universe: CVADD>2

I understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFCVADD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening

Volunteer Cross-Streets: VSXTR

Universe: RESI=1 and VOLUN=1 and CVADD=2

Can you tell me the nearest cross streets of this volunteer location?

ENTER RESPONSE: _____

Volunteer Address: VADDR

Universe: RESI=1 and VOLUN=1 and CVADD=1

(IF NEEDED) What is the address of [his/her/your] volunteer job? PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

- (VADDR) Address: _____
- (VSUIT) Suit: _____
- (VCITY) City: _____
- (VPROV) Province: _____
- (VPC) Postal Code: _____

Parking Offered at Volunteer Location: VPRK

Universe: RESI=1 and VOLUN=1

Does [his/her/your] volunteer location offer parking regardless of whether or not [he/she/you] use it?

IF YES, is it free or paid parking?

- 1 YES- Free
- 2 YES - Paid
- 3 NO
- 8 DON'T KNOW
- 9 REFUSED

Type of Parking: VPKTYP

Universe: RESI=1 and VOLUN=1 and VPRK<3

What type of parking is offered by [his/her/your] volunteer location?

- 1 On destination property (driveway or surface lot)
- 2 On destination property (garage or parkade)
- 3 On street by destination property
- 4 Different location – surface lot (address)
- 5 Different location – parkade (address)
- 6 Different location – on street (address)
- 7 Did not park (pick up or drop off)
- 97 OTHER, SPECIFY

- 98 DON'T KNOW
- 99 REFUSED

Cost of Parking: VPKCOS

Universe: RESI=1 and VOLUN=1 and VPRK =2 and VPKTYP=4,5,6, or 97

How much do [he/she/you] pay for parking?

- 7 OTHER, SPECIFY [OPEN ENDED]
- 8 DON'T KNOW
- 9 REFUSED

Parking Location Specified: VPLOC

Universe: RESI=1 and VOLUN=1 and VPKTYP=4, 5, or 6

Please specify [his/her/your] volunteer parking location.

- 7 OTHER, SPECIFY [OPEN ENDED]
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

[IF VPLOC= 8 or 9] I understand your hesitancy to provide this information. However, every question in this survey is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence.

IF RESPONDENT STILL REFUSES: Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

4: SCHOOL INFORMATION – ALL MEMBER OF HH

Universe: ALL

Education attained: EDUCA

Universe: RESI<>2

What level of education [has/have] [he/she/you] completed?

- 1 PRE-SCHOOLER
- 2 KINDERGARTEN – GRADE 6
- 3 GRADES 7 to 9
- 4 GRADES 10 to 12
- 5 UNIVERSITY - UNDERGRADUATE
- 6 UNIVERSITY - GRADUATE
- 7 COLLEGE (example would be Bow Valley College)
- 8 TECHNICAL OR TRADES SCHOOL (example would be SAIT or Apprenticeship)
- 97 OTHER, SPECIFY
- 99 REFUSED

Student: STUDE

Universe: RESI<>2

[Is/are] [he/she/you] currently enrolled in any type of school, including daycare, technical school, or university? [IF AGE 18+, FOLLOW UP WITH: IS THAT FULL-TIME OR PART-TIME?]

- 1 YES – FULL TIME
- 2 YES – PART TIME
- 3 NO
- 9 REFUSED

REFSTUD

Universe: STUDE=9

I understand your hesitancy to provide student status. However student status is critical for transportation planning and forecasting future transportation needs. You can be assured that this

information will be held in the strictest of confidence. If you'd like to provide this information, I can collect it now. If you do not feel comfortable providing this information, I will need to end the interview.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFSTUD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Level of School: SCHOL

Universe: RESI<>2 and STUDE<3

What type of school [is/are] [he/she/you] enrolled in?

- 1 PRE-SCHOOLER/DAYCARE
- 2 KINDERGARTEN TO GRADE 6
- 3 GRADE 7 TO 9
- 4 GRADE 10 TO 12
- 5 UNIVERSITY – UNDERGRADUATE
- 6 UNIVERSITY – GRADUATE
- 7 COLLEGE (example would be Bow Valley College)
- 8 TECHNICAL OR TRADE SCHOOL (example would be SAIT or apprenticeship)
- 97 Other, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

REFSCHOL

Universe: SCHOL>97

I understand your hesitancy to provide level of education. However level of education is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some categories to you, and you just stop me when I get to the appropriate category. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFSTUD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Education Range: ALTSCHOL

Universe: REFSCHOL=2

Please select the education range that best reflects the level of school [you/FNAME] have attained.

- 1 Pre-School to grade 8
- 2 Grade 9 to 12
- 3 Technical/vocational school, college/university (2 or 4-year)
- 4 Graduate school/professional
- 97 Other, please specify

Hrs. Spent at School per Week: SHOURS

Universe: RESI=1 and STUDE<3

How many hours [does/do] [he/she/you] spend at school per week? ROUND UP TO NEAREST WHOLE NUMBER

ENTER NUMBER: [RANGE 1-150]

REFSHOURS

Universe: SHOURS=999

I understand your hesitancy to provide time spent at school. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some ranges to you, and you just stop me when I get to the appropriate ranges. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFSSCHOOL=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Range of Hrs. Spent at school per Week - Full-Time Student: FTSHRS

Universe: REFSHOURS=2 and STUDE=1

Please select the range that best reflects the number of hours [he/she/you] spends at school per week.

- 1 Less than 10 hours per week
- 2 10 – less than 20 hours per week
- 3 20 – less than 30 hours per week
- 4 30 – less than 40 hours per week
- 5 More than 40 hours per week

Range of Hrs. Spent at school per Week - Part-Time Student: PTSHRS

Universe: REFSHOURS=2 and STUDE=2

Please select the range that best reflects the number of hours [he/she/you] spends at school per week:

- 1 Less than 10 hours per week
- 2 10 or more hours per week

School Name: SNAME

Universe: RESI<>2 andSTUDE<3

What is the name of [his/her/your] school ?

ENTER RESPONSE: _____

CSADD

Universe: RESI<>2 and STUDE<3

What is the address of the school?

- 1 COMPLETE STREET ADDRESS KNOWN
- 2 CROSS STREETS KNOWN
- 8 DON'T KNOW
- 9 REFUSED

REFCSADD

Universe: CSADD>2

I understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFCSADD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening

School Cross Streets: SXSTR

Universe: RESI<>2 and CSADD=2

Can you tell me the nearest cross streets of [his/her/your] school?

ENTER RESPONSE: _____

School Address: SADDR

Universe: RESI<>2 and CSADD=1

(IF NEEDED) What is the address of [his/her/your] school? PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENTER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

(SADDR) ADDRESS: _____

(SSUIT) SUIT: _____

(SCITY) CITY: _____

(SPROVINCE) PROVINCE: _____

(SPC) POSTAL CODE: _____

Transit Pass: TPASS

Universe: RESI<>2

[Do/Does] [you/he/she] have a transit pass?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSED

[IF TPASS=8 or 9] I understand your hesitancy to provide this information. However, every question in this survey is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence.

IF RESPONDENT STILL REFUSES: Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Transit Pass Type: TPTYP

Universe: RESI<>2 and TPASS=1

What type of pass [do/does] [you/he/she] have?

- 1 ADULT MONTHLY PASS
- 2 YOUTH MONTHLY PASS
- 3 U-PASS (FEES PAID THROUGH POST SECONDARY INSTITUTION)
- 4 SENIOR PASS (YEARLY)

- 5 TRANSIT EMPLOYEE PASS
- 6 ADULT DAY PASS
- 7 YOUTH DAY PASS
- 8 ACCESS CALGARY ATTENDANCE CARD
- 9 UNIFORMED, POSTAL WORKERS, POLICE, FIRE FIGHTER, EMS
- 10 LOW INCOME MONTHLY PASS
- 11 SOUTHLAND COMMUTER PASS (COCHRANE & OKOTOKS)
- 12 AIRDRIE / CROSSFIELD COMMUTER PASS
- 13 STRATHMORE / CHESTERMERE COMMUTER PASS
- 97 OTHER, SPECIFY
- 99 REFUSED

REFTPTYP

Universe: TPTYP=99

I understand your hesitancy to provide transit pass information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing this level of detail, but are comfortable providing some information, I can present some categories to you, and you just stop me when I get to the appropriate category. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 2 RESPONDENT AGREES TO PROVIDE SOME INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFTPTYP=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Type of Pass - Alternate Choices: ALTPPTYP

Universe: REFTPTYP=2

Please tell me the type of pass [you/he/she] [have/has].

- 1 DAY PASS
- 2 MONTHLY PASS
- 3 COMMUTER PASS
- 4 U-PASS (fees paid through post-secondary institution)
- 7 OTHER, SPECIFY

Cost of Transit Pass: TRANC

Universe: RESI<>2 and TPASS=1

How much [did] [you/he/she] pay for the pass?

- 97 RECORD RESPONSE
- 98 DON'T KNOW
- 99 REFUSED

[IF TRANC=9 8 or 99] I understand your hesitancy to provide this information. However, every question in this survey is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence.

IF RESPONDENT STILL REFUSES: Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Discount/Subsidized Transit Pass: DISPAS

Universe: RESI<>2 and TPASS<>1

Whether or not [you/he/she] [use/uses] it, is a discounted or subsidized transit pass available to you?

- 1 YES
- 2 NO
- 9 REFUSED

REFDISPAS

Universe: DISPAS=9

I understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. Even if you don't use a transit pass, we would like to know whether or not your employer would offer you a discount on transit fares or whether you are eligible for a discount from some other agency, like Access Calgary. If you'd like to provide this information, I can collect it now. If you do not feel comfortable providing this information, I will need to end the interview.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 9 RESPONDENT REFUSES

INTXX

Universe: REFDISPAS=9

This information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Kind of Discounted Transit Pass: DISTP

Universe: RESI<>2 and TPASS=1

[Do/Does] [you/he/she] participate in a discounted or subsidized pass program? [IF YES] What kind of discounted pass is it?

- 0 [D/DOES] NOT PARTICIPATE IN TRANSIT PASS PROGRAM → GO TO INCA
- 1 NO TRANSIT PASS USED
- 2 ADULT MONTHLY PASS
- 3 YOUTH MONTHLY PASS
- 4 U-PASS (FEES PAID THROUGH POST SECONDARY INSTITUTION)
- 5 SENIOR PASS (YEARLY)
- 6 TRANSIT EMPLOYEE PASS
- 7 ADULT DAY PASS
- 8 YOUTH DAY PASS
- 9 ACCESS CALGARY ATTENDANCE CARD
- 10 UNIFORMED, POSTAL WORKERS, POLICE, FIRE FIGHTER, EMS
- 11 LOW INCOME MONTHLY PASS
- 12 SOUTHLAND COMMUTER PASS (COCHRANE & OKOTOKS)
- 13 AIRDRIE / CROSSFIELD COMMUTER PASS
- 14 STRATHMORE / CHESTERMERE COMMUTER PASS
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

Cost of Discounted Transit Pass: DISTC

Universe: RESI<>2 and DISTP<>00, 98, or 99]

How much [would it/does it cost] [you/him/her]?

- 97 RECORD RESPONSE
- 98 DON'T KNOW
- 99 REFUSED

5: FINALIZING RECRUITMENT

Universe: ALL

Household Income: INCOM

Universe: ALL

INCA To ensure our study is representative of all income groups in the region, could you tell me if your household's total income for last year was above or below \$50,000?
[INTERVIEWER NOTE: HOUSEHOLD INCOME NOT ONLY ALLOWS US TO VERIFY THAT WE ARE INCLUDING ALL TYPES OF HOUSEHOLDS FROM THE REGION, BUT IT ALSO HAS BEEN FOUND TO BE RELATED TO THE TYPES OF TRIPS HOUSEHOLDS TYPICALLY MAKE.]

- 11 BELOW \$50,000
- 22 AT OR ABOVE \$50,000
- 99 DON'T KNOW/REFUSED

INCB [INCA=11] Is it...
[INTERVIEWER NOTE: HOUSEHOLD INCOME NOT ONLY ALLOWS US TO VERIFY THAT WE ARE INCLUDING ALL TYPES OF HOUSEHOLDS FROM THE REGION, BUT IT ALSO HAS BEEN FOUND TO BE RELATED TO THE TYPES OF TRIPS HOUSEHOLDS TYPICALLY MAKE.]

- 1 Less Than \$15,000
- 2 \$15,000-\$29,999
- 3 \$30,000-\$49,999
- 99 DON'T KNOW/REFUSED

INCC [INCA=22] Is it above or below \$100,000?
[INTERVIEWER NOTE: HOUSEHOLD INCOME NOT ONLY ALLOWS US TO VERIFY THAT WE ARE INCLUDING ALL TYPES OF HOUSEHOLDS FROM THE REGION, BUT IT ALSO HAS BEEN FOUND TO BE RELATED TO THE TYPES OF TRIPS HOUSEHOLDS TYPICALLY MAKE.]

- 44 BELOW \$100,000
- 55 AT OR ABOVE \$100,000
- 99 DON'T KNOW/REFUSED

INCD [INCD=44] Was it...
[INTERVIEWER NOTE: HOUSEHOLD INCOME NOT ONLY ALLOWS US TO VERIFY THAT WE ARE INCLUDING ALL TYPES OF HOUSEHOLDS FROM THE REGION, BUT IT ALSO HAS BEEN FOUND TO BE RELATED TO THE TYPES OF TRIPS HOUSEHOLDS TYPICALLY MAKE.]

- 4 \$50,000 to \$74,999
- 5 \$75,000 to \$99,999
- 99 DON'T KNOW/REFUSED

INCE [INCD=55] Was it...
[INTERVIEWER NOTE: HOUSEHOLD INCOME NOT ONLY ALLOWS US TO VERIFY THAT WE ARE INCLUDING ALL TYPES OF HOUSEHOLDS FROM THE REGION, BUT IT ALSO HAS BEEN FOUND TO BE RELATED TO THE TYPES OF TRIPS HOUSEHOLDS TYPICALLY MAKE.]

- 8 \$100,000 to \$149,999
- 9 \$150,000 to \$199,999
- 10 \$200,000 or more
- 99 DON'T KNOW/REFUSED

INCRF [INCOM=99] I appreciate your concerns about providing this information, but I only need to properly identify your household as belonging to one of the following categories: [READ APPROPRIATE RANGES]

- 1 Less than \$15,000
- 2 \$15,000-\$29,999
- 3 \$30,000-\$49,999
- 4 \$50,000-\$74,999
- 5 \$75,000-\$99,999
- 6 \$100,000-\$149,999
- 7 \$150,000-\$199,999
- 8 \$200,000 or more
- 99 DON'T KNOW/REFUSED

- INCOM** COMPUTED INCOME
- 1 Less than \$15,000
 - 2 \$15,000-\$29,999
 - 3 \$30,000-\$49,999
 - 4 \$50,000-\$74,999
 - 5 \$75,000-\$99,999
 - 6 \$100,000-\$149,999
 - 7 \$150,000-\$199,999
 - 8 \$200,000 or more
 - 99 DON'T KNOW/REFUSED

Assignment number: ASSN

Universe: All

WILL BE CALCULATED NOW, WON'T COME UP IN PROGRAM.

CASSN

Universe: All

Thank you for agreeing to participate in this study. Understanding your household's travel and activities is very important for improving transportation in your area. We will send a diary for everyone in your household to keep track of travel and activities on <DAY AND DATE>. Even if you think your household's travel on this day is not normal (more than usual travel, less than usual, or not at all), it is OK. We still want to know how and where your household traveled on <DAY AND DATE>.

- 1 CONTINUE

INCT1

Universe: INCEN HOUSEHOLD

We are offering \$<INAMT> in appreciation of your efforts, but only if EVERYONE in your household completes a travel diary and reports travel information by <ASN10>. Once all travel information is complete and confirmed for EVERYONE in your household, we will mail you a check.

The number of diaries to be sent: DIARY

Universe: All

CALCULATED VAR: IF VISTR=00 OR 99, DIARY=HHSIZ; IF VISTR>0 and NE 99, DIARY=HHSIZ+VISTR.

HHNME

Universe: All

To whom should we address the envelope?

PROGRAMMING NOTE: IMPORT FNAMEAND (WE DON'T COLLECT LNAME)COLLECTED EARLIER AND CONFIRM LISTED NAME. IF NULL OR INCORRECT COLLECT NEW.

RESPF/ RESPL

Universe: All

FIRST NAME: _____

LAST NAME: _____

9 REFUSED

INTERVIEWER NOTE: CONFIRM SPELLING AND READ BACK

Mailing Address: MADDR

Universe: All

In order to mail the survey materials to you, I need to confirm your mailing address.

Is your home address the best place for us to have these items delivered to you?

NOTE:PO BOXES ARE NOT VALID DELIVERY ADDRESSES -- WE NEED A PHYSICAL ADDRESS.

Is this also your mailing address?

Retrieval MODE Preference: CATSI

Universe: All

After your travel day, we will ask you to report details about the places you visited. Would you prefer to mail your information back, report them via website, or would you like one of our interviewers to call you to complete the survey?

- 1 MAIL
- 2 WEB INTERVIEW
- 3 PHONE INTERVIEW

REMNI

Universe: All

Please note that we will contact you to remind you about your travel date on <ASSN> and to provide you with additional instructions during your participation. Would you like to be reminded by phone, text message, or email? [INTERVIEWER NOTE: IF RESPONDENT REFUSES, SELECT 1=PHONE]

- 1 PHONE
- 2 TEXT
- 3 EMAIL

RMPHN

Universe: REMN1=1

Can we confirm this telephone number as the number to call?

- 1 CORRECT
- 2 NOT CORRECT

RMTXT

Universe: REMN1=2

Can we confirm the best telephone number for us to send a reminder text?

- 1 ENTER CELL NUMBER: ____ - ____ - ____

RMEML

Universe: REMN1=3

Can you tell me the email address where you would like to receive a reminder email?

- 1 ENTER EMAIL ADDRESS: _____

Primary Language Spoken at Home: LANG

Universe: All

Lastly, what language is primarily spoken in your household?

- 1 English
- 2 Cantonese / Chinese
- 3 French
- 4 Punjabi
- 5 Spanish
- 6 Vietnamese
- 7 Other
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

CONCLUSION

THANK

Universe: All

Thank you for participating in the Calgary and Region Travel and Activity Survey. Please tell the other members of your household how important their participation is for the success of the study. We look forward to talking with you again. If you have any questions or comments, I have a toll free number where you can reach us. Would you like that number? IF THEY WANT THE NUMBER: 877-261-4621. Thank you and have a good afternoon/evening.

Appendix B: Recruitment Web Survey

Introduction / Screening

Universe: All

INT01

Universe: All

Thank you for agreeing to participate in this survey. This is a very important study about people's travel and activity patterns. This survey has two phases. The phase you are about to complete asks for information about your household and the people in it. You will then be assigned a day to report your household's travel and activities. That travel and activity information will be collected in the second phase of the survey after your travel day.

By providing this information you help us to better understand the "why" of travel and activities. Every detail we get adds to our understanding and improves our ability to plan future transportation improvements.

All information you provide is kept strictly confidential and highly secured. Your information will be used ONLY for transportation planning purposes.

Please press 'NEXT' to begin the survey.

Advance Letter: ADVLT

Universe: All

We recently sent a brochure to your home to tell you about this important project. The City of Calgary, Alberta Transportation and the Calgary Regional Partnership are sponsoring the survey and are responsible for planning and improving transportation in the region. Did you receive the brochure?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

PRVIEW

Universe: ADVLTY<>1

We are conducting a very important study about people's travel patterns and transportation needs. Planning agencies in your region will use data collected to make decisions about how to improve the region's transportation system. As a participating household, everyone who lives in your home or is visiting on your household's travel day will record their travel for 24-hours in a special diary. All data is strictly confidential, is protected, and will only be used to help plan better transportation facilities and services in the Calgary Region.

Please press 'Next' to continue.

Spring Break: SPRINGBK

Universe: All

Before we provide your household a travel day, we would like to know if any member of your household will be on Spring Break any of the following weeks:

- 1 No household member will be on Spring Break
- 2 March 26 – 30, 2012 (ASSN 12586 – 12590)

- 3 April 2 – 6, 2012 (ASSN 12593 – 12597)
- 4 April 9 – 13, 2012 (ASSN 12600 – 12604)
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

SPRINGBK	NON VALID ASSNS
1	ALL ASSNS VALID
2	12584 - 12592
3	12591 - 12599
4	12598 - 12606
8	ALL ASSNS VALID
9	ALL ASSNS VALID

HH_ADR

Universe: All

(S2) Please verify your address is still [ADDRESS].

- 1 YES, THIS IS MY ADDRESS
- 2 NO, THIS IS NOT MY ADDRESS [COLLECT CURRENT PHYSICAL ADDRESS]

Home Address: HADDR

Universe: All

What is your physical address? P.O. Boxes are not allowed.
 Please enter postal code with no spaces in the following format: #####.
 If only 3-digit code known, please enter that.

(HADDR) Address: _____
 (HSUIT) Suit: _____
 (HCITY) City: _____
 (HPROV) Province: _____
 (HPC) Postal Code: _____

HHINTRO

Universe: All

The questions asked in the next section relate to your household as a unit. The responses you provide to these questions will allow us to better understand the “why” of household travel and activities. The number, timing and type of trips made by a person are affected by the characteristics of the household they live in. Because of this, the answers you provide are critical information for us to measure how different sectors of the population are served by, and use, the transportation system.

We will be sending a diary for everyone who lives in your home or will be visiting your household on <DAY AND DATE> to keep track of travel and activities.

Please press 'NEXT' to continue.

Household Size: HHSIZ

Universe: All

A household consists of the entire group of persons who live in one dwelling unit and share a kitchen. HH members may be a single family, two or more families living together, or any other group of related or unrelated persons who share living arrangements.

How many people, including yourself, live in your home?

Record number of persons
99 Prefer not to answer

REFHHSIZ

Universe: HHSIZ=99

We understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 9 I don't want to provide this information

People Visiting, from Out of Town, on Travel Day: HHVIS

Universe: All

How many visitors will be at your home on <ASSN>?

- Record number of persons
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

REFHHVIS

Universe: HHVIS=98 or 99

We understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 9 I don't want to provide this information

Residence Type: RESTY

Universe: All

Do you live in a...

- 1 Single-family detached house
- 2 Duplex / Triplex / Fourplex
- 3 Row House
- 4 Apartment Building that has 5 or more stories
- 5 Apartment building that has fewer than 5 stories
- 6 Mobile home / Manufactured Home / RV / House Boat
- 7 Rooming House / Collective Residence / Dormitory
- 97 Other, SPECIFY
- 99 PREFER NOT TO ANSWER

Home Ownership Status: OWN

Universe: All

Do you own or rent your home?

- 1 Rent
- 2 Own/Buying (Paying off Mortgage)
- 7 Other, SPECIFY
- 9 PREFER NOT TO ANSWER

Approximate Size of Home: SQRFT

Universe: All

Studies have shown that the size of a household relates to the number of trips a household makes. Members of households in larger homes often make more trips than members of households in smaller homes. What is the approximate size of your home?

- 1 0-1,000 square feet [0-93 square meters]
- 2 1,000-1,500 square feet [93-139 square meters]
- 3 1,500-2,000 square feet [130-186 square meters]
- 4 2,000-3,000 square feet [186-279 square meters]
- 5 3,000 square feet or more [279 square meters or more]
- 9 PREFER NOT TO ANSWER

Number of Rooms: RMS

Universe: All

How many bedrooms are there in your home?

ENTER NUMBER

99 PREFER NOT TO ANSWER

VEHINTRO

Universe: All

The questions asked in the next section relate to the vehicles in your household. Vehicle information is another critical part of household information. Characteristics like the number of available vehicles in your household are typically related to travel behavior and activity choice, and as such are also valuable pieces of information.

Household Vehicle: HHVEH

Including all cars, trucks, vans, motorcycles and recreational vehicles, whether owned or leased or provided by an employer, how many vehicles are in working condition and presently available to the members of your household?

ENTER NUMBER [RANGE 0-15]

99 PREFER NOT TO ANSWER → THANK AND TERMINATE

VEHICLE INFORMATION

Ok, now I'd like to get some information about your vehicle(s).

Vehicle Year: YEAR

Universe: HHVEH>0

What is the year of <VEHNO>?

[RANGE=1920-2012]

9998 DON'T KNOW

9999 PREFER NOT TO ANSWER

Vehicle Make: MAKE

Universe: HHVEH>0

What is the make of <VEHNO>?

- 97 Other, SPECIFY
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Vehicle Model: MODEL

Universe: HHVEH>0

What is the model of that vehicle?

ENTER MODEL

- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Fuel Type: FUEL

Universe: HHVEH>0

What type of fuel does <VEHNO> use?

- 1 Gas
- 2 Diesel
- 3 Hybrid
- 4 Flex Fuel
- 7 Other, SPECIFY
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Vehicle Owned, leased, employer provided: VOWN

Universe: HHVEH>0

Is <VEHNO> owned, leased, employer provided, or something else?

- 1 OWNED OR LEASED
- 2 RENTAL CAR
- 3 EMPLOYER PROVIDED – OPEN USE
- 4 EMPLOYER PROVIDED – USE RESTRICTIONS
- 5 BORROWED FROM FRIEND OR RELATIVE
- 6 LOANER VEHICLE FROM REPAIR SHOP
- 7 FORMAL CAR SHARING PROGRAM
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

VEHICLE ROSTER TO BE REPEATED FOR EACH VEHICLE, UP TO EIGHT VEHICLES

2: PERSON INFORMATION – ALL MEMBERS OF HH
Universe: ALL

First Name: FNAME

Universe: All

Next we will ask you some questions about each person in your household so that we can prepare individual travel diaries. Again, we want to assure you that this information is for research purposes only and will be kept strictly confidential. Earlier, you indicated there were <HHSIZ> persons in your household. We will collect data for each of them, but will begin with you. What is your first name?

ENTER NAME

Gender: GEND

Universe: All

And what is [FNAME]'s gender

- 1 MALE
- 2 FEMALE

9 PREFER NOT TO ANSWER

Calgary Region Resident: RESI

Universe: All

[Are/Is] [you/he/she] a household member, or will [you/he/she] be visiting the household on <ASSN>?

- 1 Resident
- 2 Out of town visitor
- 99 Prefer not to Answer

Visitor City: HTOWN

Universe: RESI=2

The following information is only used to ensure the representativeness of our survey sample. What is <PRN14> city and province, state, or country of residence?

(HTCITY)City: _____

(HPROV)Province/State/Country: _____

NOTE: LEAVE BLANK IF PREFER NOT TO ANSWER

Bring Vehicle to Calgary for Visit: BVEH

Universe: RESI=2

Did you bring a vehicle with you on your visit to Calgary?

- 1 Yes
- 2 No
- 9 PREFER NOT TO ANSWER

Mode of Transportation to get to Calgary: TRANSPORT

Universe: RESI=2

What mode of transportation did you use for your visit to Calgary?

- 1 Walk
- 2 Bicycle
- 3 Other non-motorized
- 4 Vehicle driver
- 5 Vehicle passenger
- 6 Light Rail
- 7 Bus Rapid Transit (BRT or express route)
- 8 Regular bus
- 9 Access Calgary (Handi Bus and Special Needs Bus)
- 10 Intercity bus (e.g., Southland Okotoks Commuter Bus)
- 11 School bus (Calgary transit)
- 12 Taxi
- 13 School bus (not Calgary transit)
- 14 Air travel
- 15 Other motorized
- 99 PREFER NOT TO ANSWER

Number of Nights spent in Calgary: NIGHTS

Universe: RESI=2

How many nights did you spend on Calgary?

ENTER NUMBER OF NIGHTS:

- 99 PREFER NOT TO ANSWER

Age: AGE

Universe: All

What is [his/her/your] age in years?

ENTER AGE [RANGE: 1-98]

- 99 99 years or older

REFAGE**Universe: AGE=999**

We understand your hesitancy to provide age. However age is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing this level of detail, please choose the "I agree to provide some information" choice below, and you will be asked to provide this information, but at a broader level of detail (age ranges). If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INT07**Universe: REFAGE=9**

Thanks, but without this information, you will not be able to continue the survey.

Please press 'Next' to exit or 'Back' to answer the question

Age Ranges In Years: ALTAGE**Universe: REFAGE=2**

Please select the age range that best represents [you/FNAME]:

- 1 0-15
- 2 16-24
- 3 25-34
- 4 35-44
- 5 45-54
- 6 55-64
- 7 65-74
- 8 75 and older

Licensed Driver: LIC**Universe: RESI<>2 and AGE>15 or ALTAGE>1**

[Does/Do] [he/she/you] have a valid driver's license?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Illness or Disability that affects ability to travel: DISAB**Universe: RESI<>2**

[Does/Do] [he/she/you] have an illness or disability that affects [your/their] ability to travel?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

3: WORK INFORMATION – ALL MEMBERS OF HH**Universe: Age 16+; if under skip to SCHOOL INFORMATION****Employed: EMPLOY**

Universe: RESI<>2 and IF AGE>15 or ALTAGE>1

[Is/Are] [he/she/you] employed either full-time or part-time?

- 1 Yes
- 2 No
- 8 Don't Know
- 9 PREFER NOT TO ANSWER

INT10

Universe: EMPLY=9

We understand your hesitancy to provide information regarding full or part time status. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 9 I don't want to provide this information

Volunteer: VOLUN

Universe: RESI<>2

[Does/Do] [he/she/you] do any type of volunteer work on a regular basis?

- 1 Yes
- 2 No
- 9 PREFER NOT TO ANSWER

INT12

Universe: VOLUN=9

We understand your hesitancy to provide information regarding your volunteer status. However volunteer status is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 9 I don't want to provide this information

Works: WORKS

Universe: RESI<>2 and (AGE>15 and AGE<999 or ALTAGE>1

[CALCULATED]

- 1 [IF EMPLY=1] TREAT AS WORKER
- 2 [IF EMPLY>1 AND VOLUN=1] TREAT AS VOLUNTEER
- 3 [IF EMPLY>1 AND VOLUN>1] TREAT AS NON WORKER / NON VOLUNTEER
- 4 [IF EMPLY=1 AND VOLUN=1]TREAT AS BOTH WORKER AND VOLUNTEER

Status: WKSTAT

Universe: RESI<>2 and WORKS=3

Which of the following best describes [his/her/your] status?

- 1 Retired
- 2 Homemaker
- 3 Unemployed
- 4 Student (Part-time or full-time)
- 7 Other, SPECIFY
- 8 Don't Know
- 9 PREFER NOT TO ANSWER

REFWKSTAT**Universe: WKSTAT=9**

We understand your hesitancy to provide work status. However work status is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please click the "I agree to provide this information" button below. If you do not feel comfortable providing this level of detail, please click the "I agree to provide some information" button below, and you will be asked to provide this information, but at a broader level of detail. If you do not feel comfortable providing any information, then please click the "I don't want to provide this information" and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INT15**Universe: REFWKSTAT=9**

Please press 'Next' to exit the survey.

Broad Work Status Ranges: ALTWKSTAT**Universe: REFWKSTAT=2**

Please select the category that best represents [his/her/your] status:

- 1 Retired / Homemaker / Unemployed
- 2 Student

Self-Employed: SELF**Universe: RESI <>2 and EMPLOY=1**

[Are/Is] [he/she/you] self-employed?

- 1 YES
- 2 NO
- 8 Don't Know
- 9 PREFER NOT TO ANSWER

Number of jobs: JOBS**Universe: RESI <>2 and EMPLOY=1**

How many jobs [does/do] [he/she/you] have?

ENTER NUMBER:
[RANGE 1-10]

Number of HRs Worked Last Week at primary Job: LSTWK**Universe: RESI <>2 and EMPLOY=1**

How many hours did [he/she/you] work last week at [his/her/your] [primary/secondary] job?

