UnderStandingAmerica Study

UAS 219: LA BAROMETER: MOBILITY

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1 INTRODUCTION

This UAS panel survey, titled “UAS219: LA Barometer: Mobility” is the second of a series of quarterly surveys sponsored by Union Bank as part of the LA Barometer project. It asks respondents about their transportation experiences in Los Angeles County as well as their general health and well-being. Related surveys are UAS194, UAS199, UAS286, UAS312, UAS320 and UAS379. This survey is no longer in the field. Respondents were paid $10 to complete the survey.

1.1 Topics

This survey contains questions (among others) on the following topics: Consumer Behavior, Environment. A complete survey topic categorization for the UAS can be found here.

1.2 Experiments

This survey includes experiment(s) of the following type(s): Auxiliary Randomization. Please refer to explanatory comments in the Routing section for detailed information. A complete survey experiment categorization for the UAS can be found here.

1.3 Citation

Each publication, press release or other document that cites results from this survey must include an acknowledgment of UAS as the data source and a disclaimer such as, ‘The project described in this paper relies on data from survey(s) administered by the Understanding America Study, which is maintained by the Center for Economic and Social Research (CESR) at the University of Southern California. The content of this paper is solely the responsibility of the authors and does not necessarily represent the official views of USC or UAS.’ For any questions or more information about the UAS, contact Tania Gutsche, Project and Panel Manager, Center for Economic and Social Research, University of Southern California, at tgutsche@usc.edu.
2 SURVEY RESPONSE AND DATA

2.1 Sample selection and response rate

The sample selection for this survey was:

All active respondents from the LA County sample.

As such, this survey was made available to 1821 UAS participants. Of those 1821 participants, 1384 completed the survey and are counted as respondents. Of those who are not counted as respondents, 10 started the survey without completing and 427 did not start the survey. The overall response rate was 76%.

Note: We are unable to provide sample weights for a small number of UAS members (see the Sample weighting section below for details). If they completed the survey, these members are included in the data set with a weight of zero, but accounted for in the computation of total sample size and survey response rate.%.

The detailed survey response rate is as follows:

<table>
<thead>
<tr>
<th>UAS219 - Response Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of selected sample</td>
</tr>
<tr>
<td>Completed the survey</td>
</tr>
<tr>
<td>Started but did not complete the survey</td>
</tr>
<tr>
<td>Did not start the survey</td>
</tr>
<tr>
<td>Response rate</td>
</tr>
</tbody>
</table>

2.2 Timings

The survey took respondents an average of 19 minutes, and the full distribution of survey response times is available in the figure below. Times per question are available upon request.
2.3 Sample & Weighting

Weights are included in the data set for this survey. This survey dataset may contain respondents with a weight of zero. These respondents belong to a small group of UAS members for whom sample weights cannot be computed due to non-probability recruitment for special projects. Hence, while they are accounted for in the total number of survey respondents, they do not contribute to any statistics using sample weights. For more details on the UAS weighing procedures please refer to the [UAS Weighting Procedures V1]. Please contact UAS staff with any questions.
3 STANDARD VARIABLES

Each Understanding America Study data contains a series of standard variables, consisting of individual, household and sample identifiers, language indicator, time stamps and a rating by the respondent of how much he or she liked the survey:

- **uasid**: the identifier of the respondent. This identifier is assigned to a respondent at recruitment and stays with the respondent throughout each and every survey he/she participates in. When analyzing data from multiple surveys, the ‘uasid’ can be used to merge data sets.

- **uashhid**: the household identifier of the respondent. Every member is assigned a household identifier, stored in the variable ‘uashhid’. For the primary respondent this identifier equals his or her ‘uasid’. All other eligible members of the primary respondent’s household (everyone who is 18 or older in the household) who become UAS respondents receive the ‘uasid’ of the primary respondent as their household identifier. The identifier ‘uashhid’ remains constant over time for all respondents. Thus it is always possible to find the original UAS household of an UAS panel member (even after they, for example, have moved out to form another household).

- **survhhid**: uniquely identifies the household a UAS panel member belongs to in a given survey. For instance, if the primary respondent and his/her spouse are both UAS members at the time of a given survey, they both receive the same ‘survhhid’ identifier for that survey. If they subsequently split, they receive two different ‘survhhid’ in subsequent surveys. They, however, always share the same ‘uashhid’. The identifier ‘survhhid’ is set to missing (.) if no other household members are UAS panel members at the time of the survey. Since individuals can answer the same survey at different points in time (which can be relatively far apart if the survey is kept in the field for a prolonged time), it may be possible that, within the same data set, household members have different ‘survhhid’ reflecting different household compositions at the time they answered the survey. For instance, suppose that the primary respondent and his/her spouse are both UAS members. If the primary respondent answers the survey when he/she is living with the spouse, but the spouse answers the survey when the couple has split, they receive different ‘survhhid’. Hence, the variable ‘survhhid’ identifies household membership of UAS panel members, at the time the respondent answers the survey. Note: in the My Household survey ‘survhhid’ is set to unknown (.u) for respondents who last participated in the My Household survey prior to January 21, 2015.

- **uasmembers**: is the number of other household members who are also UAS panel members at the time of the survey. Since individuals can answer the same survey at different points in time (which can be relatively far apart if the survey is kept in the field for a prolonged time), it may be possible that, within the same data set, the primary respondent of a household has a value of ‘0’, whereas the second UAS household respondent has a value of ‘1’. Therefore ‘uasmembers’ should be interpreted as the
number of household and UAS panel members at the time the respondent answers the survey. Note: in the My Household survey ‘uasmembers’ is set to unknown (.u) for respondents who last participated in the My Household survey prior to January 21, 2015.

- **sampleframe**: indicates the sampling frame from which the household of the respondent was recruited. All UAS recruitment is done through address based sampling (ABS) in which samples are acquired based on postal records. Currently, the variable ‘sampleframe’ takes on four values reflecting four distinct sample frames used by the UAS over the year (in future data sets the number of sample frames used for recruitment may increase if additional specific populations are targeted in future recruitment batches):
  1. U.S. National Territory: recruited through ABS within the entire U.S.
  2. Areas high concentration Nat Ame: recruited through ABS in areas with a high concentration of Native Americans in the zip-code. Within these batches, individuals who are not Native Americans are not invited to join the UAS.
  3. Los Angeles County: recruited through ABS within Los Angeles County.
  4. California: recruited through ABS within California.

Note: prior to March 6, 2024 this variable was called sampletype and had the following value labels for the above list in UAS data sets:

  1. Nationally Representative Sample: recruited through ABS within the entire U.S.
  2. Native Americans: recruited through ABS in areas with a high concentration of Native Americans. Within these batches, individuals who are not Native Americans are not invited to join the UAS.
  3. LA County: recruited through ABS within Los Angeles County.
  4. California: recruited through ABS within California.

- **batch**: indicates the batch from which the respondent was recruited. Currently, this variable takes the following values (in future data sets the number of batches may increase as new recruitment batches are added to the UAS):
  1. ASDE 2014/01
  2. ASDE 2014/01
  3. ASDE 2014/01
  4. Public records 2015/05
  5. MSG 2015/07
  6. MSG 2016/01
  7. MSG 2016/01
  8. MSG 2016/01
  9. MSG 2016/02
10. MSG 2016/03
11. MSG 2016/04
12. MSG 2016/05
13. MSG 2016/08
14. MSG 2017/03
15. MSG 2017/11
16. MSG 2018/02
17. MSG 2018/08
18. MSG 2019/04
19. MSG 2019/05
20. MSG 2019/11
21. MSG 2020/08
22. MSG 2020/10
23. MSG 2021/02
24. MSG 2021/08
25. MSG 2021/08
26. MSG 2022/02
27. MSG 2022/02
28. MSG 2022/08
29. MSG 2022/11
30. MSG 2022/11
31. MSG 2023/01
32. MSG 2023/06
33. MSG 2023/09
34. MSG 2023/10

Note: prior to March 6, 2024 this variable had the following value labels for the above list in UAS data sets:

