

Houston-Galveston (H-GAC) Region Transportation Study

2022-2024 REGIONAL HOUSEHOLD ACTIVITY/TRAVEL SURVEY

SUMMARY REPORT



PREPARED BY:



MAY 2024

TABLE OF CONTENTS

Overview.....	3
Survey Implementation Plan	3
Selecting the Sample	4
Designing the Survey.....	7
Recruitment Procedure	8
Conducting the Household Activity Travel Survey	8
Conducting the Passive GPS Survey	11
Verifying and Editing Survey Data	13
App Algorithm Criteria	14
Lessons Learned	15
Summary of Appendices to This Report.....	16

APPENDIX

Appendix A: Household Data	17
Appendix B: Person Data.....	23
Appendix C: Vehicle Data	33
Appendix D: Recruitment Postcard.....	37
Appendix E: Tailored Recruitment Postcards for Smaller Project Counties	39
Appendix F: Lucid Chart.....	44
Appendix G: Online Survey Data & Review Tool & App Data	52
Appendix H: Flow Chart of App Algorithm.....	88

Overview

The Household/Activity Travel Survey for the H-GAC Region consisted of households in 8 counties: Harris, Liberty, Chambers, Galveston, Brazoria, Fort Bend, Waller, and Montgomery. The primary objective of the survey was to gather accurate travel and activity data from residents living in the region. The results of the survey will be used to update the H-GAC regional travel demand model. A wide range of data was gathered, which can be used for a variety of modeling applications, including the determination of:

- trip production rates by trip purpose
- trip distribution by time of day
- trip length frequency distributions
- modal share of travel
- auto occupancies



This report describes the survey sampling, design, recruitment, and data collection methods that were used for the H-GAC study area. Appendices at the end of the report include summary response data and survey instruments and materials used in the survey.

Survey Implementation Plan

Project Tasks

ETC Institute performed the following tasks as indicated in startup documentation provided by TxDOT:

- Designed the survey and the mobile app to be used for the 2022-24 H-GAC Region Household Travel Survey
- Conducted a pilot test
- Finalized survey instruments, materials, and procedures and provided them to TxDOT
- Coordinated and conducted surveys in the main data collection effort
- Verified, edited, and processed the survey data and provided interim submittals to TxDOT for the duration of the project
- Prepared survey documentation and reports

Key Personnel

The key personnel that conducted the 2022-2024 H-GAC Regional Household Travel Survey were:

ETC:

- Chris Tatham - CEO
- Nick Jones – Vice President of Data Management

- Jason Jones – Senior Research Analyst
- Christina Chafin – Director of Household Research
- Terry Brooks – Lead Supervisor of Data Management
- Mayank Gupta – Supervisor of Data Management
- Mike Rich – Call Center Supervisor

Texas A&M Transportation Institute (TTI):

- Ed Hard
- Mark Ojah

Project Schedule

ETC Institute was awarded the contract for the H-GAC Household Survey in the Summer of 2022 and began the pilot program in September of 2022. The full survey began in December 2022 and concluded in March 2024.

Selecting the Sample

At the beginning of the project, ETC Institute and representatives from Cambridge Systematics (CS), TxDOT and TTI met to review the data requirements for the region’s travel demand model. Since the primary purpose of the regional household activity travel survey is to support regional travel demand forecasting models, this meeting served as a forum to ensure the research team had a clear understanding of the data requirements for the region’s travel demand model.

CS was added to this project because of their expertise with the activity-based H-GAC travel demand model. In most metropolitan areas in Texas, TTI leads in managing the travel demand model. However, this is not the case for the H-GAC study area, which is why CS was included. The sample was primarily stratified by three variables: household size, number of persons employed in the households, and annual household income.

There were five categories for household size (1, 2, 3, 4 and 5+ persons) and five categories of household income (\$0-\$24,999, \$25,000-\$44,999, \$45,000-\$74,999, \$75,000-\$124,999, and \$125,000+). The total target number of complete and usable household surveys from the stratified sample was 8,104. Individual cell targets were determined based on the proportion of households in the study area that fell into each household size/income category. Table 1 shows the number of target household surveys to be completed for the project. In addition to stratified goals, there were also geographic goals based on the project counties. Table 2 shows the goals for each county. The county level goals were initially based on the household population percentage of that county in comparison to the entire set of project counties. To ensure a minimum goal number of 200 surveys from each county would be collected, some of the initial county goals were increased. Lastly, there were goals to survey groups of particular interest to the project team.

These goals included the following groups:

- Households with at least 1 transit user

- Households with at least 1 shared-ride user (Uber/Lyft)
- Households that speak English less than Very Well
- Households with no vehicles
- Households with at least 1 University student
- Households with at least 1 bicycle user on the travel date

The goals for these special groups are shown in Table 3.

Table 1: Target Number of Surveys to be Completed by Household Income & Household Size

Income Ranges	Household Size 1		Household Size 2		Household Size 3		*Household Size 4		*Household Size 5+		TOTAL
	No. Workers		No. Workers		No. Workers		No. Workers		No. Workers		
	0	1	0	1 +	0	1 +	0	1 +	0	1 +	
\$0-\$24,999	350	230	165	164	51	119	64	200	79	200	1,511
\$25,000-\$44,999	138	248	118	203	64	181		258		258	1,452
\$45,000-\$74,999	90	295	106	305		256		259		259	1,618
\$75,000-\$124,999	64	219	77	385		340		334		334	1,769
\$125,000+		108	68	485		337		339		339	1,754
Total	642	1,100	534	1,542	115	1,233	79	1,390	79	1,390	8,104

Table 2: Sampling Goals for 2022-23 by County (ensuring a minimum of 200 per county)

County	Population	% of Region	# Surveys	Oversampling	Revised Goal
Brazoria	379,689	5.3%	429	0	429
Chambers	48,865	0.7%	55	145	200
Fort Bend	858,527	12.0%	970	0	970
Galveston	355,062	4.9%	401	0	401
Harris	4,728,030	65.9%	5,339	0	5,339
Liberty	97,621	1.4%	110	90	200
Montgomery	648,886	9.0%	733	0	733
Waller	59,781	0.8%	68	132	200
TOTAL	7,176,461	100.0%	8,104	367	8,471

Table 3: FINAL SAMPLING PLAN with both Random (Table 1) and Oversampling Requirements

Sampling Group	Goal
Random Sample of the Region (Table 1)	8,104
Oversampling of Residents in Select Counties (Table 2)	367
Households with at least 1 transit user	409
Households with at least 1 shared-ride user (Uber/Lyft)	240
Households that speak English less than Very Well	240
Households with no vehicles	240
Households with at least 1 University student	200
Households with at least 1 bicycle user on the travel date	200
TOTAL	10,000

Table 4 shows the actual number of completed surveys that were obtained for each household size, number of employed, and income category. In addition to the distribution of the results below, all county and “Groups of interest” goals were achieved except the following: Waller and Chambers Counties (pre-oversampling requirement goals completed), and households with at least one shared-ride user (197 collected - 82% of goal completed)

Table 4: Completed Surveys by Household Income, Size, and Number Employed (0 = no one employed, 1/1+ equals at least one person in household is employed)

Income	Household Size 1		Household Size 2		Household Size 3		Household Size 4		Household Size 5+		Total
	0	1	0	1+	0	1+	0	1+	0	1+	
\$0-\$24,999	426	304	202	233	69	158	38	153	48	103	1,734
\$25,000-\$44,999	202	328	138	288	51	253	36	301	16	261	1,874
\$45,000-\$74,999	133	400	106	468	28	344	13	344	12	339	2,187
\$75,000-\$124,999	75	310	68	577	22	466	15	463	9	400	2,405
\$125,000+	55	178	54	691	9	452	6	418	3	318	2,184
Total	891	1,520	568	2,257	179	1,673	108	1,679	88	1,421	10,384

Designing the Survey

ETC Institute worked with TxDOT, TTI staff, and Cambridge Systematics to develop the household activity travel survey instrument that could be completed as a mail-out survey, an on-line web survey, or via an app downloaded to a mobile device. The survey was designed to be a 24-hour household activity travel diary that was recorded for each member of the household. The household survey and travel diaries were structured and worded to allow participants to answer the questions easily.



A postcard mailer was sent out to households in the area to help explain the survey, confirm legitimacy, and encourage residents to participate. The postcard also directed interested participations to the project website to learn more or sign up. ETC Institute worked with TxDOT and TTI to develop the postcard and survey materials. The main postcard used to recruit participants (shown above) along with tailored postcards for smaller project counties are provided in Appendix D, and Appendix E.

Pilot Survey. ETC Institute conducted the pilot in September 2022 using the approach provided by TxDOT in the project specifications. The pilot requirements were to fully complete 300 households. The pilot survey included a complete pretest and evaluation of the full survey methodology, including:

- sample generation
- telephone and postcard recruitment
- reminder call
- retrieval call
- data entry
- trip geocoding
- edit checks

Recruitment Procedure

ETC Institute utilized a sample of randomly-selected households from the H-GAC study area to recruit participants for the pilot and main survey data collection efforts. Approximately 320,000 postcards were mailed out across study area, yielding a response rate of around 3.25%. Note: During this project, a local Houston news outlet picked up on a story regarding the

Conducting the Household Activity Travel Survey

One factor that can greatly influence the quality and quantity of the data collected is the percentage of households recruited that participate in the survey. A low response rate can inherently bias the survey results. Consequently, a great deal of emphasis was placed on measures that would maximize the response rate to the survey.

Building Awareness of the Household Survey. Given the private nature of the data to be collected, public awareness was a key factor in the success of the survey. Persons who participated in the pilot survey indicated that the postcard was important because they knew the survey was legitimate.

ETC Institute worked with TxDOT to develop and administer an awareness campaign to inform the community about the survey. The campaign involved a two-tiered strategy.

- **Tier 1-General Awareness:** This tier involved building general awareness about the study in the region through newspaper and other general media sources. Press releases were sent by TxDOT to newspapers, radio stations, and television stations in the region. Prior to the survey, articles were published in area newspapers to promote the survey. Representatives from ETC Institute also met with representatives from the H-GAC Region. These meetings included discussions regarding how to boost legitimacy and response to outreach efforts. One of the solutions used for this project was to create a video that would be used to promote awareness and legitimacy of the survey efforts. Staff at H-GAC created a video that helped explain the importance of the survey effort while also helping to promote legitimacy and clarify branding by displaying the postcard that would be received from ETC along with appropriate logos. H-GAC displayed this video on their social media pages as well as their website. Additionally, ETC added the video to the project website.
- **Tier 2-Detailed Awareness:** The second tier involved direct communication with each of the households that were recruited to participate in the study. ETC Institute worked with TxDOT and TTI to design a series of direct mailings. In addition, ETC Institute established local and toll-free numbers that allowed households in the study area to contact ETC Institute if they had questions about the study.

Survey Administration Procedures. ETC Institute administered the Household Activity Travel Survey to a randomly-selected household in the H-GAC study area in 2022-24. The data collection effort took two full school years for several reasons:

- 1) the pilot test was larger than normal and included 300 households

- 2) The total of 10,000 households was larger than normal and included various geographic goals to help ensure a better representation of all counties involved
- 3) The 10,000 households also included the various secondary groups mentioned previously (ex. transit users, bicycle users, etc)

Surveys were not administered when school was not in session (e.g., holiday periods such as winter break and spring break). Each of the major elements of the survey administration process are briefly described below:

- **Postcard.** ETC Institute mailed a postcard to all households that were randomly-selected to participate in the survey. The letter was in both English and Spanish.
- **Initial Solicitation.** A few days after the postcards were mailed, ETC Institute called each of the households that received a postcard to confirm their address and collect [or confirm](#) household level data from all households that agreed to participate in the study. Households that received the postcard and signed up online were contacted based on the phone number they provided on the signup form. Meanwhile, households that received a postcard but had not yet signed up were called based on the phone number from the purchased sample. Households that agreed to participate were assigned a travel day for the survey and were given instructions on how the information would be retrieved. This data included, but was not limited to, the following:
 - Number of people in the household.
 - Annual household income and type of residence.
 - **Vehicle Information** – number owned, number available, make, model, commercial or private use.
 - **Person information** – age, sex, ethnicity, employment/student status, occupation by employment category.
 - **Employment Information** – self-employed, employer name and address, home office/business, telecommuting.

Information that was gathered from each of the participating households was entered into a Household Database as soon as the household was recruited. Each household that was recruited was assigned a unique PIN to monitor the household's participation in the survey throughout the survey administration process.

- **Instructional Email.** After call center employees contacted respondents, they emailed instructions for how they need to participate in the travel survey based on how they indicated they would be participating in the survey. The three following methods for survey participation included: over-the-phone collection with an ETC Institute call center employee, online collection where the participating household could fill out member travel information via the internet, or app participation enabled by downloading the smartphone application and passively collecting travel information. Spanish versions of

the online survey instrument and app were provided for households that did not speak English.

- **Reminder Messages.** ETC Institute placed reminder call/emails/text messages to each household the day before they were scheduled to begin the travel survey. The pre-travel day reminder messages were used to confirm the household's participation. The messages were also used to (1) review the procedures for recording travel information to ensure participants understood the importance of recording specific addresses, (2) answer any questions that the household had regarding the survey, (3) schedule a call-back time for the data retrieval call, (4) stress the importance of the survey, and (5) emphasize the anonymity of the data provided.
- **Data Retrieval.** ETC Institute placed a follow-up call at a pre-arranged callback time within two days after travel diary activity was scheduled. This call was used to retrieve household activity and trip data. Every attempt was made to personally interview each member of the household who completed a travel diary. In some cases, a proxy provided information for household members who were not available. Adult members of the household usually reported the activities and trips for minors in the household. These data retrieval calls were arranged for all households participating in the survey regardless of the method of completion to either confirm trip data or to complete the survey with the responding household over the phone.
- **Reporting of Income.** 100% of the households that participated in the household activity survey provided annual household income data. ETC Institute's interviewers explained the importance of providing the household income data during the initial recruitment call and informed them about being ineligible to participate in the survey without the information.
- **Thank You Email.** After ETC Institute had received all completed surveys from a household, ETC Institute emailed the household thanking them for their participation and informing them they were done with the survey.

Incentivizing the Survey Process. During the pilot portion of the survey process, it was determined that incentivizing the survey would greatly benefit a higher response rate. ETC Institute began offering \$25 for the pilot survey and then gradually changed the incentive amount to either \$20 or \$40 depending on the survey method (i.e., over the phone with ETC Institute's call center (\$20), or downloading the app for at least 1 adult household family member (\$40)) for completed surveys. Respondents were informed that incentives were being offered at the sole discretion of ETC Institute and had no direct affiliation with TxDOT.