ROUND UP TO NEAREST WHOLE NUMBER

ENTER NUMBER: [RANGE 1-150]
998 Don't Know
999 PREFER NOT TO ANSWER

REFLSTWK**Universe: LSTWK=999**

We understand your hesitancy to provide the number of hours you worked last week. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing this level of detail, please choose the "I agree to

provide some information” choice below, and you will be asked to provide this information, but at a broader level of detail (hourly ranges). If you do not feel comfortable providing any information, then please choose the “I don’t want to provide this information” choice and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don’t want to provide this information

INT13

Universe: REFVLSTWK=9

Please press 'Next' to exit the survey.

Range of Number of Hours worked last week: ALTLSTWK

Universe: REFLSTWK=2

Please select the range that represents the number of hours [he/she/you] worked last week at [his/her/your] [primary/secondary] job:

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

Was Last Week a Typical Work Week: TPCL

Universe: RESI <>2 and EMPLOY=1

With respect to hours worked for <PRN15> [primary/secondary] job, was this a typical work week?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Hours Worked Per Week: WHOORS

Universe: TPCL<>1

How many hours <PRN30> <PRN14> typically work at <PRN15> [primary/secondary] job?

- ENTER NUMBER: [RANGE 1-150]
- 999 PREFER NOT TO ANSWER

REFWHOURS

Universe: WHOORS=999

We understand your hesitancy to provide the number of hours you typically worked per week. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the “I agree to provide this information” choice below. If you do not feel comfortable providing this level of detail, please choose the “I agree to provide some information” choice below, and you will be asked to provide this information, but at a broader level of detail (hourly ranges). If you do not feel comfortable providing any information, then please choose the “I don’t want to provide this information” choice and the survey will come to an end.”

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don’t want to provide this information

INT14

Universe: REFWHOURS=9

Please press 'Next' to exit.

Range of Number of Hours typically worked per week: ALTHOURS

Universe: REFVHOURS=2

Please select the range that represents the number of hours [he/she/you] typically work:

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

Know Annual, Pre-Tax, Salary: PREWAGE

Universe: RESI <=2 and EMPLOY=1

Now we'd like to ask you a question about the wage <PRN14> <PRN40> <PRN15> [primary/secondary] job. I appreciate that this is sensitive information and you can be assured that this information will be held in the strictest of confidence. This information is important because it helps transportation planners measure labor productivity which has an impact on how and where people travel.

Do you know your annual, pretax, salary?

- 1 YES
- 2 NO

Approximate Annual Wage: WAGE

Universe: PREWAGE=2

How often do you get paid? Is it

- 1 WEEKLY (Once per week)
- 2 BI-WEEKLY (Every other week)
- 3 MONTHLY (Once per month)

Wage Paid Weekly: WEEKLY

Universe: WAGE=1

Please select the following range that most accurately identifies the amount you are paid weekly.

- 1 0 – 400
- 2 400 – 800
- 3 800 – 1,600
- 4 1,600 or more

Wage Paid Bi-Weekly: BIWEEKLY

Universe: WAGE=2

Please select the following range that most accurately identifies the amount you are paid bi-weekly.

- 1 0 – 800
- 2 800 – 1,600
- 3 1,600 – 3,200
- 4 3,200 or more

Wage Paid Monthly: MONTHLY

Universe: WAGE=3

Please select the following range that most accurately identifies the amount you are paid monthly.

- 1 0 – 1,600
- 2 1,600 – 3,200
- 3 3,200 – 6,400
- 4 6,400 or more

Wage Paid Annually: ANNUALLY

Universe: PREWAGE=1

Please select the following range that most accurately identifies the amount you are paid annually.

- 1 0 – 20,000

- 2 20,000 – 40,000
- 3 40,000 – 80,000
- 4 80,000 or more

Primary Work Location: WLOC

Universe: RESI <>2 and EMPLOY=1

And is [his/her/your] work location for [his/her/your] [primary/secondary] job fixed, is it [his/her/your] home, or does it vary from day to day or week to week?

- 1 WORK FIXED LOCATION OUTSIDE OF HOME
- 2 TELECOMMUTER
- 3 WORK AT HOME
- 4 NO PLACE OF WORK (TAXI DRIVER OR SALESMAN)
- 5 PLACE OF WORK MAY CHANGE DAY TO DAY
- 6 PLACE OF WORK BEYOND DAILY COMMUTING DISTANCE

Vehicle Needed at Work: WVEH

Universe: RESI <>2 and EMPLOY=1

[Do/Does] [you, NAME] need [your/their] vehicle at work to perform [your/their] [primary/secondary] job?

- 1 YES
- 2 NO
- 9 PREFER NOT TO ANSWER

REFWVEH

Universe: WVEH=9

We understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing this level of detail, please choose the "I agree to provide some information" choice below, and you will be asked to provide this information, but at a broader level of detail. If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INT16

Universe: REFWVEH=9

Please press 'Next' to exit the survey.

How often vehicle needed at work: ALTWVEH

Universe: WVEH<>2

How often [do/does] [you/NAME] need [your/their] vehicle at work to perform [your/their] job?

- 1 ALWAYS
- 2 SOMETIMES
- 3 NEVER

Work name: WNAME

Universe: RESI<>2 and EMPLOY=1 and WLOC<>3 or WLOC1<>3

What is the name of [his/her/your] [primary/secondary] job location?

ENTER RESPONSE: _____

CWADD

Universe: RESI=1 and EMPLY=1 and WLOC<>3, 4, 5

What is the address of [his/her/your] [primary/secondary] job?

- 1 COMPLETE STREET ADDRESS KNOWN → GO TO WADDR
- 2 CROSS STREETS KNOWN BUT NOT FULL ADDRESS → WSXTR
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

REFCWADD

Universe: CWADD>2

We understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INTXX

Universe: REFCWADD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening

Work Cross-Streets: WSXTR

Universe: RESI=1 and EMPLY=1 and CWADD=2

Can you tell us the nearest cross streets of this work location?

ENTER RESPONSE: _____

Work Address: WADDR

Universe: RESI=1 and EMPLY=1 and CWADD=1

(IF NEEDED) What is the address of [his/her/your] [primary/secondary] job?
PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

(WADDR) ADDRESS: _____
 (WSUIT) SUIT: _____
 (WCITY) CITY: _____
 (WPROV) PROVINCE: _____
 (WPC) POSTAL CODE: _____

Occupation Description: OCCUP

Universe: RESI =1 and EMPLY=1

How would you describe [his/her/your] occupation?

0	Management	Legislators, Government Officials, Mangers & Directors
1	Business, Finance and Administration	Accountants, Consultants, Administrators, Clerical Workers, Office Equipment Operators
2	Natural and Applied Science	Physical & Life Science Professionals, Engineers, Architects, Urban Planners, Surveyors, Mathematicians, Physical and Life Science Technicians, Computer Technicians
3	Health Services	Physicians, Dentists, Veterinarians,

		Optometrists, Chiropractors, Pharmacists, Dieticians, Therapy and Assessment Professionals, Registered Nurses, Health Technicians and Assistants
4	Social & Government Services & Teaching	Judges, Lawyers, Notaries, Professors, Instructors, Vocational Instructors, Teachers, Counsellors, Psychologists, Social Workers, Clergy, Probation Officers.
5	Performing & Facilitating Art, Culture, Recreation and Sports	Librarians, Creative Artists, Performing Artists & Technicians, Athletes, Coaches
6	Sales and Service Provision	Sales & Service Provision Insurance Agents, Real Estate Agents, Chefs, Cooks, Butchers, Bakers, Police Officers, Firefighters, Hairstylists, Retail Sales, Tourism, Food and Beverage, Cashiers, Clerks & Attendants
7	Trades, Transport & Equipment Operation	Building Contractors, Construction Tradespeople, Journeymen or Journeypersons, Airline Pilots, Flight Crew Members, Motor Vehicle Drivers, Manual Laborers.
8	Occupations Unique to Primary Industry (e.g. Oil & Gas, Logging, Mining, Agriculture)	Oil & Gas Drillers, Logging Machinery Operators, Operators & Agriculture & Horticulturalist Activities, Other Workers and Laborers
9	Occupations Unique to Processing, Manufacturing & Utilities	Processing and Manufacturing Activities, Assemblers & Laborers

97 Other, please specify

Industry Description: INDUS

Universe: RESI =1 and EMPLOY=1

What industry [do/does] [you/he/she] work in?

1	Agriculture, Forestry, Fishing and Hunting
2	Mining, Quarrying, Oil & Gas Extraction
3	Utilities (e.g. power generation, natural gas distribution, water, sewage)
4	Construction (e.g. building construction, civil engineering)
5	Manufacturing (e.g. food, textiles, wood, paper, printing, plastics, machinery and other products)
6	Wholesale Trade
7	Retail Trade
8	Transportation, Warehousing and Storage (transport of goods or people by air, rail, truck etc., postal services, & warehousing.)
9	Information & Cultural Industries (e.g. publishing, film, telecommunications, internet)
10	Finance and Insurance
11	Real Estate & Rental & Leasing
12	Professional, Scientific & Technical Services (e.g. accounting, architecture, engineering,

	design)
13	Management of Companies and Enterprise
14	Administrative & Support, Waste Management and Remediation Services
15	Educational Services
16	Health Care & Social Assistance
17	Arts, Entertainment & Recreation
18	Accommodation and Food Services
19	Other services (except Public Administration) (e.g. repair and maintenance)
20	Public Administration (e.g. Federal, Provincial and Municipal protective services, regulatory services, labor & employment services, emergency services, aboriginal administration, and international and other extra-territorial administration)
97	Other, please specify

Parking Offered at Work: EMPRK

Universe: RESI=1 and EMPLOY=1

Does [his/her/your] [primary/secondary] employer offer parking regardless of whether or not [he/she/you] use it? IF YES, PROBE IF IT IS FREE OR PAID PARKING.

- 1 YES – FREE
- 2 YES – PAID
- 3 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Type of Parking: PKTYP

Universe: RESI=1 and EMPLOY=1 and EMPRK < 3

What type of parking is offered by [his/her/your] [primary/secondary] employer?

- 1 ON DESTINATION PROPERTY (DRIVEWAY OR SURFACE LOT)
- 2 ON DESTINATION PROPERTY (GARAGE OR PARKADE)
- 3 ON STREET BY DESTINATION PROPERTY
- 4 DIFFERENT LOCATION – SURFACE LOT (ADDRESS)
- 5 DIFFERENT LOCATION – PARKADE (ADDRESS)
- 6 DIFFERENT LOCATION – ON STREET (ADDRESS)
- 7 DID NOT PARK (PICK UP OR DROP OFF)
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Cost of Parking: PKCOS

Universe: RESI=1 and EMPLOY=1 and EMPRK=2 and PKTYP=4,5,6, or 97

How much do [he/she/you] pay for parking?

- 7 RECORD RESPONSE
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Frequency of Parking Payments: PCFREQ

Universe: PKCOS=7

What is the frequency of these parking payments?

- 1 Per hour
- 2 Per day
- 3 Per week
- 4 Per month
- 5 Per year

- 7 Other, specify
- 8 Don't Know
- 9 PREFER NOT TO ANSWER

Parking Location Specified: WPLOC

Universe: RESI=1 and EMPLY=1 and PKTYP=4, 5, or 6

Please specify [his/her/your] [primary/secondary] parking location.

- 7 RECORD RESPONSE
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Number of Volunteer Jobs: VJOBS

Universe: RESI=1 and VOLUN=1

How many volunteer jobs [does/do] [he/she/you] have?

ENTER NUMBER: [RANGE 1-10] _____

- 99 PREFER NOT TO ANSWER

Number of Hrs. Volunteered Last Week: VLSTWK

Universe: RESI=1 and VOLUN=1

How many hours did [he/she/you] work last week at [his/her/your] volunteer location?

ROUND UP TO NEAREST WHOLE NUMBER.

ENTER NUMBER: [RANGE 1-150]

- 999 PREFER NOT TO ANSWER

REFVLSTW

Universe: VLSTWK=999

We understand your hesitancy to provide the number of hours you volunteered last week. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing this level of detail, please choose the "I agree to provide some information" choice below, and you will be asked to provide this information, but at a broader level of detail (hourly ranges). If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INT20

Universe: REFLVSTWK=9

Please press 'Next' to exit.

Range of Hrs. Volunteered Last Week: ALTVLSTWK

Universe: REFLVSTW=2

Please choose the range that represents the number of hours [he/she/you] worked last week at [his/her/your] volunteer location:

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

With Respect to Hrs., is this typical Hrs. Volunteering: VTPCL

Universe: RESI=1 and VOLUN=1

With respect to hours worked, was this a typical volunteer week?

- 1 Yes
- 2 No
- 8 Don't Know
- 9 PREFER NOT TO ANSWER

What are Typical Hrs. Volunteered: VHOURS

Universe: RESI=1 and VTPCL<>1

How many hours [does/do] [he/she/you] typically volunteer? ROUND UP TO NEAREST WHOLE NUMBER

Enter Number: [RANGE 1-150]
 999 PREFER NOT TO ANSWER

REFVHOUR

Universe: VHOURS=999

We understand your hesitancy to provide the number of hours you typically volunteer per week. However this information is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing this level of detail, please choose the "I agree to provide some information" button below, and you will be asked to provide this information, but at a broader level of detail (hourly ranges). If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INT25

Universe: REFVHOURS=9

Please press 'Next' to exit.

Range of Hrs. Typically Volunteer per Week: ALTVHOURS

Universe: REFHOUR=2

Please choose the range that represents the number of hours [he/she/you] typically volunteer:

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

Volunteer Location: VLOC

Universe: RESI=1 and VOLUN=1

And is [his/her/your] work schedule for [his/her/your] volunteer job fixed, is it [his/her/your] home, or does it vary from day to day or week to week?

- 1 Volunteer fixed location outside of home
- 2 Telecommuter
- 3 Volunteer at home
- 4 No place of volunteer (taxi driver or salesman)
- 5 Place of volunteer may change day to day
- 6 Place of volunteer beyond daily commuting distance

Volunteer Name: VNAME

Universe: RESI=1 and VOLUN=1 and VLOC<>3

What is the name of [his/her/your] volunteer job location?

ENTER RESPONSE: _____

CVADD

Universe: RESI=1 and VOLUN=1 and VLOC<>3, 4, 5

What is the address of [his/her/your] volunteer job?

- 1 RESPONDENT KNOWS COMPLETE ADDRESS
- 2 RESPONDENT KNOW CROSS STREETS
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

REFCVADD

Universe: CVADD>2

I understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I do not want to provide this information

INTXX

Universe: REFCVADD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening

Volunteer Cross-Streets: VSXTR

Universe: RESI=1 and VOLUN=1 and CVADD=2

Can you tell me the nearest cross streets of this volunteer location?

ENTER RESPONSE: _____

Volunteer Address: VADDR

Universe: RESI=1 and VOLUN=1 and CVADD=1

(IF NEEDED) What is the address of [his/her/your] volunteer job?

PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

- (VADDR) Address: _____
- (VSUIT) Suit: _____
- (VCITY) City: _____
- (VPROV) Province: _____
- (VPC) Postal Code: _____

Parking Offered at Volunteer Location: VPRK

Universe: RESI=1 and VOLUN=1

Does [his/her/your] volunteer location offer parking regardless of whether or not [he/she/you] use it?

IF YES, is it free or paid parking?

- 1 YES- Free
- 2 YES - Paid
- 3 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Type of Parking: VPKTYP

Universe: RESI=1 and VOLUN=1 and VPRK<3

What type of parking is offered by [his/her/your] volunteer location?

- 1 On destination property (driveway or surface lot)
- 2 On destination property (garage or parkade)
- 3 On street by destination property
- 4 Different location – surface lot (address)
- 5 Different location – parkade (address)
- 6 Different location – on street (address)
- 7 Did not park (pick up or drop off)
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Cost of Parking: VPKCOS

Universe: RESI=1 and VOLUN=1 and VPRK =2 and VPKTYP=4,5,6, or 97

How much do [he/she/you] pay for parking?

- 7 OTHER, SPECIFY [OPEN ENDED]
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Parking Location Specified: VPLOC

Universe: RESI=1 and VOLUN=1 and VPKTYP=4, 5, or 6

Please specify [his/her/your] volunteer parking location.

- 7 OTHER, SPECIFY [OPEN ENDED]
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

4: SCHOOL INFORMATION – ALL MEMBER OF HH

Universe: ALL

Education attained: EDUCA

Universe: RESI<>2

What level of education [has/have] [he/she/you] completed?

- 1 PRE-SCHOOLER
- 2 KINDERGARTEN – GRADE 6
- 3 GRADES 7 to 9
- 4 GRADES 10 to 12
- 5 UNIVERSITY - UNDERGRADUATE
- 6 UNIVERSITY - GRADUATE
- 7 COLLEGE (example would be Bow Valley College)
- 8 TECHNICAL OR TRADES SCHOOL (example would be SAIT or Apprenticeship)
- 97 OTHER, SPECIFY
- 99 PREFER NOT TO ANSWER

Student: STUDE

Universe: RESI<>2

[Is/are] [he/she/you] currently enrolled in any type of school, including daycare, technical school, or university? [IF AGE 18+, FOLLOW UP WITH: IS THAT FULL-TIME OR PART-TIME?]

- 1 YES – FULL TIME
- 2 YES – PART TIME
- 3 NO
- 9 PREFER NOT TO ANSWER

REFSTUD

Universe: STUDE=9

We understand your hesitancy to provide student status. However student status is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 9 I don't want to provide this information

INTXX

Universe: REFSTUD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening.

Level of School: SCHOL

Universe: RESI<>2 and STUDE<3

What school grade or level [do/does] [you/this person] attend?

- 1 PRE-SCHOOLER/DAYCARE
- 2 KINDERGARTEN TO GRADE 6
- 3 GRADE 7 TO 9
- 4 GRADE 10 TO 12
- 5 UNIVERSITY – UNDERGRADUATE
- 6 UNIVERSITY – GRADUATE
- 7 COLLEGE (example would be Bow Valley College)
- 8 TECHNICAL OR TRADE SCHOOL (example would be SAIT or apprenticeship)
- 97 Other, SPECIFY
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

REFSCHOL

Universe: SCHOL>97

We understand your hesitancy to provide level of education. However level of education is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing this level of detail, please choose the "I agree to provide some information" choice below, and you will be asked to provide this information, but at a broader level of detail (education ranges). If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INT20

Universe: REFSTUD=9

Please press 'Next' to exit.

Education Range: ALTSCHOL

Universe: REFSCHOL=2

Please select the education range that best reflects the level of school [you/FNAME] have attained.

- 1 Pre-School to grade 8
- 2 Grade 9 to 12
- 3 Technical/vocational school, college/university (2 or 4-year)

- 4 Graduate school/professional
- 97 Other, please specify

Hrs. Spent at School per Week: SHOURS

Universe: RESI=1 and STUDE<3

How many hours [does/do] [he/she/you] spend at school per week? ROUND UP TO NEAREST WHOLE NUMBER

ENTER NUMBER: [RANGE 1-150]

REFSHOURS

Universe: SHOURS=999

We understand your hesitancy to provide time spent at school. However time spent at school is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing this level of detail, please choose the "I agree to provide some information" choice below, and you will be asked to provide this information, but at a broader level of detail (hourly ranges). If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INT20

Universe: REFSSCHOOL=9

Please press 'Next' to exit.

Range of Hrs. Spent at school per Week - Full-Time Student: FTSHRS

Universe: REFSHOURS=2 and STUDE=1

Please select the range that best reflects the number of hours [he/she/you] spends at school per week.

- 1 Less than 10 hours per week
- 2 10 – less than 20 hours per week
- 3 20 – less than 30 hours per week
- 4 30 – less than 40 hours per week
- 5 More than 40 hours per week

Range of Hrs. Spent at school per Week - Part-Time Student: PTSHRS

Universe: REFSHOURS=2 and STUDE=2

Please select the range that best reflects the number of hours [he/she/you] spends at school per week:

- 1 Less than 10 hours per week
- 2 10 or more hours per week

School Name: SNAME

Universe: RESI<>2 andSTUDE<3

What is the name of [his/her/your] school ?

ENTER RESPONSE: _____

CSADD

Universe: RESI<>2 and STUDE<3

Do you know the address of the school?

- 1 I know the complete address
- 2 I know the cross streets but not the full address

- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

REFCSADD

Universe: CSADD>2

I understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing any information, the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INTXX

Universe: REFCSADD=9

Without this information, we will not be able to continue this survey. On behalf of the City of Calgary, we thank you for your time. Enjoy the rest of your morning/afternoon/evening

School Cross Streets: SXSTR

Universe: RESI<>2 and CSADD=2

Can you tell me the nearest cross streets of [his/her/your] school?

ENTER RESPONSE: _____

School Address: SADDR

Universe: RESI<>2 and CSADD=1

(IF NEEDED) What is the address of [his/her/your] school?

PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENTER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

(SADDR) ADDRESS: _____
 (SSUIT) SUIT: _____
 (SCITY) CITY: _____
 (SPROVINCE) PROVINCE: _____
 (SPC) POSTAL CODE: _____

Transit Pass: TPASS

Universe: RESI<>2

[Do/Does] [you/he/she] have a transit pass?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Transit Pass Type: TPTYP

Universe: RESI<>2 and TPASS=1

What type of pass [do/does] [you/he/she] have?

- 1 ADULT MONTHLY PASS
- 2 YOUTH MONTHLY PASS
- 3 U-PASS (FEES PAID THROUGH POST SECONDARY INSTITUTION)
- 4 SENIOR PASS (YEARLY)
- 5 TRANSIT EMPLOYEE PASS
- 6 ADULT DAY PASS
- 7 YOUTH DAY PASS

- 8 ACCESS CALGARY ATTENDANCE CARD
- 9 UNIFORMED, POSTAL WORKERS, POLICE, FIRE FIGHTER, EMS
- 10 LOW INCOME MONTHLY PASS
- 11 SOUTHLAND COMMUTER PASS (COCHRANE & OKOTOKS)
- 12 AIRDRIE / CROSSFIELD COMMUTER PASS
- 13 STRATHMORE / CHESTERMERE COMMUTER PASS
- 97 OTHER, SPECIFY
- 99 PREFER NOT TO ANSWER

REFPTYP

Universe: TPTYP=99

We understand your hesitancy to provide transit pass information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you would like to go back and provide the requested information, please choose the "I agree to provide this information" choice below. If you do not feel comfortable providing this level of detail, please choose the "I agree to provide some information" choice below, and you will be asked to provide this information, but at a broader level of detail. If you do not feel comfortable providing any information, then please choose the "I don't want to provide this information" choice and the survey will come to an end.

- 1 I agree to provide this information
- 2 I agree to provide some information
- 9 I don't want to provide this information

INT22

Universe: REFPTYP=9

Please press 'Next' to exit.

Type of Pass - Alternate Choices: ALTPYP

Universe: REFPTYP=2

Please tell me the type of pass [you/he/she] [have/has].

- 1 DAY PASS
- 2 MONTHLY PASS
- 3 COMMUTER PASS
- 4 U-PASS (fees paid through post-secondary institution)
- 7 OTHER, SPECIFY

Cost of Transit Pass: TRANC

Universe: RESI<>2 and TPASS=1

How much [did] [you/he/she] pay for the pass?

- 97 RECORD RESPONSE
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Discount/Subsidized Transit Pass: DISPAS

Universe: RESI<>2 and TPASS<>1

Whether or not [you/he/she] [use/uses] it, is a discounted or subsidized transit pass available to you?

- 1 YES
- 2 NO
- 9 PREFER NOT TO ANSWER

REFDISPAS

Universe: DISPAS=9

We understand your hesitancy to provide this information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. Even if you don't use a transit pass, we would like to know

whether or not your employer would offer you a discount on transit fares or whether you are eligible for a discount from some other agency, like Access Calgary. If you would like to go back and provide the requested information, please choose the “I agree to provide this information” choice below. If you do not feel comfortable providing any information, then please choose the “I don’t want to provide this information” choice and the survey will come to an end.

- 1 RESPONDENT AGREES TO PROVIDE THIS INFORMATION
- 9 RESPONDENT REFUSES

Kind of Discounted Transit Pass: DISTP

Universe: RESI<>2 and TPASS=1

[Do/Does] [you/he/she] participate in a discounted or subsidized pass program? [IF YES] What kind of discounted pass is it?

- 0 [D/DOES] NOT PARTICIPATE IN TRANSIT PASS PROGRAM→ GO TO INCA
- 1 NO TRANSIT PASS USED
- 2 ADULT MONTHLY PASS
- 3 YOUTH MONTHLY PASS
- 4 U-PASS (FEES PAID THROUGH POST SECONDARY INSTITUTION)
- 5 SENIOR PASS (YEARLY)
- 6 TRANSIT EMPLOYEE PASS
- 7 ADULT DAY PASS
- 8 YOUTH DAY PASS
- 9 ACCESS CALGARY ATTENDANCE CARD
- 10 UNIFORMED, POSTAL WORKERS, POLICE, FIRE FIGHTER, EMS
- 11 LOW INCOME MONTHLY PASS
- 12 SOUTHLAND COMMUTER PASS (COCHRANE & OKOTOKS)
- 13 AIRDRIE / CROSSFIELD COMMUTER PASS
- 14 STRATHMORE / CHESTERMERE COMMUTER PASS
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Cost of Discounted Transit Pass: DISTC

Universe: RESI<>2 and DISTP<>00, 98, or 99]

How much [would it/does it cost] [you/him/her]?

- 97 RECORD RESPONSE
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

5: FINALIZING RECRUITMENT

Universe: ALL

Household Income: INCOM

Universe: ALL

The questions asked in the next section relate to the income of your household. We realize that this is a very personal piece of information. It is very helpful for us to know the approximate income range of a household when examining their travel behavior and household characteristics. Research indicates that income influences travel behavior. Please be assured, if you provide your household’s approximate annual income, the data will be completely secure, and will only be used for transportation planning purposes.

INCA To ensure our study is representative of all income groups in the region, could you tell me if your household's total income for last year was above or below \$50,000?

- 11 BELOW \$50,000
- 22 AT OR ABOVE \$50,000
- 99 PREFER NOT TO ANSWER

INCB [INCA=11] Is it...

- 1 LESS THAN \$15,000
- 2 \$15,000-\$29,999
- 3 \$30,000-\$49,999
- 99 PREFER NOT TO ANSWER

INCC [INCA=22] Is it above or below \$100,000?

- 44 BELOW \$100,000
- 55 AT OR ABOVE \$100,000
- 99 PREFER NOT TO ANSWER

INCD [INCD=44] Was it....

- 4 \$50,000 TO \$74,999
- 5 \$75,000 to \$99,999
- 99 PREFER NOT TO ANSWER

INCE [INCD=55] Was it...

- 8 \$100,000 TO \$149,999
- 9 \$150,000 to \$199,999
- 10 \$200,000 or more
- 99 PREFER NOT TO ANSWER

INCRF [INCOM=99] We appreciate your concerns about providing this information, but we only need to properly identify your household as belonging to one of the following categories

- 1 Less than \$15,000
- 2 \$15,000-\$29,999
- 3 \$30,000-\$49,999
- 4 \$50,000-\$74,999
- 5 \$75,000-\$99,999
- 6 \$100,000-\$149,999
- 7 \$150,000-\$199,999
- 8 \$200,000 or more
- 99 PREFER NOT TO ANSWER

INCOM

- COMPUTED INCOME**
- 1 Less than \$15,000
 - 2 \$15,000-\$29,999
 - 3 \$30,000-\$49,999
 - 4 \$50,000-\$74,999
 - 5 \$75,000-\$99,999
 - 6 \$100,000-\$149,999
 - 7 \$150,000-\$199,999
 - 8 \$200,000 or more
 - 99 PREFER NOT TO ANSWER

Assignment number: ASSN

Universe: All

WILL BE CALCULATED NOW, WON'T COME UP IN PROGRAM.

CASSN

Universe: All

Thank you for agreeing to participate in this study. Understanding your household's travel and activities is very important for improving transportation in your area. We will send a diary for everyone in your household to keep track of travel and activities on <DAY AND DATE>. Even if you think your household's travel on this day is not normal (more than usual travel, less than usual, or not at all), it is OK. We still want to know how and where your household traveled on <DAY AND DATE>.

1 CONTINUE

INCT1

Universe: INCEN HOUSEHOLD

We are offering \$<INAMT> in appreciation of your efforts, but only if EVERYONE in your household completes a travel diary and reports travel information by <ASN10>. Once all travel information is complete and confirmed for EVERYONE in your household, we will mail you a check.

VISTR

Universe: IF RESI=2 FOR ANY HH MEMBER

How many visitors will be in your household on [ASSN]?

Enter number of visitors:

99 Prefer not to answer

The number of diaries to be sent: DIARY

Universe: All

CACULATED VAR: IF VISTR=00 OR 99, DIARY=HHSIZ; IF VISTR>0 and NE 99, DIARY=HHSIZ+VISTR.

HHNME

Universe: All

To whom should we address the envelope?

PROGRAMMING NOTE: IMPORT FNAMEAND (WE DON'T COLLECT LNAME)COLLECTED EARLIER AND CONFIRM LISTED NAME. IF NULL OR INCORRECT COLLECT NEW.

RESPF/ RESPL

Universe: All

FIRST NAME: _____

LAST NAME: _____

9 PREFER NOT TO ANSWER

INTERVIEWER NOTE: CONFIRM SPELLING AND READ BACK

Mailing Address: MADDR

Universe: All

In order to mail the survey materials to you, please confirm your mailing address.

Is this also your mailing address?

Retrieval MODE Preference: CATSI

Universe: All

After your travel day, we will ask you to report details about the places you visited. Would you prefer to mail your information back, report them via website, or would you like one of our interviewers to call you to complete the survey?

- 1 MAIL
- 2 WEB INTERVIEW
- 3 PHONE INTERVIEW

REMNI

Universe: All

Please note that we will contact you to remind you about your travel date on <ASSN> and to provide you with additional instructions during your participation. Would you like to be reminded by phone, text message, or email? [INTERVIEWER NOTE: IF RESPONDENT REFUSES, SELECT 1=PHONE]

- 1 PHONE
- 2 TEXT
- 3 EMAIL

RMPHN

Universe: REMN1=1

Can you confirm this telephone number as the number to call?

- 1 CORRECT
- 2 NOT CORRECT

RMTXT

Universe: REMN1=2

Can you confirm the best telephone number for us to send a reminder text?

- 1 ENTER CELL NUMBER: _ _ _ _ - _ _ _ - _ _ _ _

RMEML

Universe: REMN1=3

Can you tell us the email address where you would like to receive a reminder email?

- 1 ENTER EMAIL ADDRESS: _____

Primary Language Spoken at Home: LANG

Universe: All

Lastly, what language is primarily spoken in your household?

- 1 English
- 2 Cantonese / Chinese
- 3 French
- 4 Punjabi
- 5 Spanish
- 6 Vietnamese
- 7 Other
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

CONCLUSION

THANK

Universe: All

Thank you for participating in the Calgary and Region Travel and Activity Survey. Please tell the other members of your household how important their participation is for the success of the study. If you have any questions or comments, the toll free number where you can reach us is 877-261-4621. Thank you again!

Appendix C: Retrieval CATI Survey

Introduction 1

Universe: ALL

INT02

Universe: All

Hi, this is _____ from the Calgary and Region Travel and Activity Survey conducted on behalf of the City of Calgary, Alberta Transportation and the Calgary Regional Partnership. We recently spoke with <FNAME> <LNAME> <RESPF> <RESPL> and are calling back to conduct the interview he/she agreed to complete a few days ago. May I please speak with <FNAME><RESPF> <RESPL>?