2. ASDE 2014/01 Native Am.
3. ASDE 2014/11 Native Am.
4. LA County 2015/05 List Sample
primary respondent: indicates if the respondent was the first person within the household (i.e. to become a member or whether s/he was added as a subsequent member. A household in this regard is broadly defined as anyone living together with the primary respondent. That is, a household comprises individuals who live together, e.g. as part of a family relationship (like a spouse/child/parent) or in context of some other relationship (like a roommate or tenant).

hardware indicates whether the respondent ever received hardware or not. Note: this variable should not be used to determine whether a respondent received hardware at a given point in time and/or whether s/he used the hardware to participate in a survey. Rather, it indicates whether hardware was ever provided:
1. None
2. Tablet (includes Internet)
   - **language**: the language in which the survey was conducted. This variable takes a value of 1 for English and a value of 2 for Spanish.
   - **start_date** (`start_year, start_month, start_day, start_hour, start_min, start_sec`): indicates the time at which the respondent started the survey.
   - **end_date** (`end_year, end_month, end_day, end_hour, end_min, end_sec`): indicates the time at which the respondent completed the survey.
   - **cs_001**: indicates how interesting the respondent found the survey.
4 BACKGROUND DEMOGRAPHICS

Every UAS survey data set includes demographic variables, which provide background information about the respondent and his/her household. Demographic information such as age, ethnicity, education, marital status, work status, state of residence, family structure is elicited every quarter through the “My Household” survey. The demographic variables provided with each survey are taken from the most recent ‘MyHousehold’ survey answered by the respondent. If at the time of a survey, the information in “My Household” is more than three months old, a respondent is required to check and update his or her information before being able to take the survey.

The following variables are available in each survey data set:

- **gender**: the gender of the respondent.
- **dateofbirth_year**: the year of birth of the respondent.
- **age**: the age of the respondent at the start of the survey.
- **agerange**: if the respondent’s age cannot be calculate due to missing information, ‘agerange’ indicates the approximate age. Should a value for both the ‘age’ and ‘agerange’ be present, then ‘age’ takes precedence over ‘agerange’.
- **citizenus**: indicates whether the respondent is a U.S. citizen.
- **bornus**: indicates whether the respondent was born in the U.S.
- **stateborn**: indicates the state in which the respondent was born. This is set to missing (.) if the respondent was not born in the U.S.
- **countryborn**: indicates the country in which the respondent was born. This is set to missing (.) if the respondent was born in the U.S.
- **countryborn_other**: indicates the country of birth if that country is not on the drop down list of countries shown to the respondent.
- **statereside**: the state in which the respondent is living.
- **immigration_status**: indicates whether the respondent is an immigrant. It takes one of the following values: 0 Non-immigrant, 1 First generation immigrant (immigrant who migrated to the U.S), 2 Second generation immigrant (U.S.-born children of at least one foreign-born parent), 3 Third generation immigrant (U.S.-born children of at least one U.S.-born parent, where at least one grandparent is foreign-born), or 4 Unknown immigrant status.
- **maritalstatus**: the marital status of the respondent.
- **livewithpartner**: indicates whether the respondent lives with a partner.
- **education**: the highest level of education attained by the respondent.
- **hisplatinoo**: indicates whether the respondent identifies him or herself as being Hispanic or Latino. This variable is asked separately from race.
- **hisplatinogroup**: indicates which Hispanic or Latino group a respondent identifies him or herself with. This is set to missing (.) if the respondent does not identify him or herself as being Hispanic or Latino.
- **white**: indicates whether the respondent identifies him or herself as white (Caucasian).
- **black**: indicates whether the respondent identifies him or herself as black (African-American).
- **nativeamer**: indicates whether the respondent identifies him or herself as Native American (American Indian or Alaska Native).
- **asian**: indicates whether the respondent identifies him or herself as Asian (Asian-American).
- **pacific**: indicates whether the respondent identifies him or herself as Native Hawaiian or Other Pacific Islander.
- **race**: indicates the race of the respondent as singular (e.g., ‘1 White’ or ‘2 Black’) or as mixed (in case the respondent identifies with two or more races). The value ‘6 Mixed’ that the respondent answered ‘Yes’ to at least two of the single race categories. This variable is generated based on the values of the different race variables (white, black, nativeamer, asian, pacific). This composite measure is not conditional on hisplatinoo, so an individual may identify as Hispanic or Latino, and also as a member of one or more racial groups.
- **working**: indicates whether the respondent is working for pay.
- **sick leave**: indicates whether the respondent is not working because sick or on leave.
- **unemplayoff**: indicates whether the respondent is unemployed or on lay off.
- **unempllook**: indicates whether the respondent is unemployed and looking for a job.
- **retired**: indicates whether the respondent is retired.
- **disabled**: indicates whether the respondent has a disability.
- **lf other**: specifies other labor force status.
- **laborstatus**: indicates the labor force status of the respondent as singular (e.g., ‘1 Working for pay’ or ‘2 On sick or other leave’) or as mixed (in case the respondent selects two or more labor statuses). The value ‘8 Mixed’ indicates that the respondent answered ‘Yes’ to at least two of the single labor force status variables. This variable is generated based on the values of the different labor status variables (working, sick leave, unemplayoff, unempllook, retired, disabled, lf other).
• **employmenttype**: indicates the employment type of the respondent (employed by the government, by a private company, a nonprofit organization, or self-employed). This is set to missing (.) if the respondent is not currently working or currently on sick or other leave.

• **workfullpart**: indicates whether the respondent works full or part-time. This is set to missing (.) if the respondent is not currently working or currently on sick or other leave.

• **hourswork**: indicates the number of hours the respondent works per week. This is set to missing (.) if the respondent is not currently working or currently on sick or other leave.

• **hhincome**: is the total combined income of all members of the respondent’s household (living in their household) during the past 12 months.

• **anyhhmember**: indicates whether there were any members in the respondent’s household at the time he/she answered the survey as reported by the respondent.

• **hhmembernumber**: indicates the number of household members in the respondent’s household at the time of the survey as reported by the respondent. It may be that ‘anyhhmember’ is ‘Yes’, but ‘hhmembernumber’ is missing if the respondent did not provide the number of household members at the time of the survey.

• **hhmemberin_#**: indicates whether a household member is currently in the household as reported by the respondent. Household members are never removed from the stored household roster and their information is always included in survey data sets. The order of the roster is the same order in which household members were specified by the respondent in the ‘MyHousehold’ survey. The order is identified by the suffix _# (e.g., _1 indicates the first household member, _2 the second household member, etc.).

As an example, if the first household member is in the household at the time of the survey, ‘hhmemberin_1’ is set to ‘1 HH Member 1 is in the HH’; if he/she has moved out, ‘hhmemberin_1’ is set to ‘0 HH member 1 is no longer in the HH’. Since information of other household members (stored in the variables listed below) is always included in survey data sets, information about ‘hhmemberin_1’ is available whether this person is still in the household or has moved out.

• **hhmembergen_#**: indicates the gender of another household member as reported by the respondent.

• **hhmemberage_#**: indicates the age of another household member. The age is derived from the month and year of birth of the household member as reported by the respondent.

• **hhmemberrel_#**: indicates the relationship of the respondent to the other household member as reported by the respondent.
- **hhmemberuasid**: is the ‘uasid’ of the other household member if this person is also a UAS panel member. It is set to missing (.) if this person is not a UAS panel member at the time of the survey. Since this identifier is directly reported by the respondent (chosen from a preloaded list), it may differ from the actual (correct) ‘uasid’ of the UAS member it refers to because of reporting error. Also, this variable should not be used to identify UAS members in a given household at the time of the survey. This is because the variables ‘hhmemberuasid’ are taken from the most recent ‘My Household’ and changes in household composition involving UAS members may have occurred between the time of the respondent answered ‘My Household’ and the time the respondent answers the survey. To follow UAS members of a given household, it is advised to use the identifiers ‘uashhid’ and ‘survhhid’.