All incentives were distributed by ETC Institute by form of an e-gift card mailed to the participating household.

Conducting the App-Based Survey

In addition to collecting travel diary data over the phone and online, ETC Institute collaborated with TxDOT to create a mobile app for the collection of passive GPS data from household members that would participate via that means. During the initial recruitment call with households, participants were asked if they were willing to download the app onto their mobile device and allow it to collect travel information for their designated travel date.

Household Travel App. The app that was created by ETC Institute for TxDOT's household travel survey was designed to capture an individual's travel information for one 24-hour period. Respondents were asked to log on either during their travel day or on the day after their assigned travel day to verify their trip information and provide missing details such as the name of locations and how many people traveled to that location with them. At that time, respondents were able to add in any missing stop information or remove incorrect stop information.

Recruitment. Participants that were asked to participate in the household travel survey were also asked during the initial recruitment call if at least one of the adult members (age 18+) of their household would also agree to participate via app. If at that time an adult household member agreed to participate via app, they were walked through the process of downloading the app on their mobile device during the recruitment call.

Mobile App Process. Households that participated in the app data collection method were involved in the data collection process for three days:

- Day 1: The recruited households were given instructions on how to download the app on their mobile device for everyone over the age of 16 in the household, or with parental consent for those under 16 that had a mobile device (min age requirement for app use was 13 years with parental consent). If participants needed additional help, an ETC Institute call center employee walked them through the process of downloading the app while on the phone with them during the initial recruitment call.
- Day 2: All household members who had downloaded the app on their mobile device were asked to let it run in the background for a full 24-hours (3am-3am).
- Day 3: Households were asked to go back to the app on their mobile device after their 24-hour survey period had concluded and fill out basic information regarding their travels from the previous day.

App Data Elements. The following types of app survey data were collected by ETC Institute:

- The position of the vehicle by longitude and latitude in five second increments and the time and date at each position.
- Distance and direction traveled since the last position.
- Vehicle's distance, speed, elevation, and heading.

Survey Completion by Data Retrieval Mode?

Request that ETC consider adding a brief section on the breakdown of mode used by HGAC survey participants to complete the survey...

- mail-out survey
- on-line web survey
- via an app downloaded to a mobile device
- retrieval by phone at the Call-In Center

Request that ETC show the breakdown at the person level and perhaps age and gender of participants for each mode. Also, breakdown on HH's that had a HH member using the app versus those that did not would be useful info. Thx

Verifying and Editing Survey Data

ETC Institute prepared five data files for the household travel survey including:

- Household Information file
- Personal Information file
- Vehicle Information file
- Activity/Trip Information file
- Smartphone GPS location file

ETC Institute conducted data processing and geocoding activities concurrently with the data collection task. This allowed a higher level of control on the quality of the completed data, since the daily attention to completed households allows for quick identification of where interviewer training may need to be strengthened. ETC Institute utilized an online version of the survey for this project to further increase legibility and accuracy of the data retrieved. The online version of the survey also allowed ETC Institute's data review team to check the travel diary data obtained from the recruited households to help ensure the data was logical and to determine if a household needed to be called back due to illogical or missing information. Screenshots of the online survey are included in Appendix F.

As data were compiled into the database, they were edited and corrected. A data analyst from ETC Institute conducted ongoing verification of this aggregate, cumulative data file. ETC Institute used a specialized program to perform routine and customized quality checks on the data to confirm that submitted data met TxDOT's standards as well as the project requirements. The edit check program was used to check the following:

- Data range checks to ensure data are not outside the expected ranges;
- Data checks for missing data, including a flag for persons who report no travel (this will be done by a combination of computerized queries and direct data viewing);
- File consistency (household size matches number of person records, etc.);
- Consistency between arrival and departure times;
- Employment data for all respondents reporting a "work" activity; and
- Consistency among shared trips within the household.

Data validation was accomplished by comparing each record in the database against the criteria for a completed household established at the beginning of the project. ETC Institute sent "interim" datasets to TxDOT for review against the criteria for a completed household that were established at the beginning of the project. By allowing TxDOT an opportunity to review the format of the data early in the project, ETC Institute was able to adjust the structure of the database to ensure that the final datasets were in the required format.

ETC Institute then coded and entered all data into pre-specified data file formats and forwarded the data to TxDOT. ETC Institute ensured that all text and data files were free of viruses.

App Algorithm Criteria

The algorithm used by our apps to detect the locations where the smartphone user has stopped utilizes the phone's GPS and motion sensor data. Generically, the goal is to differentiate between stationary periods (when the user has stopped) and moving periods (when the user is on the move). Here's a high-level outline of the algorithm:

1. Data Collection

The user's phone continuously collects GPS and motion sensor data. The motion sensor provides information about the phone's acceleration, rotation, and orientation.

2. Preprocessing

The raw GPS and motion sensor data can be noisy and inconsistent. Preprocessing involves filtering and smoothing the data to improve its accuracy. Some of the smoothing is typically done by the phone's firmware; for the remaining cases/data, we use various techniques like moving averages.

3. Speed Estimation

We use the point speed values provided by the GPS data stream. Where those values appear erratic or unreliable, we calculate the speed directly from the GPS points' location and timestamp data, receding back in time as far as reasonable to bypass erratic data.

4. Define Thresholds

We use a threshold value for the user's speed, above which the user is considered to be moving, and below which the user is considered to be stationary. The threshold value may change depending on the granularity of desired location detection and the accuracy of the GPS data.

5. Identify Stops

The app analyzes the preprocessed speed data to detect periods when the user's speed falls below the defined threshold. These periods indicate that the user has potentially stopped. This test is combined with motion flags provided by the phone's sensors to confirm (or reject) a stopped condition.

6. Temporal Check

To reduce the chances that brief pauses or slow movements would be recorded as stops (e.g., during traffic), the app checks that the "stopped" condition occurred for a minimum duration before considering it as a stop. This time duration can be customized.

7. Location Clustering

The app groups the locations identified as stopped together based on proximity, creating clusters which represent the locations where the user has stopped.

8. Post-processing

A stopped location is tested against proximity to known traffic control devices and is tagged as an “in-traffic stop” if stop duration is also less or equal to a specified time as discussed with the client.

A flow chart of this process can be found in Appendix H.

Lessons Learned

Overall, this project proceeded quite smoothly. The larger population of the study area provided more opportunities and a greater margin of error for recruitment compared to smaller study areas, making the process easier.

A significant contributor to the project's success was the assistance from H-GAC and its staff. They recorded an outreach video, which we placed on our project website. This video played a crucial role in addressing concerns over the survey's legitimacy. Concerns about legitimacy are one of the biggest obstacles we face with potential respondents. The video not only promoted the survey and explained its importance but also introduced ETC and its American Travel Survey division, thereby reducing concerns and improving participation. (Click the image below to watch the video)



The Project team participated twice on the H-GAC TAC meetings to provide details to important officials.

ETC had also just completed an on-board transit survey project for H-GAC when the household travel survey project began. The list of transit users was used to help target those in the secondary target group “transit users”. Without having that transit survey data, it would have been much more difficult to capture that group, as that group is typically underrepresented in household travel surveys.

One unexpected item that helped improve the response to the survey was a local television news affiliate that caught wind of the survey project. The news organization then interviewed TxDOT officials and ran a story on the local evening news about it. The unexpected promotion of the survey temporarily increased signups to the project website form.

There was some issue with getting some of the smaller outlying areas to participate. To help with this we designed county specific postcards that were more tailored to residents in those areas. These postcards helped to improve the response rate by residents in those areas.

Summary of Appendices to This Report

This report contains six appendices. A brief description of each appendix is provided below:

Appendix A. This appendix contains tables that show the *household data* for the H-GAC Region Study Area. The types of household data that are provided in this appendix include: household occupancy, vehicle availability, type of residency, years of residency, annual income, and raw (unadjusted) household trip rates.

Appendix B. This appendix contains tables that show the *person data* for the H-GAC Region Study Area. The types of person data that are provided in this appendix include: age, ethnicity, employment status, bicycle use, and other personal information.

Appendix C. This appendix contains tables that show the *vehicle data* for H-GAC Region Study Area. The types of vehicle data that are provided in this appendix include: types of vehicles, year of vehicles, vehicle make, type of fuel used, and other vehicle information.

Appendix D. This appendix contains the *postcard* that was used to solicit participation in the survey.

Appendix E. This appendix contains tailored *postcards* that were used to solicit participation in the survey from smaller counties in the study area.

Appendix F. This appendix contains the *lucid chart* for the survey process.

Appendix G. This appendix contains *documentation of online household tools and app tools*.

Appendix H. This appendix contains a flow chart of the *app algorithm criteria*.

Appendix A: Household Data

Household Occupancy		
Number of Persons	Number	(%) Area
1	2271	25.24%
2	2517	27.98%
3	1700	18.90%
4	1430	15.89%
5	701	7.79%
6	239	2.66%
7	87	0.97%
8	33	0.37%
9	14	0.16%
11	2	0.02%
10	3	0.03%
Grand Total	8997	100.00%

Number of Vehicle Available		
Vehicle Available	Number	(%) Area
0	503	5.59%
1	3711	41.25%
2	3165	35.18%
3	1135	12.62%
4	378	4.20%
5	85	0.94%
6	14	0.16%
7	2	0.02%
8	1	0.01%
9	2	0.02%
10	1	0.01%
Grand Total	8997	100.00%

Number of Vehicle Owned/Leased		
Vehicle Owned/Leased	Number	(%) Area
0	1175	13.06%
1	3459	38.45%
2	2907	32.31%
3	1036	11.51%
4	334	3.71%
5	68	0.76%
6	13	0.14%
7	1	0.01%
8	1	0.01%
9	2	0.02%
10	1	0.01%
Grand Total	8997	100.00%

Number of Bicycles Available		
Bikes	Number	(%) Area
0	4603	51.16%
1	1964	21.83%
2	1392	15.47%
3	520	5.78%
4	309	3.43%
5	102	1.13%
6	45	0.50%
7	18	0.20%
8	8	0.09%
9	5	0.06%
10	2	0.02%
98	20	0.22%
99	9	0.10%
Grand Total	8997	100.00%

Types of Residence		
Residence	Number	(%) Per
Unattached Single Family Home	5603	62.3%
Condo	223	2.5%
Duplex	181	2.0%
Apartment	2643	29.4%
Mobile Home	233	2.6%
Other	110	1.2%
Don't know	3	0.0%
Refused	1	0.0%
Grand Total	8997	100.0%

Tenure		
Tenure	Number	(%) Per
One Year or Less	1988	22.1%
Two Years	1234	13.7%
Three Years	967	10.7%
Four Years	537	6.0%
Five or More Years	4258	47.3%
Don't know	8	0.1%
Refused	5	0.1%
Grand Total	8997	100.0%

Annual Household Income		
Income	Number	(%) Per
\$0-\$19,999	1951	21.7%
\$20,000-\$39,999	2732	30.4%
\$40,000-\$59,999	1204	13.4%
\$60,000-\$99,999	1095	12.2%
\$100,000+	2015	22.4%
Grand Total	8997	100.0%

Number of Day Visitors on the Household's Travel Day		
Day Visitor	Number	(%) Per
1	1238	13.8%
2	6075	67.5%
98	1676	18.6%
99	8	0.1%
Grand Total	8997	100.0%

Total Trips Per Household		
Trips	Number	(%) Per
0	24117	23.88%
1	19170	18.98%
2	18978	18.79%
3	10916	10.81%
4	8089	8.01%
5	5365	5.31%
6	3856	3.82%
7	2676	2.65%
8	1910	1.89%
9	1381	1.37%
10	1031	1.02%
11	749	0.74%
12	560	0.55%
13	428	0.42%
14	348	0.34%
15	271	0.27%
16	205	0.20%
17	162	0.16%
18	126	0.12%
19	99	0.10%
20	89	0.09%
21	76	0.08%
22	65	0.06%
23	53	0.05%
24	46	0.05%
25	42	0.04%
26	31	0.03%
27	23	0.02%
28	17	0.02%
29	13	0.01%

30	13	0.01%
31	11	0.01%
32	9	0.01%
33	6	0.01%
34	6	0.01%
35	5	0.00%
36	5	0.00%
37	5	0.00%
38	4	0.00%
39	4	0.00%
40	4	0.00%
41	4	0.00%
42	2	0.00%
43	2	0.00%
44	2	0.00%
45	2	0.00%
46	2	0.00%
47	2	0.00%
48	1	0.00%
49	1	0.00%
50	1	0.00%
51	1	0.00%
52	1	0.00%
53	1	0.00%
54	1	0.00%
55	1	0.00%
56	1	0.00%
57	1	0.00%
58	1	0.00%
59	1	0.00%
60	1	0.00%
61	1	0.00%
62	1	0.00%
63	1	0.00%
64	1	0.00%
Total Count	100997	100.00%

Appendix B: Person Data

Gender of Survey Participants		
Sex	Number	(%) Per
Male	11269	46.7%
Female	12806	53.1%
Don't know	1	0.0%
Refused	44	0.2%
Grand Total	24120	100.0%

Ethnicity of Survey Participants		
Ethnicity	Number	(%) Per
Black/African American	6644	29.8%
Hispanic/Mexican American	5321	23.9%
Asian/Pacific Islander	1347	6.0%
Native American	96	0.4%
White/Caucasian	8492	38.1%
Other	219	1.0%
Don't Know	60	0.3%
Refused	125	0.6%
Multiple Ethnicity	1816	8.1%
Grand Total	24120	100.0%

Age of Survey Participants		
Age	Number	(%) Per
0 to 4 years old	1387	5.8%
5 to 12 years old	2563	10.6%
13 to 15 years old	1103	4.6%
16 to 17 years old	712	3.0%
18 to 44 years old	10425	43.2%
45 to 64 years old	6063	25.1%
65 years old or older	1736	7.2%
Don't Know	47	0.2%
Refused	84	0.3%
Grand Total	24120	100.0%

Licensed Driver Status		
Licensed Driver	Number	(%) Per
Yes	16964	70.3%
No	7081	29.4%
Don't know	49	0.2%
Refused	26	0.1%
Grand Total	24120	100.0%

Employment Status		
Employment	Number	(%) Per
Yes	12374	51.3%
No	11647	48.3%
Don't know	43	0.2%
Refused	56	0.2%
Grand Total	24120	100.0%