- 1 HAVE RESPONDENT
- 2 RESPONDENT NOT AVAILABLE
- OK** CONTINUE
- CE** ENTERING A MAIL-IN
- ML** RESPONDENT WILL MAIL IN LOGS
- HM** RESPONDENT HAS MAILED IN LOGS
- WC** RESPONDENT WILL COMPLETE ONLINE(ONLY CHOOSE IF THEY PROMISE TO GO ONLINE)
[PROGRAMMER NOTE: IF SELECTED, GO TO POP-UP SCREEN WHERE INTERVIEWER CAN READ WEBSITE AND PINNO]
- LR** LOGS RECEIVED
- NA** NO ANSWER
- BZ** BUSY
- AM** ANSWERING MACHINE
- LM** LEFT MESSAGE
- ID** DISCONNECT
- IM** COMPUTER/FAX MACHINE
- IG** BUSINESS/GOVERNMENT
- PM** CALLER ID
- IW** WRONG NUMBER, NEED TO RESEARCH
- KB** SPECIFIC CALLBACK
- KH** GENERAL CALLBACK
- K5** CALL BACK IN 5 MINUTES
- KN** NEW NUMBER (HAVE NEW NUMBER)
- R1** 1ST REFUSAL
- R2F** 2ND FINAL REFUSAL
- RH** HUNG UP (W/O A WORD)
- H2** 2ND HANG UP

CALBK

Universe: ??

Earlier we spoke with you about the travel survey and asked you and your household to record your travel and activities on <ASSN>. Can we collect the details about your household's travel day now?

SCPT0**Universe: INT02=2**

IF NOT<RESPF><RESPL> SELECT RESPONDENT'S NAME FROM LIST

Just a reminder, your household is being offered <INAMT> to thank you for your participation in this study. If EVERYONE in the household completes the study with valid travel information by <ASN10>, we will send your household <INAMT> in the next 8-10 weeks.

SCPT1**Universe: All**

We recently spoke with you about the travel survey and asked you to record your travel on <ASSN>. We would like to collect your trip information now.

VADD**Universe: All**

Let's start by verifying the address where you live. Our records show that your address is: [RECALL INFORMATION FROM RECRUITMENT FOR INTERVIEWER TO REFERENCE- PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

<FNAME> <LNAME>-<RESPF> <RESPL>
 <ADDRESS>
 <CITY> <PROVINCE> <POSTAL CODE>
 Travel Day: <TDAY>
 ASSN: <ASSN>

Completed Logs: CMPLG**Universe: All**

Did <NAME> complete their travel diary? [PROGRAMMING NOTE: ASK OF ALL]

- 1 YES (COMPLETED)
- 2 NO (NOT COMPLETED)
- 3 DID NOT RECEIVE MATERIALS
- 8 DON'T KNOW
- 9 REFUSE

Have Log: HVLOG**Universe: CMPLG=1**

Do you have the completed diary to refer to? [PROGRAMMING NOTE: ASK OF ALL]

- 1 Yes
- 2 No
- 9 REFUSED

Income: INCOM**Universe: RECRUITMENT INCOM=99**

And to make sure your household properly represents others in the region, can you pick the option from the following categories which best represents your total household income last year?

IF NEEDED: We understand if you feel uncomfortable answering this question. However, we only ask about income to ensure all households are equally represented in our survey. Income has been found to be related to the types of trips households make, and we need to make sure we get information for all types of trips and income levels.

- 1 Less than \$15,000
- 2 \$15,000-\$29,999
- 3 \$30,000-\$49,999
- 4 \$50,000-\$74,999

- 5 \$75,000-\$99,999
- 6 \$100,000-\$149,999
- 7 \$150,000-\$199,999
- 8 \$200,000 or more
- 98 DON'T KNOW
- 99 REFUSED

HHPPL

Universe: All

How many people, including yourself, were in your household on <ASSN>?

NOTE: THIS INCLUDES HH AND NON HH MEMBERS.

- 1 ONE
- 2 TWO
- 3 THREE
- 4 FOUR
- 5 FIVE
- 6 SIX
- 7 SEVEN
- 8 EIGHT OR MORE
- 98 DON'T KNOW
- 99 REFUSE

CHHVIS

Universe: HHVIS>0

During the initial household interview, you reported that there would be <VISTR> visitors in your household on <ASSN> These visitors include

We'd like to verify that these persons were actually visiting your household on <ASSN>.

- 1 YES
- 2 NO

INTERVIEWER NOTE: WE ONLY WANT TO VERIFY IF THE VISITORS MENTIONED DURING RECRUITMENT WERE PRESENT. WE DON'T WANT TO ADD ANY VISITORS THAT WERE IN THE HH THAT WERE NOT REPORTED IN THE RECRUITMENT INTERVIEW.

VCTY

Universe: HHVIS>0 or HHVISI=1

Where were these visitors from? PROBE FOR CITY.

- RECORD RESPONSE
- 8 DON'T KNOW
- 9 REFUSE

HABITUAL ADDRESSES (HOME, WORK, SCHOOL) VERIFIED IN TRIPBUILDER

Person Roster

TTBUT (INTERVIEWER NOTE CLICK ON LINK TO LAUNCH TRIPBUILDER)

FOR RELATED HOUSEHOLDS:

80% OF THE HOUSEHOLDS THAT HAVE 5 OR MORE PERSONS WILL HAVE TRAVEL FOR ALL HOUSEHOLD MEMBERS. 20% OF THE HOUSEHOLDS THAT HAVE 5 OR MORE PERSONS CAN HAVE TRAVEL FOR ALL BUT ONE PERSONS CAPTURED. FOR 4 PERSON AND FEWER HOUSEHOLDS, TRAVEL FOR ALL PERSONS IN THE HOUSEHOLD MUST BE CAPTURED.

FOR UNRELATED HOUSEHOLDS:

THE GOAL WILL BE TO COLLECT PERSON AND VEHICLE INFORMATION FROM ALL HH MEMBERS, AND THEN TRAVEL FOR AS MANY AS POSSIBLE.

OBTAIN DETAILS FOR ALL TRIPS, EVEN THOSE THAT ARE WORK-RELATED OR FOR WORK PURPOSES, AS LONG AS THEY ARE MADE IN A VEHICLE THAT IS AVAILABLE FOR EVERYDAY USE BY THE HOUSEHOLD. AN EXAMPLE OF A WORK RELATED TRIP THAT WOULD NOT BE CAPTURED IS A UPS OR FEDEX DELIVERY TRIP-MADE IN A DELIVERY TRUCK THAT IS NOT TAKEN HOME AT NIGHT.

TRIP ROSTER (TRIPBUILDER)

Next, we will ask you to provide details about the trip/activity information that your household recorded for your travel day.

Flag if travel characteristics were collected by proxy: PROXY

Universe: All

SELECT THE PERSON YOU ARE SPEAKING WITH. (INDICATE IF TRIP INFORMATION IS BEING PROVIDED BY THE INFORMANT OR BY PROXY) [COMPUTED]

- 1 INFORMANT
- 2 PROXY

INTRV

Universe: PROXY=2

Select who you are speaking with: _____

HABITUAL COLLECTION: We will now use an interactive mapping tool to map your home, work and school locations.

[NOTE: THE FOLLOWING IS TEXT THAT WILL APPEAR ON THE WEB SITE ONLY] Please search for your household's locations to place them on the map OR click the "Set Location" button to mark them on the map directly. Follow STEP 1 and STEP 2 for each location.

Place Number: PLANO

Universe: All

PLACE NUMBER

Person Name: PNAME

Universe: All

We will now use a similar tool to collect information about the places [you/he/she] visited on your assigned survey day.

IF PLACE 1: Okay, where were you at 4 am on [ASSN]? OTHERWISE: Where did you go next?

RECORD PLACE NAME

ADDRESS INFORMATION CAPTURED IN TRIPBUILDER

[INTERVIEWER NOTE: PLACE NAME SHOULD INCLUDE INFORMATION DESCRIBING THE PLACE IF IT IS UNCERTAIN. EXAMPLE: "NOVEL IDEAS" SHOULD BE "NOVEL IDEAS BOOKSTORE". ASK "WHAT TYPE OF PLACE IS THIS?" IF YOU DO NOT KNOW THE TYPE OF THE PLACE]

Street Number and Street Name of Address: ADDR

Universe: All

What is the street address of that place?

ADDRESS: _____

SUIT: _____

City Name: CITY

Universe: All

And the city or town?

Province: PVNC

Universe: All

Is that in Alberta?

- 1 Yes
- 2 No

Province – Other Specify: OPVNC

Universe: PVNC=2

What province is that?

- 1 British Columbia
- 2 Manitoba
- 3 New Brunswick
- 4 Newfoundland and Labrador
- 5 Northwest Territories
- 6 Nova Scotia
- 7 Nunavut
- 8 Ontario
- 9 Prince Edward Island
- 10 Quebec
- 11 Saskatchewan
- 12 Yukon

Postal Code: PSTLCD

Universe: All

Do you know the postal code PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

Cross Streets: XSTR

Universe: PSTCLD NULL

What are the nearest cross streets?

Departure Time: DEPTM

Universe: All

What time did [you/he/she] leave this place?

NOTE: USE MILITARY TIME

STOPS

Universe: PLANO>1

Did [you/he/she] make any stops along your travel to [home, work, school, this place], such as a quick errand, to stop for fuel, pick up food, or to pick up drop off a friend or family member?

- 1 YES
- 2 NO

Arrival Time: ARRTM

Universe: All

What time did [you/he/she] arrive there?

NOTE: USE MILITARY TIME

Trip Duration: TRPDUR

TRIP DURATION CALCULATED

Mode of Trip: MODE

Universe: All

How did [you/NAME] get there?

- 1 WALK
- 2 BICYCLE
- 3 OTHER NON-MOTORIZED
- 4 AUTO OR SMALL TRUCK DRIVER
- 5 AUTO OR SMALL TRUCK PASSENGER
- 6 LIGHT RAIL
- 7 BUS RAPID TRANSIT (BRT or express route)
- 8 REGULAR BUS
- 9 ACCESS CALGARY (Handi Bus and Special Needs Bus)
- 10 INTERCITY BUS (e.g., Southland Okotoks Commuter Bus)
- 11 SCHOOL BUS (Calgary transit)
- 12 TAXI
- 13 SCHOOL BUS (not Calgary transit)
- 14 AIR TRAVEL
- 15 OTHER MOTORIZED
- 98 DON'T KNOW
- 99 REFUSED

Number of people in travel group (not including respondent): PARTY

Universe: MODE = 4, 5, or 12

How many, including [yourself/NAME], were in the vehicle?

- 1 One
- 2 Two
- 3 Three
- 4 Four
- 5 Five
- 6 Six
- 7 Seven
- 8 Eight or more
- 98 DON'T KNOW
- 99 REFUSE

Number of household members on trip: HHMEM

Universe: PARTY>0

Of these, how many were household members?

- 1 One
- 2 Two
- 3 Three
- 4 Four
- 5 Five
- 6 Six
- 7 Seven
- 8 Eight or more
- 98 DON'T KNOW
- 99 REFUSE

Person Number on Trip: PERTP

Universe: HHMEM>0

Who were the household members?
[ENTER ALL PERNOS]

HH Vehicle Number of the vehicle used for the trip: VEHNO

Universe: MODE=4, or 5

Which vehicle did [you/NAME] use?
ENTER VEHNO: _____

- 97 Non-household vehicle
- 98 DON'T KNOW
- 99 REFUSED

Parked Vehicle?: PARK

Universe: MODE=4, 5, or 12

Did [you/NAME] park this vehicle?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSE

Pay to park?: PAYPK

Universe: MODE=4, 5, and PARK=1

Did [you/NAME] pay to park this vehicle?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSE

Amount paid to park: PKAMT

Universe: PAYPK=1

How much did you pay to park?

ENTER AMOUNT: _____

Amount paid to park, units: PKUNT

Universe: PAYPK=1

And is that:

- 1 Per Hour
- 2 Per Day
- 3 Per Week
- 4 Per Month
- 5 Per Semester
- 6 Per Year
- 8 DON'T KNOW
- 9 REFUSED

Location of parking: PKTYP

Universe: MODE=4, 5 and PARK=1

Which of the following best describes the parking location [you/NAME] used?

- 1 ON DESTINATION PROPERTY (driveway or surface lot)
- 2 ON DESTINATION PROPRTTY (garage or parkade)
- 3 ON STREET BY DESTINATION PROPERTY
- 4 DIFFERENT LOCATION – surface lot
- 5 DIFFERENT LOCATION – parkade
- 6 DIFFERENT LOCATION – on street
- 7 DID NOT PARK (pick up or drop off)
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

Parking Location X-Streets: PXSTR

Universe: PKTYP=4, 5, 6 or 97

What are the nearest cross streets to this parking location?

Was Vehicle Available: VAVAL

Universe: MODE<=>4 and <=>5

Even though [you/NAME] did not travel by personal vehicle, was their one available for [you/NAME] to use?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSE

Transit Service Used: SVC

Universe: MODE=6, 7, 8, 9, 10, 11

What transit service did you use?

- 1 Calgary Transit
- 2 Airdrie Transit
- 3 Southland Commuter
- 4 First Student Airdrie/Crossfield Commuter
- 5 First Student Strathmore/Chestermere
- 7 Other, specify

Transit Lines/Routes: ROUTE

Universe: MODE=6, 7, 8, 9, 10, 11

What transit routes or lines did [you/he/she] take?

SELECT FROM ROUTE LIST

How was Fare Paid: TRNPD

Universe: MODE=6, 7, 8, 9, 10, 11

How was the fare paid for this transit trip?

- 1 ONE WAY TICKETS
- 2 DAY PASS
- 3 MONTHLY PASS
- 4 SENIOR PASS
- 5 LOW INCOME MONTHLY PASS
- 6 U-PASS
- 7 YEARLY PASS
- 8 CHILD PASS
- 97 OTHER, SPECIFY
- 96 CASH
- 98 DON'T KNOW
- 99 REFUSE

Was Transit Pass Available: TPASS

Universe: MODE=6, 7,8,9,10,11 and TRNPD =96

Even though a transit pass was not used for this trip, was there one available?

- 1 YES
- 2 NO
- 9 REFUSE

INTXX

Universe: TPASS=9

I understand your hesitancy to provide transit pass information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing any information, I understand, but we will have to terminate the survey.

- 1 RESPONDENT AGREES TO PROVIDE INFORMATION
- 9 RESPONDENT REFUSES

Total Fare of Taxi trip: SERVC

Universe: MODE=12

What was the total fare on this taxi trip?

ENTER DOLLAR AMOUNT

998 DON'T KNOW

999 REFUSE

How did you pay for fare: TXFAR

Universe: MODE=12

How did [you/NAME] pay for this fare?

1 Cash

7 OTHER, SPECIFY _____

8 DON'T KNOW

9 REFUSED

Who Paid fare: WHOPD

Universe: FARE=12

Who paid the fare?

SELECT FROM TAXI CODE LIST

1 PAID BY SELF

2 PAID BY GOVERNMENT

3 PAID BY EMPLOYER

4 PAID BY ANOTHER TRAVELING WITH YOU²

5 SHARED FARE³

8 DON'T KNOW

9 REFUSE

Start OF ACTIVITY ROSTER

Activity Number: ACTNO

Universe: All

ACTIVITY NUMBER

Activity Conducted at Location: APURP

Universe: All

Now, I'd like to talk about the activities [you/NAME] conducted at this location. Once you arrived at this, what was the first activity [you/NAME] did?

Personal Activities / Eating / Errands:

1 Household activities (*responsibilities / chores, personal care, child care, etc.*)

2 Sleeping

3 Eating

4 Service private vehicle (*oil, lube, etc.*)

5 Household errands (*bank, dry cleaning, etc.*)

6 Personal business (*visit government office, attorney, accountant, etc.*)

7 Medical (*doctor, dentist, etc.*)

Change Means of Travel/Transfer:

8 Change type of transportation/transfer (*from car to bus, walk to bus, etc.*)

² Someone other than HH member for whom information is being collected **pays for entire fare.**

³ HH member for whom information is being collected **splits fare with another person.**

Quick Stops/Trips:

- 9 Drop someone off
- 10 Pick someone up
- 11 Drive-through (*ATM, bank, fast food, etc.*)
- 12 Get gas

At My Work/Volunteer Location:

- 13 Working (*for pay*)
- 14 Volunteer
- 15 Work related (*meeting, sales call, delivery*)

School / Daycare / Post-Secondary related:

- 16 Attend school (*all activities at school*)
- 17 Attend daycare
- 18 Homework

Shopping:

- 19 Shopping (*online, catalogue, or by phone*)
- 20 Routine shopping (*grocery, clothing, convenience store, household maintenance*)
- 21 Shopping for major purchases or specialty items (*appliances, electronics, new vehicle, major household repairs, etc.*)

Recreation / Entertainment / Social / Civic:

- 22 Outdoor recreation (*jogging, biking, walking, playing sports, etc.*)
- 23 Indoor recreation (*gym, yoga, playing sports, etc.*)
- 24 Leisure / Entertainment (*reading, watching TV / movies, playing games, surfing the Internet, spectator sports, etc.*)
- 25 Social (*visiting friends/relatives*)
- 26 Religious or Civic

Other:

- 27 Airport – business
- 28 Airport – personal
- 29 Out of town
- 97 Any other Activity

Time Started Activity: STIME

Universe: All

What time did [you/NAME] start this activity?

NOTE: USE MILITARY TIME

Time Ended Activity: ETIME

Universe: All

What time did [you/NAME] end this activity?

NOTE: USE MILITARY TIME

END OF ACTIVITY ROSTER

Departure Time: DEPTM

Universe: All

IF LAST PLACE OF THE DAY, ENTER 0359. OTHERWISE: What time did [you/NAME] leave for the next place? NOTE: ENTER IN MILITARY TIME

ENTER TIME: _____

Total Number of trips – Household Level: HTRIPS

Universe: All

COMPUTED TOTAL NUMBER OF TRIPS BY HOUSEHOLD ON TRAVEL DAY

Total Number of trips – Person Level: PTRIPS

Universe: All

COMPUTED TOTAL NUMBER OF TRIPS BY PERSON ON TRAVEL DAY

End of Trip Roster

Reason for No Travel: NOGO

Universe: PTRIPS=0

So, [you, he, she] made no trips, including for work or school. Is this correct?

[INTERVIEWER NOTE: REFER PARTICIPANT TO FRONT OF DIARY IF NEEDED]

[IF TRUE]: Why not?

[IF NEEDED]: We just need to make a note about days when people don't travel. It would help if you would let me know the reason you didn't make any trips on your assigned travel day.

- 1 PERSONALLY SICK
- 2 VACATION OR PERSONAL DAY
- 3 CARETAKING SICK KIDS
- 4 CARETAKING SICK OTHER
- 5 HOME-BOUND ELDERLY OR DISABLED
- 6 WORKED AT HOME FOR PAY
- 7 NOT SCHEDULED TO WORK
- 8 WORKED AROUND HOME (NOT FOR PAY)
- 9 OUT OF AREA
- 10 NO TRANSPORTATION AVAILABLE
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

[IF FALSE: OBTAIN TRAVEL]

IF HHSIZ>1 – GO BACK TO <PNAME> FOR NEXT HH MEMBER UNTIL ALL HH MEMBER TRAVEL COLLECTED

IF HHSIZ=1 OR LAST PERSON IN HOUSEHOLD, GO TO CNTV

End of Person Roster

[AT THE END OF SURVEY, CHECK TO SEE IF ALL HH VEHICLES WERE USED. IF NOT:]

Vehicle Used on Travel Day: CNTV

Universe: All

Did anyone drive the [VEHICLE YEAR, MAKE, MODEL] on TRAVEL DAY?

- 1 YES
- 2 NO – Why not? (Please Specify) [O_CNTV]
- 8 DON'T KNOW
- 9 REFUSED

Those are all the questions I have for you today. Thank you for participating in the Calgary and Region Travel Survey. At this point, I wish to reiterate how important your participation was for the success of the study.

INCEN1

Universe: INCEN=1

In order to thank your household for your contribution to the study, your household has been offered <INAMT>, payable in the form of a check. Checks will be mailed in 8 to 10 weeks. Can you please tell me the full name of an adult who is authorized to receive the incentive check on behalf of your household? This person should be authorized to receive the check on behalf of the household.

INTERVIEWER NOTE: (IF NEEDED) Without a **full name** of an adult, we will be unable to process your household's incentive, which is mailed to you in the form of a check.

ENTER FIRST NAME: <Text Box>

ENTER LAST NAME: <Text Box>

INCEN 2

Universe: INCEN=1

Thank you. To confirm, I'll now spell back to you the name you have provided:

[INTERVIEWER NOTE: Please spell back name to respondent to confirm correct spelling]

1 YES, NAME IS CORRECT

2 NO, NAME NEEDS MODIFICATION

INT99

Universe: All

If you have any questions or comments, I have a phone number where you can reach us. Would you like that number? WAIT FOR THEM TO WRITE: You can reach us at 877-261-4621. Thank you and have a good afternoon/evening.

Appendix D: Retrieval Web Survey

Universe: ALL

INT02

Universe: All

Welcome back to the Calgary and Region Travel and Activity Survey.

Thank-you for continuing to participate in this survey. This is a very important study about people's travel and activity patterns. This phase of the survey will collect travel and activity information from your travel day. By providing this information you help us to better understand the "why" of travel and activities. Every detail we get adds to our understanding and improves our ability to plan future transportation improvements.

All information you provide is kept strictly confidential and highly secured. Your information will be used ONLY for transportation planning purposes.

Please click "Next" to continue.

SCPT0

Universe: INT02=2

Please select your name from the list to continue:

- 1 Person Name #1
- 2 Person Name #N

SCPT1

Universe: All

We recently spoke with you about the travel survey and asked you to record your travel on <ASSN>. We would like to collect your trip information now.

PRON1

Universe: All

Just a reminder, your household is being offered \$<INAMT> to thank you for your participation in this study. If EVERYONE in the household completes the study with valid travel information, we will send your household \$<INAMT> in the next 8-10 weeks.

VADD

Universe: All

Start by verifying the address where you live. Our records show that your address is:

Please enter postal code with no spaces in the following format: #####.

If only 3-digit code known, please enter that and move on.

<ADDRESS>
<SUITE>
<CITY>
<PROVINCE>
<POSTAL CODE>

- 1 Yes, address is correct
- 2 No, address needs to be updated

Completed Logs: CMPLG

Universe: All

Did <NAME> complete their travel diary? [PROGRAMMING NOTE: ASK OF ALL]

- 1 YES (COMPLETED)
- 2 NO (NOT COMPLETED)
- 3 DID NOT RECEIVE MATERIALS
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Have Log: HVLOG

Universe: CMPLG=1

Do you have the completed diary to refer to? [PROGRAMMING NOTE: ASK OF ALL]

- 1 Yes
- 2 No
- 9 PREFER NOT TO ANSWER

NOLOG

Universe: CMPLG=2 or HVLOG=2

We will continue with the survey. Please try to recall the information as best you can.

Press Next to Continue

Income: INCOM

Universe: RECRUITMENT INCOM=99

And to make sure your household properly represents others in the region, can you pick the option from the following categories which best represents your total household income last year?

IF NEEDED: We understand if you feel uncomfortable answering this question. However, we only ask about income to ensure all households are equally represented in our survey. Income has been found to be related to the types of trips households make, and we need to make sure we get information for all types of trips and income levels.

- 1 Less than \$15,000
- 2 \$15,000-\$29,999
- 3 \$30,000-\$49,999
- 4 \$50,000-\$74,999
- 5 \$75,000-\$99,999
- 6 \$100,000-\$149,999
- 7 \$150,000-\$199,999
- 8 \$200,000 or more
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

HHPPL

Universe: All

How many people, including yourself, were in your household on <ASSN>?

NOTE: THIS INCLUDES HH AND NON HH MEMBERS.

- 1 ONE
- 2 TWO
- 3 THREE
- 4 FOUR
- 5 FIVE
- 6 SIX
- 7 SEVEN
- 8 EIGHT OR MORE
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

CHHVIS

Universe: HHVIS>0

During the initial household interview, you reported that there would be <VISTR> visitors in your household on <ASSN> These visitors include

We'd like to verify that these persons were actually visiting your household on <ASSN>.

- 1 YES
- 2 NO

INTERVIEWER NOTE: WE ONLY WANT TO VERIFY IF THE VISITORS MENTIONED DURING RECRUITMENT WERE PRESENT. WE DON'T WANT TO ADD ANY VISITORS THAT WERE IN THE HH THAT WERE NOT REPORTED IN THE RECRUITMENT INTERVIEW.

VCTY

Universe: HHVIS>0 or HHVISI=1

Where were these visitors from? PROBE FOR CITY.

- RECORD RESPONSE
- 8 DON'T KNOW
 - 9 PREFER NOT TO ANSWER

HABITUAL ADDRESSES (HOME, WORK, SCHOOL) VERIFIED IN TRIPBUILDER

Person Roster

BEGIN TRIPBUILDER – GEOCODE HABITUALS THEN START COLLECTION OF TRAVEL DAY DETAILS

Next, you will be asked to provide details about the trip and activity information that your household recorded on your travel day. Please remember to tell us about each activity you did while at home. Also, please remember to tell us about any trips you made for work purposes

TRIP ROSTER (TRIPBUILDER)

Place Number: PLANO

Universe: All

PLACE NUMBER

Place Type: PTYPE

Universe: All

[IF PLACE 1]: Ok, where were you at 4:00 am on [ASSN]?

[OTHERWISE]: Where did you go next?

- 1 My Home
- 2 My Primary Job
- 3 My Secondary Job
- 4 My School
- 5 Transit Stop
- 7 Other Place, please specify

IF PLACE 1, SKIP TO TPURP

[ADDRESS INFORMATION CAPTURED IN TRIPBUILDER]

Please include information describing each place visited. For example, if you visited "Novel Ideas", please enter "Novel Ideas Book Store."

Person Name: PNAME

Universe: PTYPE=3, 4, 5, 7

What was the name of that place?
RECORD PLACE NAME

Street Number and Street Name of Address: ADDR

Universe: PTYPE=3, 4, 5, 7

What is the street address of that place?
ADDRESS: _____
SUIT: _____

City Name: CITY

Universe: PTYPE=3, 4, 5, 7

And the city or town?

Province: PVNC

Universe: PTYPE=3, 4, 5, 7

Is that in Alberta?
1 Yes
2 No

Province – Other Specify: OPVNC

Universe: PVNC=2

What province is that?
1 British Columbia
2 Manitoba
3 New Brunswick
4 Newfoundland and Labrador
5 Northwest Territories
6 Nova Scotia
7 Nunavut
8 Ontario
9 Prince Edward Island
10 Quebec
11 Saskatchewan
12 Yukon

Postal Code: PSTLCD

Universe: PTYPE=3, 4, 5, 7

Do you know the postal code PLEASE ENTER POSTAL CODE WITH NO SPACES IN THE FOLLOWING FORMAT: #####. IF ONLY 3-DIGIT CODE KNOWN, ENTER THAT AND MOVE ON. IF RESPONDENT DOES NOT KNOW POSTAL CODE, PLEASE ENTER 999999.

Cross Streets: XSTR

Universe: PSTCLD NULL

What are the nearest cross streets?

Departure Time: DEPTM

Universe: All

What time did [you/he/she] leave this place?
Please Note: Please use military time.

STOPS**Universe: PLANO>1**

Did [you/he/she] make any stops along your travel to [home, work, school, this place], such as a quick errand, to stop for fuel, pick up food, or to pick up drop off a friend or family member?

- 1 YES
- 2 NO

Arrival Time: ARRTM**Universe: All**

What time did [you/he/she] arrive there?

Please Note: Please use military time.

Trip Duration: TRPDUR

TRIP DURATION CALCULATED

Mode of Trip: MODE**Universe: All**

How did [you/NAME] get there?

- 1 WALK
- 2 BICYCLE
- 3 OTHER NON-MOTORIZED
- 4 AUTO OR SMALL TRUCK DRIVER
- 5 AUTO OR SMALL TRUCK PASSENGER
- 6 LIGHT RAIL
- 7 BUS RAPID TRANSIT (BRT or express route)
- 8 REGULAR BUS
- 9 ACCESS CALGARY (Handi Bus and Special Needs Bus)
- 10 INTERCITY BUS (e.g., Southland Okotoks Commuter Bus)
- 11 SCHOOL BUS (Calgary transit)
- 12 TAXI
- 13 SCHOOL BUS (not Calgary transit)
- 14 AIR TRAVEL
- 15 OTHER MOTORIZED
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Number of people in travel group (not including respondent): PARTY**Universe: MODE = 4, 5, or 12**

Not including [yourself,NAME], how many others traveled with [you, NAME]?

[ENTER NUMBER]

Number of household members on trip: HHMEM**Universe: PARTY>0**

Of these, how many were household members?

[ENTER NUMBER]

Person Number on Trip: PERTP**Universe: HHMEM>0**

Who were the household members?

[ENTER ALL PERNOS]

HH Vehicle Number of the vehicle used for the trip: VEHNO**Universe: MODE=4, or 5**

Which vehicle did [you/NAME] use?

ENTER VEHNO: _____
97 Non-household vehicle

Parked Vehicle?: PARK

Universe: MODE=4, 5, or 12

Did [you/NAME] park this vehicle?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Pay to park?: PAYPK

Universe: MODE=4, 5, and PARK=1

Did [you/NAME] pay to park this vehicle?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Amount paid to park: PKAMT

Universe: PAYPK=1

How much did you pay to park?

ENTER AMOUNT: _____

Amount paid to park, units: PKUNT

Universe: PAYPK=1

And is that:

- 1 Per Hour
- 2 Per Day
- 3 Per Week
- 4 Per Month
- 5 Per Semester
- 6 Per Year
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Location of parking: PKTYP

Universe: MODE=4, 5 and PARK=1

Which of the following best describes the parking location [you/NAME] used?

- 1 ON DESTINATION PROPERTY (driveway or surface lot)
- 2 ON DESTINATION PROPRTTY (garage or parkade)
- 3 ON STREET BY DESTINATION PROPERTY
- 4 DIFFERENT LOCATION – surface lot
- 5 DIFFERENT LOCATION – parkade
- 6 DIFFERENT LOCATION – on street
- 7 DID NOT PARK (pick up or drop off)
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Parking Location X-Streets: PXSTR

Universe: PKTYP=4, 5, 6 or 97

What are the nearest cross streets to this parking location?

Was Vehicle Available: VAVAL

Universe: MODE<=>4 and <=>5

Even though [you/NAME] did not travel by personal vehicle, was their one available for [you/NAME] to use?

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

Transit Service Used: SVC

Universe: MODE=6, 7, 8, 9, 10, 11

What transit service did you use?

- 1 Calgary Transit
- 2 Airdrie Transit
- 3 Southland Commuter
- 4 First Student Airdrie/Crossfield Commuter
- 5 First Student Strathmore/Chestermere
- 7 Other, specify

Transit Lines/Routes: ROUTE

Universe: MODE=6, 7, 8, 9, 10, 11

For the first transit you took, what was the route/line?

Enter route/line: _____

How was Fare Paid: TRNPD

Universe: MODE=6, 7, 8, 9, 10, 11

How was the fare paid for this transit trip?

- 1 ONE WAY TICKETS
- 2 DAY PASS
- 3 MONTHLY PASS
- 4 SENIOR PASS
- 5 LOW INCOME MONTHLY PASS
- 6 U-PASS
- 7 YEARLY PASS
- 8 CHILD PASS
- 97 OTHER, SPECIFY
- 96 CASH
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

Was Transit Pass Available: TPASS

Universe: MODE=6, 7, 8, 9, 10, 11 and TRNPD =96

Even though a transit pass was not used for this trip, was there one available?

- 1 YES
- 2 NO
- 9 PREFER NOT TO ANSWER

INTXX

Universe: TPASS=9

I understand your hesitancy to provide transit pass information. However it is critical for transportation planning and forecasting future transportation needs. You can be assured that this information will be held in the strictest of confidence. If you do not feel comfortable providing any information, I understand, but we will have to terminate the survey.

- 1 I agree to provide this information

9 I don't want to provide this information

Total Fare of Taxi trip: SERVC

Universe: MODE=12

What was the total fare on this taxi trip? An estimate is OK. If [you/NAME] [don't/doesn't] remember please enter 998.