- **lastmyhh_date**: the date on which the demographics variables were collected through the ‘My Household’ survey.
5 MISSING DATA CONVENTIONS

Data files provide so-called clean data, that is, answers given to questions that are not applicable anymore at survey completion (for example because a respondent went back in the survey and skipped over a previously answered question) are treated as if the questions were never asked. In the data files all questions that were asked, but not answered by the respondent are marked with (.e). All questions never seen by the respondent (or any dirty data) are marked with (.a). The latter may mean that a respondent did not view the question because s/he skipped over it; or alternatively that s/he never reached that question due to a break off. If a respondent did not complete a survey, the variables representing survey end date and time are marked with (.c). Household member variables are marked with (.m) if the respondent has less household members (e.g. if the number of household members is 2, any variables for household member 3 and up are marked with (.m).

UAS provides data in STATA and CSV format. Stata data sets come with include variable labels that are not available in the CSV files. Value labels are provided for single-response answer option. In STATA these labels will include the labels ‘Not asked’ and ‘Not answered’ for (.a) and (.e), and will show in tabulations such as ‘tab q1, missing’. For multiple-response questions a binary variable is created for each answer option indicating whether the option was selected or not. A summary variable is also provided in string format reflecting which options were selected and in which order. For example, if a question asked about favorite animals with options cat, dog, and horse, then if a respondent selected horse and then cat, the binary variables for horse and cat will be set to yes, while the overall variable would have a string value of ‘3-1’. If no answer was given, all binary variables and the summary variable will be marked with ‘.e’.

Questions that are asked multiple times are often implemented as so-called array questions. Supposing the name of such question was Q1 and it was asked in 6 different instances, your data set would contain the variables Q1.1 to Q1.6. To illustrate, if a survey asked the names of all children, then child.1 would contain the name of the first child the respondent named and so on.

More information about the UAS data in general can be found on the UAS Data Pages web site.
6 ROUTING SYNTAX

The survey with routing presented in the next section includes all of the questions that make up this survey, the question answers when choices were provided, and the question routing. The routing includes descriptions of when questions are grouped, conditional logic that determines when questions are presented to the respondent, randomization of questions and answers, and fills of answers from one question to another.

If you are unfamiliar with conditional logic statements, they are typically formatted so that if the respondent fulfills some condition (e.g., they have a cellphone or a checking account), then they are presented with some other question or the value of some variable is changed. If the respondent does not fulfill the condition (e.g., they are not a cellphone adopter or they do not have a checking account), something else happens such as skipping the next question or changing the variable to some other value. Some of the logic involved in the randomization of questions or answers being presented to the respondent is quite complex, and in these instances there is documentation to clarify the process being represented by the routing.

Because logic syntax standards vary, here is a brief introduction to our syntax standards. The syntax used in the conditional statements is as follows: ‘=’ is equal to, ‘<’ is less than, ‘>’ is greater than, and ‘!=’ is used for does not equal. When a variable is set to some number N, the statement looks like ‘variable := N’.

The formatting of the questions and routing are designed to make it easier to interpret what is occurring at any given point in the survey. Question ID is the bold text at the top of a question block, followed by the question text and the answer selections. When a question or variable has associated data, the name links to the appropriate data page, so you can easily get directly to the data. Text color is used to indicate the routing: red is conditional logic, gold is question grouping, green is looping, and orange is used to document randomization and other complex conditional logic processes. The routing is written for a computer to parse rather than a human to read, so when the routing diverges significantly from what is displayed to the respondent, a screenshot of what the respondent saw is included.

The name of the randomization variables are defined in proximity to where they are put into play, and like the question ID the names of the randomization variables can be used to link directly to the associated data page.
We would like to learn more about how people travel to and from places in Los Angeles County and how they feel about the transportation modes available to them. Thank you for your participation in this important study about where we live.

Over the last year, what modes of transportation did you use to go to places (like work, the grocery store, daycare, medical appointments, restaurants, parks, the airport, etc.) in or around Los Angeles County? Please check all that apply.

Be sure to include transportation modes that you used in combination with one another. For example, if your commute to work typically involves a 10-minute walk to the bus stop, a 20-minute bus ride, and a 10-minute electric scooter ride to your workplace, you would check options that contain "public transportation," "walk," and "electric scooter" below.

When thinking about the modes of transportation that you used for different trips, please exclude any trips that you made to transport people or goods for pay (for example, trips made as an Uber, Lyft, or taxi driver, a food or freight delivery driver, etc.).

1 Private vehicle (car, van, carpool, truck, SUV) - as driver or passenger
2 Ride-hailing service (Uber, Lyft, etc.) - as passenger
3 Taxi, limo, hired car service - as passenger
4 Public transportation (i.e. bus, light rail/subway, train, dial-a-ride, etc.) - as passenger
5 Walk, skateboard, or kick scooter
6 Bicycle or bikeshare (non-electric)
7 Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)
8 Motorcycle or moped - as driver or passenger
9 Other (shuttle, commercial vehicle, boat, etc.). Please specify:

Other modes of transportation that you used for different trips, please exclude any trips that you made to transport people or goods for pay (for example, trips made as an Uber, Lyft, or taxi driver, a food or freight delivery driver, etc.).

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

Other (shuttle, commercial vehicle, boat, etc.). Please specify:
You selected public transportation as a transportation mode that you used in the last year to go to places in or around Los Angeles. What specific forms of public transportation did you use? Please check all that apply.

1 Bus
2 Metro light rail/subway (Metro Red, Green, Gold, Purple, A (Blue), and E (Expo) Lines)
3 Metrolink train
4 Amtrak train
5 Dial-A-Ride (paratransit)
6 Other. Please specify:

STRING

END OF GROUP

END OF IF

asktransportation := 2

IF 1 IN tr001 OR 2 IN tr001 OR 3 IN tr001 OR 5 IN tr001 OR 6 IN tr001 OR 7 IN tr001 OR 8 IN tr001 THEN
    asktransportation := 1
ELSEIF 4 IN tr001 AND (1 IN tr002 OR 2 IN tr002 OR 3 IN tr002 OR 4 IN tr002 OR 5 IN tr002) THEN
    asktransportation := 1
END OF IF

IF asktransportation = 1 THEN

The next questions ask you to think about how often and for what purpose you used different transportation modes in a typical month this past year. If every month is different, think about the most recent month. As you answer these questions, please exclude any trips that you made to transport people or goods for pay (for example, trips made as an Uber, Lyft, or taxi driver, a food or freight delivery driver, etc.).

IF 1 IN tr001 THEN

In a typical month this past year, about how many days did you drive or ride as a passenger in a private vehicle (car, van, carpool, truck, or SUV) to go to places in or around Los Angeles County?

Please exclude any ride-hailing (Uber, Lyft, etc.) trips or trips that you made to transport people or goods for pay.
1 Every day
2 Most days per week
3 A few days per week
4 One day per week
5 Less than one day per week

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

tr004 (activities with private vehicle in section Usage)
Now, in that same typical month, what kinds of activities did you use a **private vehicle** (solely or in combination with other forms of transportation, like a bus or train) for?
**Please check all that apply.**
1 Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2 Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3 Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4 Transportation to or from the airport
5 Other. Please specify:

tr004_other (other activities private vehicle in section Usage) STRING

END OF GROUP

END OF IF

IF 2 IN tr001 THEN

tr005 (how many days as passenger in ride-hailing service (Uber, Lyft, etc.) in section Usage)
In a typical month this past year, about how many days did you use a **ride-hailing service (Uber, Lyft, etc.)**, as a passenger, to go to places in or around Los Angeles County?
1 Every day
2 Most days per week
3 A few days per week
4 One day per week
5 Less than one day per week

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

tr006 (activities with ride-hailing service in section Usage)
Now, in that same typical month, what kinds of activities did you use a **ride-hailing service** (solely or in combination with other forms of transportation, like a bus or train) for? **Please check all that apply.**
1 Job or school related activities (e.g. attending a class, commuting to an office,
1 Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2 Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3 Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4 Transportation to or from the airport
5 Other. Please specify:
In a typical month this past year, about how many days did you ride a public bus to go to places in or around Los Angeles County?
1. Every day
2. Most days per week
3. A few days per week
4. One day per week
5. Less than one day per week

Now, in that same typical month, what kinds of activities did you use a public bus (solely or in combination with other forms of transportation, like a train or walking) for? Please check all that apply.
1. Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2. Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3. Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4. Transportation to or from the airport
5. Other. Please specify:

During that typical month, how did you get to and from the bus stop(s) that you used? Please check all that apply.