Type of Employment		
Employment Status	Number	(%) Per
Employed full time 30 or more hours per week	10232	82.3%
Employed part time less than 30 hours per week	2185	17.6%
Self employed full time 30 or more hours per week	0	0.0%
Self employed part time less than 30 hours per week	0	0.0%
Don't Know	21	0.2%
Refused	2	0.0%
Grand Total	12440	100.0%

Hours Employed Per Week		
Hours	Number	(%) Per
1-10 Hours	293	2.4%
11-20 Hours	831	6.7%
21-30 Hours	1104	8.9%
31-35 Hours	510	4.1%
36-40 Hours	6334	50.8%
41 or More Hours	3362	27.0%
996	0	0.0%
998	32	0.3%
999	0	0.0%
Grand Total	12466	100.0%

Reasons Not Employed		
Not Employed	Number	(%) Per
Retired	1663	23.6%
Volunteer	53	0.8%
Disability Status	1071	15.2%
Homemaker	822	11.7%
Looking for Work	1413	20.0%
Not Looking for Work	176	2.5%
Student (any age)	1702	24.1%
Other	61	0.9%
Don't Know	77	1.1%
Refused	13	0.2%
Grand Total	7051	100.0%

Delivery Drivers		
Commercial Veh Driver	Number	(%) Per
Yes	548	4.4%
No	11741	94.8%
Don't know	90	0.7%
Refused	2	0.0%
Grand Total	12381	100.0%

Work Schedule		
Flex Time	Number	(%) Per
Flexible/Variable	5386	43.5%
Fixed/Unchanging	6862	55.5%
Don't Know	115	0.9%
Refused	11	0.1%
Grand Total	12374	100.0%

Percentage of Employed Participants with More than One Job		
More than 1 job	Number	(%) Per
Yes	709	5.7%
No	11705	93.5%
Don't know	95	0.8%
Refused	7	0.1%
Grand Total	12516	100.0%

Primary Workplace Type		
Workplace Type	Number	(%) Per
Office (non-government)	2319	18.7%
Office (government)	550	4.4%
Home Office/Residential Workplace	1338	10.8%
Coworking Space	61	0.5%
Industrial Warehouse/Manufacturing	1077	8.7%
Medical Offices/Hospital	1165	9.4%
School; Daycare/Preschool	120	1.0%
School; Elementary	300	2.4%
School; Middle/Junior High	179	1.4%
School; High School	231	1.9%
School; College/University/Trade School	221	1.8%
Restaurant/Fast Food, Café, Bar & Grill	767	6.2%
Convenience/Drug Store/Gas Station	102	0.8%
Grocery Store	236	1.9%
Recreational facility/Fitness Club	91	0.7%
Other Retail /Shopping	608	4.9%
Other Personal Business (i.e. Bank, Automotive Dealer, Beauty Salon, etc.)	413	3.3%
Outdoor Park/Beach/Sports Field/Open Space	129	1.0%
Hotel/Motel/Campsite	82	0.7%
Airport	102	0.8%
Other	2194	17.7%
Don't Know	80	0.6%
Refused	16	0.1%
Grand Total	12381	100.0%

Percentage of Employed Participants Who Have a Home Office		
Home Office	Number	(%) Per
Yes	3444	27.8%
No	8890	71.8%
Don't know	26	0.2%
Refused	14	0.1%
Grand Total	12374	100.0%

Percentage of Employed Participants Who Telecommute		
Telecommunicate	Number	(%) Per
Yes	987	58.6%
No	634	37.7%
Don't know	62	3.7%
Refused	0	0.0%
Grand Total	1683	100.0%

Secondary Job Status		
Second Job Employment Status	Number	(%) Per
Employed full time 30 or more hours per week	338	47.7%
Employed part time less than 30 hours per week	366	51.6%
Self employed full time 30 or more hours per week	0	0.0%
Self employed part time less than 30 hours per week	0	0.0%
Don't know	4	0.6%
Refused	1	0.1%
Grand Total	709	100.0%

Primary Occupation		
Management Occupations	Number	(%) Per
Business and Financial Operations Occupations	1114	9.0%
Computer and Mathematical Occupations	616	5.0%
Architecture and Engineering Occupations	361	2.9%
Life, Physical, and Social Science Occupations	259	2.1%
Community and Social Service Occupations	114	0.9%
Legal Occupations	153	1.2%
Educational Instruction and Library Occupations	184	1.5%
Arts, Design, Entertainment, Sports, and Media Occupations	893	7.2%
Healthcare Practitioners and Technical Occupations	244	2.0%
Healthcare Support Occupations	571	4.6%
Protective Service Occupations	770	6.2%
Food Preparation and Serving Related Occupations	166	1.3%
Building and Grounds Cleaning and Maintenance Occupations	810	6.5%
Personal Care and Service Occupations	208	1.7%
Sales and Related Occupations	312	2.5%
Office and Administrative Support Occupations	923	7.5%
Farming, Fishing, and Forestry Occupations	605	4.9%

Construction and Extraction Occupations	37	0.3%
Installation, Maintenance, and Repair Occupations	355	2.9%
Production Occupations	430	3.5%
Transportation and Material Moving Occupations	187	1.5%
Military Specific Occupations	801	6.5%
Something else	27	0.2%
Other (please specify)	2189	17.7%
Don't Know	33	0.3%
Refused	12	0.1%
Grand Total	12374	100.0%

Primary Industry		
Primary Industry	Number	(%) Per
Agriculture, Forestry, Fishing and Hunting	83	0.7%
Mining, Quarrying, and Oil and Gas Extraction	269	2.2%
Utilities	278	2.2%
Construction	623	5.0%
Wholesale Trade	125	1.0%
Information	347	2.8%
Finance and Insurance	615	5.0%
Real Estate and Rental and Leasing	215	1.7%
Professional, Scientific, and Technical Services	760	6.1%
Management of Companies and Enterprises	501	4.0%
Administrative and Support and Waste Management and Remediation Services	294	2.4%
Educational Services	997	8.1%
Health Care and Social Assistance	1537	12.4%
Arts, Entertainment, and Recreation	288	2.3%
Accommodation and Food Services	819	6.6%
Other Services (except Public Administration)	547	4.4%
Public Administration	212	1.7%
Something else	1997	16.1%
Manufacturing	301	2.4%
Transportation and Warehousing	852	6.9%
Retail Trade	667	5.4%
Other (please specify)	28	0.2%
Don't Know	19	0.2%
Refused	0	0.0%
Grand Total	12374	100.0%

Secondary Occupation		
Secondary Occupation	Number	(%) Per
Management Occupations	29	4.1%
Business and Financial Operations Occupations	30	4.2%
Computer and Mathematical Occupations	12	1.7%
Architecture and Engineering Occupations	3	0.4%
Life, Physical, and Social Science Occupations	4	0.6%
Community and Social Service Occupations	9	1.3%
Legal Occupations	7	1.0%
Educational Instruction and Library Occupations	32	4.5%
Arts, Design, Entertainment, Sports, and Media Occupations	39	5.5%
Healthcare Practitioners and Technical Occupations	23	3.2%
Healthcare Support Occupations	37	5.2%
Protective Service Occupations	10	1.4%
Food Preparation and Serving Related Occupations	72	10.2%
Building and Grounds Cleaning and Maintenance Occupations	15	2.1%
Personal Care and Service Occupations	33	4.7%
Sales and Related Occupations	63	8.9%
Office and Administrative Support Occupations	17	2.4%
Farming, Fishing, and Forestry Occupations	1	0.1%
Construction and Extraction Occupations	5	0.7%
Installation, Maintenance, and Repair Occupations	22	3.1%
Production Occupations	1	0.1%
Transportation and Material Moving Occupations	60	8.5%
Military Specific Occupations	3	0.4%
Something else	167	23.6%
Other/Not applicable (unemployed/student/retired)	3	0.4%
Don't Know	12	1.7%
Refused	0	0.0%
Grand Total	709	100.0%

Secondary Industry		
Secondary Industry	Number	(%) Per
Agriculture, Forestry, Fishing and Hunting	2	0.3%
Mining, Quarrying, and Oil and Gas Extraction	3	0.4%
Utilities	3	0.4%
Construction	14	2.0%
Wholesale Trade	7	1.0%

Information	16	2.3%
Finance and Insurance	20	2.8%
Real Estate and Rental and Leasing	17	2.4%
Professional, Scientific, and Technical Services	22	3.1%
Management of Companies and Enterprises	15	2.1%
Administrative and Support and Waste Management and Remediation Services	11	1.6%
Educational Services	42	5.9%
Health Care and Social Assistance	66	9.3%
Arts, Entertainment, and Recreation	41	5.8%
Accommodation and Food Services	75	10.6%
Other Services (except Public Administration)	43	6.1%
Public Administration	9	1.3%
Something else	170	24.0%
Manufacturing	3	0.4%
Transportation and Warehousing	64	9.0%
Retail Trade	53	7.5%
Other (please specify)	1	0.1%
Don't Know	12	1.7%
Refused	0	0.0%
Grand Total	709	100.0%

Student Status		
Student Status	Number	(%) Per
Yes	6828	28.3%
No	17220	71.4%
Don't know	35	0.1%
Refused	37	0.2%
Grand Total	24120	100.0%

School Type		
School Type	Number	(%) Per
Daycare / Preschool	455	6.7%
Elementary School	1957	28.7%
Middle School/Junior High	1140	16.7%
High School	1421	20.8%
Post Secondary / College / Trade	1729	25.3%
Other	77	1.1%
Don't Know	42	0.6%
Refused	7	0.1%
Grand Total	6828	100.0%

Number of Days Used Bike in Past Week		
Bike Use	Number	(%) Per
0	19736	81.8%
1	1008	4.2%
2	1046	4.3%
3	724	3.0%
4	366	1.5%
5	326	1.4%
6	81	0.3%
7	538	2.2%
98	234	1.0%
99	59	0.2%
Grand Total	24118	100.0%

Purpose for Using Bike		
Bike Purpose	Number	(%) Per
Work	186	4.5%
School	202	4.9%
Shopping	177	4.3%
Visiting	73	1.8%
Recreation/Exercise	3360	82.2%
Other	82	2.0%
Don't know	9	0.2%
Refused	0	0.0%
Grand Total	4089	100.0%

Disability Status		
Disability	Number	(%) Per
Yes	1425	5.9%
No	22608	93.7%
Don't know	61	0.3%
Refused	26	0.1%
Grand Total	24120	100.0%

Travel on Designated Travel Day		
Travel	Number	(%) Per
Yes	19156	79.4%
No	4903	20.3%
Out of Area	61	0.3%
Grand Total	24120	100.0%

Appendix C: Vehicle Data

Type of Vehicle		
Type of Vehicle	Number	(%) Per
Motorcycle (includes mopeds)	198	1.3%
Car (includes station wagons)	8405	54.2%
Van (mini and passenger)	426	2.7%
Sport Utility Vehicle	4046	26.1%
Pickup Truck	2327	15.0%
Cargo Van	25	0.2%
Service Vehicle	10	0.1%
Other	50	0.3%
Don't know	12	0.1%
Refused	14	0.1%
Grand Total	15513	100.0%

Make of Vehicle		
Make	Number	(%) Per
Honda	1390	9.0%
Volvo	72	0.5%
Toyota	2210	14.2%
Ford	2052	13.2%
Chevrolet	1854	12.0%
Cadillac	210	1.4%
GMC	399	2.6%
Lexus	334	2.2%
Mercedes-Benz	290	1.9%
Dodge	890	5.7%
Mazda	311	2.0%
Subaru	201	1.3%
Nissan/Datsun	1258	8.1%
Jeep	516	3.3%
Hyundai	633	4.1%
Buick	178	1.1%
Chrysler	208	1.3%
KIA	603	3.9%
Volkswagen	312	2.0%
Infiniti	180	1.2%
Mitsubishi	114	0.7%
Audi	117	0.8%
Mercury	44	0.3%
Other (specify)	253	1.6%
Pontiac	47	0.3%
Lincoln	121	0.8%
Acura	163	1.1%
Range/Land Rover	31	0.2%
Saturn	31	0.2%
Oldsmobile	5	0.0%
BMW	246	1.6%
Suzuki	23	0.1%
Porsche	33	0.2%
Don't Know	5	0.0%
Yamaha	12	0.1%
Harley Davidson	68	0.4%
Fiat	34	0.2%
Jaguar	20	0.1%
Kawasaki	15	0.1%

Peterbilt	1	0.0%
Isuzu	5	0.0%
Kenworth	1	0.0%
Freightliner	3	0.0%
Triumph	2	0.0%
Saab	1	0.0%
White/Autocar-White GMC	5	0.0%
Alfa Romeo	3	0.0%
Austin/Austin Healey	2	0.0%
Peugeot	1	0.0%
Geo	2	0.0%
Plymouth	3	0.0%
Moto-Guzzi	1	0.0%
Total	15513	100.0%

Type of Fuel Used		
Type of Fuel	Number	(%) Per
Gasoline	14897	96.0%
Diesel	250	1.6%
Propane	5	0.0%
Natural Gas	20	0.1%
Electricity	97	0.6%
Gas/Electric Hybrid	186	1.2%
Don't Know	24	0.2%
Refused	10	0.1%
Other	24	0.2%
Grand Total	15513	100.0%

Percentage of Vehicles Used for Commercial Purposes		
Commercial Use	Number	(%) Per
Yes	408	2.6%
No	14990	96.6%
Don't know	106	0.7%
Refused	9	0.1%
Grand Total	15513	100.0%

Vehicle Ownership		
Ownership	Number	(%) Per
Owned or leased by a member of HH	15150	97.7%
Owned or leased by a non-household member or business	237	1.5%
Don't know	101	0.7%
Refused	25	0.2%
Grand Total	15513	100.0%

Appendix D: Recruitment Postcard

Below is the postcard that was used for the survey project. Later, specific postcards were developed for individual counties with lower populations to tailor the survey outreach to those residents.

Improve Your Community & Get Rewarded

Up to **\$40** per household

*Reward provided by ETC Institute in the form of a prepaid gift card.

Log in at (log in Pin on back)
TexasTravelSurvey.com
...or call 1-844-755-8511

Scan Me

Escanearme
Quét tôi
मुझे स्कैन करे
掃描我
اي ئاؤوش ي ئنص ح ف

The postcard features a photograph of a smiling family (a woman, a child, and a man) inside a car. The background is dark blue with white and red text. A QR code is located in the bottom right corner, next to the text 'Scan Me' and its translations in Spanish, Vietnamese, Hindi, Chinese, and Arabic.

Improve Travel in Your Area!

Why should I participate?
You will receive a Visa prepaid card for participating and your effort will help improve transportation for everyone in your area.