ENTER DOLLAR AMOUNT
999 PREFER NOT TO ANSWER

How did you pay for fare: TXFAR

Universe: MODE=12

How did [you/NAME] pay for this fare?

1 Cash
7 OTHER, SPECIFY _____
8 DON'T KNOW
9 PREFER NOT TO ANSWER

Who Paid fare: WHOPD

Universe: FARE=12

Who paid the fare?

SELECT FROM TAXI CODE LIST
1 PAID BY SELF
2 PAID BY GOVERNMENT
3 PAID BY EMPLOYER
4 PAID BY ANOTHER TRAVELING WITH YOU⁴
5 SHARED FARE⁵
8 DON'T KNOW
9 PREFER NOT TO ANSWER

Start OF ACTIVITY ROSTER

This section of the survey will collect your activity information. This information is important because if we can understand how people's activities are arranged and how travel plans are made, it helps us to make better recommendations for improvements that could ultimately make it easier for you to get where you're going

Activity Number: ACTNO

Universe: All

ACTIVITY NUMBER

Activity Conducted at Location: APURP

Universe: All

Once you arrived at this, what was the first activity [you/NAME] did?

Personal Activities / Eating / Errands:

1 Household activities (*responsibilities / chores, personal care, child care, etc.*)
2 Sleeping
3 Eating
4 Service private vehicle (*oil, lube, etc.*)

⁴ Someone other than HH member for whom information is being collected **pays for entire fare.**

⁵ HH member for whom information is being collected **splits fare with another person.**

- 5 Household errands (*bank, dry cleaning, etc.*)
- 6 Personal business (*visit government office, attorney, accountant, etc.*)
- 7 Medical (*doctor, dentist, etc.*)

Change Means of Travel/Transfer:

- 8 Change type of transportation/transfer (*from car to bus, walk to bus, etc.*)

Quick Stops/Trips:

- 9 Drop someone off
- 10 Pick someone up
- 11 Drive-through (*ATM, bank, fast food, etc.*)
- 12 Get gas

At My Work/Volunteer Location:

- 13 Working (*for pay*)
- 14 Volunteer
- 15 Work related (*meeting, sales call, delivery*)

School / Daycare / Post-Secondary related:

- 16 Attend school (*all activities at school*)
- 17 Attend daycare
- 18 Homework

Shopping:

- 19 Shopping (*online, catalogue, or by phone*)
- 20 Routine shopping (*grocery, clothing, convenience store, household maintenance*)
- 21 Shopping for major purchases or specialty items (*appliances, electronics, new vehicle, major household repairs, etc.*)

Recreation / Entertainment / Social / Civic:

- 22 Outdoor recreation (*jogging, biking, walking, playing sports, etc.*)
- 23 Indoor recreation (*gym, yoga, playing sports, etc.*)
- 24 Leisure / Entertainment (*reading, watching TV / movies, playing games, surfing the Internet, spectator sports, etc.*)
- 25 Social (*visiting friends/relatives*)
- 26 Religious or Civic

Other:

- 27 Airport – business
- 28 Airport – personal
- 29 Out of town
- 97 Any other Activity

Time Started Activity: STIME

Universe: All

What time did [you/NAME] start this activity?

Note: Please use military time.

Time Ended Activity: ETIME

Universe: All

What time did [you/NAME] end this activity?

Note: Please use military time.

END OF ACTIVITY ROSTER

Departure Time: DEPTM

Universe: All

IF LAST PLACE OF THE DAY, ENTER 0359. OTHERWISE: What time did [you/NAME] leave for the next place?

Note: Please use military time.

ENTER TIME: _____

Total Number of trips – Household Level: HTRIPS

Universe: All

COMPUTED TOTAL NUMBER OF TRIPS BY HOUSEHOLD ON TRAVEL DAY

Total Number of trips – Person Level: PTRIPS

Universe: All

COMPUTED TOTAL NUMBER OF TRIPS BY PERSON ON TRAVEL DAY

End of Trip Roster

Reason for No Travel: NOGO

Universe: PTRIPS=0

We see that [you, NAME] made no trips, including those for work or school. It would be helpful if you could let us know why no trips were made.

- 1 PERSONALLY SICK
- 2 VACATION OR PERSONAL DAY
- 3 CARETAKING SICK KIDS
- 4 CARETAKING SICK OTHER
- 5 HOME-BOUND ELDERLY OR DISABLED
- 6 WORKED AT HOME FOR PAY
- 7 NOT SCHEDULED TO WORK
- 8 WORKED AROUND HOME (NOT FOR PAY)
- 9 OUT OF AREA
- 10 NO TRANSPORTATION AVAILABLE
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 PREFER NOT TO ANSWER

IF HHSIZ>1 – GO BACK TO <PNAME> FOR NEXT HH MEMBER UNTIL ALL HH MEMBER TRAVEL COLLECTED

IF HHSIZ=1 OR LAST PERSON IN HOUSEHOLD, GO TO CNTV

End of Person Roster

[AT THE END OF SURVEY, CHECK TO SEE IF ALL HH VEHICLES WERE USED. IF NOT:]

Vehicle Used on Travel Day: CNTV

Universe: All

Did anyone drive the [VEHICLE YEAR, MAKE, MODEL] on TRAVEL DAY?

- 1 YES
- 2 NO – Why not? (Please Specify) [O_CNTV]
- 8 DON'T KNOW
- 9 PREFER NOT TO ANSWER

INCEN1

Universe: INCEN=1

In order to thank your household for your contribution to the study, your household has been offered <INAMT>, payable in the form of a check. Checks will be mailed in 8 to 10 weeks. Can you please tell me the full name of an adult who is authorized to receive the incentive check on behalf of your household? This person should be authorized to receive the check on behalf of the household.

ENTER FIRST NAME: <Text Box>

ENTER LAST NAME: <Text Box>

INT99

Universe: All

Thank you for completing the Calgary and Region Travel and Activity Survey. If you have any questions or comments you can reach us at 877-261-4621.

A summary report on the findings of this survey will be available on www.calgary.ca in late 2012.

Appendix E: Interviewer Training Manual

ACRONYMS

This list of acronyms will help clarify the meanings of abbreviated words:

CATI = Computer-Assisted Telephone Interviewing

HH = Household

CARTS = Calgary and Region Travel Survey

RECRUITMENT TRAINING OUTLINE

1. Introductions
2. Client presentation
3. Review of interviewer training manual
4. Review of project web site
5. Review of recruitment program
6. Mock interviews
7. Questions

CALGARY AND REGION TRAVEL SURVEY- PROJECT INFORMATION

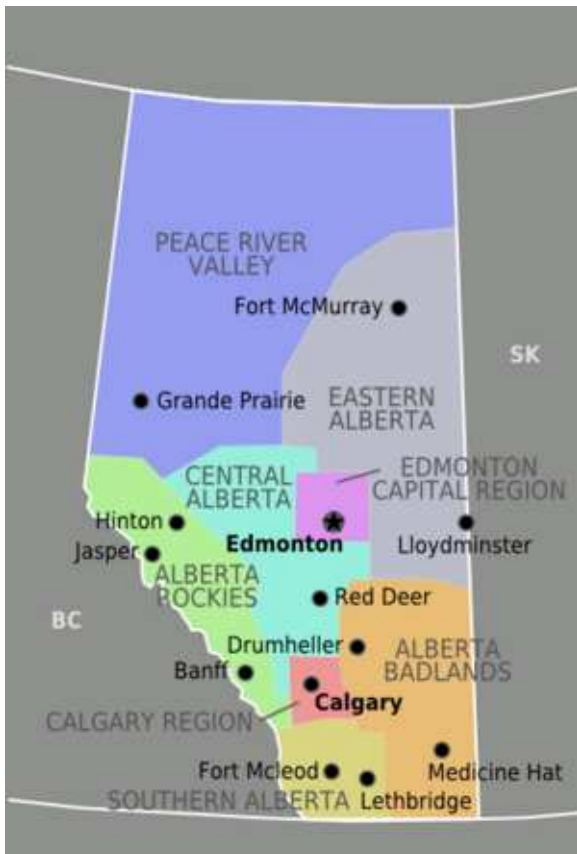
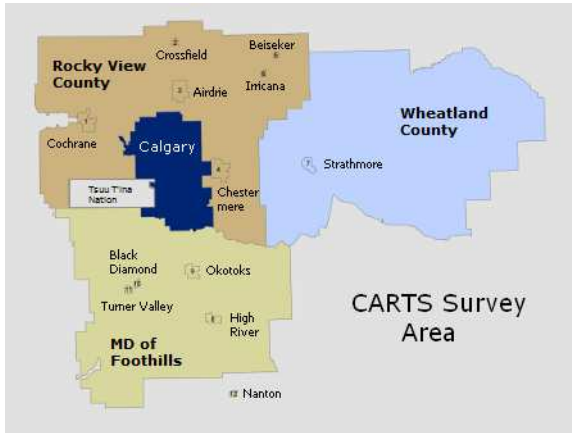
Purpose: The Calgary and Region Travel Activity Survey (CARTAS) is a household travel behavior study that captures travel and activity data from households in the Calgary, Alberta, Canada region. The data collected from participating households will be statistically summarized to describe typical daily activities and the resulting travel patterns. For example, what people do, how they travel, where these trips come from and go to, what methods of transport are used on these trips, at what time of day the trips are made, and so on. This information is vital and will be used to assess the future transportation needs of the region.

Qualifications: Households will be selected for the survey by a random selection process that considers all residential addresses in the study area. All participants in the study will receive an invitation to participate over the mail or telephone. Households are not required to take part; however each household represents many other households, so input is extremely important to the integrity of the study.

Study Area: The study area is comprised of the following geographies:

- Rocky
- View County
- Crossfield
- Beiseker
- Irricana
- Airdrie
- Cochrane
- Diamond
- Chestermere
- Calgary
- Blackfoot

- Okotoks
- Turner
- Valley
- River
- High
- d County
- Foothills
- MD of
- Nanton
- Wheatlan
- Strathm
- ore





Project Dial Code:	2027
CATI Program Name:	http://voxcoweb1/survey/intweb.dll/vcc
WEB Training Program URL:	http://voxcoweb1/survey/intweb.dll/vcc
Time Zones:	Mountain Time Zone (One hour behind Central)
Primary Dialing Hours:	6-10 pm Central
Average Survey Length:	The average REC survey length is estimated at 5-minutes. However, this assumes that 60 percent of all recruits come from CATI and 40 percent from the web. The average CATI survey length will likely be 10 to 15 minutes.
Project Goal	
Language:	English only
Survey Methods:	CATI, Web
Production Coordinator:	Arman Moreno
QC Coordinator:	Scott Brock
Toll Free Project Hotline:	1-877-261-4621

CLIENT INFORMATION

The City of Calgary has contracted with the NuStats team to conduct the Calgary and Region Travel Survey. The City of Calgary partners with regional stakeholders and together they are responsible for ensuring that the regional transportation network is capable of meeting the demands placed on it by regional households, commercial vehicle traffic, and visitors. As such, the data collected in this survey will be used to assess the need for transportation infrastructure improvement. The last time a regional household travel survey was conducted was in 2001.

While it is being funded entirely by the City of Calgary, the project is being supported by the provincial ministry (department) of transportation (Alberta Transportation) and the Calgary Regional Partnership, which is an association of regional communities that works together to make Calgary a more livable place. Our client contact is Kristina Hill, who is employed as a transportation engineer by the City of Calgary.

If a respondent requests to contact someone at the City about the study, they can call 1.403. 268.6402 or email carts@calgary.ca.

PROJECT / PUBLIC WEBSITE

The URL for the web site is www.CARTAS.ca. The website is a valuable and efficient resource for respondent questions and/or concerns regarding travel survey participation. Some key information typically available would be:

- a. What participation involves
- b. Benefits of participation
- c. FAQ's
- d. Contact information (NuStats and City of Calgary)
- e. Survey Privacy
- f. Results/Use of Data
- g. Materials
- h. Access to web recruitment and retrieval

CONFIDENTIALITY

Confidentiality is of the utmost importance for all respondents and clients. NuStats strictly adheres to industry best practices in protecting the privacy of all respondents and clients through various protocols and procedures beginning with confidentiality agreements signed by all interviewers. In terms of alleviating concerns voiced by respondents, interviewers are instructed to respond, "We respect your privacy and promise to protect it. The information your household provides will be kept strictly confidential. Your name and personal information will be separated from your responses for analysis."

THE CARTAS PROCESS

The Travel Survey consists of 6 main stages:

- **Sample Generation** – Sample has been provided to us by the City of Calgary from two separate sample lists. First, the city sample file was pulled from their tax assessment databases and contains street addresses for every residential property in the City of Calgary, including university residences. Second, the surrounding region sample file was pulled from a list service that gathered information from telephone and other public listings. These records were then matched against listed databases. The result is a pilot sample database of listed and unlisted records, including both urban and rural records.
- **Advance Brochure** – Beginning the week of January 2, 2012, respondents will be mailed a brochure explaining the travel survey before we call them. The purpose of this brochure is to give them some information about the survey, and to provide the project URL, in the event that they would like to participate using the online web recruitment tool. All unmatched records will receive the brochure, as this is the only means of contacting them we have. Half of the matched records will be sent an advance brochure, in an attempt to test the efficacy of the brochure in getting respondents to participate. All matched records will be called (unless they complete the online survey before we can make contact with them).
- **Recruitment**–CATI recruitment surveys will be administered by interviewers with respondents via phone, while self-administered options via web will also be available (in fact, we are incentivizing the web with \$25 going to each household that provides their recruitment AND retrieval information via web). Respondents for whom we have a matched telephone number will be called and invited to participate in the household travel survey. Interviewers will provide details regarding the study, and collect basic household demographic information for the household. At the conclusion of the recruitment interview, the interviewer asks the respondent to record their household’s travel for a 24-hour period on a specific day of the week.
- **Mailing Travel Diaries** - Approximately 7-10 days prior to each designated travel day, travel diaries will be mailed to all recruited households. It’s very important that we verify the respondent’s name and address to ensure the packet arrives on time. All household members will then use the diaries to record any travel that occurs for the assigned days.
- **Travel Day Reminder** - The night before the respondent’s travel day, the respondent will be contacted via phone, email or text message to remind them about their travel day and also to confirm that their household travel diaries were received. The respondent will also be given an opportunity to ask any questions they may have about the survey process. Those contacted via text or email will be given contact information they may use to clarify any questions they may have.
- **Retrieval** - *Retrieval begins the day after the assigned travel day, and is entirely passive. As such, there is no CATI retrieval option.* Rather, respondents will be asked to either use the web based retrieval tool to provide the details of their travel day OR mail their diaries back to NuStats, where interviewers will enter their data into the same web based retrieval tool. A completed household is one in which (1) all related household members have

participated, (2) all related household members have provided activities for the full travel period, and (3) all locations have been assigned an XY coordinate and a transportation zone. The City will provide the zonal files to NuStats in a timely manner prior to the start of the pilot. Households with 5 or more members will be considered complete if travel information is retrieved for [N-1] of the members. For all other households, a household will be considered complete only if travel is collected for all members. The exception to this is if all household members are unrelated. In a household of unrelated members, a household is considered complete if travel information is retrieved for the main respondent and as many other members as possible.

EXAMPLE OF ADVANCE BROCHURE (MATCHED)

The pre-notification brochure describes the survey objectives, identifies what they survey entails, provides a project website address, provides a toll free number, and specifies a personal identification number (PIN) that the respondent may use to access an Internet version of the recruitment and retrieval questionnaires. See example below:

Your Participation Is Important!

Results from the CARTS will help ensure future transportation projects reflect what your community needs and that your money is spent wisely. Your input will help us develop plans for transportation improvements that affect mobility, access to jobs, and air quality.
This is your opportunity to help!

How were results from the 2001 CARTS used?

- ▶ **The Transportation Infrastructure Investment Program (TIIP)**
The TIIP identifies and prioritizes transportation investments. The goal is to improve mobility in the region by refining existing infrastructure and providing more transportation options.
- ▶ **Stoney Trail and the East Freeway**
This project, scheduled for completion in 2013, will improve travel time to regional destinations and reduce congestion.
- ▶ **Glenmore Trail / Elbow Drive / 5 ST Interchange Detour Analysis**
This transportation study allowed the City of Calgary to plan an effective construction detour and minimize delays.

CALGARY AND REGION TRAVEL SURVEY
6/6 Apexide-Superior Printing
3536-27th Street N.E.
Calgary, Alberta T1Y 5E2

Survey conducted by PTV NuStats on behalf of:
THE CITY OF CALGARY TRANSPORTATION

In partnership with:
CALGARY REGIONAL PARTNERSHIP
Government of Alberta Transportation

Survey conducted by PTV NuStats on behalf of:
THE CITY OF CALGARY TRANSPORTATION

In partnership with:
CALGARY REGIONAL PARTNERSHIP
Government of Alberta Transportation

Pin: <<BARSAMPN>>
<<SAMPN>><<REELCATE>>
PIN#: <<PINNO>>

<<FIRSTNAME>> <<LASTNAME>>
<<ADDRESS>>
<<CITY>>, <<PROVINCE>> <<POSTAL_CODE>>

What is the Calgary and Region Travel Survey?

The Calgary and Region Travel Survey (CARTS) collects information from thousands of participating households in the region about:

- ▶ WHERE people go
- ▶ WHEN they go
- ▶ HOW they get where they need to go
- ▶ WHAT they do when they get there

Why? To help transportation planners better understand how well our sidewalks, bikeways, transit systems, and roads are functioning and what improvements are necessary.

Most importantly, your responses will be used to help plan for these future transportation system improvements!



Confidentiality

This personal information is being collected for land use and transportation planning purposes for the Transportation Department of City of Calgary, under the authority of Section 33(1) of the Alberta Freedom of Information and Protection of Privacy Act (FOIP/PIA). The Survey Firm, PTV NuStats, is acting on behalf of the City of Calgary to collect and process the data from this survey and must adhere to the provisions of the FOIP Act. All information, related to personal identity, travel and activities, will be handled in accordance with the FOIP Act. If you have questions about the collection and use of this information, contact the Calgary and Region Travel Survey Project Office at 403-268-6402.

Earn \$25 if you participate ONLINE!

How do you participate? Follow these 3 easy steps...

Step 1

Provide Household Information Online or by Phone

Participate in a survey about your household in ONE of the following ways:

- Online: Go to www.CalgaryAndRegionTravelSurvey.ca. Enter the PIN# located on the mailing label of this brochure.
- Phone: Call us toll-free at 1-888-222-7734, or wait for a professional interviewer from PTV NuStats to call in the next few days.



The survey collects information about your household such as the number of household members, their ages, where they work or go to school, and the number and types of vehicles you may own. **We collect this information because it helps ensure that we get input from all different types of households in the region.**

Step 2

Record Your Travel and Activities for One Day

We will mail travel diaries for all household members along with instructions on how to use them. Each person should use a travel diary to record all the places they visit and their activities at each place on an assigned day. We ask that a parent or guardian fill out the travel diaries for children under age 17. Your household may also be asked to participate in a GPS portion of the survey.



Step 3

Report Your Travel Information Online or by Mail

After your household's travel day, report your travel information online at www.CalgaryAndRegionTravelSurvey.ca, or mail back your completed travel diaries in the postage paid envelope provided in your packet.



Earn \$25 if everyone in your household completes Steps 1 & 3 ONLINE!

Want to know more about how to participate?

Contact Chris Simek, PTV NuStats, toll-free
1-800-447-8287, ext. 2244, or csimek@nustats.com

Want to know how your travel information will be used?

Contact the City of Calgary
1-403-268-6402, or carts@calgary.ca

For more information, call the toll-free survey hotline: 1-888-222-7734
or visit the survey website: www.CalgaryAndRegionTravelSurvey.ca

FREQUENTLY ASKED QUESTIONS (FAQ)

What is the Calgary and Region Travel Activity Survey (CARTAS)?

The CARTAS is an in-depth study of the region's household travel and activity patterns. In fall of 2011 and spring 2012, The City of Calgary and its partner agencies will be asking more than 20,000 households to identify where and how they traveled on a specific, designated travel day (24 hours). In order to ensure a sample that is representative of the regional population, each household will be asked a series of detailed questions about their socioeconomic characteristics and access to transportation. When completed, the data will be used to estimate how much travel is generated by all regional households.

Who is sponsoring the survey?

The [City of Calgary Transportation Forecasting Division](#) is responsible for providing travel forecasting analysis to support planning in the City of Calgary and the region. To do this we plan, design, build, maintain transportation models and operate them to deliver forecasting analysis to internal and external clients.

[Alberta Transportation](#) contributes to Alberta's prosperity and quality of life by providing and supporting safe, innovative and sustainable transportation system infrastructure.

[Calgary Regional Partnership](#) (CRP) is a collaboration of 15 municipalities that represent a new

approach to solving region issues through inter-municipal co-operation which allows communities to work together to achieve a healthy environment, enriched communities, sustainable infrastructure and a prosperous economy.

[NuStats](#) is a nationally recognized survey expert in travel behavior studies. Since 1984, PTV NuStats has conducted more than 400 surveys across the United States and abroad. The firm was brought on to administer the Regional Travel Survey.

What can I expect?

The first step is a brief introductory interview, in which your household is invited to participate in the survey and, if you agree to participate, we collect some information about all household members. At the end of this interview, we'll assign your household a travel day. On this travel day, we ask that you record all the travel and activities performed by all members of your household for a 24-hour period (from 4 am until 4 am).

Once we assign your household a valid travel day, we will mail each person in your household a personalized travel diary. Each person should use the diary to record all the places to which they travel and the activities they performed at each place. Diaries should be self-completed by all persons age 17 and older. We ask that parents fill out the diaries for all children under age 17.

The day before your travel day, you will receive a call, text message or email reminding you of your upcoming travel day.

Following your travel day, we ask that your household provide their travel details to us. If the diaries were used to record exactly where people went, this interview is quick!

How can I provide you my information?

We realize that everyone is busy, and that your time is important to you. In order to be respectful of your daily schedules, we have three ways that you can provide us the information: web, phone and mail.

You can participate in the introductory interview...

- Via web by navigating to the [Invited to Join](#) page
- Via phone by calling we toll free at 1-877-261-4621 and initiating a survey with one of our trained survey representatives. For those of you for whom we have a listed landline phone number, we will be initiating the survey process by calling you shortly after you receive the brochure

You can provide us your travel details...

- Via web by navigating to the [Report Travel](#) page,
- Via mail by mailing your completed travel diaries to PTV NuStats using the postage-paid envelope we provide to you in the diary packet.

Why should I participate?

Your local and provincial government continually works to provide a safe, efficient transportation system that supports economic opportunity and livable communities. To help best meet the transportation needs in south central Alberta, we're asking you to help us by participating in our travel survey. If everyone in your household can tell us about their daily travel and activities, it will help us plan future transportation improvements that will best serve your needs.

Making sure that your transportation needs are met is a top priority. It's important that everyone's travel habits are included as we develop transportation solutions for the future whether you travel a lot or a little AND regardless of travel mode.

Why should I bother?

You have an opportunity to help your community! Surveys of this type are usually not taken more than once in a decade (or even longer). There are approximately half a million households in the region. If you participate, your household will be one of about 11,000 selected to represent all the rest. When you participate, you make sure that your travel needs and behavior, and those of households like yours, are included. This information helps build a fuller, more accurate picture of local and provincial transportation needs, and ensures that public funds for improvements are spent where they are needed most.

Local and provincial decision-makers require accurate, updated travel information to make the best recommendations for transportation improvements. Your information will be used to help manage the regional transportation system efficiently and effectively, and will enable the region to get the most value out of future transportation investments. Making wise transportation investments can provide better access to jobs and housing, reduce traffic congestion, and increase mobility - all of which can improve the region's economy, environment, and quality of life.

If you have ever wondered how you might influence that traffic you sit in daily, this is your chance to play a part in improving the situation!

The design, construction, and maintenance of sidewalks, bikeways, public transit, and roads cost taxpayers a lot of money. CARTAS collects data about where and how people in the region travel for work, school, recreation, shopping, and other purposes to help define transportation needs. The results are used to plan transportation improvements and other projects that affect mobility, access to jobs, air quality, and quality of life.

Who is being asked to participate in the study?

Participants in the survey will be randomly selected from a list of household addresses to ensure participation from across the region and from different community types. Household addresses with listed phone numbers will be contacted by phone. Those households without a listed phone (including cell phone only households) will be contacted by mail.

How was my household selected?

A small number of households in the region were randomly selected through a statistical process, which might include unlisted telephone numbers as well. Because survey organizations are exempt from Do-Not-Call lists, everyone in your area has an equal chance of being selected to participate in our survey.

What is a household?

A household consists of the entire group of persons who live in one dwelling unit and share a kitchen.

Why do you need to know information about my household?

The number, timing and type of trips made are affected by the characteristics of the person and the household they live in. A person's age, gender, employment, number of vehicles and household income all affect his/her travel. This information is also needed to measure how different sectors of the population in Calgary are served by the transportation system.

Who is a visitor?

A visitor is an individual who lives outside the study area and who is present in your household at 4:00 a.m. on your travel day.

Can I participate even if I don't get a brochure?

Due to the need to gather statistically accurate information that represents the study area, we can only include randomly chosen households. To see if your household is one of the randomly selected participants, please call 1-877-261-4621 or visit the Invited to Join page.

What will be done with the information collected from the survey?

The data collected from participating households will be statistically summarized to describe a variety of typical daily activities and resulting travel patterns. For example, what general activities do people engage in, what means of travel do they use to get to these activities, where are these trips coming from and going to, to what extent are the trips linked together, at what time of day are the trips made, and so on.

How will local government use my information?

This information is vital to forecasting future travel patterns and needs at the regional and local levels. All kinds of travel are considered, including walking, biking, transit and driving.

The information gathered from this survey will be used to update the travel behavior information in the Calgary Regional Transportation Model (RTM), a state-of-practice travel demand forecasting model that provides information to support strategic, policy, capital funding, and operational studies. The model is a key transportation planning tool and is critical to operations and decision-making processes. To retain its value, the travel behaviour information in the model requires periodic updating.

Your responses in this survey are combined with those of all other respondents and, together, provide the information needed to ensure the RTM can continue to support decisions made by transportation planners in Calgary and the Region.

Some examples of how the 2001 Regional Transportation Model and the 2001 travel survey data were used include, but are not limited to, the following:

Transportation Infrastructure Investment Plan

The Transportation Infrastructure Investment Plan (TIIP) defines the priority and timing of infrastructure projects and programs for the Transportation Department. This program of system improvements defines the overall transportation capital investment plan for a ten year period and provides information to Council to prepare capital budgets for each three year business planning cycle.

The Regional Transportation Model provides key inputs into the project evaluation process and helps assess the benefits and timing of each improvement.

Design of Stoney Trail and the East Freeway

The RTM was used to produce an estimate of design volumes that were used by Alberta Transportation and their consultants to determine the design of Stoney Trail and the East Freeway. This included determining the configuration and spacing of interchanges, the size of the roadway, and staging options for construction.

Land Use Planning Studies to Evaluate the Development of Newly Annexed Land

Land Use Planning studies evaluate the impact of proposed development on public systems: including open space, utilities and transport systems. The RTM provides information about the impact these developments have on all aspects of the transportation system including walk/bike facilities, and transit and road networks. The purpose of these studies, from a transportation perspective, is to determine how new developments will affect the existing transportation system and what improvements are needed to support the development.

Design Analysis of the Glenmore Trail / Elbow Drive / 5 ST Interchange and Detour Analysis

The Glenmore Trail / Elbow Drive / 5 Street Interchange Project (GE5) was a significant infrastructure project and the potential for transportation delays during construction were significant. The RTM and micro simulation models were used to develop a comprehensive, three phase detour strategy that, in conjunction with communication strategy, minimized traveler delay due to construction.

How long will the survey take?

While this is an extensive survey, we have worked very hard to make every minute count! The initial interview to screen a household and collect demographic data usually takes between 5 and 10 minutes and will depend on the number of household members and the number of vehicles you own. If you agree to participate, you will then be asked to agree to an assigned travel day. If you agree with that date or select another day with the interviewer, then PTV NuStats will send your household a travel diary for each household member and instructions on how to fill out the diary on your travel

day.

Each household will receive a reminder message the day before the scheduled travel day to help remind the household of the travel day and to answer any questions.

Your travel day will begin at 4:00 AM and last for 24 hours. Don't worry; we don't expect anyone to get up at 4:00 AM to fill out the diary! You will be asked to simply record all activities as they would normally occur throughout the day. If you record as you activities and travel throughout the day, the recording time will be minimal. If you record all your activities at the end of the day, it may take additional time to recall each and every activity.

The day after the travel day, we ask that you mail us your diaries or provide your travel information [online](#).

What is meant by “travel” and “activity?”

For this survey, travel means going from one place to another for any reason. Activities are the general categories of things you're doing, and the reason for your travel. These could be going to work, shopping, visiting friends, attending an event, or even just going for a walk in the neighborhood

Why do you want to know about my activities?

When transportation planners can better understand how people's activities are arranged and how travel plans are made, it helps them to make better recommendations for improvements that could ultimately make it easier for you to get where you're going.

Why do you need to know when and where each activity took place?

We need to know the times of day and locations to determine the uses of the transportation system in "peak" and "off peak" periods of demand. This allows us to plan for future modifications and improvements to the system.

Why do you need to know the types of jobs I work at?

A significant portion of travel is made by people going to and from work and by people at work. We want to understand what types of jobs generate travel.

Why do you need to know where our children are going to school?

A significant portion of travel is generated by children going to and from school. We want to understand the transportation needs of school children as well as adults.

Why is the diary so important?

Past experience has shown that if people do not use a diary to record their travel and activities, they forget key details about what they've done and the places they've been. It is really important that all

trips, even short stops in the evening, and all activities no matter how routine are captured in the survey.

What do you mean by a trip?

A trip is an activity that moves you from one location to another. Record a trip when you change from one location to another. For example, if you leave one building and walk across the street into a different building, you should record this as a trip. If, however, you go from the 25th floor of a building or the 2nd floor of the same building, you are at the same location, and do not need to record this as a trip.

How much detail is needed on each place I visit?

Detailed location information is an important part of analyzing travel patterns. Providing detailed information such as the bus stop/train station, street address, town, cross street and nearby landmark will enable us to see which streets, highways, and transit services are being used. When you visit a place and record it in your travel diary, providing as much detail as possible about where the place is will reduce the amount of information that we would need to clarify with you, and ultimately make the effort less time-consuming for everyone (including you!).

Will any of the information collected about my travel/activities be used for environmental purposes?

Yes. The survey contains questions about the vehicle(s) your household has and how those vehicles are used during the travel period. It is important to know what type of vehicles are being used, which helps to estimate fuel consumption and greenhouse gas emissions resulting from daily travel patterns. Improving air quality by reducing vehicle emissions is an important part of transportation planning and decision-making. The survey will also ask about your walking or bicycling to/from various locations and activities. This information may help to improve infrastructure that would support more non-motorized trips to reduce carbon emissions and the need for petroleum-based transportation.

Will information from the survey be available to the public?

No, your specific activities and travel patterns will remain strictly confidential, as will any contact information (your name, phone number, email address, etc.). Key findings about travel patterns drawn from the survey will be published following completion and analysis of the survey. This information will be general in nature and will relate to our state and its regional transportation needs.

What if I don't feel comfortable answering some of the questions?

We promise strict confidentiality of all the information collected but, of course, you may decline to answer any question. Your privacy will be respected. However, we need all the information for your household; if you choose not to answer some of the question, it will disqualify your household from the survey and any incentives.

What if out-of-the-ordinary events on my travel day change my normal travel patterns?

On any given day, many households across the region have a "non-ordinary" travel day. But collectively, all these variations -- less travel, more travel, and different travel -- have a major effect on the overall travel patterns generated by thousands of households. So even if the assigned travel period turns out to be out-of-the-ordinary for you, or for anyone in your family, it is important that you still record your travel in the travel diaries for the assigned period. In statistical terms, accounting for these variations produces survey results that better represent the true travel picture overall.