If you typically transferred to or from another bus line or another mode of public transportation (like the Metro), be sure to include how you got from one stop or station to another. For example, some people transfer from the bus to the Metro by walking or bicycling from their bus stop to a Metro station.
1. Walking
2. Skateboard or kick scooter
3. Bicycle or bikeshare (non-electric)
4. Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)
5. Motorcycle or moped
6. Ride-hailing service (Uber, Lyft, etc.)
7. Private car, carpool, van, truck, SUV - parked nearby
8 Private car, carpool, van, truck, SUV - dropped off
9 Taxi, limo, or hired car service
10 Public transportation (bus, light rail/subway, train, dial-a-ride, etc.)
11 Other. Please specify:

   tr011_other (other travel to and from bus stop in section Usage)

STRING

END OF GROUP

END OF IF

IF 2 IN tr002 THEN

   tr012 (how many days ride metro light rail in section Usage)

In a typical month this past year, about how many days did you ride the Metro light rail/subway to go to places in or around Los Angeles County?
1 Every day
2 Most days per week
3 A few days per week
4 One day per week
5 Less than one day per week

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

   tr013 (activities with metro light rail in section Usage)

Now, in that same typical month, what kinds of activities did you use the Metro light rail/subway (solely or in combination with other forms of transportation, like a bus or walking) for? Please check all that apply.
1 Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2 Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3 Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4 Transportation to or from the airport
5 Other. Please specify:

   tr013_other (other activities with metro light rail in section Usage)

STRING

END OF GROUP

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN
During that typical month, how did you travel to and from the Metro light rail/subway station(s) that you used? Please check all that apply.

If you typically transferred to or from another Metro line or another mode of public transportation (like the bus), be sure to include how you got from one stop or station to another. For example, some people transfer from the Metro to the bus by walking or bicycling from their Metro station to a bus stop.

1. Walking
2. Skateboard or kick scooter
3. Bicycle or bikeshare (non-electric)
4. Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)
5. Motorcycle or moped
6. Ride-hailing service (Uber, Lyft, etc.)
7. Private car, carpool, van, truck, SUV - parked nearby
8. Private car, carpool, van, truck, SUV - dropped off
9. Taxi, limo, or hired car service
10. Public transportation (bus, light rail/subway, train, dial-a-ride, etc.)
11. Other. Please specify:

Other travel to and from metro light rail in section Usage

IF 3 IN tr002 THEN

In a typical month this past year, about how many days did you ride a Metrolink train to go to places in or around Los Angeles County?

1. Every day
2. Most days per week
3. A few days per week
4. One day per week
5. Less than one day per week

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

Now, in that same typical month, what kinds of activities did you use a Metrolink train (solely or in combination with other forms of transportation, like a bus or walking) for? Please check all that apply.

1. Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2. Personal or caretaking activities (e.g. grocery shopping, errands, medical care,
taking child to school, taking a relative to an appointment
3 Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4 Transportation to or from the airport
5 Other. Please specify:

**tr016_other** (other activities with metrolink in section Usage)
STRING

END OF GROUP

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

**tr017** (travel to and from metrolink in section Usage)
During that typical month, how did you travel to and from the Metrolink train station(s) that you used? **Please check all that apply.**

If you typically transferred to or from another Metrolink line or another mode of public transportation (like the bus), be sure to include how you got from one stop or station to another. For example, some people transfer from the Metrolink train to the bus by walking or bicycling from their Metrolink station to a bus stop.
1 Walking
2 Skateboard or kick scooter
3 Bicycle or bikeshare (non-electric)
4 Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)
5 Motorcycle or moped
6 Ride-hailing service (Uber, Lyft, etc.)
7 Private car, carpool, van, truck, SUV - parked nearby
8 Private car, carpool, van, truck, SUV - dropped off
9 Taxi, limo, or hired car service
10 Public transportation (bus, light rail/subway, train, dial-a-ride, etc.)
11 Other. Please specify:

**tr017_other** (other travel to and from metrolink in section Usage)
STRING

END OF GROUP

END OF IF

IF 4 IN tr002 THEN

**tr018** (how many days ride amtrak in section Usage)
In a typical month this past year, about how many days did you ride an Amtrak train to go to places in or around Los Angeles County?
1 Every day
2 Most days per week
3 A few days per week
GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

Now, in that same typical month, what kinds of activities did you use an Amtrak train (solely or in combination with forms of transportation, like a bus or walking) for? Please check all that apply.

1. Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2. Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3. Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4. Transportation to or from the airport
5. Other. Please specify:

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

During that typical month, how did you travel to and from the Amtrak train station(s) that you used? Please check all that apply.

If you typically transferred to or from another Amtrak line or another mode of public transportation (like the bus), be sure to include how you got from one stop or station to another. For example, some people transfer from the Amtrak train to the bus by walking or bicycling from their Amtrak station to a bus stop.

1. Walking
2. Skateboard or kick scooter
3. Bicycle or bikeshare (non-electric)
4. Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)
5. Motorcycle or moped
6. Ride-hailing service (Uber, Lyft, etc.)
7. Private car, carpool, van, truck, SUV - parked nearby
8. Private car, carpool, van, truck, SUV - dropped off
9. Taxi, limo, or hired car service
10. Public transportation (bus, light rail/subway, train, dial-a-ride, etc.)
11. Other. Please specify:
IF 5 IN tr002 THEN

In a typical month this past year, about how many days did you use a **Dial-A-Ride (paratransit) service** to go to places in or around Los Angeles County?

1. Every day
2. Most days per week
3. A few days per week
4. One day per week
5. Less than one day per week

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

Now, in that same typical month, what kinds of activities did you use a **Dial-A-Ride (paratransit) service** (solely or in combination with other forms of transportation, like a bus or train) for? **Please check all that apply.**

1. Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2. Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3. Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4. Transportation to or from the airport
5. Other. Please specify:

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

IF 5 IN tr001 THEN

In a typical month this past year, about how many days did you **walk, skateboard, or use a kick scooter** (solely or in combination with other forms of transportation, like a bus or train) to go to places in or around Los Angeles County?

1. Every day
2. Most days per week
3. A few days per week
4. One day per week
GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

Now, in that same typical month, what kinds of activities did you \textbf{walk, skateboard, or use a kick scooter} (solely or in combination with other forms of transportation, like a bus or train) for? \textbf{Please check all that apply.}

1. Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2. Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3. Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4. Transportation to or from the airport
5. Other. Please specify:

\textbf{other}\hspace{1cm} (other activities with walk, skateboard, or use a kick scooter in section Usage)

END OF GROUP

END OF IF

\textbf{tr025}\hspace{1cm} (how many days (non-electric) bicycle or bikeshare in section Usage)

In a typical month this past year, about how many days did you use a \textbf{(non-electric) bicycle or bikeshare} to go to places in or around Los Angeles County?

1. Every day
2. Most days per week
3. A few days per week
4. One day per week
5. Less than one day per week

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

Now, in that same typical month, what kinds of activities did you use a \textbf{(non-electric) bicycle or bikeshare} (solely or in combination with other forms of transportation, like a bus or train) for? \textbf{Please check all that apply.}

1. Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2. Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3. Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4. Transportation to or from the airport
5 Other. Please specify:

   (other activities with (non-electric) bicycle or bikeshare in section Usage)
   STRING

END OF GROUP
END OF IF

IF 7 IN tr001 THEN

   (how many days electric scooter, electric bike, or electric skateboard in section Usage)

In a typical month this past year, about how many days did you use an electric scooter, electric bike, or electric skateboard to go to places in or around Los Angeles County?
1 Every day
2 Most days per week
3 A few days per week
4 One day per week
5 Less than one day per week

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

   (activities with electric scooter, electric bike, or electric skateboard in section Usage)

Now, in that same typical month, what kinds of activities did you use an electric scooter, electric bike, or electric skateboard (solely or in combination with other forms of transportation, like a bus or train) for? Please check all that apply.
1 Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2 Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3 Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4 Transportation to or from the airport
5 Other. Please specify:

   (other activities with electric scooter, electric bike, or electric skateboard in section Usage)
   STRING

END OF GROUP
END OF IF

IF 8 IN tr001 THEN
In a typical month this past year, about how many days did you use a **motorcycle or moped** to go to places in or around Los Angeles County?