How can I participate?
We provide 4 different participation options, so any household can participate.

- Mobile App
- Online
- Over the phone
- Mailed Materials

How long does it take?
The average household needs just 20 to 30 minutes total to complete the survey.

AMERICAN TRAVEL SURVEY

The postcard features a winding road graphic on the left side with four circular inset images showing people using different survey methods: a person on a mobile phone, an elderly woman on a phone, a person at a computer, and a person on a phone. The background is dark blue with white and red text. The American Travel Survey logo is in the bottom left corner.

Appendix E: Tailored Recruitment Postcards for Smaller Project Counties

During the project it was noticed that the counties outside of Harris and Galveston counties seemed to be responding at a lower percent. To try and combat this, more tailored postcards were developed specifically for these areas. Those postcards are shown on subsequent pages. Note: The back of the postcard changed only slightly so it is displayed once.

GET PAID TO IMPROVE MONTGOMERY COUNTY!

Questions?
More details on back

Earn up to

*\$40

amount depends on participation type

1

Scan the QR code or sign up at

TexasTravelSurvey.com

2

We'll Reach Out

After you sign up, we'll check your qualifications and then contact you.

3

Get Rewarded

You'll receive your prepaid card* within 5-10 business days after completion.

*Reward provided by ETC Institute in the form of a prepaid gift card. TxDOT contracts with third-parties to collect data on the travel practices of Texans on TxDOT facilities. These third-party parties may offer rewards to promote the collection of travel survey data. TxDOT is not affiliated with any of these reward programs and is not responsible for the distribution of any rewards.

Who is conducting this survey?

The Texas Department of Transportation (TxDOT) and ETC Institute/American Travel Survey are conducting this household travel survey in Montgomery County.

What is a Household Travel Survey?

- Household Travel Surveys help determine the amount of travel generated in an area by local residents.
- Participants use a smartphone app, website or other methods to record where, when, how and why they travel.

Why should I participate?

- You will improve the roads in Montgomery County.
- You will help TxDOT to decide on where transportation dollars should be spent.
- Your travel patterns are representative of many residents, so your participation matters.

TexasTravelSurvey.com

GET PAID TO IMPROVE CHAMBERS COUNTY!

Questions?
More details on back

Earn up to

*\$40

amount depends
on participation type

1

Scan the
QR code or
sign up at



TexasTravelSurvey.com

2

We'll Reach Out

After you sign up, we'll
check your qualifications
and then contact you.

3

Get Rewarded

You'll receive your prepaid
card* within 5-10 business days
after completion.

*Reward provided by ETC Institute in the form of a prepaid gift card. TxDOT contracts with third-parties to collect data on the travel practices of Texans on TxDOT facilities. These third-party parties may offer rewards to promote the collection of travel survey data. TxDOT is not affiliated with any of these reward programs and is not responsible for the distribution of any rewards.

GET PAID TO IMPROVE WALLER COUNTY!

Questions?
More details on back

Earn up to

*\$40

amount depends
on participation type

1

Scan the
QR code or
sign up at



TexasTravelSurvey.com

2

We'll Reach Out

After you sign up, we'll
check your qualifications
and then contact you.

3

Get Rewarded

You'll receive your prepaid
card* within 5-10 business days
after completion.

*Reward provided by ETC Institute in the form of a prepaid gift card. TxDOT contracts with third-parties to collect data on the travel practices of Texans on TxDOT facilities. These third-party parties may offer rewards to promote the collection of travel survey data. TxDOT is not affiliated with any of these reward programs and is not responsible for the distribution of any rewards.

GET PAID TO IMPROVE BRAZORIA COUNTY!

Questions?
More details on back

Earn up to

*\$40

amount depends on participation type

1

Scan the QR code or sign up at



TexasTravelSurvey.com

2

We'll Reach Out

After you sign up, we'll check your qualifications and then contact you.

3

Get Rewarded

You'll receive your prepaid card* within 5-10 business days after completion.

*Reward provided by ETC Institute in the form of a prepaid gift card. TxDOT contracts with third-parties to collect data on the travel practices of Texans on TxDOT facilities. These third-party parties may offer rewards to promote the collection of travel survey data. TxDOT is not affiliated with any of these reward programs and is not responsible for the distribution of any rewards.

GET PAID TO IMPROVE FORT BEND COUNTY!

Questions?
More details on back

Earn up to

*\$40

amount depends on participation type

1

Scan the QR code or sign up at



TexasTravelSurvey.com

2

We'll Reach Out

After you sign up, we'll check your qualifications and then contact you.

3

Get Rewarded

You'll receive your prepaid card* within 5-10 business days after completion.

*Reward provided by ETC Institute in the form of a prepaid gift card. TxDOT contracts with third-parties to collect data on the travel practices of Texans on TxDOT facilities. These third-party parties may offer rewards to promote the collection of travel survey data. TxDOT is not affiliated with any of these reward programs and is not responsible for the distribution of any rewards.

GET PAID TO IMPROVE LIBERTY COUNTY!

Questions?
More details on back

Earn up to

*\$

40

amount depends
on participation type

1

Scan the
QR code or
sign up at



TexasTravelSurvey.com

2

We'll Reach Out

After you sign up, we'll
check your qualifications
and then contact you.

3

Get Rewarded

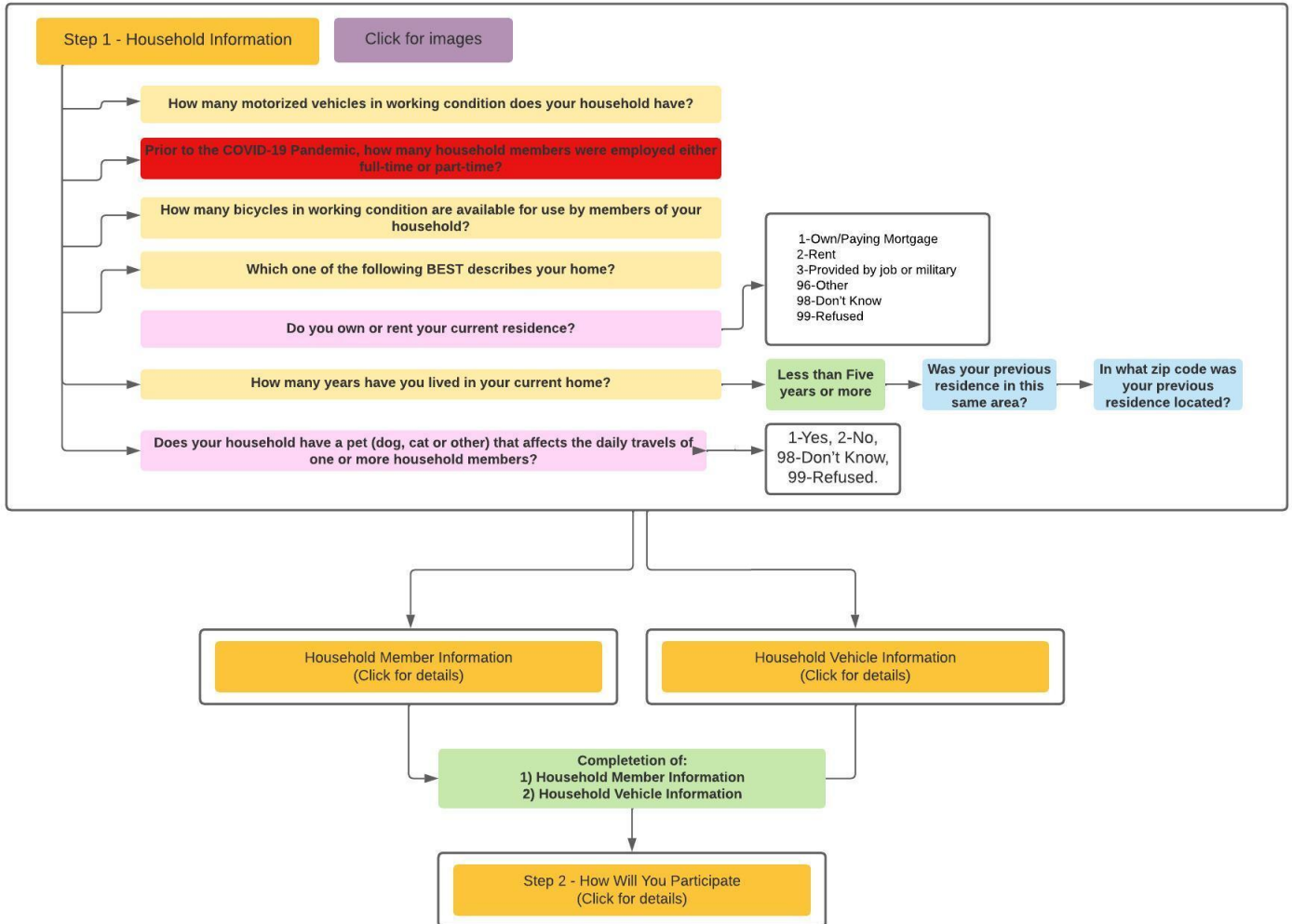
You'll receive your prepaid
card* within 5-10 business days
after completion.

*Reward provided by ETC Institute in the form of a prepaid gift card. TxDOT contracts with third-parties to collect data on the travel practices of Texans on TxDOT facilities. These third-party parties may offer rewards to promote the collection of travel survey data. TxDOT is not affiliated with any of these reward programs and is not responsible for the distribution of any rewards.