What if I traveled out of the region on my travel day?

If you travel out of the region during your assigned travel period, you will be asked to tell us the details of all your travel and activities completed within the study area and where you first went when you left the study area.

What if I don't drive a car?

We are interested in all types of travel -- by train, bus, walking, bicycle, car or truck -- any means you use to get around.

What if I don't travel very much?

Some people feel that just because all they did during their "travel period" was visit a friend or go to the post office, this information would not be important. In fact, these people, as well as those who don't travel at all during their travel period, are just as important as someone who did. Remember that the purpose of the survey is to get a complete picture of travel patterns throughout the study area. So during your travel period, we'd like to know even if you didn't travel at all.

ONE 24 HR DAY TRAVEL DIARY

(Diary example will be provided to the team)

Personalized travel diary logs are mailed to each household member. Diaries are to be received prior to the assigned travel date. A reminder call is conducted prior to the assigned travel date to ensure the diary was received, remind the respondent of the assigned travel date, and to answer any questions the respondent may have⁶.

- Respondents are requested to use the travel diary to record their trips.
- Interviewers confirm the spelling of first and last name in the recruitment interview to ensure materials are addressed to the referenced person within the household.
- The diary packet will be addressed to the head of the household, but personalized diaries are provided for each household member for their assigned travel date. First and last names are preferred, but initials can be used if preferred so that we can ensure the diaries are labeled for each household member.
- Interviewers confirm the mailing address to ensure the travel diary arrives at the correct location and is received before the assigned travel day.
- Diary instructions will explain in depth how the diaries are to be used to record information about all the places visited on respondents' assigned travel day. They will specify the need to record all places visited, the type of place, the times of arrivals and departures, the mode of travel to each place, other travel information, and activities⁷ at each place.
- The assignment date for travel, also known as the "ASSN" or cohort will be documented on the diary as a reminder of the assigned travel date. For this project we have both week and weekend travel days.
- Examples are also provided in the diary.
- Diaries can be printed through the project website.

⁶ In the event the respondent chooses to receive an email or text message reminder, they will be given a phone number they can call to answer any questions they may have.

⁷ This survey is unique in that, for each location, we will ask for up to five activities (with start and end time).

CATI PROGRAM REVIEW

The CATI program review involves hands-on training with the program and practice to ensure that interviews are conducted within the strict design structure intended. Interviewers will run through the program to get practice and familiarize themselves with the introduction, each question, and how the interview design flows. Role- playing will involve different household scenarios and different demographics to simulate a “live” dialing experience to the extent possible.

Log on procedures – Each interviewer will be assigned an interviewer identity number to access the program. Each call record can be tracked to the interviewer for review or past call attempts.

Introduction script – Each interviewer will spend time reviewing the intro and working on a professional delivery to gain cooperation.

Explanation of each question and choices follows- Reading verbatim is very important and it is needed to ensure the respondent hears and understands each question in an unbiased manner.

INTRODUCTION TRAINING

Protocols for reading the introduction:

- Interviewers are expected to be professional at all times
- Interviewers should not sound monotone
- Interviewers should read in a conversational way
- Interviewers should project a positive attitude
- Interviewers should read at a steady pace but not too quickly; always be attentive to respondent reaction and adjust talking speed as appropriate

Each interviewer is evaluated on how they read each introduction based on the above criteria. A professional delivery approach for the main introduction and any explanation screen is required. The following introduction screens are examples of where it is vital to follow the protocols for reading the introduction.

INTRO

Hi, this is _____ with the Calgary and Region Travel and Activity Survey conducted on behalf of the City of Calgary. Am I speaking to an adult member of the household, age 18 or older?

IF NEEDED: I'm calling on behalf of the Calgary Regional Partnership about improving transportation in your area.

REFUSAL CONVERSION CHEAT SHEET

Due to the nature of this recruitment effort and the tendency for potential respondents to often provide initial, typical reasons not to participate, interviewers are expected to make consistent but professional efforts to overcome initial soft refusals. Interviewers will focus on quickly educating respondents on the purpose and benefits of participation in the study, as well as on alleviating any concerns or fears that potential respondents may have. Remaining professional at all times, as well

as friendly and courteous, are all stressed as part of this crucial training. Interviewers are always taught to be tactful, pleasant, sincere, and well prepared. Interviewers are expected to attempt to find out the reason for the refusal and work with it from that aspect. Some of the most common refusals are listed below with some appropriate responses:

RECRUITMENT

Not interested

Your participation is important because it will help lead to transportation improvements that will affect your community for the next 10-20 years.

How long is it going to take? I don't have time.

This will only take 10-15 minutes depending on your answers. If you don't have the time at this moment, we can set up a callback at a time that is most convenient for you.

I don't travel often. I don't ever leave my house.

Although you may not travel often, trips such as, walking to your neighbors, being a passenger in a vehicle going to a grocery store or even just walking the dog around the area will represent others that do little to no travel as well.

I don't use public transportation.

Well, that is definitely fine; this travel survey is for all types of transportation that is done in your area. This includes walking, biking, driving, and being a passenger in vehicle or on public transportation.

I'm on the do-not-call list; take me off your list.

I do apologize for this inconvenience, but the do-not-call list does not pertain to us. We are not soliciting or selling anything. This is a call asking for your participation in this important travel survey that will improve your community.

How did you get my number?

Matched: your number was randomly selected from a local directory to ensure every household has an equal opportunity for participation in this important study. We were contracted based on our expertise in travel survey research.

Unmatched: Your number was randomly generated using local area codes.

We are calling from PTV NuStats. We were contracted based on our expertise in travel survey research.

I'm happy with my current transportation.

Even if you are happy with your current transportation, your feedback is important. It will be used to continue to make transportation choices that will benefit your community.

Who's sponsoring this study? How do I know the validity of this survey?

This survey is being sponsored by the City of Calgary which is responsible for transportation planning in your community. If you need more information you can call our hotline number or visit our website.

RETRIEVAL

am not interested/don't feel their info is valuable.

Sir/Ma'am, we really need your help. By reporting your travel for your assigned day, it will help lead to future transportation improvements. We would like to represent all households within your community so that travel improvements in your area can be reflected.

I don't have time to do it/don't want to be called again.

Sir/Ma'am, when will be better time to call you to collect the information?

(If doesn't have the time)-By the way if time is a factor, we have options of mailing back your diaries to us, or you can enter in your information through the website that is printed on the log.

I never received the diaries.

(If the travel day was yesterday) Sir/Ma'am, do you recall your travel from yesterday? We can walk you through the questions over the phone if you can recall the places you visited.

(If cannot recall travel and have access to Internet) You can also download your diaries from the project website.

(If cannot recall travel and do not have access to Internet) We can remail another set of diaries for a different travel day. Let me verify your address so that it will be mailed out correctly.

I didn't travel that day. I don't want to do it.

Sir/Ma'am, if you didn't travel that day, we can still collect your information we just have a couple of questions for you.

Sir/Ma'am, by reporting your travel on your assigned day, you can help improve transportation in your area.

I will do the diaries, but my spouse and children will not participate.

Sir/Ma'am, can you talk to the other members in your household and let them know the importance of the study? We want to get a representative sample of all households in the community. I can give you the hotline number and website for them to refer to if they have any concerns.

I received the materials, but it was too much to fill out the diaries.

Sir/Ma'am, do you recall your travel from assigned travel day? We can walk you through the questions over the phone if you can recall the places you visited.

(If did complete the diaries) You can also send back the diaries in the postage paid envelope provided with the logs or you can complete your travel information online.

I already completed the survey.

Sir/Ma'am, we conducted a telephone interview to collect household information before sending out the diaries. Have you completed the travel diaries?

I can tell you what I did yesterday (or on a typical day).

Sir/Ma'am, we would like to collect the travel for your assigned day. If you can recall the places you visited on your assigned travel day, we can walk through the questions over the phone. If that was not done, we can reschedule the household for another date with the same day of the week.

I don't remember agreeing to participate in this study.

Sir/Ma'am, your information will help improve transportation in your area and will represent all households within your community. We would like to collect your travel information for a 24-hour period that you were assigned. Is it possible to remember the places you traveled to?

I don't travel much/don't drive/use public transportation.

Sir/Ma'am, we want to collect all types of travel, even if you walk down the street to the store or ride your bike for travel. We want to represent all types of travel for this study.

Why do I need to give you my travel information?

Sir/Ma'am, by giving us your travel information, we can analyze the areas you are traveling to the most in order to make future transportation improvements. We want to get a representative sample of all households in your area that do travel. We want to collect information from households that travel by car, transit, and even walking or biking.

(If they don't want to give their information over the phone) You can send back the diaries in the postage paid envelope provided with the logs or you can complete your travel information online.

Is my information going to remain confidential? I don't want anyone to know where I travel throughout the day.

Sir/Ma'am, all your information will be used for research purposes only and remain confidential. The travel information you provide will be used to make transportation decisions in your area for creating future roads, sidewalks, and bike lanes. All households have different travel patterns and information for you and others will help make those decisions.

PROTOCOLS FOR HANDLING DIFFICULT RESPONDENTS

How do we handle a call where the Respondent is insecure and wants more information about the study?

- 1) Offer the project website for additional information.
www.CARTAS.ca
- 2) Offer the City of Calgary
1-403-268-6402 or carts@calgary.ca
- 3) Offer NuStats Supervisor assistance/ Project hotline phone number.
1-877-261-4621
- 4) Offer NuStats project manager contact.
Chris Simek, 1-800-447-8287 ext 2244 (M-F 9 am to 6 pm Eastern)

How should you handle a respondent that is difficult to speak with, even after you provide additional information as noted above, or who asks to speak with someone else?

Interviewers can ask for a Supervisor to take over the call and assist the respondent with any further questions. If respondents do not want to speak with field supervisors then the next step is to refer them to NuStats' project manager, Chris Simek. The final reference would be to the client contact. In addition, the website will be referenced so that the respondent can get some additional information about the study.

How should you handle a respondent that only wishes to speak with the client?

Suggested Script:

"You may contact the City of Calgary through email: carts@calgary.ca. And if you need additional information about the study to make a decision in terms of participating, we have a website that you can go to www.CARTAS.ca."

Interviewer Notes:

Detailed interviewer notes will be documented on the call record in situations where the respondent is very difficult and wants to issue out a complaint about the study or receiving a call.

INCENTIVES

We are offering a \$25 cash incentive to every household that completes both the recruitment and retrieval portion of the study via the web.

RETRIEVAL

The Calgary and Region Travel Survey is unique in that retrieval is being conducted completely by passive methods. That is to say, there are currently no plans for conducting CATI retrieval. Rather, we are relying on the respondents to provide us their travel data either by mailback or web. There may be a need to contact some of the households via telephone to verify the information they have provided to us, but we expect this will be very light dialing.

As such, it is IMPERATIVE that the respondents be made aware of the importance of this study, and to what extent we are relying on them for their participation. We need hard recruits that are aware of these expectations and are committed to participating in the study. As an interviewer, you play a vital role in the success of this study, by being a survey ambassador and convincing households that their information is vital and that, by participating, they are making the region a better place to live and work!

TRIPBUILDER

TripBuilder is our web-based retrieval software designed to map all locations visited and capture details about each location. The components and basic structure includes:

Trip Summary: (all places)

- Location name associated with each visited place
- Mode- how they traveled there
- Arrival time
- Departure time
- Duration in minutes- how much time the person spent at the place

Location Editing Functions:

- Is it a common location- records and saves locations that are common for the respondent includes work, volunteer, and school.
- Previously visited locations- records and save places previously visited in the case it is needed for a future place or for another respondent.
- Location Name- allows entry for the name of the location

- Address or cross street- allows entry of an address or cross streets.
- Search- provides results for addresses or cross streets entered

Place Editing Functions:

- Insert Before- inserts a trip before a place in the case the respondent forgot to report
- Insert After- inserts a trip after a place in the case the respondent forgot to report
- Add New Place- adds a new place to the bottom of the list
- Remove Place- deletes a place from the list
- Search- Allows you to see results of the address, cross streets or POI looks up for visited place
- Edit location- Allows you to update the place name, address, or cross streets
- Previous Place- allows you to view the previous place details
- Next Place- allows you to view the next place that was entered
- Save Changes- Saves edits done to the current place back to the server, only occurs if information passes all validation checks
- Add New Location- Adds a new location to the household that can be associated with visited places.
- Undo- allows you to erase the last change made
- Redo- allows you to redo the last undo operation
- Done- allows you to submit all recorded places

Map Functions:

- Z
oom All- allows you to view all recorded places
- Zoom to Place- allows you to view the currently selected place
- Set Location- allows you to set the coordinates of the location associated with the currently selected place on the map
- Pan- allows you to maneuver the map left, right, up or down
- +, - allows you to zoom in or zoom out

DIARY EXAMPLE

Respondents have the option of mailing in their travel information, i.e., their diaries. In addition to informing the respondent how to provide their travel information and diary instructions, the diaries collect the following information for each place:

Appendix F: Final Data Dictionary

Note:

[ADMIN] = administrative variables

[COMP] = computed variables

[RECR] = data was obtained in Recruitment

[RET] = data was obtained in Retrieval

[TB] = Data Obtained in TripBuilder

Household File

<u>Variable</u>	<u>Label</u>
SAMPN	Sample Number [ADMIN]
STYPE	Sample Type [ADMIN] 1 Urban Matched 2 Urban Unmatched 3 Region Matched 4 University Unmatched 5 Suspect Commercial Matched 6 Suspect Commercial Unmatched
ADVLT	Received Advance Brochure [REC] 1 YES 2 NO 8 DON'T KNOW 9 REFUSED
RECMODE	Recruitment Mode [COMP] 1 CATI 2 WEB
RETMODE	Retrieval Mode [COMP] 1 CATI

- 2 WEB
- 3 MAIL

HHSIZ HH Size [REC]
RANGE: 1~15

HHVIS People Visiting, from Out of Town, on Travel Day [REC]
RANGE: 0~8
98 DON'T KNOW
99 REFUSED

DIARY The number of diaries to be sent [REC]

RESTY Residence Type [REC]
1 Single-family detached house
2 Duplex / Triplex / Fourplex
3 Row House
4 Apartment Building that has 5 or more stories
5 Apartment building that has fewer than 5 stories
6 Mobile home / Manufactured Home / RV / House Boat
7 Rooming House / Collective Residence / Dormitory
97 Other, SPECIFY
99 REFUSED

O_RESTY [RESTY=97] Residence Type – Other [REC]

OWN Home Ownership Status [REC]
1 Rent
2 Own/Buying (Paying off Mortgage)
7 Other, SPECIFY
9 REFUSED

O_OWN [OWN=7] Home Ownership Status – Other [REC]

SQRFT Approximate Size of Home [REC]
1 0-1,000 square feet [0-93 square meters]
2 1,000-1,500 square feet [93-139 square meters]
3 1,500-2,000 square feet [139-186 square meters]
4 2,000-3,000 square feet [186-279 square meters]
5 3,000 square feet or more [279 square meters or more]
9 Refused

RMS Number of Rooms [REC]
RANGE: 1~97
98 DON'T KNOW
99 REFUSED

HHVEH HH Vehicles [REC]
RANGE: 0~15

INCOM HH Income [REC]
1 Less than \$15,000
2 \$15,000-\$29,999
3 \$30,000-\$49,999
4 \$50,000-\$74,999
5 \$75,000-\$99,999
6 \$100,000-\$149,999
7 \$150,000-\$199,999
8 \$200,000 or more
99 DON'T KNOW/REFUSED

VCTY [HHVIS > 0] Where Visitors are From [REC]
7 Other, Specify
8 DON'T KNOW
9 REFUSED

O_VCTY [VCTY=7] Where Visitors are From – Other [REC]

LANG	Primary Language Spoken at Home [REC]
1	English
2	Cantonese / Chinese
3	French
4	Punjabi
5	Spanish
6	Vietnamese
7	Other
8	DON'T KNOW
9	REFUSED

ASSN	Assignment number [REC]
11434	Tuesday, November 29, 2011
11435	Wednesday, November 30, 2011
12538	Tuesday, February 07, 2012
12539	Wednesday, February 08, 2012
12540	Thursday, February 09, 2012
12541	Friday, February 10, 2012
12542	Saturday, February 11, 2012
12543	Sunday, February 12, 2012
12544	Monday, February 13, 2012
12545	Tuesday, February 14, 2012
12546	Wednesday, February 15, 2012
12547	Thursday, February 16, 2012
12548	Friday, February 17, 2012
12549	Saturday, February 18, 2012
12550	Sunday, February 19, 2012
12552	Tuesday, February 21, 2012
12553	Wednesday, February 22, 2012
12554	Thursday, February 23, 2012
12555	Friday, February 24, 2012
12556	Saturday, February 25, 2012
12557	Sunday, February 26, 2012

12558 Monday, February 27, 2012
12559 Tuesday, February 28, 2012
12560 Wednesday, February 29, 2012
12561 Thursday, March 01, 2012
12562 Friday, March 02, 2012
12563 Saturday, March 03, 2012
12564 Sunday, March 04, 2012
12565 Monday, March 05, 2012
12566 Tuesday, March 06, 2012
12567 Wednesday, March 07, 2012
12568 Thursday, March 08, 2012
12569 Friday, March 09, 2012
12570 Saturday, March 10, 2012
12571 Sunday, March 11, 2012
12572 Monday, March 12, 2012
12573 Tuesday, March 13, 2012
12574 Wednesday, March 14, 2012
12575 Thursday, March 15, 2012
12576 Friday, March 16, 2012
12577 Saturday, March 17, 2012
12578 Sunday, March 18, 2012
12579 Monday, March 19, 2012
12580 Tuesday, March 20, 2012
12581 Wednesday, March 21, 2012
12582 Thursday, March 22, 2012
12583 Friday, March 23, 2012
12584 Saturday, March 24, 2012
12585 Sunday, March 25, 2012
12586 Monday, March 26, 2012
12587 Tuesday, March 27, 2012
12588 Wednesday, March 28, 2012
12589 Thursday, March 29, 2012
12590 Friday, March 30, 2012
12591 Saturday, March 31, 2012
12592 Sunday, April 01, 2012
12593 Monday, April 02, 2012

12594 Tuesday, April 03, 2012
12595 Wednesday, April 04, 2012
12596 Thursday, April 05, 2012
12600 Monday, April 09, 2012
12601 Tuesday, April 10, 2012
12602 Wednesday, April 11, 2012
12603 Thursday, April 12, 2012
12604 Friday, April 13, 2012
12605 Saturday, April 14, 2012
12606 Sunday, April 15, 2012
12607 Monday, April 16, 2012
12608 Tuesday, April 17, 2012
12609 Wednesday, April 18, 2012
12610 Thursday, April 19, 2012
12611 Friday, April 20, 2012
12612 Saturday, April 21, 2012
12613 Sunday, April 22, 2012
12614 Monday, April 23, 2012
12615 Tuesday, April 24, 2012
12616 Wednesday, April 25, 2012
12617 Thursday, April 26, 2012
12618 Friday, April 27, 2012
12619 Saturday, April 28, 2012
12620 Sunday, April 29, 2012
12621 Monday, April 30, 2012
12622 Tuesday, May 01, 2012
12623 Wednesday, May 02, 2012
12624 Thursday, May 03, 2012
12625 Friday, May 04, 2012
12626 Saturday, May 05, 2012
12627 Sunday, May 06, 2012
12628 Monday, May 07, 2012
12629 Tuesday, May 08, 2012
12630 Wednesday, May 09, 2012
12631 Thursday, May 10, 2012
12632 Friday, May 11, 2012

12633	Saturday, May 12, 2012
12634	Sunday, May 13, 2012
12635	Monday, May 14, 2012
12636	Tuesday, May 15, 2012
12637	Wednesday, May 16, 2012

DOW	Day of week [COMP]
	1 Monday
	2 Tuesday
	3 Wednesday
	4 Thursday
	5 Friday
	6 Saturday
	7 Sunday
HTRIPS	Total Number of trips [COMP – Count of Places visited by household where PLANO>1]
HHLIC	Number of household driver license holders [COMP – Count of Persons in household where LIC=1]
HHSTU	Number of household students [COMP – Count of Persons in household where STUDE<3]
HHCHD	Number of household children [COMP – Count of Persons in household where AGE<16 or ALTAGE=1]
HHWRK	Number of household workers [COMP – Count of Persons in household where WORKS=1 or 4]
HLOCNO	Household Address Location Number [TB]
PHASE	Data Collection Phase
	0 Data Collected in Fall 2011
	1 Data Collected in Spring 2012
HOME_GEO	Home Geography Location
	1 City of Calgary
	2 Surrounding Region
LIFECYCLE	Household Lifecycle Stage
	1 1 person age 0-24
	2 1 person age 25-34
	3 1 person age 35-54
	4 1 person age 55+

- 5 2 person with one person age 0-14
- 6 2 person with one person age 15-19
- 7 2 person with both people age 20-34
- 8 2 adults with at least one person age 35+, both people 20+, and either 0 or 1 person age 55+
- 9 2 person both age 55+
- 10 3 person with 1 person age 0-14
- 11 3 person with 1 person age 15-19
- 12 3 person with 2 people age 0-14
- 13 3 person with 1 person age 0-14 and 1 person age 15-19
- 14 3 person with 2 people age 15-19
- 15 3 person with 1 person age and 2 people age 20-34
- 16 3 person with 3 people age 20-34
- 17 3 person with 2 people age 35-54 and 1 person age 25-34
- 18 3 person with one or more person age 55+ and all other people age 20+
- 19 3 person with 3 people age 35-54
- 20 4 person with 4 people age 25-34
- 21 4 person with 4 people age 35-54
- 22 4 or 5 person with all people age 0-24 (Kegger Group)
- 23 4 or 5 person with 1 person age 25-54 and all others age 0-24
- 24 4 or 5 person with 1 person age 35-54 and all others age 25-34
- 25 4 or 5 person with 2 or more people age 25-54 and all others 0-24 (Nuclear)
- 26 4 or 5 person with at least 1 person age 55+ (Multi-Generational)
- 27 6+ person all age 0-24 (Friends)
- 28 6+ person with 1 person age 25-54 and all others age 0-24
- 29 6+ person with 2 or more people age 25-54 and all others age 0-54 (Large Nuclear)
- 30 6+ person with at least 1 person age 55+ (Large Multi-Generational)

INCOM_IMP Imputed Income (From Weighting Procedure)

- 1 Less than \$15,000
- 2 \$15,000-\$29,999
- 3 \$30,000-\$49,999
- 4 \$50,000-\$74,999
- 5 \$75,000-\$99,999
- 6 \$100,000-\$149,999
- 7 \$150,000-\$199,999
- 8 \$200,000 or more

HHWGT

Household Weight

Person File

<u>Variable</u>	<u>Label</u>
SAMPN	Sample Number [ADMIN]
PERNO	Person Number [ADMIN]
GEND	Gender [REC] 1 MALE 2 FEMALE 9 REFUSED
RESI	Calgary Region Resident [REC] 1 Resident 2 Out of town visitor
HTCITY	[RESI=2] Visitor City [REC]
HTPROV	[RESI=2] Visitor Province [REC] AB Alberta BC British Columbia MB Manitoba NB New Brunswick NL Newfoundland & Labrador NT Northwest Territories NS Nova Scotia NU Nunavut ON Ontario PE Prince Edward Island QC Quebec SK Saskatchewan YT Yukon
BVEH	[RESI=2] Bring Vehicle to Calgary for Visit [REC] 1 Yes 2 No

9 Refused

TRANSPORT [RESI=2] Mode of Transportation to get to Calgary [REC]

- 1 Walk
- 2 Bicycle
- 3 Other non-motorized
- 4 Vehicle driver
- 5 Vehicle passenger
- 6 Light Rail
- 7 Bus Rapid Transit (BRT or express route)
- 8 Regular bus
- 9 Access Calgary (Handi Bus and Special Needs Bus)
- 10 Intercity bus (e.g., Southland Okotoks Commuter Bus)
- 11 School bus (Calgary transit)
- 12 Taxi
- 13 School bus (not Calgary transit)
- 14 Air travel
- 15 Other motorized
- 99 Refused

NIGHTS [RESI=2] Number of Nights spent in Calgary [REC]

99 Refused

AGE Age [REC]

RANGE: 1~98 years

99 99 years or older

999 REFUSED

ALTAGE [AGE=999] Age Ranges In Years [REC]

- 1 0-15
- 2 16-24
- 3 25-34
- 4 35-44
- 5 45-54
- 6 55-64
- 7 65-74
- 8 75 and older

LIC [RESI<>2 and (AGE>15 or ALTAGE>1)] Licensed Driver [REC]
 1 YES
 2 NO
 8 DON'T KNOW
 9 REFUSED

DISAB [RESI<>2] Illness or Disability that affects ability to travel [REC]
 1 YES
 2 NO
 8 DON'T KNOW
 9 REFUSED

EMPLY [RESI<>2 and (AGE>15 and AGE<999 or ALTAGE>1)] Employed [REC]
 1 YES
 2 NO
 9 REFUSED

VOLUN [RESI<>2 and (AGE>15 and AGE<999 or ALTAGE>1)] Volunteer [REC]
 1 YES
 2 NO
 9 REFUSED

WORKS [RESI<>2 and (AGE>15 and AGE<999 or ALTAGE>1)] Works [COMP]
 1 [IF EMLY=1] TREAT AS WORKER
 2 [IF EMLY>1 AND VOLUN=1] TREAT AS VOLUNTEER
 3 [IF EMLY>1 AND VOLUN>1] TREAT AS NON WORKER / NON VOLUNTEER
 4 [IF EMLY=1 AND VOLUN=1] TREAT AS BOTH WORKER AND VOLUNTEER

WKSTAT [RESI<>2 and WORKS=3] Status [REC]
 1 Retired
 2 Homemaker
 3 Unemployed
 4 Student (Part-time or full-time)

7 Other, SPECIFY
9 REFUSED

O_WKSTAT [WKSTAT=7] Status – Other [REC]

ALTWKSTAT [WKSTAT=9] Broad Work Status Ranges [REC]
1 Retired / Homemaker / Unemployed
2 Student

SELF [RESI <>2 and EMPLY=1] Self-Employed [REC]
1 YES
2 NO
9 REFUSED

JOBS [RESI <>2 and EMPLY=1] Number of jobs [REC]
RANGE: 1~10

LSTWK [RESI <>2 and EMPLY=1] Number of HRs Worked Last Week at primary Job [REC]
RANGE: 0~150
999 Refused

ATLSTWK [LSTWK=999] Range of Number of Hours worked last week [REC]
1 Less than 20 hours per week
2 20 – less than 40 hours per week
3 40 – less than 60 hours per week
4 60 or more hours per week

TPCL [RESI <>2 and EMPLY=1] Was Last Week a Typical Work Week [REC]
1 YES
2 NO
8 DON'T KNOW
9 REFUSED

WHOURS [RESI<>2 and EMPLY=1 and TPCL<>1] Hours Worked Per Week [REC]
RANGE: 1~150
999 REFUSED

ALTWHOURS [WHOURS=999] Range of Number of Hours typically worked per week [REC]

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

PREWAGE Know Annual, Pre-Tax, Salary

- 1 Yes
- 2 No

WAGE [RESI <>2 and EMPLOY=1 and PREWAGE=2] Approximate Annual Wage [REC]

- 1 Weekly (Once per week)
- 2 Bi-Weekly (Every other week)
- 3 Monthly (Once per month)
- 9 Prefer not to Answer

WEEKLY [RESI <> 2 and WAGE=1] Wage Paid Weekly [REC]

- 1 0 – 400
- 2 400 – 800
- 3 800 – 1,600
- 4 1,600 or more
- 9 Prefer not to Answer

BIWEEKLY [RESI <> 2 and WAGE=2] Wage Paid Bi-Weekly [REC]

- 1 0 – 800
- 2 800 – 1,600
- 3 1,600 – 3,200
- 4 3,200 or more
- 9 Prefer not to Answer

MONTHLY [RESI <> 2 and WAGE=3] Wage Paid Monthly [REC]

- 1 0 – 1,600
- 2 1,600 – 3,200
- 3 3,200 – 6,400
- 4 6,400 or more
- 9 Prefer not to Answer

ANNUALLY [RESI <> 2 and PREWAGE=1] Wage Paid Annually [REC]

- 1 0 – 20,000

- 2 20,000 – 40,000
- 3 40,000 – 80,000
- 4 80,000 or more
- 9 Prefer not to Answer

- WLOC [RESI <>2 and EMPLY=1] Primary Work Location [REC]
- 1 WORK FIXED LOCATION OUTSIDE OF HOME
 - 2 TELECOMMUTER
 - 3 WORK AT HOME
 - 4 NO PLACE OF WORK (TAXI DRIVER OR SALESMAN)
 - 5 PLACE OF WORK MAY CHANGE DAY TO DAY
 - 6 PLACE OF WORK BEYOND DAILY COMMUTING DISTANCE

- VVEH [RESI <>2 and EMPLY=1 and HHVEH >0] Vehicle Needed at Work [REC]
- 1 YES
 - 2 NO
 - 9 REFUSED

- ALTWVEH [WVEH=1 or 9] How often vehicle needed at work [REC]
- 1 Always
 - 2 Sometimes
 - 3 Never
 - 94 Not asked; Data Collected in Fall 2011

- WNAME [RESI<>2 and EMPLY=1 and WLOC<> 3] Primary Work name [REC]

- WLOCNO [RESI<>2 and EMPLY=1 and WLOC<> 3, 4, and 5] Primary Work Address Location Number [TB]

- OCCUP [RESI <>2 and EMPLY=1] Occupation Description [REC]
- 0 Management (Legislators, Government Officials, Mangers & Directors)
 - 1 Business, Finance and Administration (Accountants, Consultants, Administrators, Clerical Workers, Office Equipment Operators)
 - 2 Natural and Applied Science (Physical & Life Science Professionals, Engineers, Architects, Urban Planners, Surveyors, Mathematicians, Physical and Life Science Technicians, Computer Technicians)
 - 3 Health Services (Physicians, Dentists, Veterinarians, Optometrists, Chiropractors, Pharmacists, Dieticians, Therapy and Assessment Professionals, Registered Nurses, Health Technicians and Assistants)

- 4 Social & Government Services & Teaching (Judges, Lawyers, Notaries, Professors, Instructors, Vocational Instructors, Teachers, Counselors, Psychologists, Social Workers, Clergy, Probation Officers)
- 5 Performing & Facilitating Art, Culture, Recreation and Sports (Librarians, Creative Artists, Performing Artists & Technicians, Athletes, Coaches)
- 6 Sales and Service Provision (Sales & Service Provision Insurance Agents, Real Estate Agents, Chefs, Cooks, Butchers, Bakers, Police Officers, Firefighters, Hairstylists, Retail Sales, Tourism, Food and Beverage, Cashiers, Clerks & Attendants)
- 7 Trades, Transport & Equipment Operation (Building Contractors, Construction Tradespeople, Journeymen or Journeypersons, Airline Pilots, Flight Crew Members, Motor Vehicle Drivers, Manual Labourers)
- 8 Occupations Unique to Primary Industry (Oil & Gas Drillers, Logging Machinery Operators, Operators & Agriculture & Horticulturalist Activities, Other Workers and Labourers)
- 9 Occupations Unique to Processing, Manufacturing & Utilities (Processing and Manufacturing Activities, Assemblers & Labourers)
- 97 Other, please specify
- 99 Don't Know/Refused

O_OCCUP [OCCUP=97] Occupation Description – Other [REC]

INDUS [RESI <>2 and EMPLY=1] Industry Description [REC]