1. Every day
2. Most days per week
3. A few days per week
4. One day per week
5. Less than one day per week

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

Now, in that same typical month, what kinds of activities did you use a **motorcycle or moped** (solely or in combination with other forms of transportation, like a bus or train) for? **Please check all that apply.**

1. Job or school related activities (e.g. attending a class, commuting to an office, worksite, or work-related meeting)
2. Personal or caretaking activities (e.g. grocery shopping, errands, medical care, taking child to school, taking a relative to an appointment)
3. Social or leisure activities (e.g. visiting family, seeing a movie, going out to dinner)
4. Transportation to or from the airport
5. Other. Please specify:

**STRING**

END OF GROUP

END OF IF

End of section **Usage**

Start of section **Feedback**

We are interested in understanding how people feel and think about transportation in Los Angeles County.

Overall, how do you feel about the public transportation system in Los Angeles County? Please use the textbox below to respond.

**STRING**

Overall, how do you feel about having or using a car in Los Angeles County? Please use
If you had to guess, about how many people in your social circle in Los Angeles County, including close friends, family, and/or colleagues, use public transportation (bus, train, subway, light rail, local shuttles) with some regularity (at least once a week)?
1 All of them
2 Most of them
3 Half of them
4 A few of them
5 None of them
6 Don’t know / Not applicable

Please rate the following aspect of driving a private vehicle (car, van, truck, SUV) in Los Angeles County. We are interested in how you feel about driving a private vehicle regardless of whether or not you do it regularly:

How **safe** are you from harassment or crime in a private vehicle?
1 Very unsafe
2 Unsafe
3 Somewhat unsafe
4 Neither unsafe nor safe
5 Somewhat safe
6 Safe
7 Very safe

Please rate the following aspect of driving a private vehicle (car, van, truck, SUV) in Los Angeles County. We are interested in how you feel about driving a private vehicle regardless of whether or not you do it regularly:

How **convenient** - in terms of speed, ease of getting to where you are going, and parking - is it to use a private vehicle for work or school related trips?
1 Very inconvenient
2 Inconvenient
3 Somewhat inconvenient
4 Neither inconvenient nor convenient
5 Somewhat convenient
6 Convenient
7 Very convenient

Please rate the following aspect of driving a private vehicle (car, van, truck, SUV) in Los Angeles County. We are interested in how you feel about driving a private vehicle regardless of whether or not you do it regularly:

How **convenient** personal or leisure trips?
Angeles County. We are interested in how you feel about driving a private vehicle regardless of whether or not you do it regularly:

How **convenient** - in terms of speed, ease of getting to where you are going, and parking - is it to use a private vehicle for **personal or leisure trips**?
1. Very inconvenient
2. Inconvenient
3. Somewhat inconvenient
4. Neither inconvenient nor convenient
5. Somewhat convenient
6. Convenient
7. Very convenient

Please rate the following aspect of driving a **private vehicle (car, van, truck, SUV)** in Los Angeles County. We are interested in how you feel about driving a private vehicle regardless of whether or not you do it regularly:

How **expensive** is it to use a private vehicle?
1. Very expensive
2. Expensive
3. Somewhat expensive
4. Neither expensive nor inexpensive
5. Somewhat inexpensive
6. Inexpensive
7. Very inexpensive

Please rate the following aspect of driving a **private vehicle (car, van, truck, SUV)** in Los Angeles County. We are interested in how you feel about driving a private vehicle regardless of whether or not you do it regularly:

How **enjoyable** is it to use a private vehicle?
1. Very unenjoyable
2. Unenjoyable
3. Somewhat unenjoyable
4. Neither unenjoyable nor enjoyable
5. Somewhat enjoyable
6. Enjoyable
7. Very enjoyable

Please rate the following aspect of riding a **public bus** in Los Angeles County. We are interested in how you feel about riding a public bus regardless of whether or not you do it regularly:
How **safe** are you from harassment or crime while riding or waiting for the bus?
1 Very unsafe
2 Unsafe
3 Somewhat unsafe
4 Neither unsafe nor safe
5 Somewhat safe
6 Safe
7 Very safe

[tr040] (how convenient work or school trips public bus in section Feedback)
Please rate the following aspect of riding a **public bus** in Los Angeles County. We are interested in how you feel about riding a public bus regardless of whether or not you do it regularly:

How **convenient** - in terms of speed, ease of getting to where you are going, and parking - is it to use the bus for **work or school related trips**?
1 Very inconvenient
2 Inconvenient
3 Somewhat inconvenient
4 Neither inconvenient nor convenient
5 Somewhat convenient
6 Convenient
7 Very convenient

[tr041] (how convenient personal or leisure trips public bus in section Feedback)
Please rate the following aspect of riding a **public bus** in Los Angeles County. We are interested in how you feel about riding a public bus regardless of whether or not you do it regularly:

How **convenient** - in terms of speed, ease of getting to where you are going, and parking - is it to use the bus for **personal or leisure trips**?
1 Very inconvenient
2 Inconvenient
3 Somewhat inconvenient
4 Neither inconvenient nor convenient
5 Somewhat convenient
6 Convenient
7 Very convenient

[tr042] (how expensive public bus in section Feedback)
Please rate the following aspect of riding a **public bus** in Los Angeles County. We are interested in how you feel about riding a public bus regardless of whether or not you do it regularly:
How **expensive** is it to use the bus?
1 Very expensive
2 Expensive
3 Somewhat expensive
4 Neither expensive nor inexpensive
5 Somewhat inexpensive
6 Inexpensive
7 Very inexpensive

**tr043** (how enjoyable public bus in section Feedback)
Please rate the following aspect of riding a public bus in Los Angeles County. We are interested in how you feel about riding a public bus regardless of whether or not you do it regularly:

How **enjoyable** is it to use the bus?
1 Very unenjoyable
2 Unenjoyable
3 Somewhat unenjoyable
4 Neither unenjoyable nor enjoyable
5 Somewhat enjoyable
6 Enjoyable
7 Very enjoyable

**tr044** (how safe Metro light rail/subway in section Feedback)
Please rate the following aspect of riding the **Metro light rail/subway** in Los Angeles County. We are interested in how you feel about riding the Metro regardless of whether or not you do it regularly:

How **safe** are you from harassment or crime while riding or waiting for the Metro?
1 Very unsafe
2 Unsafe
3 Somewhat unsafe
4 Neither unsafe nor safe
5 Somewhat safe
6 Safe
7 Very safe

**tr045** (how convenient work or school trips Metro light rail/subway in section Feedback)
Please rate the following aspect of riding the **Metro light rail/subway** in Los Angeles County. We are interested in how you feel about riding the Metro regardless of whether or not you do it regularly:

How **convenient** - in terms of speed, ease of getting to where you are going, and parking - is it to use the Metro for **work or school related trips**?
1 Very inconvenient
2 Inconvenient
3 Somewhat inconvenient
4 Neither inconvenient nor convenient
5 Somewhat convenient
6 Convenient
7 Very convenient

tr046 (how convenient personal or leisure trips Metro light rail/subway in section Feedback)
Please rate the following aspect of riding the Metro light rail/subway in Los Angeles County. We are interested in how you feel about riding the Metro regardless of whether or not you do it regularly:

How convenient - in terms of speed, ease of getting to where you are going, and parking - is it to use the Metro for personal or leisure trips?
1 Very inconvenient
2 Inconvenient
3 Somewhat inconvenient
4 Neither inconvenient nor convenient
5 Somewhat convenient
6 Convenient
7 Very convenient

tr047 (how expensive Metro light rail/subway in section Feedback)
Please rate the following aspect of riding the Metro light rail/subway in Los Angeles County. We are interested in how you feel about riding the Metro regardless of whether or not you do it regularly:

How expensive is it to use the Metro?
1 Very expensive
2 Expensive
3 Somewhat expensive
4 Neither expensive nor inexpensive
5 Somewhat inexpensive
6 Inexpensive
7 Very inexpensive

tr048 (how enjoyable Metro light rail/subway in section Feedback)
Please rate the following aspect of riding the Metro light rail/subway in Los Angeles County. We are interested in how you feel about riding the Metro regardless of whether or not you do it regularly:

How enjoyable is it to use the Metro?
1 Very unenjoyable
2 Unenjoyable
3 Somewhat unenjoyable
4 Neither unenjoyable nor enjoyable
5 Somewhat enjoyable
6 Enjoyable
7 Very enjoyable

Please rate the following aspect of using a ride-hailing service (Uber, Lyft, etc.) in Los Angeles County. We are interested in how you feel about using a ride-hailing service regardless of whether or not you do it regularly:

How **safe** are you from harassment or crime in a ride-hailing vehicle?
1 Very unsafe
2 Unsafe
3 Somewhat unsafe
4 Neither unsafe nor safe
5 Somewhat safe
6 Safe
7 Very safe

Please rate the following aspect of using a ride-hailing service (Uber, Lyft, etc.) in Los Angeles County. We are interested in how you feel about using a ride-hailing service regardless of whether or not you do it regularly:

How **convenient** in terms of speed, ease of getting to where you are going, and parking - is it to use a ride-hailing service for **work or school related trips**?
1 Very inconvenient
2 Inconvenient
3 Somewhat inconvenient
4 Neither inconvenient nor convenient
5 Somewhat convenient
6 Convenient
7 Very convenient

Please rate the following aspect of using a ride-hailing service (Uber, Lyft, etc.) in Los Angeles County. We are interested in how you feel about using a ride-hailing service regardless of whether or not you do it regularly:

How **convenient** in terms of speed, ease of getting to where you are going, and parking - is it to use a ride-hailing service for **personal or leisure trips**?
1 Very inconvenient
2 Inconvenient
3 Somewhat inconvenient
4 Neither inconvenient nor convenient
5 Somewhat convenient
6 Convenient
7 Very convenient

Please rate the following aspect of using a ride-hailing service (Uber, Lyft, etc.) in Los Angeles County. We are interested in how you feel about using a ride-hailing service regardless of whether or not you do it regularly:

How expensive is it to use a ride-hailing service?
1 Very expensive
2 Expensive
3 Somewhat expensive
4 Neither expensive nor inexpensive
5 Somewhat inexpensive
6 Inexpensive
7 Very inexpensive

Please rate the following aspect of using a ride-hailing service (Uber, Lyft, etc.) in Los Angeles County. We are interested in how you feel about using a ride-hailing service regardless of whether or not you do it regularly:

How enjoyable is it to use a ride-hailing service?
1 Very unenjoyable
2 Unenjoyable
3 Somewhat unenjoyable
4 Neither unenjoyable nor enjoyable
5 Somewhat enjoyable
6 Enjoyable
7 Very enjoyable

End of section Feedback

Start of section Availability

About how far from home is the nearest useful bus stop? By “useful,” we mean that the bus stop is for a bus line that goes to places you need or want to go.
1 5 minute walk (about 1/4 of a mile)
2 10-15 minute walk (about a half mile to less than a mile)
3 20-30 minute walk (about a mile to two miles)
4 Greater than 30 minute walk (more than 2 miles)
5 I don’t know how far the nearest useful bus stop is

(tr055) (how far home from nearest useful metro station in section Availability)
About how far from your home is the nearest useful Metro light rail/subway station? By “useful,” we mean that the Metro station is for a Metro line that goes to places you need or want to go.
1 5 minute walk (about 1/4 of a mile)
2 10-15 minute walk (about a half mile to less than a mile)
3 20-30 minute walk (about a mile to two miles)
4 Greater than 30 minute walk (more than 2 miles)
5 I don’t know how far the nearest useful Metro station is

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

(tr056_intro) (Section Availability)
To the best of your knowledge, which of the following businesses/services are within about a 15-minute walk of your residence? Please check all that apply.

SUBGROUP OF QUESTIONS

(tr056a) (convenience store in section Availability)
Convenience store
1 Yes
2 No
3 I don’t know

(tr056b) (child care center in section Availability)
Child care center
1 Yes
2 No
3 I don’t know

(tr056c) (senior center in section Availability)
Senior center
1 Yes
2 No
3 I don’t know

(tr056d) (drug store (CVS, RiteAid, etc.) in section Availability)
Drug store (CVS, RiteAid, etc.)
1 Yes
2 No
3 I don’t know
To the best of your knowledge, which of the following businesses/services are within about a 15-minute walk of your residence? Please check all that apply.

SUBGROUP OF QUESTIONS

Medical care (hospital, urgent care, dentist, etc.)
1 Yes
2 No
3 I don’t know

Grocery store
1 Yes
2 No
3 I don’t know

Boutique clothing store
1 Yes
2 No
3 I don’t know

Restaurants and cafes
1 Yes
2 No
3 I don’t know

Gym
1 Yes
2 No
3 I don’t know

Arts/entertainment venue (movie theater, live music venue, etc.)
Arts/entertainment venue (movie theater, live music venue, etc.)
1 Yes
2 No
3 I don’t know

(department store (Macy’s, Nordstrom, Marshall’s, etc.) in section Availability)
Department store (Macy’s, Nordstrom, Marshall’s, etc.)
1 Yes
2 No
3 I don’t know

(big box store (Walmart, Target, etc.) in section Availability)
Big box store (Walmart, Target, etc.)
1 Yes
2 No
3 I don’t know

END OF SUBGROUP

END OF GROUP

(difficulty finding scooters for rent in section Availability)
How difficult or easy is it for people to find scooters for rent in your neighborhood?
1 Difficult
2 Somewhat difficult
3 Neither difficult nor easy
4 Somewhat easy
5 Easy
6 Don’t know

(increase or decrease number of scooters in section Availability)
Would you like to see the number of scooters for rent in your neighborhood decrease, remain the same, or increase?
1 Decrease
2 Remain the same
3 Increase
4 No opinion/Don’t know

(difficulty finding bicycles for rent in section Availability)
How difficult or easy is it for people to find bicycles for rent in your neighborhood?
1 Difficult
2 Somewhat difficult
3 Neither difficult nor easy
4 Somewhat easy
5 Easy
6 Don't know

**tr058b**: (increase or decrease number of bicycles in section Availability)

Would you like to see the number of **bicycles** for rent in your neighborhood decrease, remain the same, or increase?

1 Decrease
2 Remain the same
3 Increase
4 No opinion/Don't know

/* The answer options in question tr059 are presented in random order per variables tr059.order with values:
- 1 Lack of safety on the bus
- 2 Lack of safety while getting to or waiting for the
- 3 Collisions or accidents
- 4 No bus stops close to where I live or spend time
- 5 Transit time is too long
- 6 Service is not frequent enough
- 7 Service is not reliable enough
- 8 Too many transfers necessary
- 9 Cost is too high
- 10 Not enjoyable to ride
- 11 Lack of cleanliness
- 12 Difficulty understanding the bus system
- 13 Bus is too crowded
- 14 Uncomfortable with behavior of other bus riders
- 15 Physically unable to use the bus
- 16 Other */

IF sizeof(tr059.order) = 0 THEN
  tr059.order := shuffleArray(array(1 → 1, 2 → 2, 3 → 3, 4 → 4, 5 → 5, 6 → 6, 7 → 7, 8 → 8, 9 → 9, 10 → 10, 11 → 11, 12 → 12, 13 → 13, 14 → 14, 15 → 15))
  tr059.order(16) := 16
What are your biggest concerns or issues with using the bus system in Los Angeles County? You may check up to five.