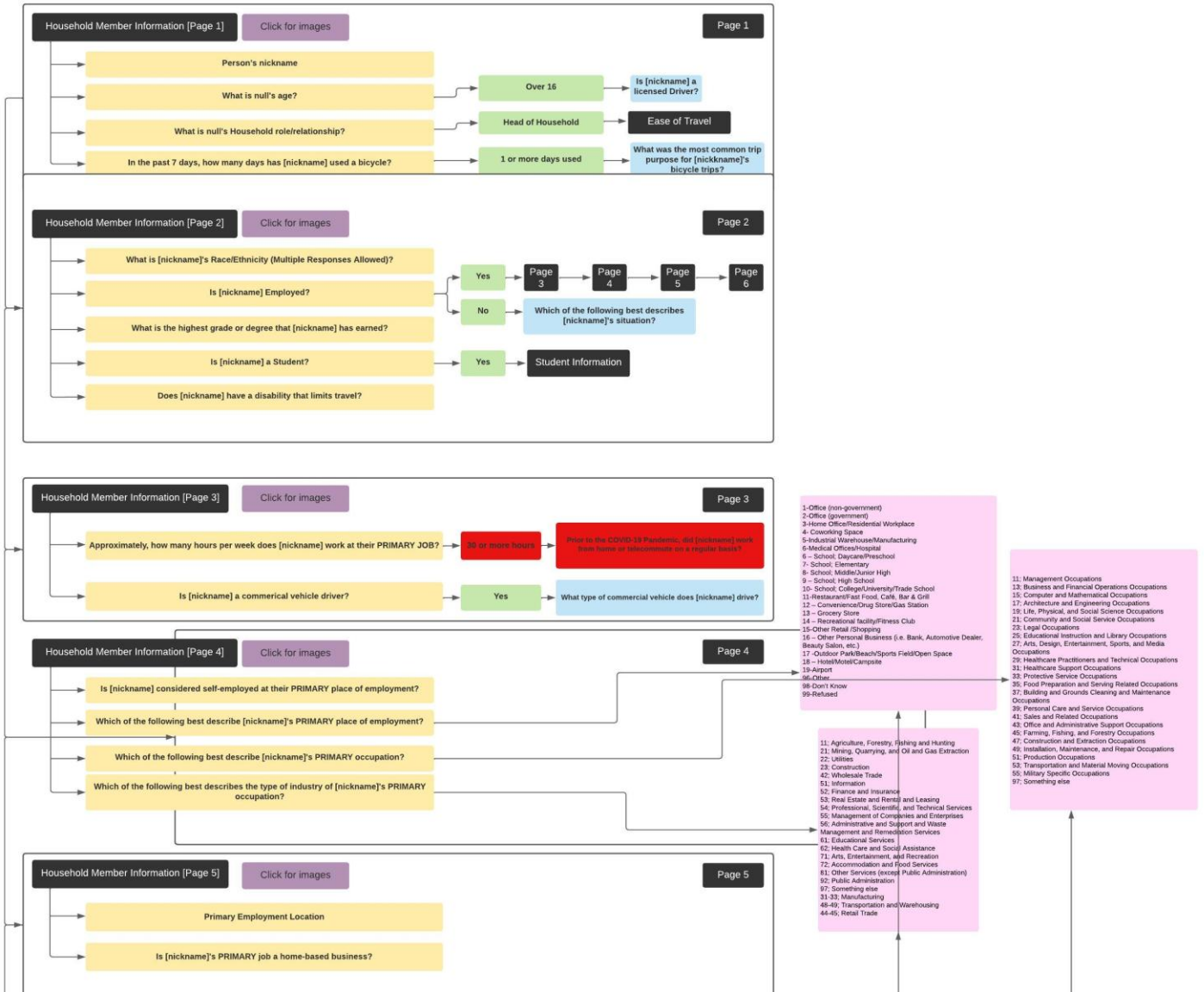
Appendix F: Lucid Chart

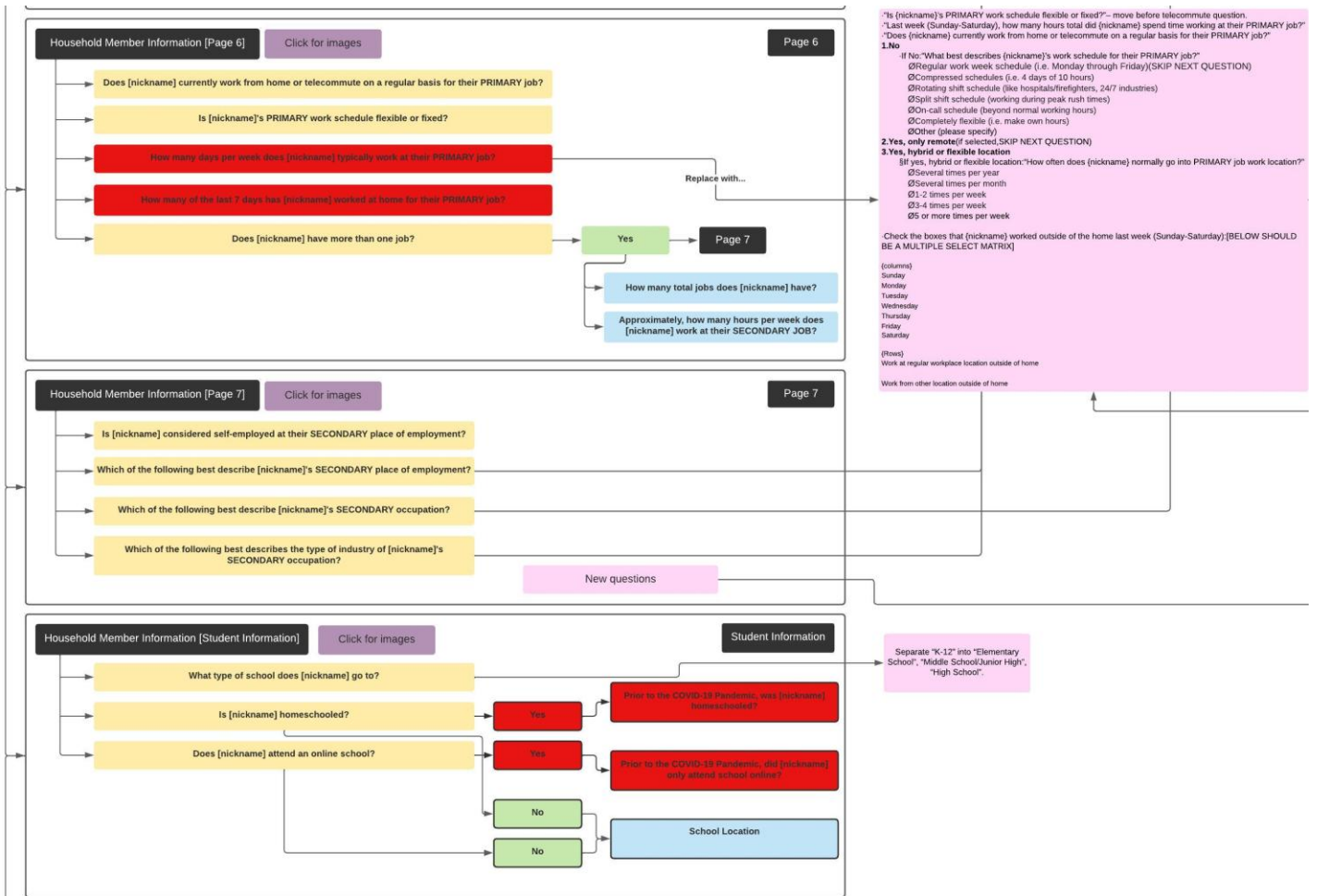
Welcome Page Setup

Step 1: Household Information



Household Member Information





Household Vehicle Information

Household Vehicle Information [Page 1] [Click for images](#) Page 1

Vehicle Type

Vehicle make

Vehicle model

Vehicle Year

Fuel Vehicle Uses

Is this vehicle used for commercial purposes? Yes No Don't Know

How is this vehicle used commercially?

Do you own or lease this vehicle? Yes No Don't Know

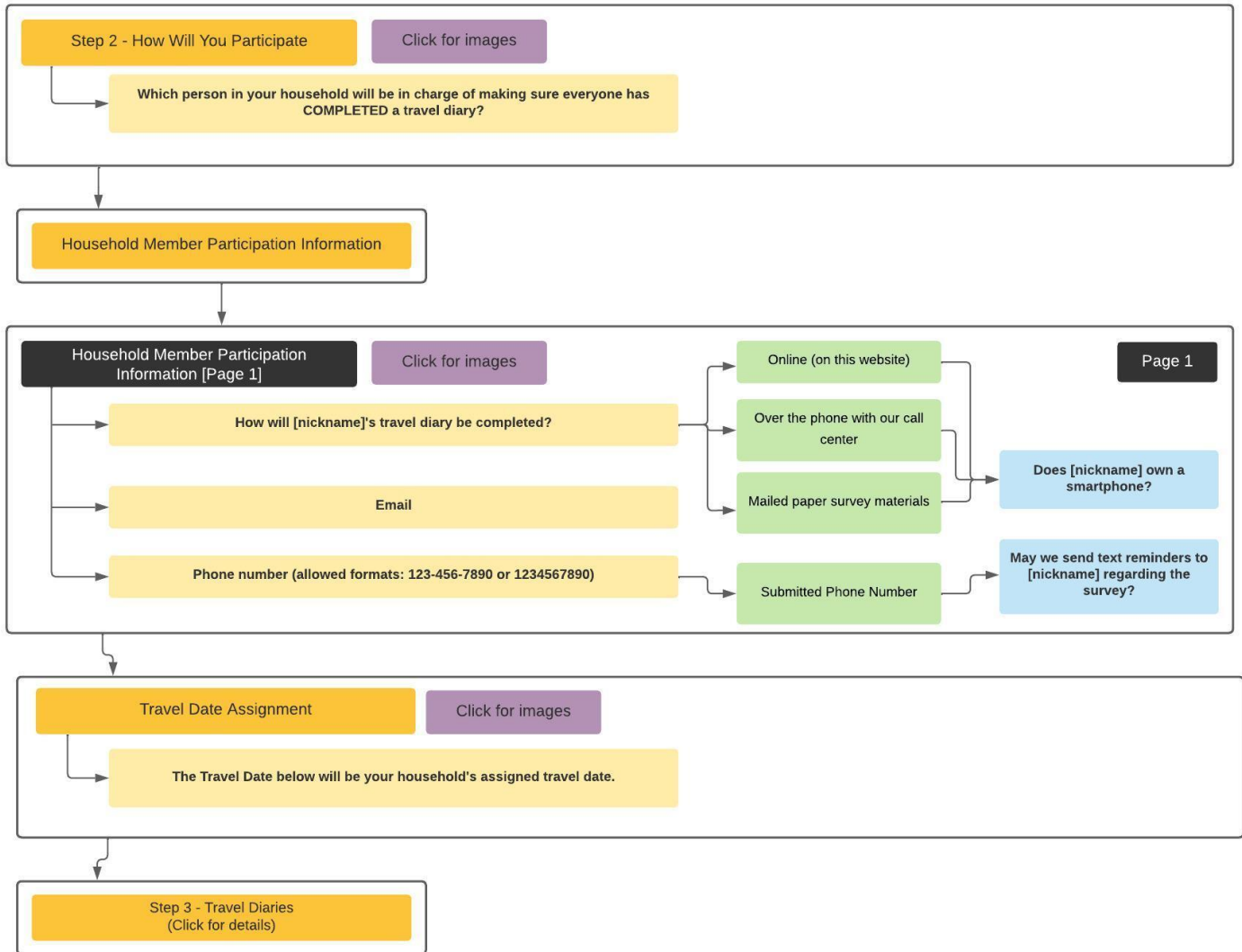
Odometer Reading (approx. miles)

Does this vehicle have a toll transponder? Yes No Don't Know Refused

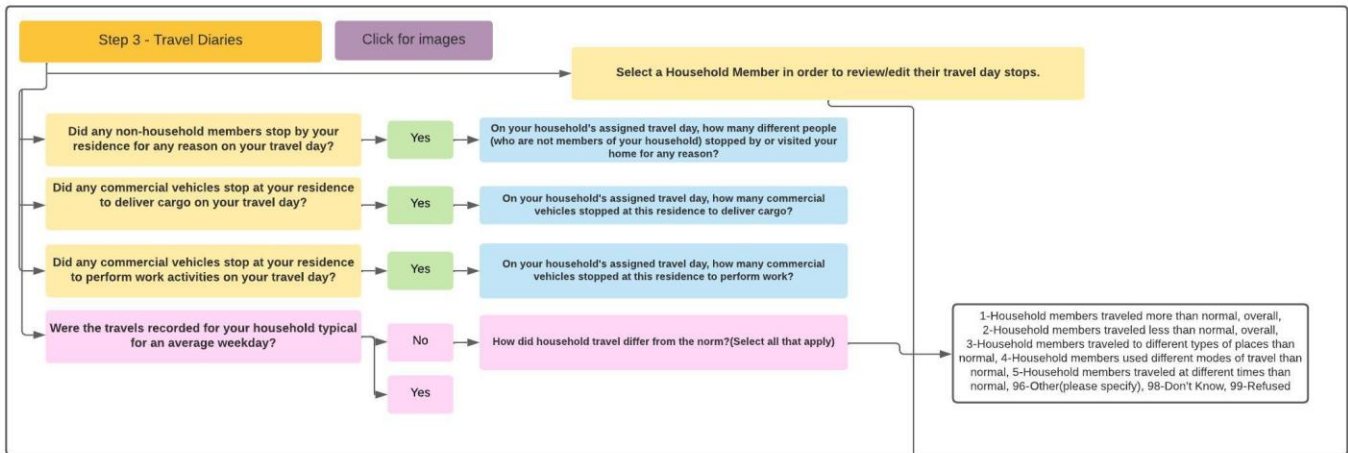
1-Yes, 2-No, 98-Don't Know, 99-Refused.

Vehicle Nickname (Please provide a nickname for this vehicle such as "Nick's car"
This will help you later when filling out the trip diary.)

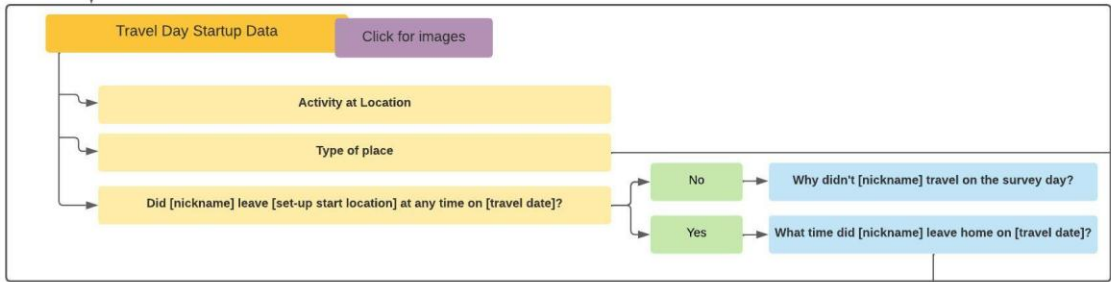
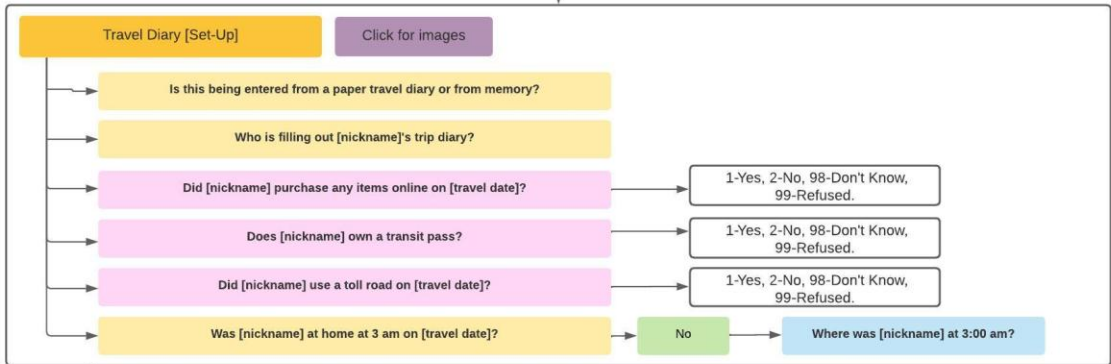
Step 2: How Will you Participate

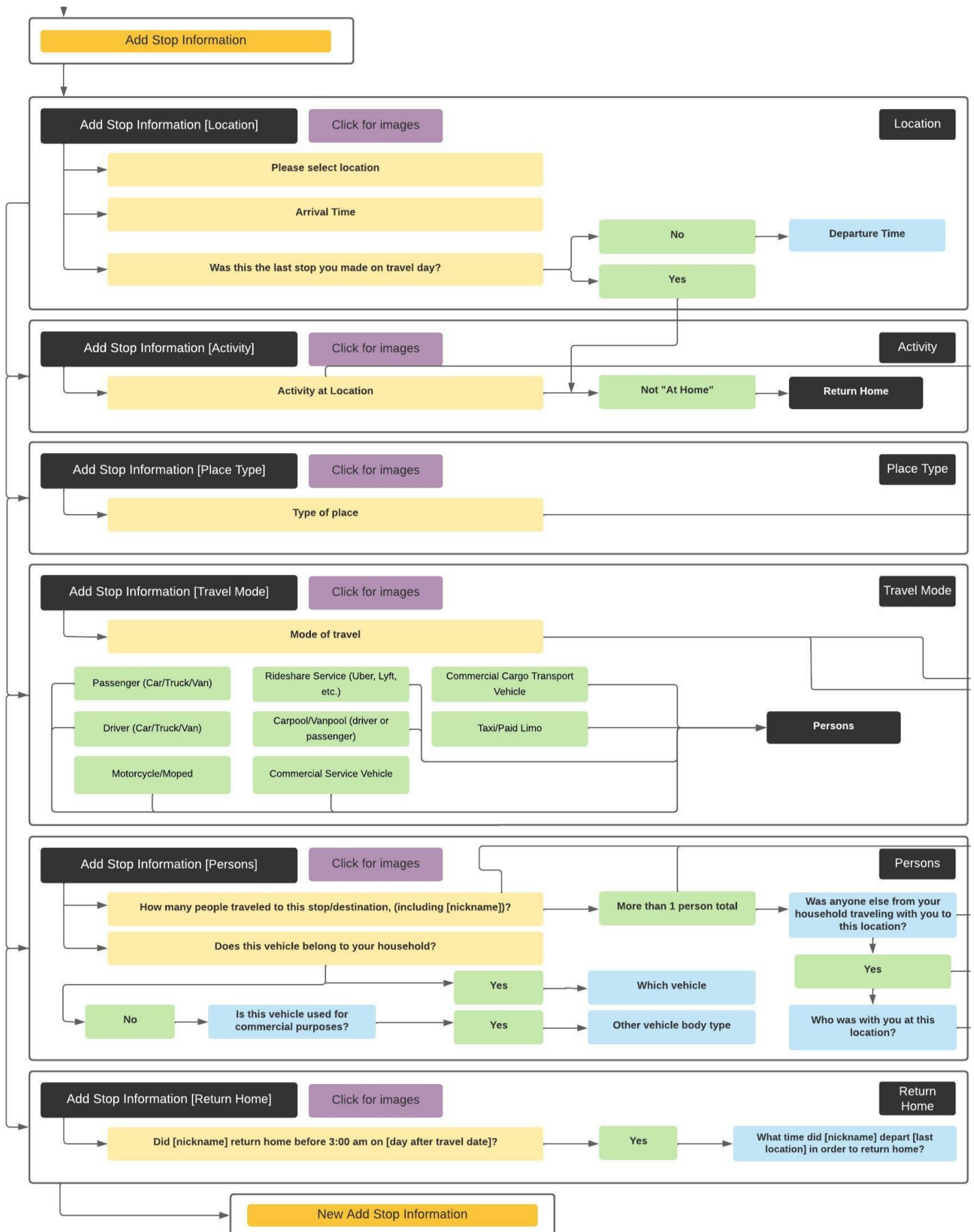


Step 3: Travel Diaries



Travel Diary [Set-Up]





Appendix G: Online Survey Data & Review Tool & App Data

For the purpose of this Online Survey Data a test PIN has been created to depict the questionnaire.