- 1 Agriculture, Forestry, Fishing and Hunting
- 2 Mining, Quarrying, Oil & Gas Extraction
- 3 Utilities (e.g. power generation, natural gas distribution, water, sewage)
- 4 Construction (e.g. building construction, civil engineering)
- 5 Manufacturing (e.g. food, textiles, wood, paper, printing, plastics, machinery and other products)
- 6 Wholesale Trade
- 7 Retail Trade
- 8 Transportation, Warehousing and Storage (transport of goods or people by air, rail, truck etc., postal services, & warehousing.)
- 9 Information & Cultural Industries (e.g. publishing, film, telecommunications, internet)
- 10 Finance and Insurance
- 11 Real Estate & Rental & Leasing
- 12 Professional, Scientific & Technical Services (e.g. accounting, architecture, engineering, design)
- 13 Management of Companies and Enterprise
- 14 Administrative & Support, Waste Management and Remediation Services
- 15 Educational Services
- 16 Health Care & Social Assistance

- 17 Arts, Entertainment & Recreation
- 18 Accommodation and Food Services
- 19 Other services (except Public Administration) (e.g. repair and maintenance)
- 20 Public Administration (e.g. Federal, Provincial and Municipal protective services, regulatory services, labor & employment services, emergency services, aboriginal administration, and international and other extra-territorial administration)
- 97 Other, please specify
- 99 Don't Know/Refused

O_INDUS [INDUS=97] Industry Description – Other [REC]

EMPRK [RESI <>2 and EMPLY=1] Parking Offered at Work [REC]

- 1 YES – FREE
- 2 YES – PAID
- 3 NO
- 8 DON'T KNOW
- 9 REFUSED

PKTYP [RESI <>2 and EMPLY=1 and EMPRK<3] Type of Parking [REC]

- 1 ON DESTINATION PROPERTY (DRIVEWAY OR SURFACE LOT)
- 2 ON DESTINATION PROPERTY (GARAGE OR PARKADE)
- 3 ON STREET BY DESTINATION PROPERTY
- 4 DIFFERENT LOCATION – SURFACE LOT (ADDRESS)
- 5 DIFFERENT LOCATION – PARKADE (ADDRESS)
- 6 DIFFERENT LOCATION – ON STREET (ADDRESS)
- 7 DID NOT PARK (PICK UP OR DROP OFF)
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

O_PKTYP [PKTYP=97] Type of Parking – Other [REC]

PKCOS [RESI<>2 and EMPLY=1 and EMPRK=2 and PKTYP=4,5,6, or 97] Cost of Parking [REC]
7 RECORD RESPONSE
8 DON'T KNOW
9 REFUSED

O_PKCOS [PKCOS=7] Parking Location Specified –Other [REC]

PCFREQ [PKCOS=7] Frequency of Parking Payments [REC]
1 Per Hour
2 Per Day
3 Per Week
4 Per Month
5 Per Year
7 Other, Specify
8 DON'T KNOW
9 REFUSED

O_PCFREQ [PCFREQ=7] Frequency of Parking Payment – Other [REC]

WPLOC [RESI<>2 and EMPLY=1 and PKTYP=4, 5, 6] Parking Location Specified [REC]
7 RECORD RESPONSE
8 DON'T KNOW
9 REFUSED

O_WPLOC [WPLOC=7] Parking Location Specified – Other [REC]

LSTWK1 [RESI <>2 and EMPLY=1 and JOBS>1] Number of HRs Worked Last Week at Secondary Job [REC]
RANGE: 0~150
999 Refused

ALTLSTWK1 [LSTWK1=999] Range of Number of Hours worked last week [REC]
1 Less than 20 hours per week

- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

TPCL1 [RESI <>2 and EMPLOY=1 and JOBS>1] Was Last Week a Typical Work Week [REC]

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSED

WHOURS1 [RESI <>2 and EMPLOY=1 and JOBS>1 and TPCL1 <>1] Hrs. Worked Per Week [REC]

RANGE: 1~150
999 REFUSED

ALTHOURS1 [WHOURS1=999] Range of Number of Hours typically work [REC]

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

PREWAGE1 [RESI <>2 and EMPLOY=1 and JOBS>1] Know Annual, Pre-Tax, Salary

- 1 Yes
- 2 No

WAGE1 [RESI <>2 and EMPLOY=1 and PREWAGE1=2 and JOBS>1] Approximate Annual Wage [REC]

- 1 Weekly (Once per week)
- 2 Bi-Weekly (Every other week)
- 3 Monthly (Once per month)
- 9 Prefer not to Answer

WEEKLY1 [RESI <> 2 and WAGE1=1] Wage Paid Weekly [REC]

- 1 0 – 400
- 2 400 – 800
- 3 800 – 1,600
- 4 1,600 or more
- 9 Prefer not to Answer

BIWEEKLY1 [RESI<> 2 and WAGE1=2] Wage Paid Bi-Weekly [REC]

- 1 0 – 800
- 2 800 – 1,600
- 3 1,600 – 3,200
- 4 3,200 or more
- 9 Prefer not to Answer

MONTHLY1 [RESI<> 2 and WAGE1=3] Wage Paid Monthly [REC]

- 1 0 – 1,600
- 2 1,600 – 3,200
- 3 3,200 – 6,400
- 4 6,400 or more
- 9 Prefer not to Answer

ANNUALLY1 [RESI<> 2 and PREWAGE1=1] Wage Paid Annually [REC]

- 1 0 – 20,000
- 2 20,000 – 40,000
- 3 40,000 – 80,000
- 4 80,000 or more
- 9 Prefer not to Answer

WLOC1 [RESI <>2 and EMPLOY=1 and JOBS>1] Work Location [REC]

- 1 WORK FIXED LOCATION OUTSIDE OF HOME
- 2 TELECOMMUTER
- 3 WORK AT HOME
- 4 NO PLACE OF WORK (TAXI DRIVER OR SALESMAN)
- 5 PLACE OF WORK MAY CHANGE DAY TO DAY
- 6 PLACE OF WORK BEYOND DAILY COMMUTING DISTANCE

WVEH1 [RESI <>2 and EMPLOY=1 and JOBS>1 and HHVEH>0] Vehicle Needed at Work [REC]

- 1 YES
- 2 NO
- 9 REFUSED

- ALTWVEH1 [WVEH1=1 or 9] How often vehicle needed at work [REC]
- 1 Always
 - 2 Sometimes
 - 3 Never
 - 94 Not asked; Data Collected in Fall 2011
- WNAME1 [RESI<>2 and EMPLY=1 and JOBS>1 and WLOC1<> 3] Secondary Work name [REC]
- WLOCNO1 [RESI<>2 and EMPLY=1 and JOBS>1 and WLOC1<> 3, 4, and 5] Secondary Work Location Number [TB]
- OCCUP1 [RESI<>2 and EMPLY=1 and JOBS>1] Occupation Description [REC]
- 0 Management (Legislators, Government Officials, Managers & Directors)
 - 1 Business, Finance and Administration (Accountants, Consultants, Administrators, Clerical Workers, Office Equipment Operators)
 - 2 Natural and Applied Science (Physical & Life Science Professionals, Engineers, Architects, Urban Planners, Surveyors, Mathematicians, Physical and Life Science Technicians, Computer Technicians)
 - 3 Health Services (Physicians, Dentists, Veterinarians, Optometrists, Chiropractors, Pharmacists, Dieticians, Therapy and Assessment Professionals, Registered Nurses, Health Technicians and Assistants)
 - 4 Social & Government Services & Teaching (Judges, Lawyers, Notaries, Professors, Instructors, Vocational Instructors, Teachers, Counselors, Psychologists, Social Workers, Clergy, Probation Officers)
 - 5 Performing & Facilitating Art, Culture, Recreation and Sports (Librarians, Creative Artists, Performing Artists & Technicians, Athletes, Coaches)
 - 6 Sales and Service Provision (Sales & Service Provision Insurance Agents, Real Estate Agents, Chefs, Cooks, Butchers, Bakers, Police Officers, Firefighters, Hairstylists, Retail Sales, Tourism, Food and Beverage, Cashiers, Clerks & Attendants)
 - 7 Trades, Transport & Equipment Operation (Building Contractors, Construction Tradespeople, Journeymen or Journeypersons, Airline Pilots, Flight Crew Members, Motor Vehicle Drivers, Manual Labourers)
 - 8 Occupations Unique to Primary Industry (Oil & Gas Drillers, Logging Machinery Operators, Operators & Agriculture & Horticulturalist Activities, Other Workers and Labourers)
 - 9 Occupations Unique to Processing, Manufacturing & Utilities (Processing and Manufacturing Activities, Assemblers & Labourers)
 - 97 Other, please specify

99 Don't Know/Refused

O_OCCUP1 [OCCUP1=97] Occupation Description – Other [REC]

- INDUS1 [RESI <>2 and EMPLY=1 and JOBS>1] Industry Description [REC]
- 1 Agriculture, Forestry, Fishing and Hunting
 - 2 Mining, Quarrying, Oil & Gas Extraction
 - 3 Utilities (e.g. power generation, natural gas distribution, water, sewage)
 - 4 Construction (e.g. building construction, civil engineering)
 - 5 Manufacturing (e.g. food, textiles, wood, paper, printing, plastics, machinery and other products)
 - 6 Wholesale Trade
 - 7 Retail Trade
 - 8 Transportation, Warehousing and Storage (transport of goods or people by air, rail, truck etc., postal services, & warehousing.)
 - 9 Information & Cultural Industries (e.g. publishing, film, telecommunications, internet)
 - 10 Finance and Insurance
 - 11 Real Estate & Rental & Leasing
 - 12 Professional, Scientific & Technical Services (e.g. accounting, architecture, engineering, design)
 - 13 Management of Companies and Enterprise
 - 14 Administrative & Support, Waste Management and Remediation Services
 - 15 Educational Services
 - 16 Health Care & Social Assistance
 - 17 Arts, Entertainment & Recreation
 - 18 Accommodation and Food Services
 - 19 Other services (except Public Administration) (e.g. repair and maintenance)
 - 20 Public Administration (e.g. Federal, Provincial and Municipal protective services, regulatory services, labor & employment services, emergency services, aboriginal administration, and international and other extra-territorial administration)
 - 97 Other, please specify
 - 99 Don't Know/Refused

O_INDUS1 [INDUS1=97] Industry Description – Other [REC]

EMPRK1 [RESI <>2 and EMPLY=1 and JOBS>1] Parking Offered at Work [REC]

- 1 YES – FREE
- 2 YES – PAID
- 3 NO
- 8 DON'T KNOW
- 9 REFUSED

PKTYP1 [RESI <>2 and EMPLY=1 and JOBS>1 and EMPRK1<3] Type of Parking [REC]

- 1 ON DESTINATION PROPERTY (DRIVEWAY OR SURFACE LOT)
- 2 ON DESTINATION PROPERTY (GARAGE OR PARKADE)
- 3 ON STREET BY DESTINATION PROPERTY
- 4 DIFFERENT LOCATION – SURFACE LOT (ADDRESS)
- 5 DIFFERENT LOCATION – PARKADE (ADDRESS)
- 6 DIFFERENT LOCATION – ON STREET (ADDRESS)
- 7 DID NOT PARK (PICK UP OR DROP OFF)
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

O_PKTYP1 [PKTYP1=97] Type of Parking – Other [REC]

PKCOS1 [RESI<>2 and EMPLY=1 and JOBS>1 and EMPRK1=2 and PKTYP1=4,5,6, or 97] Cost of Parking [REC]

- 7 RECORD RESPONSE
- 8 DON'T KNOW
- 9 REFUSED

O_PKCOS1 [PKCOS1=7] Parking Location Specified – Other [REC]

PCFREQ1 [PKCOS1=7] Frequency of Parking Payments [REC]

- 1 Per Hour
- 2 Per Day
- 3 Per Week
- 4 Per Month
- 5 Per Year
- 7 Other, Specify
- 8 DON'T KNOW
- 9 REFUSED

O_PCFREQ1 [PCFREQ1=7] Frequency of Parking Payment – Other [REC]

WPLOC1 [RESI=1 and EMPLY=1 and JOBS>1 and PKTYP1=4, 5, 6] Parking Location Specified [REC]

- 7 RECORD RESPONSE
- 8 DON'T KNOW
- 9 REFUSED

O_WPLOC1 [WPLOC1=7] Parking Location Specified – Other [REC]

VJOBS [RESI<>2 and VOLUN=1] Number of Volunteer Jobs [REC]
RANGE: 1~10
99 REFUSED

VLSTWK [RESI<>2 and VOLUN=1] Number of Hrs. Volunteered Last Week [REC]
RANGE: 1~150
999 Refused

ALTVLSTWK [VLSTWK=999] Range of Hrs. Volunteered Last Week [REC]

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

VTPCL [RESI<>2 and VOLUN=1] With Respect to Hrs., is this typical Hrs. Volunteering [REC]

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSED

VHOURS [RESI<>2 and VOLUN=1 and VTPCL<>1] What are Typical Hrs. Volunteered [REC]
RANGE: 1~150
999 REFUSED

ALTVHOURS [VHOURS=999] Range of Hours Typically Volunteer per Week [REC]

- 1 Less than 20 hours per week
- 2 20 – less than 40 hours per week
- 3 40 – less than 60 hours per week
- 4 60 or more hours per week

VLOC [RESI<>2 and VOLUN=1] Volunteer Location [REC]

- 1 WORK FIXED LOCATION OUTSIDE OF HOME
- 2 TELECOMMUTER
- 3 WORK AT HOME
- 4 NO PLACE OF WORK (TAXI DRIVER OR SALESMAN)
- 5 PLACE OF WORK MAY CHANGE DAY TO DAY
- 6 PLACE OF WORK BEYOND DAILY COMMUTING DISTANCE

VNAME [RESI<>2 and VOLUN=1 and VLOC<>3] Volunteer Name [REC]

VLOCNO [RESI<>2 and VOLUN=1 and VLOC<>3, 4, and 5] Volunteer Address Location Number [TB]

VPRK [RESI<>2 and VOLUN=1] Parking Offered at Volunteer Location [REC]

- 1 YES – FREE
- 2 YES – PAID
- 3 NO
- 8 DON'T KNOW
- 9 REFUSED

VPKTYP [RESI<>2 and VOLUN=1 and VPRK < 3] Type of Parking [REC]

- 1 ON DESTINATION PROPERTY (DRIVEWAY OR SURFACE LOT)
- 2 ON DESTINATION PROPERTY (GARAGE OR PARKADE)
- 3 ON STREET BY DESTINATION PROPERTY
- 4 DIFFERENT LOCATION – SURFACE LOT (ADDRESS)
- 5 DIFFERENT LOCATION – PARKADE (ADDRESS)
- 6 DIFFERENT LOCATION – ON STREET (ADDRESS)
- 7 DID NOT PARK (PICK UP OR DROP OFF)
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

O_VPKTYP [VPKTYP=97] Type of Parking – Other [REC]

VPKCOS [RESI<>2 and VOLUN=1 and VPRK =2 and VPKTYP=4,5,6, or 97] Cost of Parking [REC]

- 7 RECORD RESPONSE
- 8 DON'T KNOW
- 9 REFUSED

O_VPKCOS [VPKCOS=7] Cost of Parking – Other [REC]

VPLOC [RESI<>2 and VOLUN=1 and VPRK <3 and VPKTYP=4, 5, 6] Parking Location Specified [REC]

- 7 RECORD RESPONSE
- 8 DON'T KNOW
- 9 REFUSED

O_VPLOC [VPLOC =7] Parking Location – Other [REC]

EDUCA [RESI<>2] Education attained [REC]

- 1 Pre-School
- 2 Kindergarten – Grade 6
- 3 Grades 7 to 9
- 4 Grades 10 to 12
- 5 University – Undergraduate
- 6 University – Graduate
- 7 College (e.g. Bow Valley College)
- 8 Technical or Trades School (e.g. SAIT or Apprenticeship)
- 97 Other, Please specify
- 99 Refused

O_EDUCA [EDUCA=97] Education attained – Other [REC]

STUDE [RESI<>2] Student [REC]

- 1 Yes – FULL TIME
- 2 Yes – PART TIME
- 3 No
- 9 REFUSED

SCHOL [RESI<>2 and STUDE<3] Level of School [REC]

- 1 PRE-SCHOOLER / DAYCARE
- 2 KINDERGARTEN TO GRADE 6
- 3 GRADE 7 TO 9
- 4 GRADE 10 TO 12
- 5 UNIVERSITY – UNDERGRADUATE

- 6 UNIVERSITY – GRADUATE
- 7 COLLEGE (example: Bow Valley College)
- 8 TECHNICAL OR TRADE SCHOOL (example: SAIT or apprenticeship)
- 97 Other, SPECIFY
- 98 Don't Know
- 99 Refused

O_SCHOL [SCHOL=97] Level of School – Other [REC]

ALTSCHOL [SCHOL=99] Education Range [REC]

- 1 Pre-School to Grade 8
- 2 Grade 9 to 12
- 3 Technical/vocational school, college/university (2 or 4-year)
- 4 Graduate school/professional
- 97 Other, Specify

O_ALTSCHOL [ALTSCHOL=97] Education Range – Other [REC]

SHOURS [RESI<>2 and STUDE<3] Hrs. Spent at School per Week [REC]

RANGE: 1~150

999 REFUSED

FTSHRS [RESI<>2 and SHOURS=999 and STUDE=1] Range of Hrs. Spent at school per Week - Full-Time Student [REC]

- 1 Less than 10 hours per week
- 2 10 – less than 20 hours per week
- 3 20 – less than 30 hours per week
- 4 30 – less than 40 hours per week
- 5 More than 40 hours per week

PTSHRS [RESI<>2 and SHOURS=999 and STUDE=2] Range of Hrs. Spent at school per Week - Part-Time Student [REC]

- 1 Less than 10 hours per week
- 2 10 or more hours per week

SNAME [RESI<>2 and STUDE<3] School name [REC]

SLOCNO [RESI<>2 and STUDE<3] School Address Location Number [TB]

TPASS [RESI<>2] Transit Pass
 1 Yes
 2 No
 8 Don't Know
 9 Refused

TPTYP [RESI<>2 and TPASS = 1] Transit Pass Type [REC]
 1 ADULT MONTHLY PASS
 2 YOUTH MONTHLY PASS
 3 U-PASS (FEES PAID THROUGH POST SECONDARY INSTITUTION)
 4 SENIOR PASS (YEARLY)
 5 TRANSIT EMPLOYEE PASS
 6 ADULT DAY PASS
 7 YOUTH DAY PASS
 8 ACCESS CALGARY ATTENDANCE CARD
 9 UNIFORMED, POSTAL WORKERS, POLICE, FIRE FIGHTER, EMS
 10 LOW INCOME MONTHLY PASS
 11 SOUTHLAND COMMUTER PASS (COCHRANE & OKOTOKS)
 12 AIRDRIE / CROSSFIELD COMMUTER PASS
 13 STRATHMORE / CHESTERMERE COMMUTER PASS
 97 OTHER, SPECIFY
 99 REFUSED

O_TPTYP [TPTYP=97] Transit Pass Type – Other [REC]

ALTTPTYP [TPTYP=99] Type of Pass - Alternate Choices [REC]
 1 Day pass
 2 Monthly pass
 3 Commuter pass
 4 U-Pass (fees paid through post-secondary institution)
 97 Other, Specify

O_ALTTPTYP [ALTTPTYP=97] Type of Pass - Alternate Choices – Other [REC]

TRANC [RESI<>2 and TPASS = 1] Cost of Transit Pass [REC]
 97 SPECIFY

98 DON'T KNOW

99 REFUSED

O_TRANC [TRANC=97] Specify Cost of Transit Pass – Other [REC]

DISPAS [RESI<>2 And TPASS<>1] Discount/Subsidized Transit Pass [REC]

1 YES

2 NO

8 DON'T KNOW

9 REFUSED

DISTP [RESI<>2 and TPASS=1] Kind of Discounted Transit Pass [REC]

0 DOES NOT PARTICIPATE

1 ADULT MONTHLY PASS

2 YOUTH MONTHLY PASS

3 U-PASS (FEES PAID THROUGH POST SECONDARY INSTITUTION)

4 SENIOR PASS (YEARLY)

5 TRANSIT EMPLOYEE PASS

6 ADULT DAY PASS

7 YOUTH DAY PASS

8 ACCESS CALGAYR ATTENDANCE CARD

9 UNIFORMED, POSTAL WORKERS, POLICE, FIRE FIGHTER, EMS

10 LOW INCOME MONTHLY PASS

11 SOUTHLAND COMMUTER PASS (COCHRANE & OKOTOKS)

12 AIRDRIE / CROSSFIELD COMMUTER PASS

13 STRATHMORE / CHESTERMERE COMMUTER PASS

97 OTHER, SPECIFY

98 DON'T KNOW

99 REFUSED

O_DISTP [DISTP=97] Discounted Pass Program – Other [REC]

DISTC [RESI<>2 and TPASS=1 and (DISTP<>98, 99, and 0)] Cost of Discounted Transit Pass [REC]

97 Other, Specify

98 DON'T KNOW

99 REFUSED

O_DISTC [DISTC=97] Cost of Discounted Transit Pass – Other [REC]

PROXYPERNO Person Number Interviewed [RET]

PROXY Flag if travel characteristics were collected by proxy [RET]

1 INFORMANT

2 PROXY

CMPLG Completed logs [RET]

1 YES (COMPLETED)

2 NO (NOT COMPLETED)

3 DID NOT RECEIVE MATERIALS

8 DON'T KNOW

9 REFUSED

HVLOG [CMPLG=1] Have Log [RET]

1 Yes

2 No

PTRIPS Number of trips [RET]

NOGO [PTRIPS=0] Reason for no trips [RET]

1 Personally sick

2 Vacation or Personal day

3 Caretaking sick kids

4 Caretaking sick other

5 Home-bound Elderly or disabled

- 6 Worked at home for pay
- 7 Not scheduled to work
- 8 Worked around the home (not for pay)
- 9 Out of area
- 10 No transportation available
- 97 Other, specify
- 98 Don't know
- 99 Refused

O_NOGO [NOGO=97] Reason for no trips - OTHER [RET]

AGE_IMPR Age Imputed (for weighting)

- 1 0-15
- 2 15-24
- 3 25-34
- 4 35-54
- 5 55 and older

WORKS_IMP Work Status Imputed (for weighting)

- 1 Employed [WORKS=1 or 4]
- 2 Unemployed [WKSTAT=3 OR (VOLUN=1 AND WORKS_IMP=NULL)]
- 3 Not in the Labour Force [WKSTAT<>3 OR (AGE>14 OR ALTAGE>1 AND WORKS_IMP=NULL)]
- 4 Under 15 years old [WORKS_IMP=null AND AGE<15 OR ALTAGE=1]

PERWGT Person Weight

Vehicle File

Variable Label

SAMPN Sample Number [ADMIN]

VEHNO Vehicle Number [ADMIN]

YEAR Vehicle Year [REC]
RANGE: 1920~2012
9998 Don't Know
9999 Refused

MAKE Vehicle Make [REC]

- 11 ACURA
- 12 AUDI
- 13 BMW
- 14 BUICK
- 15 CADILLAC
- 16 CHEVROLET
- 17 CHRYSLER
- 18 DAEWOO
- 19 DODGE
- 20 FORD
- 21 GEO
- 22 GMC
- 23 HARLEY DAVIDSON
- 24 HONDA
- 25 HUMMER
- 26 HYUNDAI
- 27 INFINITI
- 28 ISUZU
- 29 JAGUAR
- 30 JEEP
- 31 KAWASAKI
- 32 KIA
- 33 LEXUS
- 34 LINCOLN

- 35 MAZDA
- 36 MERCEDES
- 37 MERCURY
- 38 MITSUBISHI
- 39 NISSAN
- 40 OLDSMOBILE
- 41 PLYMOUTH
- 42 PONTIAC
- 43 PORSCHE
- 44 RANGE ROVER
- 45 SAAB
- 46 SATURN
- 47 SCION
- 48 SUBARU
- 49 SUZUKI
- 50 TOYOTA
- 51 VOLKSWAGEN
- 52 VOLVO
- 53 YAMAHA
- 54 MINI
- 55 RAM
- 56 SMART
- 57 BUELL
- 58 DUCATI
- 59 TRIUMPH
- 97 OTHER, SPECIFY
- 98 DON'T KNOW
- 99 REFUSED

O_MAKE [MAKE=97] Vehicle Make - OTHER [REC]

MODEL Vehicle Model Number [REC]

FUEL	Vehicle Fuel type [REC]
	1 Gas
	2 Diesel
	3 Hybrid
	4 Flex Fuel
	7 Other, Specify
	8 Don't Know
	9 Refused
O_FUEL	[FUEL=7] Fuel type - OTHER [REC]
VOWN	Vehicle Owned, leased, employer provided [REC]
	1 OWNED OR LEASED
	2 RENTAL CAR
	3 EMPLOYER PROVIDE – OPEN USE
	4 EMPLOYER PROVIDE – USE RESTRICTIONS
	5 BORROWED FROM FRIEND OR RELATIVE
	6 LOANER VEHICLE FROM REPAIR SHOP
	7 FORMAL CAR SHARING PROGRAM
	8 Don't Know
	9 Refused
CNTV	Vehicle Used on Travel Day 1 [RET]
	1 Yes
	2 No
	8 Don't Know
	9 Refused
O_CNTV	[CNTV=2] Why not? [RET]
HHWGT	Household Weight

Place File

<u>Variable</u>	<u>Label</u>
SAMPN	Sample Number [ADMIN]
PERNO	Person Number [ADMIN]
PLANO	Place Number [ADMIN]
LOCNO	Location Number [TB]
MODE	[PLANO>1] Mode of the trip [RET] 1 Walk 2 Bicycle 3 Other non-motorized 4 Auto or small truck driver 5 Auto or small truck passenger 6 Light Rail 7 Bus Rapid Transit (BRT or express route) 8 Regular bus 9 Access Calgary (Handi Bus and Special Needs Bus) 10 Intercity bus (e.g., Southland Okotoks Commuter Bus) 11 School bus (Calgary transit) 12 Taxi 13 School bus (not Calgary transit) 14 Air travel 15 Other motorized
TOTTR	[PLANO>1] Number of people in travel group (including respondent) [COMP – HHMEM+NONHH+1]
HHMEM	[TOTTR>1] Number of household members on trip [RET/COMP – Count of PER1-PER5]
PER1	[HHMEM>0] Person Number on trip [RET]
PER2	[HHMEM>1] Person Number on trip [RET]
PER3	[HHMEM>2] Person Number on trip [RET]
PER4	[HHMEM>3] Person Number on trip [RET]
PER5	[HHMEM>4] Person Number on trip [RET]

NONHH [PLANO>1 and TOTTR>1] Number of Non-Household members on trip [COMP – TOTTR-HHMEM-1]

VEHNO [MODE=4 or 5] HH Vehicle Number of the vehicle used for the trip [RET]
 RANGE: 1~8
 97 Non-household vehicle

PARK [MODE=4 or 5] Parked Vehicle? [RET]
 1 YES
 2 NO
 8 DON'T KNOW
 9 REFUSED

PAYPK [PARK=1] Pay to park? [RET]
 1 YES
 2 NO
 8 DON'T KNOW
 9 REFUSED

PKAMT [PAYPK=1] Amount paid to park [RET]

PKUNT [PAYPK=1] Amount paid to park, units [RET]
 1 Per Hour
 2 Per Day
 3 Per Week
 4 Per Month
 5 Per Semester
 6 Per Year
 7 No Cost / Free
 8 DON'T KNOW
 9 REFUSED

PKTYP [PARK=1] Location of parking [RET]

- 1 On destination property (driveway or surface lot)
- 2 On destination property (garage or parkade)
- 3 On street by destination property
- 4 Different location – surface lot
- 5 Different location – parkade
- 6 Different location – on street
- 7 Did not park (pick up or drop off)
- 97 Other, please specify
- 98 DON'T KNOW
- 99 REFUSED

O_PKTYP [PKTYP=97] Location of parking - OTHER [RET]

PXSTR [PARK=1 and PKTYP=4, 5, 6 or 97] Parking Location X-Streets [RET]

VAVAL [PLANO>1 and MODE<>4 and MODE<>5] Was Vehicle Available [RET]

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSED

SVC [MODE=6 thru 11] Transit Service Used [RET]

- 1 Calgary Transit
- 2 Airdrie Transit
- 3 Southland Commuter
- 4 First Student Airdrie / Crossfield Commuter
- 5 First Student Strathmore / Chestermere
- 7 Other, Specify
- 9 Don't Know/Refused

O_SVC [SVC=7] Transit Service Used - OTHER [RET]

ROUTE [MODE=6 thru 11] Transit Lines/Routes [RET]

TRNPD [MODE=6 thru 11] How was Fare Paid [RET]

- 1 One way tickets
- 2 Day pass
- 3 Monthly pass
- 4 Senior pass
- 5 Low income monthly pass
- 6 U-pass
- 7 Yearly pass
- 8 Child pass
- 96 Cash
- 97 Other, Specify
- 98 Don't Know
- 99 Refused

O_TRNPD [TRNPD=97] How was Fare Paid - OTHER [RET]

TPASS [TRNPD=96] Was Transit Pass Available [RET]

- 1 YES
- 2 NO
- 8 DON'T KNOW
- 9 REFUSED

SERVIC [MODE=12] Total Fare of Taxi trip [RET]

RANGE: 1~997

- 998 DON'T KNOW
- 999 REFUSED

TXFAR [MODE=12] How did you pay for fare [RET]

- 1 Cash
- 7 OTHER, SPECIFY
- 8 DON'T KNOW
- 9 REFUSED

O_TXFAR [TXFAR=7] How did you pay for fare - OTHER [RET]

WHOPD	[MODE=12] Who Paid fare [RET]
	1 PAID BY SELF
	2 PAID BY GOVERNMENT
	3 PAID BY EMPLOYER
	4 PAID BY ANOTHER TRAVELING WITH YOU
	5 SHARED FARE
	8 DON'T KNOW
	9 REFUSED
ARR_HR	Arrival hour [RET]
ARR_MIN	Arrival minute [RET]
DEP_HR	Departure hour [RET]
DEP_MIN	Departure minute [RET]
ACTDUR	Activity Duration [COMP - Minutes]
TRPDUR	[PLANO>1] Trip Duration [COMP - Minutes]
TRIPDIST	[PLANO>1] Trip Distance [COMP – Straight-line distance, km]
PERWGT	Person Weight

Activity File

Variable Label

SAMPN Sample Number [ADMIN]

PERNO Person Number [ADMIN]

PLANO Place Number [ADMIN]

ACTNO Activity Number [ADMIN]

APURP Activity Conducted at Location [RET]

- 1 Household Activities (*responsibilities / chore, dressing / bathing, child care, etc.*)
- 2 Sleeping
- 3 Eating a meal
- 4 Service private vehicle (oil, lube, etc.)
- 5 Household errands (bank, dry cleaning, etc.)
- 6 Personal business (visit government office, attorney, accountant, etc.)
- 7 Medical (doctor, dentist, etc.)
- 8 Change type of transportation/transfer (*from car to bus, walk to bus, etc.*)
- 9 Drop someone off
- 10 Pick someone up
- 11 Drive-through (*ATM, bank, fast food, etc.*)
- 12 Get gas
- 13 Working (*for pay*)
- 14 Volunteer
- 15 Work related (meeting, sales call, delivery)
- 16 Attend school (*any activities at school*)
- 17 Attend daycare
- 18 Homework
- 19 Shopping online, catalogue, or by phone
- 20 Routine shopping (*grocery, clothing, convenience store, household maintenance*)
- 21 Shopping for major purchases or specialty items (*appliances, electronics, new vehicle, major household repairs, etc.*)
- 22 Outdoor recreation (*jogging, biking, walking, etc.*)
- 23 Indoor recreation (*gym, yoga, etc.*)
- 24 Leisure / Entertainment (reading, watching TV / movies, playing games, surfing the Internet, spectator sports, etc.)