1. Lack of safety on the bus
2. Lack of safety while getting to or waiting for the bus
3. Collisions or accidents
4. No bus stops close to where I live or spend time
5. Transit time is too long
6. Service is not frequent enough
7. Service is not reliable enough
8. Too many transfers necessary
9. Cost is too high
10. Not enjoyable to ride
11. Lack of cleanliness
12. Difficulty understanding the bus system
13. Bus is too crowded
14. Uncomfortable with behavior of other bus riders
15. Physically unable to use the bus
16. Other. Please specify:

END OF GROUP

/* The answer options in question tr060 are presented in random order per variables tr060_order with values:

- 1 Lack of safety on the bus
- 2 Lack of safety while getting to or waiting for the
- 3 Collisions or accidents
- 4 No bus stops close to where I live or spend time
- 5 Transit time is too long
- 6 Service is not frequent enough
- 7 Service is not reliable enough
- 8 Too many transfers necessary
- 9 Cost is too high
*/
The order in question tr060 is the same as in question tr059. */ IF sizeof(tr060_order) = 0 THEN tr060_order := tr059_order END OF IF

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

What are your biggest concerns or issues with using the Metro light rail/subway in Los Angeles County? You may check up to five.
1 Lack of safety on the Metro
2 Lack of safety while getting to or waiting for the Metro
3 Collisions or accidents
4 No Metro stops close to where I live or spend time
5 Transit time is too long
6 Service is not frequent enough
7 Service is not reliable enough
8 Too many transfers necessary
9 Cost is too high
10 Not enjoyable to ride
11 Lack of cleanliness
12 Difficulty understanding the Metro system
13 Metro is too crowded
14 Uncomfortable with behavior of other Metro riders
15 Physically unable to use the Metro
16 Other. Please specify:

STRING

END OF GROUP

End of section Availability
GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

**Cost**

On average, how much money does your household typically spend on the following transportation costs per month?

**SUBGROUP OF QUESTIONS**

**tr060a** (Car/auto payment(s) (loan or lease) in section Cost)
Car/auto payment(s) (loan or lease)
0 $0
1 $1 - $50
2 $51 - $100
3 $101 - $300
4 $301 - $500
5 $501 - $700
6 $701 - $1000
7 $1001 - $1500
8 $1501 - $2000
9 $2501 - $3000
10 $3001+

**tr060b** (Car/auto insurance in section Cost)
Car/auto insurance
0 $0
1 $1 - $50
2 $51 - $100
3 $101 - $300
4 $301 - $500
5 $501 - $700
6 $701 - $1000
7 $1001 - $1500
8 $1501 - $2000
9 $2501 - $3000
10 $3001+

**tr060c** (gas in section Cost)
Gas
0 $0
1 $1 - $50
2 $51 - $100
3 $101 - $300
4 $301 - $500
5 $501 - $700
6 $701 - $1000
7 $1001 - $1500
8 $1501 - $2000
9 $2501 - $3000
10 $3001+

Parking (parking in section Cost)
0 $0
1 $1 - $50
2 $51 - $100
3 $101 - $300
4 $301 - $500
5 $501 - $700
6 $701 - $1000
7 $1001 - $1500
8 $1501 - $2000
9 $2501 - $3000
10 $3001+

Public transit (tickets for bus, light rail/subway, train, etc.) (Public transit (tickets for bus, light rail/subway, train, etc.) in section Cost)
0 $0
1 $1 - $50
2 $51 - $100
3 $101 - $300
4 $301 - $500
5 $501 - $700
6 $701 - $1000
7 $1001 - $1500
8 $1501 - $2000
9 $2501 - $3000
10 $3001+

END OF SUBGROUP

END OF GROUP

Private vehicles (cars, vans, trucks, or SUVs) (how many private vehicles own or lease in section Cost)

How many private vehicles (cars, vans, trucks, or SUVs) in working condition does your household currently own or lease?

0 0
1 1
IF \text{tr061} = \text{RESPONSE} \text{ AND tr061} = 0 \text{ THEN}

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

\textbf{tr062} (why not own or lease private vehicle in section Cost)

Why doesn’t your household currently own or lease a car, van, truck, or SUV in working condition? \textbf{Please check all that apply}.

1. Too expensive
2. Vehicle(s) need(s) repairs
3. Don’t have a valid driver’s license
4. Prefer to use other modes of transportation
5. Lack of available parking
6. Ethical/environmental concerns
7. Other. Please specify:

\textbf{tr062\_other} (other why not own or lease private vehicle in section Cost)

STRING

END OF GROUP

END OF IF

\textbf{tr063} (use vehicle in last year in section Cost)

In the last year, did you use a household vehicle (car, van, truck, SUV) to transport people or goods for pay? Examples include driving a household vehicle for Uber or Lyft or driving a household vehicle to make deliveries for companies like Instacart or Postmates.

1. Yes
2. No

\textbf{tr064} (how likely buy vehicle in section Cost)

How likely is it that your household will purchase or lease a new or used car, van, truck, or SUV in the next twelve months?

1. Very unlikely
2. Unlikely
3. Somewhat unlikely
4. Neither likely nor unlikely
5 Somewhat likely
6 Likely
7 Very likely

End of section [Cost]

Start of section [Experience]

tr065 (how difficult find street parking in section Experience)
Please rate how difficult or easy it usually is to find street parking in your neighborhood:
1 Difficult
2 Somewhat difficult
3 Neither difficult nor easy
4 Somewhat easy
5 Easy
6 I don’t know/ not applicable

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

tr066_intro (how many free off street parking with current residence in section Experience)
At your primary residence, how many parking spaces, if any, are included as part of your rent, lease, or mortgage? That is, you do not pay an additional fee beyond what may be included in your rent or mortgage payment.

If you have your own driveway, count the number of cars you can comfortably park in your driveway as the number of driveway parking spaces available to you.

Please select zero if you have none.

tr066_spaces (how many parking spaces with current residence in section Experience)
Number of garage, carport, lot, or driveway parking spaces included with primary residence
0 0
1 1
2 2
3 3
4 4
5 5
6 6
7 7
8 8
9 9
10 10

46
tr066 permits (how many parking permits with current residence in section Experience)
Number of on-street parking permits
0
1
2
3
4
5
6
7
8
9
10
11
11+

END OF GROUP

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

tr067 intro (Section Experience)
In the last year, have you intentionally reduced or increased your use of any of the following transportation modes to go to places in or around Los Angeles County?

SUBGROUP OF QUESTIONS

tr067a (changed walking in section Experience)
Walking
1 No / Not applicable
2 Yes, reduced use
3 Yes, increased use

tr067b (changed skateboard or kick scooter in section Experience)
Skateboard or kick scooter
1 No / Not applicable
2 Yes, reduced use
3 Yes, increased use

tr067c (changed bicycle or bikeshare (non-electric) in section Experience)
Bicycle or bikeshare (non-electric)
1 No / Not applicable
2 Yes, reduced use
In the last year, have you intentionally reduced or increased your use of any of the following transportation modes to go to places in or around Los Angeles County?

**SUBGROUP OF QUESTIONS**

- **Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)**
  - 1 No / Not applicable
  - 2 Yes, reduced use
  - 3 Yes, increased use

- **Motorcycle or moped**
  - 1 No / Not applicable
  - 2 Yes, reduced use
  - 3 Yes, increased use

- **Private car, van, carpool, truck, SUV**
  - 1 No / Not applicable
  - 2 Yes, reduced use
  - 3 Yes, increased use

**END OF SUBGROUP**

**GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN**

- **Ride-hailing service (Uber, Lyft, etc.)**
  - 1 No / Not applicable
  - 2 Yes, reduced use
  - 3 Yes, increased use

- **Taxi, limo, or hired car service**
  - 1 No / Not applicable
  - 2 Yes, reduced use
  - 3 Yes, increased use
In the last year, for each of the following types of activities in Los Angeles County, please indicate how often, if ever, you missed attending or doing the activity specifically because you did not have access to affordable transportation.