Household Qualification Information

Household Travel Survey

Household PIN: ZAYJW
1 Main St, Houston, Texas, 77002
Home

 ENGLISH

For Help, call 844-755-8511 or email hhtsupport@etcinstitute.com

Thank you for your interest in this important survey. The information you provide will help local planning organizations better understand the transportation needs of your community.

Answer the questions below to see if you qualify.

Is 1 Main St Houston Texas 77002 your correct home address?

Yes

No

Counting yourself, how many people are in your household? (Excluding college students or military personnel who do not currently live at this address.)

Including yourself, how many people are employed in your household?

None

One or More

Please indicate the combined annual income for your household?

Less than \$9,999

\$40,000 to \$44,999

\$75,000 to \$79,999

\$115,000 to \$124,999

\$10,000 to \$14,999

\$45,000 to \$49,999

\$80,000 to \$84,999

\$125,000 to \$134,999

\$15,000 to \$19,999

\$50,000 to \$54,999

\$85,000 to \$89,999

\$135,000 to \$149,999

\$20,000 to \$24,999

\$55,000 to \$59,999

\$90,000 to \$94,999

\$150,000 to \$199,999

\$25,000 to \$29,999

\$60,000 to \$64,999

\$95,000 to \$99,999

\$200,000 or more

\$30,000 to \$34,999

\$65,000 to \$69,999

\$100,000 to \$104,999

Don't Know

\$35,000 to \$39,999

\$70,000 to \$74,999

\$105,000 to \$114,999

Refused

[Check Qualification](#)

Is 1 Main St Houston Texas 77002 your correct home address?

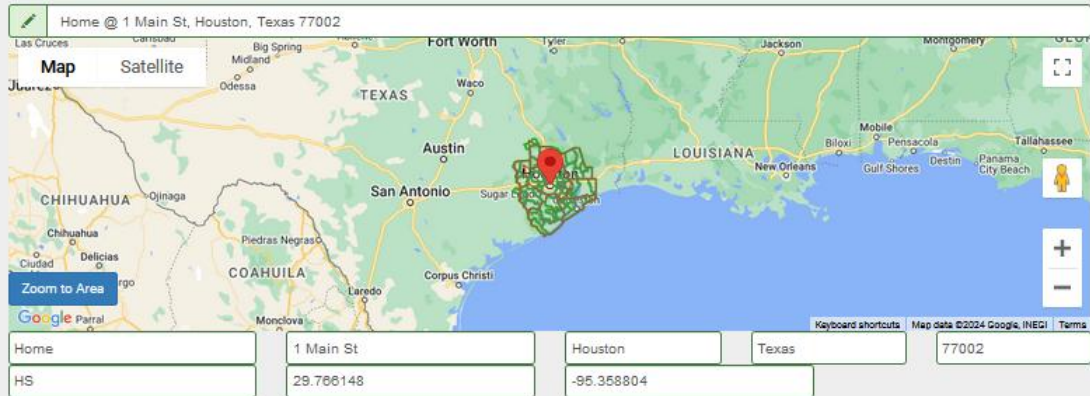
Yes No

Please indicate your home address.

(Please edit/change address as needed, using the map interface)

Selected location: Home @ 1 Main St, Houston, Texas 77002

Home @ 1 Main St, Houston, Texas 77002




Home @ 1 Main St, Houston, Texas 77002

Home 1 Main St Houston Texas 77002

HS 29.786148 -95.358804

Household Travel Survey

Household PIN: ZAYJW
1 Main St, Houston, Texas, 77002
Home

 ENGLISH

For Help, call 844-755-8511 or email hhtsupport@etcinstitute.com

Please review your answers and go back to change them or click Next to proceed with the initial survey questions.

Your Home Address	1 Main St Houston Texas 77002
Counting yourself, how many people are in your household? (Excluding college students or military personnel who do not currently live at this address.)	1
Including yourself, how many people are employed in your household?	None
Please indicate the combined annual income for your household?	Less than \$9,999

Go Back

Next

Household Travel Survey

For Help, call 844-755-8511 or email hhtsupport@etcinstitute.com

Congratulations!



You Qualify For This Survey

Continue to Survey



AMERICAN TRAVEL SURVEY
presented by ETC Institute

For disqualified participants, a reason would be given as to why they were disqualified. In the example below, the survey goal limit for that size household and that income had been

Household Travel Survey

For Help, call 844-755-8511 or email hhtsupport@etcinstitute.com

We're sorry but your household didn't qualify for this survey.

Reason for disqualification: Survey goal limit reached

If you would like to participate in future studies, please provide your contact information below:

Name

Phone

Email

Submit

reached.

Household Information

Household Travel Survey
Household PIN: 17EC7
230 Westcott St, Houston, Texas, 77007
Home

For Help, call 844-755-8511 or email httsupport@etcinstitute.com

[Household Info](#) | [Household Member Info](#) | [Vehicles](#) | [Travel Diary Set-up](#) | [Household Details](#)

Click [here](#) to review/update qualifying questions

How many motorized vehicles in working condition does your household have?

Don't Know Refused

How many bicycles in working condition are available for use by members of your household?

Don't Know Refused

Which one of the following BEST describes your home?

Single-Family Home (unattached) Duplex Mobile Home Don't Know
 Condo Apartment Other Refused

How many years have you lived in your current home?

One year or less Four years Refused
 Two years Five years or more
 Three years Don't Know

How many years have you lived in your current home?

One year or less Four years Refused
 Two years Five years or more
 Three years Don't Know

Was your previous residence in this same area?

Yes Don't Know
 No Refused

In what zip code was your previous residence located?

Don't Know Refused

How many years have you lived in your current home?

One year or less
 Four years
 Refused
 Two years
 Five years or more
 Three years
 Don't Know

Do you own or rent your current residence?

Own/Paying Mortgage
 Provided by job or military
 Don't Know
 Rent
 Other
 Refused

Household Member Information

Household Travel Survey

Household PIN: 17EC7
 230 Westcott St, Houston, Texas, 77007
 Home

For Help, call 844-755-8511 or email hhtsupport@etcinstitute.com

- Household Info
- Household Member Info
- Vehicles
- Travel Diary Set-up
- Household Details

Since age, employment, and other factors can impact travel patterns, please provide the following information for each person who is currently living in your household. To get started please click on the pencil icon in the Edit/Delete column in the table below.

Add Person

Actions	Person	Person	Age	Gender	Relationship	Race/Ethnicity	Employment Status	Student	Disability that limits travel	QC Check	Status
<div style="display: flex; gap: 5px;"> ✎ 🗑 </div>	1										PENDING (Click here)

Showing 1 to 1 of 1 entries

QC Check

Prev

Next

Save & Exit

Add Action

Add Note

Add Calllog

Household Member Demographics Person 1

Page 1
Incomplete

Page 2
Incomplete

Person's nickname

What is null's age?

 Don't Know Refused

What is null's Gender?

Male Female Refused

What is null's Household role/relationship to the Head of Household?

Head of household Aunt / Uncle
 Husband / Wife / Unmarried Partner Other Relative
 Mother / Father / In-law Other Non-Relative
 Brother / Sister / In-law Household Help
 Grandfather / Grandmother Don't Know
 Grandson / Granddaughter Refused
 Son / Daughter / In-law

In the past 7 days, how many days has null used a bicycle?

 Don't Know Refused

What is ETC Test's age?

Don't Know Refused

Is ETC Test a licensed Driver?

Yes Don't Know
 No Refused

In the past 7 days, how many days has ETC Test used a bicycle?

Don't Know Refused

What was the most common trip purpose for ETC Test's bicycle trips?

Work Shopping Recreation / Exercise Don't Know
 School Visiting Other Refused

X

Next

Save changes & Exit

What is ETC Test's Race/Ethnicity (Multiple Responses Allowed)?

- Black / African-American
- Hispanic / Mexican-American
- Asian / Pacific Islander
- Native American
- White / Caucasian
- Other
- Don't Know
- Refused

Is ETC Test Employed?

- Yes
- No
- Don't Know
- Refused

What is the highest grade or degree that ETC Test has earned?

- Less than a high school graduate
- High school graduate or GED
- Some College or Associate's degree
- Bachelor's degree
- Graduate degree or professional degree
- Don't Know
- Refused

Is ETC Test a Student? (Note: children in daycare are considered students)

- Yes
- No
- Don't Know
- Refused

Is ETC Test Employed?

- Yes
- No
- Don't Know
- Refused

Which of the following best describes ETC Test's situation?

- Retired
- Volunteer
- Disability Status
- Homemaker
- Looking for Work
- Not Looking for Work
- Student
- Other
- Don't Know
- Refused

Does ETC Test have a disability that limits travel?

- Yes
- No
- Don't Know
- Refused

X

Prev

Next

Save changes & Exit

Household Member Demographics ETC Test

Page 1
Completed

Page 2
Completed

Page 3
Incomplete

Page 4
Incomplete

Page 5
Incomplete

Page 6
Incomplete

Student Information
Incomplete

Approximately, how many hours per week does ETC Test work at their PRIMARY JOB?

Is ETC Test a commercial vehicle driver?

- Yes
- No
- Don't Know
- Refused

X

Prev

Next

Save changes & Exit

Is ETC Test a commercial vehicle driver?

- Yes
- No
- Don't Know
- Refused

What type of commercial vehicle does ETC Test drive?

- Cargo transport vehicle
- Commercial service vehicle
- Cargo transport and service vehicle
- Other
- Don't Know
- Refused

Household Member Demographics ETC Test

Page 1 Completed	Page 2 Completed	Page 3 Completed	Page 4 Incomplete	Page 5 Incomplete	Page 6 Incomplete	Student Information Incomplete
---------------------	---------------------	---------------------	----------------------	----------------------	----------------------	-----------------------------------

Is ETC Test considered self-employed at their PRIMARY place of employment?

- Yes Don't Know
 No Refused

Which of the following best describe ETC Test's PRIMARY place of employment?

- Office building (non-government) School; Post-Secondary College/University/Trade School
 Office building (government) Home Office/Residential Workplace
 Retail Store/Shopping mall/Gas station Airport
 Industrial Warehouse/Manufacturing/Construction Restaurant/Fast Food, Cafe, Bar & Grill
 Medical Offices/Hospital Other
 School; Day Care Don't Know
 School; K-12 Refused

Which of the following best describe ETC Test's PRIMARY occupation?

- Management, professional, and related occupations
- Service occupations
- Sales and office occupations
- Farming, fishing, and forestry occupations
- Construction, extraction, and maintenance occupations
- Production, transportation, and material moving occupations
- Other/Not applicable (unemployed/student/retired)
- Don't know
- Refused

Which of the following best describes the type of industry of ETC Test's PRIMARY occupation?

- | | |
|---|---|
| <input type="radio"/> Agriculture, forestry, fishing and hunting, mining | <input type="radio"/> Professional, scientific, management, administrative, and waste management services |
| <input type="radio"/> Construction | <input type="radio"/> Education, health, and social services |
| <input type="radio"/> Manufacturing | <input type="radio"/> Arts, entertainment, recreation, accommodation, food service |
| <input type="radio"/> Wholesale trade | <input type="radio"/> Other services (except public administration) |
| <input type="radio"/> Retail trade | <input type="radio"/> Public Administration |
| <input type="radio"/> Transportation, warehousing, utilities | <input type="radio"/> Not Applicable-(unemployed, student, retired) |
| <input type="radio"/> Information | <input type="radio"/> Don't Know |
| <input type="radio"/> Finance, insurance, real estate, rental and leasing | <input type="radio"/> Refused |

X

Prev

Next

Save changes & Exit

Household Member Demographics ETC Test

Page 1 Completed	Page 2 Completed	Page 3 Completed	Page 4 Completed	Page 5 Incomplete	Page 6 Incomplete	Student Information Incomplete
---------------------	---------------------	---------------------	---------------------	----------------------	----------------------	-----------------------------------

What is the name of ETC Test's PRIMARY Employer?

Primary Employment Location
(Please edit/change address as needed, using the map interface)

Selected location:

Keyboard shortcuts | Map data ©2022 Google, INEGI | Terms of Use | Report a map error

Work	Address	City	State	Zip
Studyarea	Lat	Lon		

Is ETC Test's PRIMARY job performed at a home office or business operated from home?

Yes Don't Know

No Refused

Household Member Demographics ETC Test

Page 1 Completed	Page 2 Completed	Page 3 Completed	Page 4 Completed	Page 5 Completed	Page 6 Incomplete	Student Information Incomplete
---------------------	---------------------	---------------------	---------------------	---------------------	----------------------	-----------------------------------

Does ETC Test currently work from home or telecommute on a regular basis for their PRIMARY job?

Yes Don't Know
 No Refused

Is ETC Test's PRIMARY work schedule flexible or fixed?

Flexible / Variable Fixed / Unchanging Don't Know Refused

How many days per week does ETC Test typically work at their PRIMARY job?

Don't Know Refused

How many of the last 7 days has ETC Test worked at home for their PRIMARY job?

Does ETC Test have more than one job?

Yes No Don't Know Refused

Does ETC Test have more than one job?

Yes No Don't Know Refused

How many total jobs does ETC Test have?

Don't Know Refused

Approximately, how many hours per week does ETC Test work at their SECONDARY JOB?

Page 1 Completed	Page 2 Completed	Page 3 Completed	Page 4 Completed	Page 5 Completed	Page 6 Completed	Page 7 Incomplete
---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	----------------------

Student Information
Incomplete

Is ETC Test considered self-employed at their SECONDARY place of employment?

Yes Don't Know
 No Refused

Which of the following best describe ETC Test's SECONDARY place of employment?