- 25 Social (*visiting friends/relatives*)
- 26 Religious or Civic
- 27 Airport – business
- 28 Airport – personal
- 29 Out of town
- 97 Other, Specify

O_APURP [APURP= 97] Activity Conducted at Location – OTHER [RET]

STIME Time Started Activity [RET]

ETIME Time Ended Activity [RET]

PERWGT Person Weight

Location File

Variable Label

SAMPN	Sample Number [ADMIN]
PERNO	Person Number [ADMIN]
LOCNO	Location number within the household [ADMIN]
PTYPE	Location Description [RET]
	1 HOME
	2 PRIMARY WORK
	3 SCHOOL
	4 SECONDARY WORK
	5 TRANSIT STOP
	6 VOLUNTEER WORK
	7 OTHER PLACE
LOCNAME	Location Name [RET]
ADDRESS	Street Number and Street Name of Address [TB]
CITY	City Name [TB]
PROV	Province [TB]
POSTCODE	Postal Code [TB]
LATITUDE	Latitude in NAD83 decimal degrees [TB]
LONGITUDE	Longitude in NAD83 decimal degrees [TB]
ZONE	Geographic Zone [COMP]

CITY_GZ City of Calgary Geographic Zone [COMP]

- 1 CBD
- 2 CBD South
- 3 Manchester
- 4 Mount Royal
- 5 Strathcona
- 6 Spring Bank
- 7 Willow Park
- 8 Glenmore
- 9 Bonavista
- 10 Midnapore
- 11 Providence
- 12 Pine Creek
- 13 Homesteads
- 14 Mackenzie
- 15 Southeast Industrial
- 16 Foothills
- 17 Forest Lawn
- 18 The Properties
- 19 Northeast Industrial
- 20 Airport
- 21 Saddle Ridge
- 22 Rosedale
- 23 Parkdale
- 24 University of Calgary
- 25 Pleasant Heights
- 26 Triwood
- 27 Varsity
- 28 West Scenic Acres
- 29 Spy Hill
- 30 Crowchild
- 31 Beddington
- 32 Calgary North

CITY_AREA City of Calgary Geographic Area [COMP]

- 1 CITY_GZ = 1 or 2
- 2 CITY_GZ = 3 or 4
- 3 CITY_GZ = 5 or 6
- 4 CITY_GZ = 7 or 8 or 9
- 5 CITY_GZ = 10 or 11 or 12
- 6 CITY_GZ = 13 or 14
- 7 CITY_GZ = 15 or 16
- 8 CITY_GZ = 17 or 18 or 19
- 9 CITY_GZ = 20 or 21
- 10 CITY_GZ = 22 or 25
- 11 CITY_GZ = 23 or 24 or 26
- 12 CITY_GZ = 27 or 28
- 13 CITY_GZ = 29 or 30
- 14 CITY_GZ = 31 or 32

REGION_SECTOR Surrounding Region Geographic Sector [COMP]

- 1 Western Wheatland
- 2 Eastern Wheatland
- 3 Strathmore
- 4 Inner Foothills
- 5 Turner Valley / BD
- 6 High River
- 7 Okotoks
- 8 Rest of Outer Foothills
- 9 Inner East Rockyview
- 10 Outer East Rockyview
- 11 Inner West Rockyview
- 12 Outer West Rockyview
- 13 Cochrane
- 14 Airdrie
- 15 Chestermere

REGION_AREA Surrounding Region Geographic Area [COMP]

- 1 Towns
- 2 Rural Region

Appendix G: Recruitment Item Unweighted Frequencies

Table G-1: Household Size

HHSIZ	Count	Percent
1	1996	22.1%
2	3875	43.0%
3	1366	15.2%
4+	1778	19.7%
Total	9015	100.0%

Table G-2: Persons Visiting from Out of Town on Travel Day

HHVIS	Count	Percent
0	8920	99.0%
1	69	0.8%
2	22	0.2%
3	4	0.0%
Total	9015	100.0%

Table G-3: Residence Type

RESTY	Count	Percent
Single-family Detached House	7338	81.4%
Duplex / Triplex / Fourplex	837	9.3%
Row house	336	3.7%
Apartment building that has 5 or more stories	136	1.5%
Apartment building that has fewer than 5 stories	276	3.1%
Mobile home / Manufactured home / RV / House boat	51	0.6%
Rooming house / Collective Residence / Dormitory	19	0.2%
Other, SPECIFY	16	0.2%
Refused	6	0.1%
Total	9015	100.0%

Table G-4: Home Ownership Status

OWN	Count	Percent
Rent	590	6.5%
Own/Buying (Paying Off Mortgage)	8404	93.2%
Other, SPECIFY	2	.0%
Refused	19	.2%
Total	9015	100.0%

Table G-5: Approximate Size of Home

SQRFT	Count	Percent
0-1,000 square feet [0-93 square meters]	1064	11.8%
1,000-1,500 square feet [93-139 square meters]	3496	38.8%
1,500-2,000 square feet [130-186 square meters]	2411	26.7%
2,000-3,000 square feet [186-279 square meters]	1707	18.9%
3,000 square feet or more [279 square meters or more]	254	2.8%
Refused	83	0.9%
Total	9015	100.0%

Table G-6: Number of Rooms in Home

RMS	Count	Percent
1	340	3.8%
2	1252	17.7%
3	4329	48.0%
4+	3051	30.1%
Don't Know	4	0.0%
Refused	39	0.4%
Total	9015	100.0%

Table G-7: Number of Household Vehicles

HHVEH	Count	Percent
0	316	3.5%
1	2731	30.3%
2	3949	43.8%
3	1351	15.0%
4+	668	7.4%
Total	9015	100.0%

Table G-8: Vehicle Year

YEAR	Count	Percent
1920's	1	0.0%
1930's	9	0.1%
1940's	7	0.0%
1950's	24	0.1%
1960's	75	0.4%
1970's	200	1.1%
1980's	508	2.9%
1990's	2831	16.0%
2000's	10960	61.8%
2010 and newer	2709	15.3%
Don't Know	342	1.9%
Refused	81	0.5%
Total	17747	100.0%

Table G-9: Vehicle Make

MAKE	Count	Percent
Acura	414	2.3%
Audi	139	0.8%
BMW	306	1.7%
Buick	260	1.5%
Cadillac	112	0.6%
Chevrolet	1591	9.0%
Chrysler	397	2.2%
Daewoo	1	0.0%
Dodge	1218	6.9%
Ford	2095	11.8%
Geo	6	0.0%
GMC	818	4.6%
Harley Davidson	108	0.6%
Honda	1866	10.5%
Hummer	5	0.0%
Hyundai	415	2.3%
Infinity	147	0.8%
Isuzu	14	0.1%
Jaguar	20	0.1%
Jeep	381	2.1%
Kawasaki	79	0.4%

MAKE	Count	Percent
Kia	211	1.2%
Lexus	164	0.9%
Lincoln	64	0.4%
Mazda	573	3.2%
Mercedes	188	1.1%
Mercury	51	0.3%
Mitsubishi	105	0.6%
Nissan	817	4.6%
Oldsmobile	132	0.7%
Plymouth	61	0.3%
Pontiac	634	3.6%
Porsche	38	0.2%
Range Rover	18	0.1%
Saab	27	0.2%
Saturn	257	1.4%
Scion	5	0.0%
Subaru	432	2.4%
Suzuki	149	0.8%
Toyota	2053	11.6%
Volkswagen	505	2.8%
Volvo	210	1.2%
Yamaha	142	0.8%
Mini	36	0.2%
Ram	9	0.1%
Smart	30	0.2%
Buell	3	0.0%
Ducati	10	0.1%
Triumph	26	0.1%
Other, Specify	197	1.1%
Don't Know	131	0.7%
Refused	77	0.4%
Total	17747	100.0%

Table G-10: Fuel Type

Fuel	Count	Percent
Gas	16853	95.0%
Diesel	633	3.6%
Hybrid	136	0.8%
Flex Fuel	83	0.5%
Other, Specify	6	0.0%
Don't Know	18	0.1%
Refused	18	0.1%
Total	17747	100.0%

Table G-11: Vehicle Owned, Leased, or Employer Provided

VOWN	Count	Percent
Owned or Leased	17326	97.6%
Rental Car	2	0.0%
Employer Provide - Open Use	226	1.3%
Employer Provide – Use Restrictions	119	0.7%
Borrowed from Friend or Relative	20	0.1%
Formal Car Sharing Program	2	0.0%
Don't Know	9	0.1%
Refused	43	0.2%
Total	17747	100.0%

Table G-12: Gender

GEND	Count	Percent
Male	10436	48.1%
Female	11200	51.7%
Refused	39	0.2%
Total	21675	100.0%

Table G-13: Calgary Region Resident

RESI	Count	Percent
Resident	21550	99.4%
Out of Town Visitor	125	0.6%
Total	21675	100.0%

Table G-14: Brought Vehicle

BVEH	Count	Percent
Yes	53	42.4%
No	69	55.2%
Refused	3	2.4%
Total	125	100.0%

Table G-15: Mode of Transportation to Calgary

TRANSPORT	Count	Percent
Vehicle driver	42	33.6%
Vehicle passenger	13	10.4%
Light Rail	1	0.8%
Bus Rapid Transit (BRT or express route)	1	0.8%
Regular bus	3	2.4%
Air travel	62	49.6%
Refused	3	2.4%
Total	125	100.0%

Table G-16: Number of Nights Spent in Calgary

NIGHTS	Count	Percent
1	14	11.2%
2	17	13.6%
3	12	9.6%
4	5	4.0%
5	4	3.2%
6	4	3.2%
7	3	2.4%
8	1	0.8%
9	2	1.6%
10+	43	34.4%
Refused	20	16.0%
Total	125	100.0%

Table G-17: Age Range in Years

AGE	Count	Percent
0-15	3596	16.6%
16-24	1705	7.9%
25-34	1849	8.5%
35-44	2914	13.4%

AGE	Count	Percent
45-54	3890	18.0%
55-64	4185	19.3%
65-74	2216	10.2%
75 and Older	1320	6.1%
Total	21675	100.0%

Table G-18: Licensed Driver

LIC	Count	Percent
Yes	16588	92.4%
No	1359	7.6%
Don't Know	6	0.0%
Refused	3	0.0%
Total	17956	100.0%

Table G-19: Illness or Disability that Affects Ability to Drive

DISAB	Count	Percent
Yes	761	3.5%
No	20756	96.3%
Don't Know	15	0.1%
Refused	18	0.1%
Total	21550	100.0%

Table G-20: Employed

EMPLY	Count	Percent
Yes	11494	64.0%
No	6462	36.0%
Total	17956	100.0%

Table G-21: Volunteer

VOLUN	Count	Percent
Yes	3545	19.7%
No	14411	80.3%
Total	17956	100.0%

Table G-22: Works

WORKS	Count	Percent
Treat As Worker	9322	51.9%
Treat As Volunteer	1373	7.6%
Treat As Non Worker / Non Volunteer	5089	28.3%
Treat As Both Worker And Volunteer	2172	12.1%
Total	17956	100.0%

Table G-23: Non-Worker Status

WKSTAT	Count	Percent
Retired	2958	58.1%
Homemaker	868	17.1%
Unemployed	351	6.9%
Student	703	13.8%
Other, Specify	191	3.8%
Refused	18	0.4%
Total	5089	100.0%

Table G-24: Broad Work Status Ranges

ALTWKSTAT	Count	Percent
Retired / Homemaker / Unemployed	18	100.0%
Student	0	0.0%
Total	18	100.0%

Table G-25: Self-Employed

SELF	Count	Percent
Yes	2252	19.6%
No	9225	80.3%
Refused	17	0.1%
Total	11494	100.0%

Table G-26: Number of Jobs

JOBS	Count	Percent
1	10654	92.7%
2	727	6.3%
3	95	0.8%
4	13	0.1%
5	1	0.0%
6	2	0.0%
7	1	0.0%

JOB5	Count	Percent
8	0	0.0%
9	0	0.0%
10	1	0.0%
Total	11494	100.0%

Table G-27: Number of Hours Worked Last Week at Primary Job

LSTWK	Count	Percent
Less than 20 hours per week	1631	14.2%
20 – less than 40 hours per week	2927	25.4%
40 – less than 60 hours per week	6247	54.4%
60 or more hours per week	689	6.0%
Total	11494	100.0%

Table G-28: Was Last Week a Typical Work Week

TPCL	Count	Percent
Yes	10169	88.5%
No	1250	10.9%
Don't Know	66	0.6%
Refused	9	0.1%
Total	11494	100.0%

Table G-29: Range of Hours Typically Worked Per Week

WHOURS	Count	Percent
Less than 20 hours per week	239	18.0%
20 – less than 40 hours per week	402	30.3%
40 – less than 60 hours per week	619	46.7%
60 or more hours per week	65	4.9%
Total	1325	100.0%

Table G-30: Knowledge of Annual, Pre-tax Salary

PREWAGE	Count	Percent
Yes	9018	78.5%
No	2476	21.5%
Total	11494	100.0%

Table G-31: Approximate Annual Wage

WAGE	Count	Percent
Weekly (Once per week)	98	4.0%
Bi-Weekly (Every other week)	1296	52.3%
Monthly (Once per month)	417	16.8%
Refused	665	26.9%
Total	2476	100.0%

Table G-32: Wage Paid Weekly

WEEKLY	Count	Percent
\$0 – \$400	34	34.7%
\$400 – \$800	22	22.4%
\$800 – \$1,600	20	20.4%
\$1,600 or more	10	10.2%
Refused	12	12.2%
Total	98	100.0%

Table G-33: Wage Paid Bi-Weekly

BIWEEKLY	Count	Percent
0 – \$800	403	31.1%
\$800 – \$1,600	348	26.9%
\$1,600 – \$3,200	254	19.6%
\$3,200 or more	83	6.4%
Refused	208	16.0%
Total	1296	100.0%

Table G-34: Wage Paid Monthly

MONTHLY	Count	Percent
0 – \$1,600	146	35.0%
\$1,600 – \$3,200	84	20.1%
\$3,200 – \$6,400	71	17.0%
\$6,400 or more	48	11.5%
Refused	68	16.3%
Total	417	100.0%

Table G-35: Annual Wage

WAGE	Count	Percent
\$0 – \$20,000	878	9.7%
\$20,000 – \$40,000	1233	13.7%
\$40,000 – \$80,000	3092	34.3%
\$80,000 or more	3428	38.0%
Refused	387	4.3%
Total	9018	100.0%

Table G-36: Primary Work Location

WLOC	Count	Percent
Fixed Location Outside of Home	8701	75.7%
Telecommuter	40	.3%
Work at Home	947	8.2%
No Place of Work (Taxi Driver or Salesman)	82	.7%
Place of Work may change Day to Day	1669	14.5%
Place of Work Beyond Daily Commuting Distance	55	.5%
Total	11494	100.0%

Table G-37: Vehicle Needed at Work

WVEH	Count	Percent
Yes	3081	27.3%
No	8225	72.7%
Total	11306	100.0%

Table G-38: Frequency Vehicle Needed at Work

ALTWVEH	Count	Percent
Always	1838	59.7%
Sometimes	1123	36.4%
Never	49	1.6%
Not asked; Data Collected in Fall 2011	71	2.3%
Total	3081	100.0%

Table G-39: Occupation Description

OCCUP	Count	Percent
Management (Legislators, Government Officials, Managers & Directors)	1532	13.3%
Business, Finance and Administration	2346	20.4%
Natural and Applied Science	1469	12.8%
Health Services	912	7.9%
Social & Government Services & Teaching	1341	11.7%
Performing & Facilitating Art, Culture, Recreation and Sports	315	2.7%
Sales and Service Provision	1710	14.9%
Trades, Transport & Equipment Operation	1129	9.8%
Occupations Unique to Primary Industry	412	3.6%
Occupations Unique to Processing, Manufacturing & Utilities	267	2.3%
Other, Specify	52	0.5%
Refused	9	0.1%
Total	11494	100.0%

Table G-40: Industry Description

INDUS	Count	Percent
Agriculture, Forestry, Fishing and Hunting	123	1.1%
Mining, Quarrying, Oil & Gas Extraction	1721	15.0%
Utilities (e.g. power generation, natural gas distribution, water, sewage)	335	2.9%
Construction (e.g. building construction, civil engineering)	669	5.8%
Manufacturing (e.g. food, textiles, wood, paper, printing, plastics, machinery and other products)	409	3.6%
Wholesale Trade	171	1.5%
Retail Trade	874	7.6%
Transportation, Warehousing and Storage	607	5.3%
Information & Cultural Industries	364	3.2%
Finance and Insurance	539	4.7%
Real Estate & Rental & Leasing	169	1.5%
Professional, Scientific & Technical Services	1040	9.0%
Management of Companies and Enterprise	119	1.0%
Administrative & Support, Waste Management and Remediation Services	124	1.1%
Educational Services	1094	9.5%
Health Care & Social Assistance	1362	11.8%
Arts, Entertainment & Recreation	344	3.0%
Accommodation and Food Services	317	2.8%
Other services (except Public Administration)	478	4.2%
Public Administration	540	4.7%
Other, Specify	86	.7%
Refused	9	.1%
Total	11494	100.0%

Table G-41: Parking Offered at Work

EMPRK	Count	Percent
Yes - Free	6258	54.4%
Yes - PAID	1721	15.0%
No	3241	28.2%
Don't Know	243	2.1%
Refused	31	0.3%
Total	11494	100.0%

Table G-42: Type of Parking

PKTYP	Count	Percent
On Destination Property (Driveway or Surface Lot)	5727	71.8%
On Destination Property (Garage or Parkade)	1696	21.3%
On Street by Destination Property	265	3.3%
Different Location - Surface Lot (Address)	85	1.1%
Different Location - Parkade (Address)	75	0.9%
Different Location - Street (Address)	31	0.4%
Did Not Park (Pick Up or Drop Off)	17	0.2%
Other, SPECIFY	33	0.4%
Don't Know	40	0.5%
Refused	10	0.1%
Total	7979	100.0%

Table G-43: Frequency of Parking Payments Per Time Unit

PCFREQ	Count	Percent
Per Hour	2	2.6%
Per Day	10	13.2%
Per Week	1	1.3%
Per Month	49	64.5%
Per Year	3	3.9%
Other, Specify	8	10.5%
Refused	3	3.9%
Total	76	100.0%

Table G-44: Number of Volunteer Jobs

VJOBS	Count	Percent
1	2333	65.8%
2	767	21.6%
3	266	7.5%
4	75	2.1%
5	28	0.8%
6	7	0.2%
7	3	0.1%
8	2	0.1%
9	1	0.0%
10	6	0.2%
Refused	57	1.6%
Total	3545	100.0%

Table G-45: Range of Hours Volunteered Last Week

VLSTWK	Count	Percent
Less than 20 hours per week	3374	95.2%
20 – less than 40 hours per week	138	3.9%
40 – less than 60 hours per week	23	0.6%
60 or more hours per week	10	0.3%
Total	3545	100.0%

Table G-46: Typical Volunteer Week

VTPCL	Count	Percent
Yes	2682	75.7%
No	793	22.4%
Don't Know	63	1.8%
Refused	7	0.2%
Total	3545	100.0%

Table G-47: Range of Hours Typically Volunteer Per Week

VHOURS	Count	Percent
Less than 20 hours per week	804	93.2%
20 – less than 40 hours per week	38	4.4%
40 – less than 60 hours per week	11	1.3%
60 or more hours per week	10	1.2%
Total	863	100.0%

Table G-48: Volunteer Location

VLOC	Count	Percent
Fixed Location Outside of Home	1 649	46.5%
Telecommuter	18	0.5%
Work at Home	337	9.5%
No Place of Work (Taxi Driver or Salesman)	22	0.6%
Place of Work may change Day to Day	1 489	42.0%
Place of Work Beyond Daily Commuting Distance	30	0.8%
Total	3 545	100.0%

Table G-49: Parking Offered at Volunteer Location

VPRK	Count	Percent
Yes - Free	2 652	74.8%
Yes - Paid	99	2.8%
No	669	18.9%
Don't Know	114	3.2%
Refused	11	.3%
Total	3 545	100.0%

Table G-50: Type of Parking

VPKTYP	Count	Percent
On Destination Property (Driveway or Surface Lot)	2 205	80.2%
On Destination Property (Garage or Parkade)	183	6.7%
On Street by Destination Property	261	9.5%
Different Location - Surface Lot (Address)	32	1.2%
Different Location - Parkade (Address)	3	0.1%
Different Location - Street (Address)	27	1.0%
Did Not Park (Pick Up or Drop Off)	9	0.3%
Other, Specify	18	0.7%
Don't Know	6	0.2%
Refused	7	0.3%
Total	2 751	100.0%

Table G-51: Education Attained

EDUCA	Count	Percent
Pre-School	876	4.1%
Kindergarten – Grade 6	1 523	7.1%
Grades 7 to 9	894	4.1%
Grades 10 to 12	4 748	22.0%
University – Undergraduate	4 306	20.0%
University – Graduate	4 479	20.8%

EDUCA	Count	Percent
College (e.g. Bow Valley College)	1851	8.6%
Technical or Trades School (e.g. SAIT or Apprenticeship)	2137	9.9%
Other, Specify	572	2.7%
Refused	164	0.8%
Total	21550	100.0%

Table G-52: Student Status

STUDE	Count	Percent
Yes - Full Time	3686	17.1%
Yes - Part Time	947	4.4%
No	16917	78.5%
Total	21550	100.0%

Table G-53: Student's School Level

SCHOL	Count	Percent
Pre-school/ Daycare	503	10.9%
Kindergarten to Grade 6	1491	32.2%
Grade 7 to 9	642	13.9%
Grade 10 to 12	754	16.3%
University - Undergraduate	608	13.1%
University - Graduate	240	5.2%
College (example would be Bow Valley College)	144	3.1%
Technical School or Trade School (example would be SAIT or Apprenticeship)	238	5.1%
Other, SPECIFY	8	0.2%
Refused	5	0.1%
Total	4633	100.0%

Table G-54: Education Range

ALTSCHOL	Count	Percent
Pre-School to Grade 8	1	20.0%
Grade 9 to 12	1	20.0%
Technical/vocational school, college/university (2 or 4-year)	3	60.0%
Total	5	100.0%

Table G-55: Hours Spent at School Per Week

SHOURS	Count	Percent
Less than 10 hours per week	768	16.6%
10 – less than 20 hours per week	454	9.8%
20 – less than 30 hours per week	541	11.7%
30 – less than 40 hours per week	2298	49.6%
More than 40 hours per week	547	11.8%
Refused	25	0.5%
Total	4633	100.0%

Table G-56: Range of Hours Spent at School Per Week: Full-Time Student

FTSHRS	Count	Percent
Less than 10 hours per week	3	25.0%
10 – less than 20 hours per week	2	16.7%
20 – less than 30 hours per week	3	25.0%
30 – less than 40 hours per week	4	33.3%
More than 40 hours per week	0	0.0%
Total	12	100.0%

Table G-57: Range of Hours Spent at School Per Week: Part-Time Student

PTSHRS	Count	Percent
Less than 10 hours per week	11	84.6%
10 – less than 20 hours per week	2	15.4%
Total	13	100.0%

Table G-58: Possession of Transit Pass

TPASS	Count	Percent
Yes	3253	15.1%
No	18297	84.9%
Total	21550	100.0%

Table G-59: Transit Pass Type

TPTYP	Count	Percent
Adult Monthly Pass	1191	36.6%
Youth Monthly Pass	333	10.2%
U-pass (Fees Paid Through Post-Secondary Institution)	532	16.4%
Senior Pass (Yearly)	904	27.8%
Transit Employee Pass	44	1.4%
Adult Day Pass	44	1.4%
Youth Day Pass	12	0.4%
Access Calgary Attendance Card	21	0.6%
Uniformed, Postal Workers, Police, Fire Fighter, EMS	7	0.2%
Low Income Monthly Pass	38	1.2%
Southland Commuter Pass	3	0.1%
Airdrie / Crossfield Commuter Pass	5	0.2%
Other, SPECIFY	119	3.7%
Total	3253	100.0%

Table G-60: Discount or Subsidized Transit Pass Available

DISPAS	Count	Percent
Yes	2821	15.4%
No	15465	84.5%
Refused	11	0.1%
Total	18297	100.0%

Table G-61: Participates in a Discounted or Subsidized Pass Program

DISTP	Count	Percent
Does not Participate	1729	53.2%
Adult Monthly Pass	40	1.2%
Youth Monthly Pass	89	2.7%
U-pass (Fees Paid Through Post-Secondary Institution)	179	5.5%
Senior Pass (Yearly)	416	12.8%
Transit Employee Pass	459	14.1%
Adult Day Pass	27	.8%
Youth Day Pass	9	.3%
Access Calgary Attendance Card	6	.2%
Uniformed, Postal Workers, Police, Fire Fighter, EMS	17	.5%
Low Income Monthly Pass	4	.1%
Southland Commuter Pass	44	1.4%
Strathmore / Chestermere Commuter	3	.1%

DISTP	Count	Percent
Other, Specify	83	2.6%
Don't Know	113	3.5%
Refused	35	1.1%
Total	3253	100.0%

Appendix H: Retrieval Item Unweighted Frequencies

Table H-1: Computed Household Income

INCOM	Count	Percent
Less than \$15,000	207	2.3%
\$15,000-\$29,999	574	6.4%
\$30,000-\$49,999	992	11.0%
\$50,000-\$74,999	1565	17.4%
\$75,000 - \$99,999	1211	13.4%
\$100,000 - \$149,999	2065	22.9%
\$150,000 - \$199,999	942	10.4%
\$200,000 or more	797	8.8%
Don't Know / Refused	662	7.3%
Total	9015	100.0%

Table H-2: Trip Mode

MODE	Count	Percent
Walk	12710	16.4%
Bicycle	682	.9%
Other Non-Motorized	82	.1%
Auto or small truck driver	41160	53.2%
Auto or small truck passenger	17411	22.5%
Light Rail	1545	2.0%
Bus Rapid Transit (BRT or Express Bus)	285	.4%
Regular Bus	1840	2.4%
Access Calgary (Handi Bus or Special Needs Bus)	54	0.1%
Intercity Bus (e.g. Southland Okotoks Commuter Bus)	25	0.0%
School Bus (Calgary Transit)	254	0.3%
Taxi	185	0.2%
School Bus (Not Calgary Transit)	702	0.9%
Air Travel	225	0.3%
Other Motorized	266	0.3%
Total	77426	100.0%

Table H-3: Number of Household Members on Trip

HHMEM	Count	Percent
0	4584	14.6%
1	17385	55.2%
2	5866	18.6%
3	2870	9.1%
4	595	1.9%
5	138	.4%
6	49	.2%
7	8	.0%
Total	31495	100.0%

Table H-4: Vehicle Number for Trip

VEHNO	Count	Percent
1	32754	55.9%
2	18279	31.2%
3	3153	5.4%
4	570	1.0%
5	141	0.2%
6	47	0.1%
7	7	0.0%
9	5	0.0%
10	4	0.0%
Non-Household Vehicle	3611	6.2%
Total	58571	100.0%

Table H-5: Parked Vehicle

PARK	Count	Percent
Yes	47375	80.9%
No	10960	18.7%
Don't Know	161	0.3%
Refused	75	0.1%
Total	58571	100.0%

Table H-6: Pay to Park

PAYPK	Count	Percent
Yes	1850	3.9%
No	45345	95.7%
Don't Know	110	0.2%
Refused	70	0.1%
Total	47375	100.0%

Table H-7: Units of Paid Parking

PKUNT	Count	Percent
Per Hour	376	20.3%
Per Day	530	28.6%
Per Week	35	1.9%
Per Month	577	31.2%
Per Semester	22	1.2%
Per Year	92	5.0%
No Cost / Free	73	3.9%
Don't Know	121	6.5%
Refused	24	1.3%
Total	1850	100.0%

Table H-8: Location of Parking

PKTYP	Count	Percent
On Destination Property (Driveway Or Surface Lot)	29023	61.3%
On Destination Property (Garage Or Parkade)	10312	21.8%
On Street By Destination Property	6030	12.7%
Different Location – Surface Lot (Address)	577	1.2%
Different Location – Parkade (Address)	177	0.4%
Different Location – On Street (Address)	871	1.8%
Did Not Park (Pick Up Or Drop Off)	102	0.2%
Other, Specify	56	0.1%
Don' Know	158	0.3%
Refused	69	0.1%
Total	47375	100.0%

Table H-9: Was Vehicle Available

VAVAL	Count	Percent
Yes	8250	43.8%
No	8731	46.3%
Don't Know	1840	9.8%
Refused	34	0.2%
Total	18855	100.0%

Table H-10: Transit Service Used

SVC	Count	Percent
Calgary Transit	3857	96.4%
Airdrie Transit	4	0.1%
Southland Commuter	37	0.9%
First Student Airdrie / Crossfield Commuter	7	0.2%
First Student Strathmore / Chestermere	7	0.2%
Other, Specify	81	2.0%
Refused	10	0.2%
Total	4003	100.0%

Table H-11: How was fare paid

TRNPD	Count	Percent
One Way Tickets	606	15.1%
Day Pass	30	0.7%
Monthly Pass	1637	40.9%
Senior Pass	285	7.1%
Low Income Monthly Pass	64	1.6%
U-Pass	351	8.8%
Yearly Pass	62	1.5%
Child Pass	111	2.8%
Cash	303	7.6%
Other Specify	214	5.3%
Don't Know	337	8.4%
Refused	3	0.1%
Total	4003	100.0%

Table H-12: Transit Pass Available

TPASS	Count	Percent
Yes	103	34.0%

TPASS	Count	Percent
No	200	66.0%
Total	303	100.0%

Table H-13: Fare Payment Method

TXFAR	Count	Percent
Cash	99	53.5%
Other, Specify	76	41.1%
Don't Know	9	4.9%
Refused	1	0.5%
Total	185	100.0%

Table H-14: Who Paid the Fare

WHOPD	Count	Percent
Paid by Self	104	56.2%
Paid by Government	2	1.1%
Paid by Employer	47	25.4%
Paid by Another Traveling with You	23	12.4%
Shared Fare	7	3.8%
Don't Know	1	0.5%
Refused	1	0.5%
Total	185	100.0%

Table H-15: Activity Conducted at Location

APURP	Count	Percent
Household Activities (responsibilities / chore, dressing / bathing, child care, etc.)	41,946	23.0%
Sleeping	30,405	16.7%
Eating a meal	30,372	16.7%
Leisure / Entertainment (reading, watching TV / movies, playing games, surfing the Internet, spectator sports, etc.)	18,654	10.2%
Working (for pay)	9,480	5.2%
Change type of transportation/transfer (from car to bus, walk to bus, etc.)	8,410	4.6%
Routine shopping, (grocery, clothing, convenience store, household, maintenance)	7,817	4.3%
Social (visiting friends/relatives)	4,247	2.3%
Outdoor recreation (jogging, biking, walking, etc.)	3,408	1.9%
Indoor recreation (gym, yoga, etc.)	3,129	1.7%
Drop someone off	2,891	1.6%
Pick someone up	2,636	1.4%
Attend school (any activities at school)	2,451	1.3%

APURP	Count	Percent
Household errands (bank, dry cleaning, etc.)	2,395	1.3%
Personal business (visit government office, attorney, accountant, etc.)	2,092	1.1%
Work related (meeting, sales call, delivery)	1,710	0.9%
Homework	1,390	0.8%
Medical (doctor, dentist, etc.)	1,179	0.6%
Drive-through (ATM, bank, fast food, etc.)	1,093	0.6%
Religious or Civic	1,052	0.6%
Out of town	961	0.5%
Shopping for major purposes or specialty items (appliances, electronics, new vehicle, major household repairs, etc.)	858	0.5%
Get gas	833	0.5%
Volunteer	799	0.4%
Service private vehicle (oil, lube, etc.)	503	0.3%
Shopping online, catalogue, or by phone	461	0.3%
Other, please specify	360	0.2%
Attend daycare	267	0.1%
Airport – personal	175	0.1%
Airport – business	85	0.0%
Total	182,059	100.0%

Table H-16: Reason for No Trips

NOGO	Count	Percent
Personally Sick	511	10.7%
Vacation or Personal Day	673	14.1%
Caretaking Sick Kids	27	0.6%
Caretaking Sick Other	40	0.8%
Home-bound Elderly or Disabled	269	5.7%
Worked at Home for Pay	161	3.4%
Not Scheduled to Work	393	8.3%
Worked Around Home (Not for Pay)	853	17.9%
Out of Area	866	18.2%
No Transportation Available	27	0.6%
Other, Specify	938	19.7%
Total	4758	100.0%

Appendix I: Survey Materials

Figure I-1: Advance Brochure

This is your opportunity to help!