**Subgroup of Questions**

**Work or school related activities (if employed or student)**
- 1 Never
- 2 Rarely
- 3 Sometimes
- 4 Often
- 5 Very often
<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>tr068b</td>
<td>(affordable missed personal or family medical care (doctor’s appointment, urgent care, etc.) in section Experience)</td>
<td>1 Never, 2 Rarely, 3 Sometimes, 4 Often, 5 Very often, 6 Not applicable</td>
</tr>
<tr>
<td>tr068c</td>
<td>(affordable missed social or leisure activities (going to a movie, visiting friends, etc.) in section Experience)</td>
<td>1 Never, 2 Rarely, 3 Sometimes, 4 Often, 5 Very often, 6 Not applicable</td>
</tr>
<tr>
<td>tr068d</td>
<td>(affordable missed shopping trips or errands (grocery shopping, etc.) in section Experience)</td>
<td>1 Never, 2 Rarely, 3 Sometimes, 4 Often, 5 Very often, 6 Not applicable</td>
</tr>
</tbody>
</table>

END OF SUBGROUP

END OF GROUP

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>tr069Intro</td>
<td>(Section Experience)</td>
<td>In the last year, for each of the following types of activities in Los Angeles County, please indicate how often, if ever, you missed attending or doing the activity specifically because the travel times were too long (e.g. because of bad traffic or slow public transportation service).</td>
</tr>
</tbody>
</table>
SUBGROUP OF QUESTIONS

tr069a  (too long missed work or school related activities in section Experience)
Work or school related activities (if employed or student)
1 Never
2 Rarely
3 Sometimes
4 Often
5 Very often
6 Not applicable

tr069b  (too long missed personal or family medical care (doctor’s appointment, urgent care, etc.) in section Experience)
Personal or family medical care (doctor’s appointment, urgent care, etc.)
1 Never
2 Rarely
3 Sometimes
4 Often
5 Very often
6 Not applicable

tr069c  (too long missed social or leisure activities (going to a movie, visiting friends, etc.) in section Experience)
Social or leisure activities (going to a movie, visiting friends, etc.)
1 Never
2 Rarely
3 Sometimes
4 Often
5 Very often
6 Not applicable

tr069d  (too long missed shopping trips or errands (grocery shopping, etc.) in section Experience)
Shopping trips or errands (grocery shopping, etc.)
1 Never
2 Rarely
3 Sometimes
4 Often
5 Very often
6 Not applicable

END OF SUBGROUP

END OF GROUP
In the last year (since November 2018), were you ever involved in a traffic collision or transportation-related accident while you were traveling (or walking) in or around Los Angeles County?

1 Yes
2 No

If tr070 = 1 THEN

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

Which mode of transportation were you using when you were involved in a traffic collision or transportation-related accident while traveling (or walking) in or around LA County? If more than one, please check all that apply.

1 Walking
2 Skateboard or kick scooter
3 Bicycle or bikeshare (non-electric)
4 Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)
5 Motorcycle or moped
6 Private car, van, carpool, truck, SUV
7 Ride-hailing service (Uber, Lyft, etc.)
8 Taxi, limo, or hired car service
9 Metro light rail/subway
10 Public bus
11 Metrolink or Amtrak train
12 Dial-A-Ride (paratransit)
13 Other. Please specify:

END OF GROUP

END OF IF

In the last year (since November 2018), did you ever experience sexual harassment or sexual assault (for example, sexual comments or gestures, indecent exposure, unwanted touching or an attack of a sexual nature) while you were traveling (or walking) in or around Los Angeles County?

1 Yes
2 No

If tr072 = 1 THEN

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN
tr073 (modes of transportation sexual harassment or sexual assault in section Experience)
Which mode of transportation were you using when you experienced sexual harassment or sexual assault while traveling in or around LA County? If more than one, please check all that apply.
1 Walking
2 Skateboard or kick scooter
3 Bicycle or bikeshare (non-electric)
4 Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)
5 Motorcycle or moped
6 Private car, van, carpool, truck, SUV
7 Ride-hailing service (Uber, Lyft, etc.)
8 Taxi, limo, or hired car service
9 Metro light rail/subway
10 Public bus
11 Metrolink or Amtrak train
12 Dial-A-Ride (paratransit)
13 Other. Please specify:

tr073_other (other modes of transportation sexual harassment or sexual assault in section Experience)
STRING

END OF GROUP
END OF IF

tr074 (experienced non-sexual harassment or assault in section Experience)
In the last year (since November 2018), did you ever experience non-sexual harassment, assault, or robbery while you were traveling (or walking) in or around Los Angeles County?
1 Yes
2 No

IF tr074 = 1 THEN
GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

tr075 (modes of transportation non-sexual harassment or assault in section Experience)
Which mode of transportation were you using when you experienced non-sexual harassment, assault, or robbery while traveling in or around LA County? If more than one, please check all that apply.
1 Walking
2 Skateboard or kick scooter
3 Bicycle or bikeshare (non-electric)
4 Electric scooter, electric bike, or electric skateboard (Bird, Lime, etc.)
5 Motorcycle or moped
6 Private car, van, carpool, truck, SUV
7 Ride-hailing service (Uber, Lyft, etc.)
8 Taxi, limo, or hired car service
9 Metro light rail/subway
10 Public bus
11 Metrolink or Amtrak train
12 Dial-A-Ride (paratransit)
13 Other. Please specify:

end of group
end of if

end of section [Experience]
start of section [Health]

This final section includes some questions about your health and well-being as well as some other topics. This should take just a couple more minutes to complete.

Would you say that in general your health is...?
1 Excellent
2 Very good
3 Good
4 Fair
5 Poor
6 I don’t know
7 I refuse to answer

how tall are you?
1 and
2
97 I don’t know
98 I refuse to answer

**he002_feet** (how tall feet in section Health)
RANGE 1..7

**he002_inches** (how tall inches in section Health)
RANGE 0..12

**he002_cm** (how tall centimeters in section Health)
RANGE 1..220

END OF GROUP

GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN

**he003** (weight in section Health)
How much do you weigh?
1
2
97 I don’t know
98 I refuse to answer

**he003_pounds** (weight pounds in section Health)
RANGE 1..600

**he003_kg** (weight kilograms in section Health)
RANGE 1..300

END OF GROUP

**he004** (told by doctor diabetes or sugar diabetes in section Health)
Have YOU ever been told by a doctor or other health professional that YOU have diabetes or sugar diabetes (other than during pregnancy)?
1 Yes
2 No
97 I don’t know
98 I refuse to answer

**he005** (smoked at least 100 cigarettes in entire life in section Health)
Have you smoked at least 100 cigarettes in your entire life?
1 Yes
2 No
97 I don’t know
98 I refuse to answer

**(he006) (smoke now in section Health)**
Do you now smoke cigarettes?
1 Every day
2 Some days
3 Not at all
97 I don’t know
98 I refuse to answer

**(he007) (past 2 years delated or unable to pay mortgage or rent in section Health)**
During the PAST 2 YEARS, was there any month where you or your family delayed or were not able to pay your mortgage or rent?
1 Yes
2 No
97 I don’t know
98 I refuse to answer

**(he008) (how often get social and emotional support needed in section Health)**
How often do you get the social and emotional support you need?
1 Always
2 Usually
3 Sometimes
4 Rarely
5 Never
97 I don’t know
98 I refuse to answer

**GROUP OF QUESTIONS PRESENTED ON THE SAME SCREEN**

**(he009) (how many days drove car in section Health)**
In the past 30 days, on how many days did you drive a car or motor vehicle in Los Angeles County?
1 Number of days:
97 I don’t know
98 I refuse to answer

**(he009_days) (number of days drove car in section Health)**
0 0
1 1
2 2
3 3
4 4
5 5
6 6
IF he009 = 1 AND he009_days = RESPONSE AND he009_days > 0 THEN

he010 (how often read or sent text message or email while driving in section Health)
In the past 30 days, when you drove in Los Angeles County, how often have you read or
sent a text message or email while you were driving?
1 Often
2 Sometimes
3 Rarely
4 Never
5 I don’t have a cell phone
97 I don’t know
98 I refuse to answer

END OF IF

End of section Health

Start of section Closing
Could you tell us how interesting or uninteresting you found the questions in this interview?
1 Very interesting
2 Interesting
3 Neither interesting nor uninteresting
4 Uninteresting
5 Very uninteresting

Do you have any other comments on the interview? Please type these in the box below. (If you have no comments, please click next to complete this survey.)
STRING

End of section Closing

/* Please note that although question CS.003 is listed in the routing, the answers are not included in the microdata in the event identifiable information is captured. Cleaned responses are available by request. */