<input type="radio"/> Office building (non-government)	<input type="radio"/> School; Post-Secondary College/University/Trade School
<input type="radio"/> Office building (government)	<input type="radio"/> Home Office/Residential Workplace
<input type="radio"/> Retail Store/Shopping mall/Gas station	<input type="radio"/> Airport
<input type="radio"/> Industrial Warehouse/Manufacturing/Construction	<input type="radio"/> Restaurant/Fast Food, Cafe, Bar & Grill
<input type="radio"/> Medical Offices/Hospital	<input type="radio"/> Other
<input type="radio"/> School; Day Care	<input type="radio"/> Don't Know
<input type="radio"/> School; K-12	<input type="radio"/> Refused

Which of the following best describe ETC Test's SECONDARY occupation?

- Management, professional, and related occupations
- Service occupations
- Sales and office occupations
- Farming, fishing, and forestry occupations
- Construction, extraction, and maintenance occupations
- Production, transportation, and material moving occupations
- Other/Not applicable (unemployed/student/retired)
- Don't know
- Refused

Which of the following best describes the type of industry of ETC Test's SECONDARY occupation?

- | | |
|---|---|
| <input type="radio"/> Agriculture, forestry, fishing and hunting, mining | <input type="radio"/> Professional, scientific, management, administrative, and waste management services |
| <input type="radio"/> Construction | <input type="radio"/> Education, health, and social services |
| <input type="radio"/> Manufacturing | <input type="radio"/> Arts, entertainment, recreation, accommodation, food service |
| <input type="radio"/> Wholesale trade | <input type="radio"/> Other services (except public administration) |
| <input type="radio"/> Retail trade | <input type="radio"/> Public Administration |
| <input type="radio"/> Transportation, warehousing, utilities | <input type="radio"/> Not Applicable-(unemployed, student, retired) |
| <input type="radio"/> Information | <input type="radio"/> Don't Know |
| <input type="radio"/> Finance, insurance, real estate, rental and leasing | <input type="radio"/> Refused |

- Page 1 Completed
- Page 2 Completed
- Page 3 Completed
- Page 4 Completed
- Page 5 Completed
- Page 6 Completed
- Page 7 Completed

Student Information
Incomplete

What type of school does ETC Test go to?

<input type="radio"/> Daycare / Preschool	<input type="radio"/> Post Secondary / College / Trade
<input type="radio"/> Elementary School	<input type="radio"/> Other
<input type="radio"/> Middle School/Junior High	<input type="radio"/> Don't Know
<input type="radio"/> High School	<input type="radio"/> Refused

Is ETC Test homeschooled?

<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Don't Know
---------------------------	--------------------------	----------------------------------

Does ETC Test attend an online school?

<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Don't Know
---------------------------	--------------------------	----------------------------------

Is ETC Test homeschooled?

Yes No Don't Know

Does ETC Test attend an online school?


Yes No Don't Know

School Location
(Please edit/change address as needed, using the map interface)

Selected location:

Find by address or place name

Map Satellite



School Address City State Zip

Studyarea Lat Lon

Does ETC Test attend an online school?

Yes No Don't Know

Name of school

Vehicle Information

Household Travel Survey

Household PIN: 17EC7
230 Westcott St, Houston, Texas, 77007
Home

For Help, call 844-755-8511 or email hhtsupport@etcinstitute.com

[Household Info](#)
[Household Member Info](#)
[Vehicles](#)
[Travel Diary Set-up](#)
[Household Details](#)

Since the types of vehicles that are being used and the purpose they are being used for can impact travel patterns, please provide the following information for each of the vehicles in your household. To get started please click on the pencil icon in the Edit/Delete column in the table below.

You can edit details by clicking icon

[Add Vehicle](#)

Actions	Vehicle	Type	Year	Make	Model	Fuel Type	Is this vehicle used for commercial purposes?	If Yes, how is this vehicle used commercially?	Do you own or lease this vehicle?	Odometer Reading	Vehicle Nickname	Status
 	1											PENDING (Click here)

Showing 1 to 1 of 1 entries

QC Check

[Prev](#)

[Next](#)

[Save & Exit](#)

[Add Action](#)

[Add Note](#)

[Add Calllog](#)

Vehicle Info []

Page 1

Vehicle Type

- | | |
|---|---------------------------------------|
| <input type="radio"/> Motorcycle (includes mopeds) | <input type="radio"/> Cargo Van |
| <input type="radio"/> Car (includes station wagons) | <input type="radio"/> Service Vehicle |
| <input type="radio"/> Van (mini and passenger) | <input type="radio"/> Other |
| <input type="radio"/> Sport Utility Vehicle (SUV) | <input type="radio"/> Don't Know |
| <input type="radio"/> Pickup truck | <input type="radio"/> Refused |

Vehicle make

Vehicle model

Vehicle year

Fuel Vehicle Uses

- | | | |
|--------------------------------|---|----------------------------------|
| <input type="radio"/> Gasoline | <input type="radio"/> Natural Gas | <input type="radio"/> Other |
| <input type="radio"/> Diesel | <input type="radio"/> Electricity | <input type="radio"/> Don't Know |
| <input type="radio"/> Propane | <input type="radio"/> Gas / Electric Hybrid | <input type="radio"/> Refused |

Is this vehicle used for commercial purposes?

- Yes Don't Know
 No Refused

Do you own or lease this vehicle?

- Owned or leased by a member of household
 Owned or leased by a non-household member or business
 Don't Know
 Refused

Odometer Reading (approx. miles)

Don't Know Refused

Vehicle Nickname (Please provide a nickname for this vehicle such as "Nick's car" This will help you later when filling out the trip diary.)

Is this vehicle used for commercial purposes?

- Yes Don't Know
 No Refused

How is this vehicle used commercially?

- Cargo Delivery Other
 Commercial Service Don't Know
 Cargo Delivery and Commercial Service Refused

Participation Information

Household Travel Survey

Household PIN: 17EC7
230 Westcott St, Houston, Texas, 77007
Home

For Help, call 844-755-8511 or email hhtsupport@etcinstitute.com

Household InfoHousehold Member InfoVehiclesTravel Diary Set-upHousehold Details

"We appreciate the information you've provided! We also need to collect information about the places that residents in your area visit on typical weekday."

[IF MORE INFO NEEDED : "Data about people's travel patterns help your local and state transportation departments plan improvements to this region's transportation system , to make it easier for people to get where they want to go."]


We collect that information by asking local households to keep a log of their trips for 24 hours. With a set of completed 24-hr trip logs, each member of the participating household can choose a reward from dozens of national retailers. You can also choose to donate your reward to your favorite charity.

Which person in your household will be in charge of making sure everyone has COMPLETED a travel diary?
NOTE: This person will be the contact person for your household if we have questions about any of the survey responses.

#1 ETC Test (25 years)

Please choose your travel date:

Thursday June 15th, 2023 Friday June 16th, 2023 Monday June 19th, 2023 Other

Edit	Person	Email	Phone	Survey Mode	Send Reminders	Status
	#1 ETC Test (25)					PENDING (Click here)

Showing 1 to 1 of 1 entries

QC Check

PrevNextSave & ExitAdd ActionAdd NoteAdd Calllog

How will ETC Test's travel diary be completed?

Note: When choosing how to participate, past participants who have used multiple methods for entering travel information, preferred the ease and speed of the mobile app.

If no one in your household uses the smartphone app, your household will receive a \$20 gift card upon completion. If at least one person in your household uses the smartphone app to complete their travel diary, your household will receive a \$40 gift card.

- Smartphone App (recommended if applicable)
- Online (on this website)
- Over the phone with our call center
- Mailed paper survey materials

Email

Don't Know Refused

Phone number (allowed formats: 123-456-7890 or 1234567890)

Don't Know Refused

Phone number (allowed formats: 123-456-7890 or 1234567890)

Don't Know Refused

May we send text reminders to ETC Test regarding the survey?

Note: Reminders will stop once the survey is completed

- Yes
- No

Household Travel Survey

Household PIN: 17EC7
230 Westcott St, Houston, Texas, 77007
Home

For Help, call 844-755-8511 or email hhtsupport@etcinstitute.com

- Household Info
- Household Member Info
- Vehicles
- Travel Diary Set-up
- Household Details
- Travel Diary**

Select a Household Member in order to review/edit their travel day stops for Thursday, June 15th.

#1 ETC Test (25 years) Jun-15 - 10 stops

Travel date

06/15/2023

Who is filling out {name}'s trip diary?

#1 ETC Test (25 years)

Was {name} at home at 3 am on {td}?

Yes

No

Did ETC use Google Timeline to record and recall trips for their travel day?

Yes

No

Don't Know

Refused

Travel Survey Startup Data - Please answer the following questions about the place where you started your survey day.


Where was {name} at 3:00 am?

(Please edit/change address as needed, using the map interface)

Selected location:

Find by address or place name

Map Satellite



Zoom to Area

Google

Keyboard shortcuts | Map data ©2023 Google, INEGI | Terms of Use | Report a map error

Stop/Place Name	Address	City	State	Zip
Studyarea	Lat	Lon		

Activity at Location

- | | |
|---|---|
| <input type="radio"/> At Home; primary job related | <input type="radio"/> Personal Business; laundry, dry cleaning, barber, medical, etc. |
| <input type="radio"/> At Home; other | <input type="radio"/> Other Services |
| <input type="radio"/> At Home; job and non-job related | <input type="radio"/> Social/Recreational |
| <input type="radio"/> Work | <input type="radio"/> Eat Out |
| <input type="radio"/> Work Related | <input type="radio"/> Civic Activities (including church) |
| <input type="radio"/> School; Daycare/Preschool | <input type="radio"/> Pick-up/Drop-off Person at Work |
| <input type="radio"/> School; Elementary | <input type="radio"/> Pick-up/Drop-off Person at School |
| <input type="radio"/> School; Middle/Junior High | <input type="radio"/> Pick-up/Drop-off Person at Day Care |
| <input type="radio"/> School; High School | <input type="radio"/> Pick-up/Drop-off Person at Other |
| <input type="radio"/> School; College/University/Trade School | <input type="radio"/> Change Mode of Travel |
| <input type="radio"/> Incidental Shopping; gas, groceries, etc. | <input type="radio"/> Other Activity |
| <input type="radio"/> Major Shopping; clothes, appliances, etc. | <input type="radio"/> Don't Know |
| <input type="radio"/> Volunteer | <input type="radio"/> Refused |

Type of place

- | | |
|---|---|
| <input type="radio"/> Residential | <input type="radio"/> Fitness Club / Gym |
| <input type="radio"/> Residential Type Workplace | <input type="radio"/> Medical Facility / Hospital |
| <input type="radio"/> Construction Site | <input type="radio"/> Movie Theater / Cinema |
| <input type="radio"/> Transportation stop (Bus, Train) | <input type="radio"/> Restaurant / Fast Food, Bar & Grill |
| <input type="radio"/> Automotive Dealer / Repair | <input type="radio"/> Educational-12th Grade or lower |
| <input type="radio"/> Bank / Financial Institution | <input type="radio"/> Educational-college, trade, etc. |
| <input type="radio"/> Barber / Beauty / Nail Salon | <input type="radio"/> Shopping Mall / Department Store |
| <input type="radio"/> Bookstore / News Stand | <input type="radio"/> Gas Station |
| <input type="radio"/> Convenience / Drug Store | <input type="radio"/> Airport |
| <input type="radio"/> Gov / City / County / State / Federal Offices | <input type="radio"/> Other |
| <input type="radio"/> Offices (Non-Government) | <input type="radio"/> Don't Know |
| <input type="radio"/> Grocery | <input type="radio"/> Refused |

Did undefined leave 6900 N Mercier St, Kansas City, MO 64118, USA at any time on Thursday, June 15th?

- | | |
|---------------------------|--|
| <input type="radio"/> Yes | <input type="radio"/> They were out of the area / region all day |
| <input type="radio"/> No | |

Did undefined leave 6900 N Mercier St, Kansas City, MO 64118, USA at any time on Thursday, June 15th?

- Yes They were out of the area / region all day
 No

Why didn't undefined travel on the survey day?

- | | |
|---|---|
| <input type="checkbox"/> Personal illness | <input type="checkbox"/> Bad weather |
| <input type="checkbox"/> Vacation or personal day | <input type="checkbox"/> No transportation available |
| <input type="checkbox"/> Caring for a dependent | <input type="checkbox"/> No longer a household resident |
| <input type="checkbox"/> Home-bound elderly or disabled | <input type="checkbox"/> Did not need to travel |
| <input type="checkbox"/> Worked at home (for pay) | <input type="checkbox"/> Other |
| <input type="checkbox"/> Not scheduled to work | <input type="checkbox"/> Don't Know |
| <input type="checkbox"/> Worked around home (not for pay) | <input type="checkbox"/> Refused |

Did undefined leave 6900 N Mercier St, Kansas City, MO 64118, USA at any time on Thursday, June 15th?

- Yes They were out of the area / region all day
 No

What time did undefined leave this location on Thursday, June 15th?

Travel Day Stops

- Please make sure all the stops from the travel day are recorded accurately below.
- You can add, edit, reorder and delete stops.
- Answer questions for each stop by clicking on the pencil icon.
- If you see a stop below in **red** font, that does not necessarily indicate anything is wrong with the stop details. However, you may want to double-check these trip details. Something looks a little odd to us. These stops will receive additional scrutiny during review.
- **Only enter information for trips you have already completed.**
- **Do not enter information for future travel.**

[Add Stop](#)

[Click to edit another household member's stops](#)

- Show Deleted Stops Show Traffic Signal Stops Show Hidden Stops

Actions	#	Location/Activity	Status
	Start	Place Name: 6900 N Mercier St Activity: At Home; other Place Type: Residential	Pending (Complete above)

Showing 1 to 1 of 1 entries

Stop details for ETC

Use buttons at bottom of screen to proceed to the Next screen, go back to the Previous screen, or Save & Exit

Trip Information Completion Status

Location Incomplete	Activity Incomplete	Place Type Incomplete	Travel Mode Incomplete
------------------------	------------------------	--------------------------	---------------------------

Please select location

(Previously-entered locations. Click to select.)