Your information is important, no matter how you travel, where you go, or even if you stay home.

Results from the CARTAS will help ensure future transportation projects reflect what your community needs and that your money is spent wisely.

How were results from the 2001 survey used?

- ▶ **The Transportation Infrastructure Investment Program (TIIP)**
The TIIP identifies and prioritizes transportation investments. The goal is to improve mobility in the region by refining existing infrastructure and providing more transportation options.
- ▶ **Stoney Trail and the East Freeway**
This project, scheduled for completion in 2013, will improve travel time to regional destinations and reduce congestion.
- ▶ **Glenmore Trail / Elbow Drive / 5 ST Interchange Detour Analysis**
This transportation study allowed the City of Calgary to plan an effective construction detour and minimize delays.



CALGARY AND REGION TRAVEL AND ACTIVITY SURVEY

We need your help to improve transportation
Everyone matters!

Survey conducted by PTV NuStats on behalf of:



In partnership with:






123456789012
PIN#: 12345678

JOHN SMITH
520 JACKSON BLVD
CALGARY, AB T3B 2V3



**CALGARY AND REGION
TRAVEL AND ACTIVITY SURVEY**

© 2011 PTV NuStats
City of Calgary, Alberta T3E 3E2

What is the Travel and Activity Survey?

The Calgary and Region Travel and Activity Survey (CARTAS) collects information from participating households in the region about:

- ▶ WHERE people go
- ▶ WHEN they go
- ▶ HOW they get where they need to go
- ▶ WHAT they do when they get there

Why? To help transportation planners better understand how well our sidewalks, bikeways, transit systems, and roads are functioning and what improvements are necessary.
Most importantly, your responses will be used to help plan for these future transportation system improvements!



Confidentiality
This personal information is being collected for land use and transportation planning purposes for the Transportation Department of City of Calgary, under the authority of Section 33(2) of the Alberta Freedom of Information and Protection of Privacy Act (FOIP Act). The Survey Firm, PTV NuStats, is acting on behalf of the City of Calgary to collect and process the data from this survey and must adhere to the provisions of the FOIP Act. All information, related to personal identity, travel and activities, will be handled in accordance with the FOIP Act. For more questions about the collection and use of this information, contact the Calgary and Region Travel Survey Project Office at 403-268-6402.

How do you participate? Follow these 3 easy steps...

Step 1
Provide household information online or by phone

Participate in a survey about your household in ONE of the following ways:

Online: Go to www.cartas.ca
Enter the PIN# located on the mailing label of this brochure.

Phone: Call us toll-free at 1-877-261-4621, or a professional interviewer will call you if you have a listed phone number.

The survey collects information about your household such as the number of household members, their ages, where they work or go to school, and the number and types of vehicles you may own. **We collect this information because it helps ensure that we get input from all different types of households in the region.**

Step 2
Record your travel and activities for one day

We will mail travel diaries for everyone in your household along with instructions on how to use them. Each person should use a travel diary to record all the places they visit and their activities at each place on an assigned day. We ask that a parent or guardian fill out the travel diaries for children under age 17.

Step 3
Report your travel and activity information

After your household's travel day, report your travel information online, by mail, or by phone.

Your household can earn \$25 if everyone completes Steps 1 & 3 **ONLINE!**

Want to know how your travel information will be used?
Contact The City of Calgary at 3-1-1 or cartas@calgary.ca, or leave a message at 1-403-268-6402

Want more information about how to participate?
Call the toll-free survey hotline: 1-877-261-4621, send an email to: cartas@ptvnustats.com, or visit the survey website: www.cartas.ca

Figure I-2: Diary Letter (Non-GPS)



CALGARY AND REGION
TRAVEL AND ACTIVITY SURVEY

c/o Apache Superior Printing
3536 - 27th Street N.E.
Calgary, Alberta T1Y 5E2

John Smith
520 Jackson Pl NW
Calgary, AB T3B 2V3

February 1, 2012

Thank you for participating in the Calgary and Region Travel and Activity Survey! The information you provide, along with the information from thousands of other households, will help ensure that future transportation projects reflect what your community needs and that transportation funds are spent wisely. Remember that we value your input, no matter how much or how little you travel.

Thank you for completing Step 1 of the survey. Now, it's time for Steps 2 and 3. The way it works is simple:

Step 2 Record your travel and activities on your travel day.

- ▶ **First, read the Travel and Activity Diary Guide. Then review the Instructions and Example inside the diary.**
- ▶ **Next, record your travel and activities for 24 hours on Friday, February 10.**
Enclosed are diaries for each household member and any visitors. Use these diaries to record details about all the places you go and activities you do, whether in town or out-of-town, on your travel day. We ask that an adult assist anyone younger than 17 to complete the diary.

Step 3 Report your travel and activity information to us in **ONE** of the following ways:

- ▶ **Online:** Go to www.cartas.ca, click "Report Travel" and enter PIN# **1234567AB**
We prefer that each person enters his/her own travel information, although an adult may assist anyone younger than 17.
- ▶ **Mail:** Use the enclosed postage paid envelope to return your completed diaries. If you choose this option, we may need to call you to clarify or collect any missing information.
- ▶ **Phone:** An interviewer will call after your travel day to collect your household's information. Or, call the toll-free survey hotline at 1-877-261-4621 and an interviewer will return your call.

The survey is being conducted for The City of Calgary, in partnership with Alberta Transportation and the Calgary Regional Partnership, by PTV NuStats, a professional survey company. All information collected will be held strictly confidential and used only in combination with information provided from other participating households.

If you have questions about the survey or need help completing your diary, visit www.cartas.ca, or call our toll-free survey hotline at 1-877-261-4621 (7am-6pm MST weekdays and 8am-3pm MST weekends).

Thank you again for providing the details that will help improve transportation choices for our region.

Sincerely,

Mac Logan, *General Manager*
Transportation



Colleen Shepard, *Executive Director*




Jim Der, *Executive Director*
Planning Branch



Survey conducted by PTV NuStats on behalf of The City of Calgary
and in partnership with Alberta Transportation and the Calgary Regional Partnership

Figure I-3: Diary



Travel and Activity Diary for:

First Name: _____

Last Name: _____

Travel Day: _____

PIN#: _____

Please carry this diary on your travel day to record:

- ✓ ALL the PLACES you visit
- ✓ ALL the stops you make
- ✓ ALL the ACTIVITIES you do

Thank you very much!

1. How many people, including yourself, were in your household on your travel day?

2a. How many people, from outside the Calgary Region, visited your household on your travel day?

2b. If you had visitors, where were they from? _____

3a. What is the name and address of your regular workplace (*primary job*)? Not employed
 Work at home (for pay)
 Self-employed

Name of workplace (*primary job*): _____

Street address or nearest cross streets: _____

City: _____ Province: _____ Postal Code: _____

3b. Did you go to work today? Yes No Why not: _____

3c. Did you need to use your household vehicle while at work to perform your job today? Yes No

4a. What is the name and address of your school? Not a student
 Home-school

Name of school: _____


Street address or nearest cross streets: _____

City: _____ Province: _____ Postal Code: _____


4b. Did you go to school today? Yes No Why not: _____

Please begin recording your travel and activity information inside!


How Do I Provide My Diary Information?

 **Online:** Go to www.cartas.ca
Click "Report Travel" and enter the PIN# printed on the front of this diary.

OR

 **Mail:** Return your completed diaries in the postage paid envelope provided in your packet. We may need to call you to clarify or collect any missing information.

OR

 **Phone:** Keep your completed diaries by the phone and we will call you to collect the information. Or, you can call the toll-free survey hotline (1-877-261-4621) and an interviewer will return your call.

For more information, visit the survey website at:

www.cartas.ca


For questions or help filling out your Travel and Activity Diary:

Call the toll-free survey hotline
1-877-261-4621


or send an email to
cartas@ptvnustats.com

Thank you for your participation!

Survey conducted by PTV NuStats
on behalf of:



In partnership with:



Government of Alberta
Transportation

DIARY INSTRUCTIONS

Use this diary to record ALL the PLACES you visit and ALL the ACTIVITIES you do on your travel day. We ask that an adult assist anyone younger than 17 to complete the diary.

A PLACE IS: Any location you travel to, no matter how long you are there.
ACTIVITIES ARE: What you do and the reasons for your travel.

Examples: • stop for gas • a drive-through window • drop off or pick up someone
 • walk to lunch • drive to a meeting during your workday • bike to the park

A place can also be a transfer point such as a transit stop or a parking location.

Please provide the following information:

- ✓ ALL the **PLACES** you visit. Record one place per page. The place name and exact address or nearest cross streets are critical for analyzing areas with traffic congestion.

A few points to remember:

Parking locations: If you park your car and walk more than 5 minutes, record the parking location as a separate place.

Work-related trips: If you drive as part of your job duties, only record those trips made if the vehicle you drive is owned by you or serves as your personal vehicle.
- ✓ **EXACT TIMES** you arrive and leave each place.
- ✓ How you **TRAVEL** to each place. Write the code from **LIST 1 - Means of Travel** (codes are on the flap of the back cover). We are interested in all types of travel: by auto, walking, biking, transit, etc.
- ✓ ALL **ACTIVITIES** or what you do at each place and the starting and ending times for each activity. Write the code from **LIST 2 - Activities** (codes are on the flap).

Once you have completed your diary, please follow the instructions on the back cover. Thank you!

Questions? Call the toll-free survey hotline: 1-877-261-4621

Confidentiality

This personal information is being collected for land use and transportation planning purposes for the Transportation Department of City of Calgary, under the authority of Section 33(6) of the Alberta Freedom of Information and Protection of Privacy Act (FOIP Act). The Survey Firm, PTV NuStats, is acting on behalf of The City of Calgary to collect and process the data from this survey and must adhere to the provisions of the FOIP Act. All information, related to personal identity, travel and activities, will be handled in accordance with the FOIP Act. If you have questions about the collection and use of this information, contact the Calgary and Region Travel Survey Project Office at 403-268-6402.

Example PLACE

To see an example of an entire travel day, please visit www.cartas.ca

A What time did you ARRIVE at this place? (Record exact time)

B WHAT is this PLACE?
 My Home
 My Primary Job
 My School
 My Second Job
 Transit Stop (bus or rail)
 Other Place

Name of Place:
 Street address or nearest cross streets:
 City: Province: Postal Code:

C HOW did you TRAVEL there? (Write code from LIST 1) How many people travelled with you? (Don't include self) How many were household members? (Don't include self)

D If travelled by PRIVATE VEHICLE: OR If travelled by PUBLIC TRANSIT: OR If travelled by TAXI:

Which household vehicle did you use? (Year / Make / Model)

 Same as previous vehicle
 Did not use a household vehicle

If you parked at this location, where did you park?
 Did not park
 Garage
 Driveway
 Surface lot
 Parkade
 On street

What are the nearest cross streets to this parking location?

How much did you pay to park?
 \$ per Did not pay

What transit service did you use?
 Calgary Transit
 Airdrie Transit
 Southland Commuter
 First Student Airdrie / Crossfield Commuter
 First Student Strathmore / Chestermere
 Other:

What was the total fare?
 \$

How did you pay the fare?
 Cash
 Other:

Who paid the fare?
 Self
 Government
 My employer
 Other person travelling with me
 I split the fare with another person travelling with me

Which transit Route or Line?

How did you pay the fare?
 Cash/Ticket: \$
 Pass: Type:

If you didn't use a pass, was one available? Yes No

Was a private vehicle available for your use? Yes No

E What ACTIVITIES did you do there? (Write codes from LIST 2 and the start and end times for each activity.)

Activity	Code	Start Time	End Time	Activity	Code	Start Time	End Time
1	22	6:32 am (pm)	7:10 am (pm)	6	24	8:44 am (pm)	9:36 am (pm)
2	1	7:10 am (pm)	7:35 am (pm)	7	2	9:36 am (pm)	3:59 am (pm)
3	3	7:35 am (pm)	8:00 am (pm)	8		: am / pm	: am / pm
4	1	8:00 am (pm)	8:16 am (pm)	9		: am / pm	: am / pm
5	19	8:16 am (pm)	8:44 am (pm)	10		: am / pm	: am / pm

F What TIME did you LEAVE this place? : am / pm → Move on to the next PLACE.
 I didn't leave this place → You are DONE. Thank You!

LIST 1 - Means of Travel

Non-Motorized Travel:

- 1 Walk
- 2 Bicycle
- 3 Other Non-motorized

Private Vehicle:

- 4 Vehicle Driver (*auto or small truck*)
- 5 Vehicle Passenger (*auto or small truck*)

Public Transit:

- 6 Light Rail
- 7 Bus Rapid Transit (*BRT or Express Route*)
- 8 Regular Bus
- 9 Access Calgary (*Handi Bus & Special Needs Bus*)
- 10 Intercity Bus (e.g., *Southland Okotoks Commuter Bus*)
- 11 School Bus (*Calgary Transit*)

Taxi:

- 12 Taxi

Other Travel Methods:

- 13 School Bus (*not Calgary Transit*)
- 14 Air Travel
- 15 Other Motorized

LIST 2 is inside flap



Did you remember to . . .

- ✓ Record each place you went, even short walks, quick stops, and places you went in the evening?
- ✓ Record exact place names and complete addresses?
- ✓ Record all the activities that you did at each place?
- ✓ Record accurate arrival and departure times?

LIST 2 - Activities

Personal Activities / Eating / Errands:

- 1 Household activities (*responsibilities / chores, personal care, child care, etc.*)
- 2 Sleeping
- 3 Eating a meal
- 4 Service private vehicle (*oil, lube, etc.*)
- 5 Household errands (*bank, dry cleaning, etc.*)
- 6 Personal business (*visit government office, attorney, accountant, etc.*)
- 7 Medical (*doctor, dentist, etc.*)

Change Means of Travel / Transfer:

- 8 Change type of transportation / transfer (*from car to bus, walk to bus, etc.*)

Quick Stops / Trips:

- 9 Drop someone off
- 10 Pick someone up
- 11 Drive-through (*ATM, bank, fast food, etc.*)
- 12 Get gas

Work / Volunteer related:

- 13 Working (*for pay*)
- 14 Volunteer
- 15 Work related (*meeting, sales call, delivery*)

School / Daycare / Post-Secondary related:

- 16 Attend school (*any activity at school*)
- 17 Attend daycare
- 18 Homework

Shopping:

- 19 Shopping online, catalogue, or by phone
- 20 Routine shopping (*grocery, clothing, convenience store, household maintenance*)
- 21 Shopping for major purchases or specialty items (*appliances, electronics, new vehicle, major household repairs, etc.*)

Recreation / Entertainment / Social / Civic:

- 22 Outdoor recreation (*jogging, biking, walking, playing sports, etc.*)
- 23 Indoor recreation (*gym, yoga, playing sports, etc.*)
- 24 Leisure / Entertainment (*reading, watching TV / movies, playing games, surfing the Internet, spectator sports, etc.*)
- 25 Social (*visiting friends / relatives*)
- 26 Religious or Civic

Other:

- 27 Airport – business
- 28 Airport – personal
- 29 Out of town
- 97 Any other activity

PLACE 1

BEGIN RECORDING HERE

Your travel day begins with Place 1 at 4 a.m. If you are at home, check "My Home," then record ALL the activities you do and the time you leave.

REMEMBER!

A PLACE can be a transfer point such as a transit stop or a parking location. Record ALL the Activities you do at each place. If you have more than 10 at one location, please record them on a separate piece of paper.

A WHERE were you at 4 a.m. on your travel day?

My Home
 My Primary Job
 My School
 My Second Job
 Transit Stop (bus or rail)
 Other Place

Name of Place: _____

Street address or nearest cross streets: _____

City: _____ Province: _____ Postal Code: _____

B What ACTIVITIES did you do there? (Write codes from LIST 2 and the start and end times for each activity.)

Code:	Start Time:	End Time:	Code:	Start Time:	End Time:
Activity 1:	4:00 am / pm	: : am / pm	Activity 6:	: : am / pm	: : am / pm
2:	: : am / pm	: : am / pm	7:	: : am / pm	: : am / pm
3:	: : am / pm	: : am / pm	8:	: : am / pm	: : am / pm
4:	: : am / pm	: : am / pm	9:	: : am / pm	: : am / pm
5:	: : am / pm	: : am / pm	10:	: : am / pm	: : am / pm

C What TIME did you LEAVE? _____ : _____ am / pm → **Move on to the next PLACE**
 (Please record exact time)
 I didn't leave this place today → **Answer D Below**

D What is the MAIN reason you didn't leave this place today?

I was sick
 Vacation or personal day
 Child was sick
 Other household member was sick
 I am homebound, elderly, or disabled
 Worked at home (for pay)
 Not scheduled to work
 Worked around home (not for pay)
 No transportation available
 Other: _____

**If you didn't leave this place today and you did more than ten activities, please record the codes and start and end times for each activity on a separate piece of paper.*

IF YOU DIDN'T LEAVE THIS PLACE TODAY: You are done. Thank you!

PLACE 2

A What time did you ARRIVE at this place? (Record exact time) _____ : _____ am / pm

B WHAT is this PLACE?

My Home
 My Primary Job
 My School
 My Second Job
 Transit Stop (bus or rail)
 Other Place

Name of Place: _____

Street address or nearest cross streets: _____

City: _____ Province: _____ Postal Code: _____

C HOW did you TRAVEL there? How many people travelled with you? (Don't include self) How many were household members? (Don't include self)

(Write code from LIST 1) _____ you? _____ household members? _____

D If travelled by PRIVATE VEHICLE: OR If travelled by PUBLIC TRANSIT: OR If travelled by TAXI:

Which household vehicle did you use? (Year / Make / Model)

Did not use a household vehicle
 Garage
 Driveway
 Surface lot
 Other: _____

If you parked at this location, where did you park?

Did not park
 On street
 Other: _____

What are the nearest cross streets to this parking location?

How much did you pay to park? \$ _____ per _____ Did not pay

What transit service did you use?

Calgary Transit
 Airdrie Transit
 Southland Commuter
 First Student Airdrie / Crossfield Commuter
 First Student Strathmore / Chestermere
 Other: _____

What was the total fare? \$ _____

How did you pay the fare?

Cash
 Other: _____

Who paid the fare?

Self
 Government
 My employer
 Other person travelling with me
 I split the fare with another person travelling with me

Which transit Route or Line?

How did you pay the fare?

Cash/Ticket: \$ _____
 Pass: Type: _____

If you didn't use a pass, was one available? Yes No

Was a private vehicle available for your use? Yes No

E What ACTIVITIES did you do there? (Write codes from LIST 2 and the start and end times for each activity.)

Code:	Start Time:	End Time:	Code:	Start Time:	End Time:
Activity 1:	: : am / pm	: : am / pm	Activity 6:	: : am / pm	: : am / pm
2:	: : am / pm	: : am / pm	7:	: : am / pm	: : am / pm
3:	: : am / pm	: : am / pm	8:	: : am / pm	: : am / pm
4:	: : am / pm	: : am / pm	9:	: : am / pm	: : am / pm
5:	: : am / pm	: : am / pm	10:	: : am / pm	: : am / pm

F What TIME did you LEAVE this place? _____ : _____ am / pm → **Move on to the next PLACE.**
 (Please record exact time)
 I didn't leave this place → **You are DONE. Thank You!**

Appendix J: Tiered Variable Matrix

Table J-1: Tier 0-1

Data File	Variable Name	Variable Label
ACTIVITY	ACTNO	ACTIVITY NUMBER
	APURP	ACTIVITY PURPOSE
	ETIME	ACTIVITY END TIME
	O_APURP	OTHER ACTIVITY PURPOSE
	PERNO	PERSON NUMBER
	PLANO	PLACE NUMBER
	SAMPN	SAMPLE NUMBER
	STIME	ACTIVITY START TIME
HH	ASSN	TRAVEL DAY
	DIARY	NUMBER OF TRAVEL DIARIES MAILED
	DOW	TRAVEL DAY OF WEEK
	HHCHD	NUMBER OF HH CHILDREN
	HHLIC	NUMBER OF HH LICENSED DRIVERS
	HHSIZ	NUMBER OF HH MEMBERS
	HHSTU	NUMBER OF HH STUDENTS
	HHVEH	NUMBER OF HH VEHICLES
	HHVIS	NUMBER OF VISITORS FROM OUTSIDE CALGARY
	HHWRK	NUMBER OF HH WORKERS
	HTRIPS	NUMBER OF HH TRIPS ON ASSN
	RECMODE	RECRUITMENT MODE
	RETMODE	RETRIEVAL MODE
	SAMPN	SAMPLE NUMBER
	STYPE	SAMPLE TYPE
LOC	ADDR	ADDRESS
	HADDR	HOME ADDRESS
	HPC	HOME POSTAL CODE
	HPROV	HOME PROVINCE
	HSUIT	HOME SUIT
	HXCORD	HOME X COORD
	HYCORD	HOME Y COORD
	PLANO	PLACE NUMBER
	SADDR	SCHOOL ADDRESS

Data File	Variable Name	Variable Label
	SXCORD	SCHOOL X COORD
	SXST1	SCHOOL CROSS STREET 1
	SXST2	SCHOOL CROSS STREET 2
	SYCORD	SCHOOL Y COORD
	WADDR	WORK ADDRESS
	WSUIT	WORK SUITE
	WXCORD	WORK X COORD
	WYCORD	WORK Y COORD
	XCORD	X COORD
	YCORD	Y COORD
PERSON	AGE	AGE, EXACT
	ALTAGE	Alternate Age, if Age=Refused
	ALTLSTWK	Alternate Last Week Work Hours, if LSTWK=Refused
	ALTLSTWK1	Alternate Last Week Work Hours, if LSTWK1=Refused
	ALTSCHOL	Alternate School Range
	ALTPPTYP	Alternate Transit Pass Type
	ALTVHOURS	Alternate Volunteer Hours, if VHOURS=Refused
	ALTVLSTWK	Alternate Last Week Volunteer Hours, if VLSTWK=Refused
	ALTWHOURS	Alternate Work Hours, if WHOURS=Refused
	ALTWHOURS1	Alternate Work Hours, if WHOURS1=Refused
	ALWKSTAT	Alternate Worker Status, if WKSTAT=Refused
	EMPLY	EMPLOYED
	LSTWK	NUMBER OF HOURS WORKED LAST WEEK
	NOGO	REASON NO TRAVEL WAS REPORTED
	O_ALTPTYP	Alternate Transit Pass Type, Other
	O_NOGO	OTHER REASON NO TRAVEL WAS REPORTED
	O_SCHOL	OTHER LEVEL OF SCHOOL
	O_TPTYP	OTHER TYPE OF TRANSIT PASS AVAILABLE
	O_WKSTAT	OTHER NON WORKER STATUS
	PERNO	PERSON NUMBER
	PROXY	Proxy Reporting
	PROXYPERNO	Person Number Interviewed
	PTrips	NUMBER OF PERSON TRIPS
	RESI	REGIONAL RESIDENT OR NOT
	SAMPN	SAMPLE NUMBER
	SCHOL	LEVEL OF SCHOOL

Data File	Variable Name	Variable Label
	SHOURS	SCHOOL HOURS
	SNAME	SCHOOL NAME
	STUDE	STUDENT STATUS
	TPASS	TRANSIT PASS AVAILABLE
	TPTYP	TYPE OF TRANSIT PASS AVAILABLE
	WHOURS	IF LAST WEEK ATYPICAL, HOUR USUALLY WORKED PER WEEK
	WKSTAT	NON WORKER STATUS
	WLOC	WORK LOCATION - FIXED, VARIED, ETC
	WORKS	WORK STATUS
	WVEH	DO YOU NEED A VEHICLE TO PERFORM YOUR JOB
PLACE	ACT_DUR	ACTIVITY DURATION
	ARR_HR	ARRIVAL HOUR
	ARR_MIN	ARRIVAL MINUTE
	DEP_HR	DEPARTURE HOUR
	DEP_MIN	DEPARTURE MINUTE
	HHMEM	NUMBER OF HH MEMBERS IN TRAVEL PARTY
	LOCNO	LOCATION NUMBER
	MODE	MODE OF TRAVEL
	NONHH	NUMBER OF NON HH MEMBERS ON TRIP
	PER1	PERSON NUMBER ON TRIP
	PER2	PERSON NUMBER ON TRIP
	PER3	PERSON NUMBER ON TRIP
	PER4	PERSON NUMBER ON TRIP
	PER5	PERSON NUMBER ON TRIP
	PERNO	PERSON NUMBER
	PLANO	PLACE NUMBER
	SAMPN	SAMPLE NUMBER
	TOTTR	PARTY SIZE, INCLUDING RESPONDENT
	TRIPDIST	TRIP DISTANCE
	TRPDUR	TRIP DURATION
VEHICLE	SAMPN	SAMPLE NUMBER
	VEHNO	VEHICLE NUMBER

Table J-2: Tier 2a

Data File	Variable Name	Variable Label
HH	O_OWN	OTHER OWNER STATUS
	O_RESTY	OTHER RESIDENCE TYPE
	OWN	OWNER STATUS
	RESTY	RESIDENCE TYPE
	RMS	NUMBER OF ROOMS
LOC	CITY	CITY
	POSTCODE	POSTAL CODE
	PROV	PROVINCE
	SCITY	SCHOOL CITY
	SPC	SCHOOL POSTAL CODE
	SPROV	SCHOOL PROVINCE
	WCITY	WORK CITY
	WPC	WORK POSTAL CODE
	WPROV	WORK PROVINCE
PERSON	DISAB	DISABILITY STATUS
	GEND	GENDER
	JOBS	NUMBER OF JOBS
	LIC	LICENSED DRIVER
	O_DISTP	OTHER KIND OF DISCOUNTED OR SUBSIZED PASS AVAILABLE
	O_EDUCA	OTHER EDUCATION
	SELF	SELF EMPLOYED OR NOT
	VOLUN	VOLUNTEER
	WNAME	WORK NAME
PLACE	O_PKTYP	OTHER LOCATION OF PARKING
	O_SVC	OTHER TRANSIT SERVICE USED FOR TRIP
	O_TRNPD	OTHER FARE PAYMENT METHOD
	PARK	WAS VEHICLE PARKED ON TRIP
	PAYPK	IF PARKED, WAS IT PAID PARKING
	PKAMT	AMOUNT OF PAID PARKING
	PKTYP	LOCATION OF PARKING
	SVC	TRANSIT SERVICE USED FOR TRIP
	TPASS	WAS A TRANSIT PASS AVAILABLE
	VEHNO	VEHICLE NUMBER USED ON TRIP
	VEHICLE	FUEL
YEAR		VEHICLE YEAR

Table J-3: Tier 2b

Data File	Variable Name	Variable Label
PERSON	EDUCA	EDUCATION
	EMPRK	PARKING OFFERED AT WORK
	INDUS	INDUSTRY
	O_INDUS	OTHER INDUSTRY
	O_OCCUP	OTHER OCCUPATION
	O_PKTYP	OTHER TYPE OF PARKING OFFERED AT WORK
	O_WPLOC	OTHER SPECIFIC WORK PARKING LOCATION
	O_WPLOC1	OTHER SPECIFIC WORK PARKING LOCATION, Second Job
	OCCUP	OCCUPATION
	PKTYP	TYPE OF PARKING OFFERED AT WORK
	TPCL	TYPICALITY OF LAST WEEK WORK HOURS
PLACE	O_TXFAR	OTHER METHOD OF FARE PAYMENT
	PKUNT	UNIT OF TIME PARKING WAS PAID FOR
	PNAME	PLACE NAME
	TRNPD	FARE PAYMENT METHOD
	TXFAR	METHOD OF FARE PAYMENT
	WHOPD	WHO PAID FARE
VEHICLE	CNTV	VEHICLE USED ON TRAVEL DAY
	MAKE	VEHICLE MAKE
	O_FUEL	OTHER FUEL TYPE
	O_MAKE	OTHER VEHICLE MAKE
	VOWN	VEHICLE OWNED, LEASED OR EMPLOYER PROVIDED

Appendix K: Supplemental Maps

Figure K-1: City of Calgary Geographic Zones

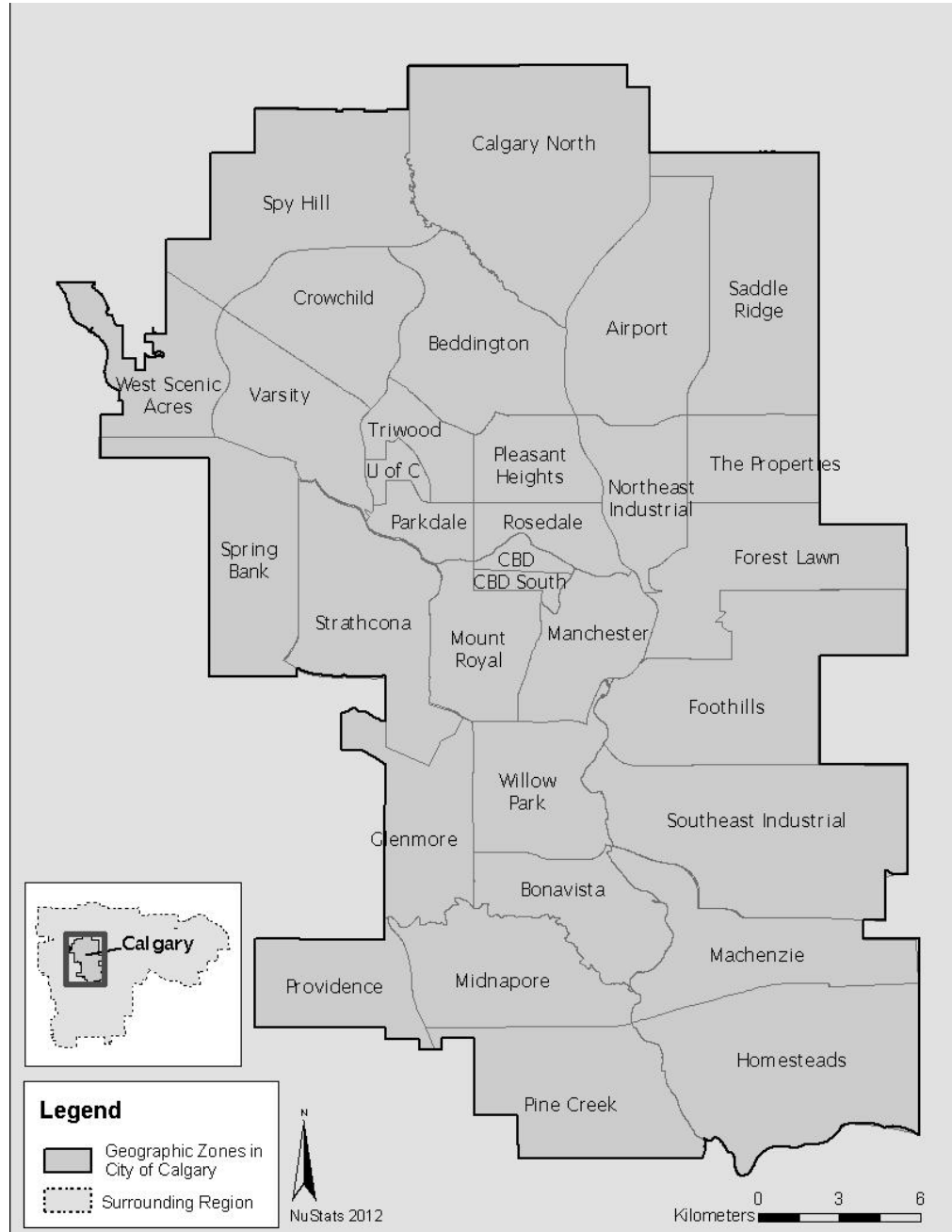


Figure K-2: Surrounding Region Geographic Areas