- 1 Home 230 Westcott St, Houston, Texas 77007, USA
- 2 6900 N Mercier St, Kansas City, Missouri 64118, USA
- 3 BIOLIFE PLASMA SERVICE 8761 N Ambassador Dr, Kansas City, Missouri 64154, USA
- 4 SHEAR MADDNESS 8261 N Booth Ave, Kansas City, Missouri 64158, USA
- 5 HOME 6900 N Mercier St, Kansas City, Missouri 64118, USA
- 6 Work (ETC Test/25/F) 725 W Frontier Ln, Olathe, Kansas 66061, USA
- 7 HOME 6828 N Mercier St, Kansas City, Missouri 64118, USA
- 8 HOME 6900 N Mercier St, Kansas City, Missouri 64118, USA
- 9 MCDONALDS 9851 NE Barry Rd, Kansas City, Missouri 64157, USA
- 10 SAMS CLUB 5110 N Oak Trafficway, Kansas City, Missouri 64118, USA

(Please edit/change address as needed, using the map interface)

Selected location:

Find by address or place name

Map Satellite

Zoom to Area

Google

Keyboard shortcuts | Map data ©2023 Google, INEGI | Terms of Use | Report a map error

Stop/Place Name	Address	City	State	Zip
Studyarea	Lat	Lon		

Arrival Time

Was this the last stop made on the travel day?

Yes No

X

Next

Save changes & Exit

Was this the last stop made on the travel day?

Yes No

Departure Time

Stop details for ETC
Personal
856b Broadway, Beaumont, Texas

Use buttons at bottom of screen to proceed to the Next screen, go back to the Previous screen, or Save & Exit

Trip Information Completion Status

Location Completed	Activity Incomplete	Place Type Incomplete	Travel Mode Incomplete
-----------------------	------------------------	--------------------------	---------------------------

Activity at Location

- At Home; primary job related
- At Home; other
- At Home; job and non-job related
- Work
- Work Related
- School; Daycare/Preschool
- School; Elementary
- School; Middle/Junior High
- School; High School
- School; College/University/Trade School
- Incidental Shopping; gas, groceries, etc.
- Major Shopping; clothes, appliances, etc.
- Volunteer
- Personal Business; laundry, dry cleaning, barber, medical, etc.
- Other Services
- Social/Recreational
- Eat Out
- Civic Activities (including church)
- Pick-up/Drop-off Person at Work
- Pick-up/Drop-off Person at School
- Pick-up/Drop-off Person at Day Care
- Pick-up/Drop-off Person at Other
- Change Mode of Travel
- Other Activity
- Don't Know
- Refused

X

Prev

Next

Save changes & Exit

Stop details for ETC
Personal
856b Broadway, Beaumont, Texas

Use buttons at bottom of screen to proceed to the Next screen, go back to the Previous screen, or Save & Exit

- Trip Information Completion Status -

Location Completed	Activity Completed	Place Type Incomplete	Travel Mode Incomplete
-----------------------	-----------------------	--------------------------	---------------------------

Type of place

- Residential
- Residential Type Workplace
- Construction Site
- Transportation stop (Bus, Train)
- Automotive Dealer / Repair
- Bank / Financial Institution
- Barber / Beauty / Nail Salon
- Bookstore / News Stand
- Convenience / Drug Store
- Gov / City / County / State / Federal Offices
- Offices (Non-Government)
- Grocery
- Fitness Club / Gym
- Medical Facility / Hospital
- Movie Theater / Cinema
- Restaurant / Fast Food, Bar & Grill
- Educational-12th Grade or lower
- Educational-college, trade, etc.
- Shopping Mall / Department Store
- Gas Station
- Airport
- Other
- Don't Know
- Refused

X

Prev

Next

Save changes & Exit

Stop details for ETC
Personal
856b Broadway, Beaumont, Texas

Use buttons at bottom of screen to proceed to the Next screen, go back to the Previous screen, or Save & Exit

- Trip Information Completion Status -

Location Completed	Activity Completed	Place Type Completed	Travel Mode Incomplete
-----------------------	-----------------------	-------------------------	---------------------------

Mode of travel

- Walk
- Driver (Car / Truck / Van)
- Passenger (Car / Truck / Van)
- Carpool / Vanpool (Driver or Passenger)
- Public Transit
- School Bus
- Rideshare Service (Uber, Lyft, etc.)
- Taxi / Paid Limo
- Bicycle
- Motorcycle / Moped
- Scooter (Bird, Lime, etc.)
- Commercial Service Vehicle
- Commercial Cargo Transport Vehicle
- Other
- Don't Know
- Refused

X

Prev

Save changes & Exit

How many people traveled to this stop/destination, (including ETC)?

Was anyone else from your household traveling with you to this location?

- Yes
- No

Stop details for ETC
Personal
856b Broadway, Beaumont, Texas

Use buttons at bottom of screen to proceed to the Next screen, go back to the Previous screen, or Save & Exit

- Trip Information Completion Status -

Location Completed	Activity Completed	Place Type Completed	Travel Mode Completed	Persons Incomplete
-----------------------	-----------------------	-------------------------	--------------------------	-----------------------

How many people traveled to this stop/destination, (including ETC)?

Does the vehicle used for this trip belong to your household?

- Yes No
 Don't Know Refused

X

Prev

Save changes & Exit

How many people traveled to this stop/destination, (including ETC)?

Was anyone else from your household traveling with you to this location?

- Yes No

Does the vehicle used for this trip belong to your household?

- Yes No
 Don't Know Refused

Which vehicle

- #1 RAM 1500 2018

Was this vehicle used on all of your remaining trips on the survey day?

- Yes No

Household Travel Survey

PIN: 17EC7

For Help, call 844-755-9511 or email httsupport@etcinstitute.com

Your Comments About This Survey

In a few words, please tell us about aspects of the survey process and tools that you liked or disliked. We would appreciate any improvements or suggestions you might have.

Respondent Feedback

Enter your comments

Next

Household Travel Survey



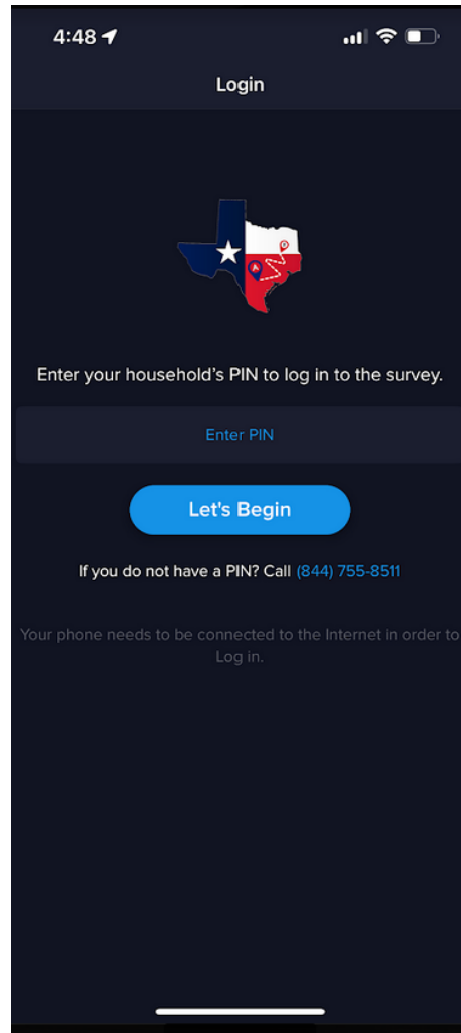
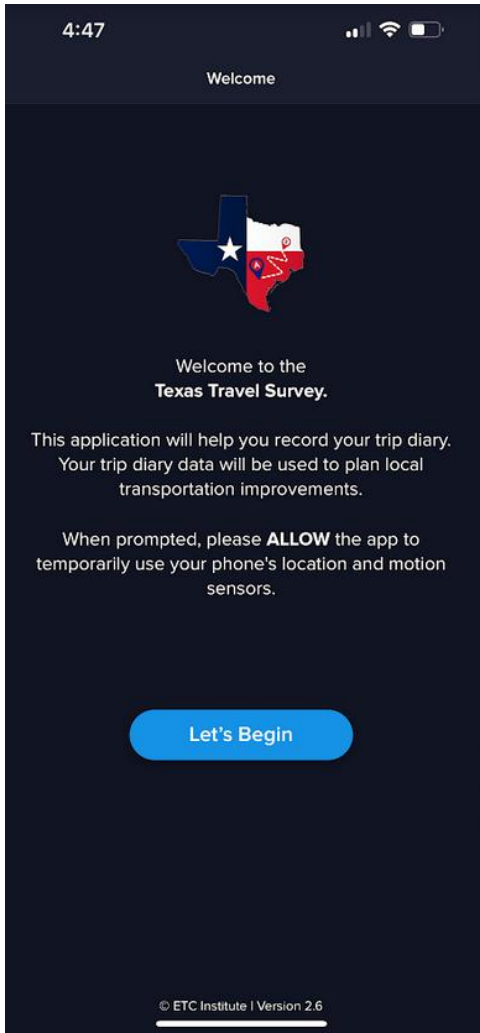
Thank you!

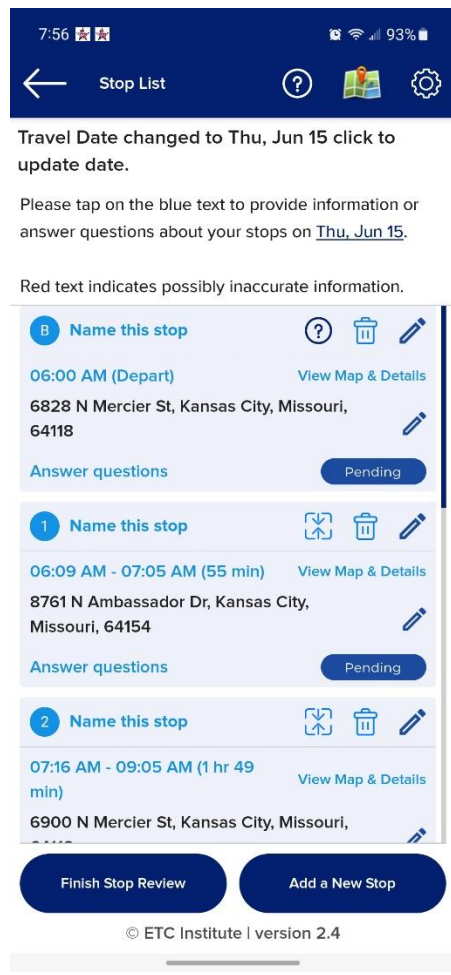
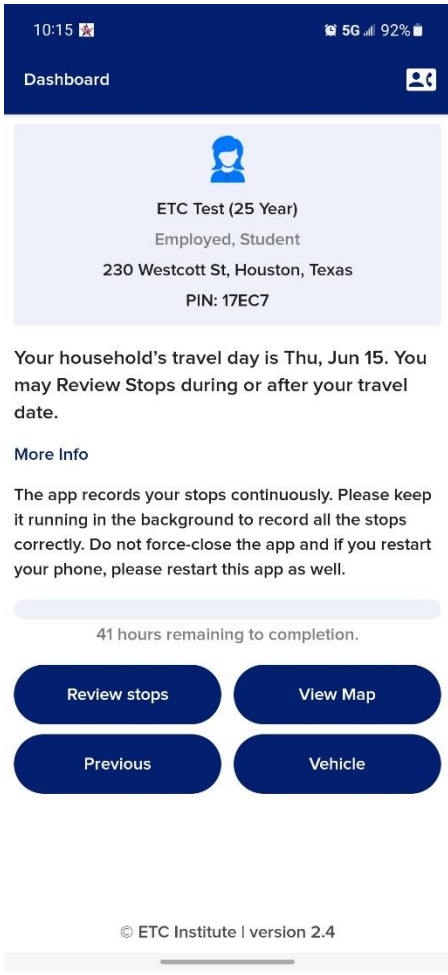
Thank you for participating in this important survey. The results of our study will be used by the Texas Department of Transportation and local governments to plan **transportation improvements** in the area.

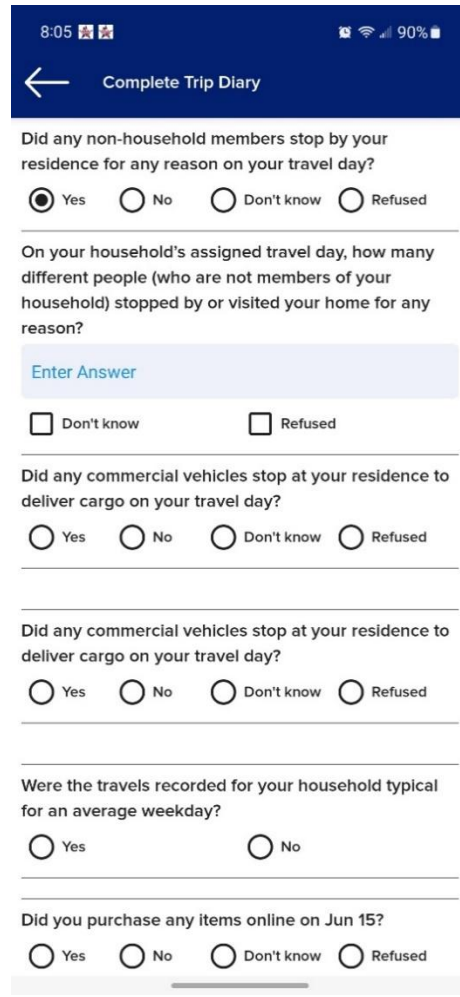
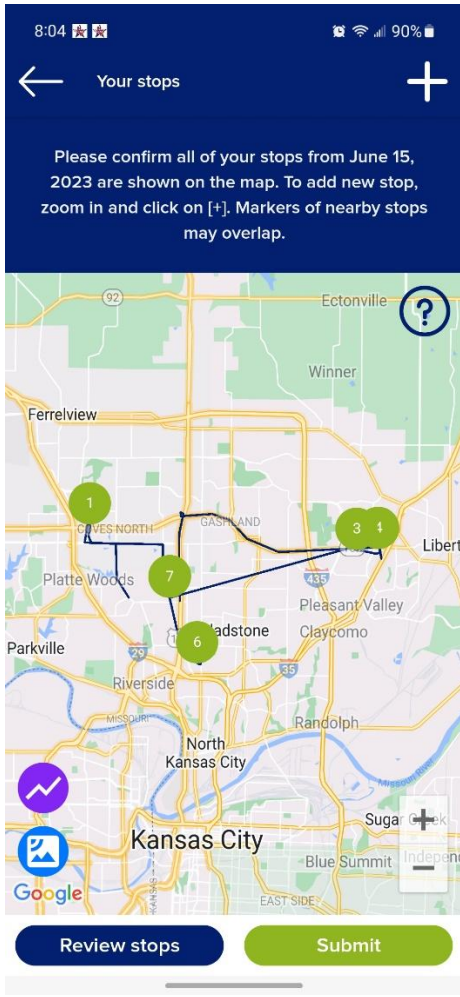
You may now close this browser window.

For more information about this study, please visit the

[Travel Survey Program Page](#)







Appendix H: Flow Chart of App Algorithm

