2018-2019 Travel Behavior Inventory Online and Call Center Questionnaire

1.0 ADMINISTRATIVE INFORMATION

Questionnaire Key:

- *[Variable names are in brackets and italics]*
- **Questions are mostly in bold**
- *Survey logic is in red italics, and sometimes preceded by 'Programmers:', indicating a note as to how the survey should be programmed.*
- Pages are defined using line breaks. All questions within each section are shown on the same page of the survey. Diary trip details are the only exception to this rule: All mode follow-up questions appear on the same trip_details page.

Study fielding schedule:

- **Entered field (letter drop)**: 1 October, 2018
- **Exits field (last day survey available)**: 30 September, 2019

Study administration:

- **Study website**: MSPtravelstudy.org
- **Study toll-free**: 1 (888) 476-6157
- **Study email inbox**: help@MSPtravelstudy.org
- **Supported survey languages**: English, Hmong, Karen, Oromo, Somali, Spanish

2.0 PART 1 RECRUIT SURVEY QUESTIONNAIRE

2.1 INTRODUCTION

[language]

In what language would you prefer to take the survey?

- I would like to take the survey in this language: English
- I would like to take the survey in this language: Hmong
- I would like to take the survey in this language: Karen
- I would like to take the survey in this language: Oromo
- I would like to take the survey in this language: Somali
- I would like to take the survey in this language: Spanish

[intro]

Thank you for your participation!

The purpose of the **Travel Behavior Inventory** is to better understand the travel patterns and travel needs of residents like you. Your participation is very important to us, and your responses will have a significant impact on future transportation planning decisions throughout the region.

This study is conducted by Resource Systems Group, Inc. 2018, for the Metropolitan Council in partnership with the Minnesota Department of Transportation and the Wisconsin Department of Transportation.

We will not disclose or share personal information we collect from you except as required by law. Please click here to view our privacy policy. If you have any questions or concerns, please email help@MSPtravelstudy.org or call toll-free: 1 (888) 476-6157. You may also visit the study website at MSPtravelstudy.org.

[hheligible]

if all-in-one only

Do all adults (age 18+) in your household have a smartphone (Android or Apple iPhone)?
Your household includes everyone who lives in your home, including roommates, relatives, friends, and household help.

- Yes
- No

[disqualified]

if should be using rMove to recruit

Your household qualifies to use the smartphone application rMove to complete the study.

As thanks for your time, your household can earn $15 per adult after all adults in your household have completed the study using rMove.
If you prefer to complete the study online, please note that households that participate online are eligible to earn $10 per household once your household completes the study.

- Complete the study using the smartphone application rMove
- Complete the study online

[rmove_download]

if opted to complete using rmove all-in-one

Please download the smartphone application rMove to complete the Travel Behavior Inventory.

Programmer: Create two invisible columns on the page
Programmer: Left column: Show rMove logo hyperlinked to http://rmove.rsginc.com/ and show smartphone image with rMove on screen below logo image
Programmer: Right column show the text below:

Get Started:
1. Download the app
2. Just go about your life. For one week, rMove will track your travel.
3. Answer questions about your travel. Your answers will help planning professionals make future transportation investments in your region.
As thanks for your time, your household will earn $15 per adult after all adults in your household have completed the study using rMove.

Programmer: Show apple store download icon hyperlinked to https://itunes.apple.com/us/app/rmove/id939678290?mt=8 and show google play store download icon hyperlinked to https://play.google.com/store/apps/details?id=com.rsginc.rmove&hl=en_US side by side
Programmer: hide 'next' button, keep 'previous' button

[instructions]

Here are some tips to help you complete the study.

How much time does it take to participate? This study has two parts. It takes 15 minutes to complete the first part of the study and determine your next steps. Households that use their smartphones to complete the second half of the study will take about 5 minutes per day for one

week to report their travel. Households that complete the study online or by phone will later take about 10 minutes to report their travel.

How do I go from question to question? After you have answered all questions on a page, use the "Next" button at the bottom of the screen to advance.
If you need to back up, click the "Previous" button. Please do not use your web browser"s"Back" button.

Can I complete this survey on a mobile device? We recommend taking the survey on a laptop/desktop computer, but the survey will also work on tablets and smartphones.

What if I need to stop taking the survey before I finish? No problem. You can always return to the website later and reenter your password to pick up from where you left off. All of your answers will automatically be saved for you.

2.2 HOUSEHOLD VEHICLES

[hhveh]

How many registered motor vehicles are in your household?

Programmer: Add household definition tooltip: "Your household includes everyone who lives in your home, including roommates, relatives, friends, and household help."

- 0 (no vehicles in household)
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8 or more vehicles

[vehicle_details]

Please tell us about the vehicles in your household.

Viewing <x> of <n> vehicle(s).

- [year]
  Year:

- [make]
  Make:

- [model]
  Model:

- [fuel]
  Fuel Type:

- [obtain]
  How did you obtain this vehicle?

- [transponder]
  Does this vehicle have a toll transponder (e.g., MnPass)?

- [parkingpass]
  Does this vehicle have a permit/pass for parking at your home?

- [home_park_cost] *if vehicle has permit for parking at home*
  How do you pay for the permit/pass to park at/near your home?

- [home_park_amount] *if home_park_cost not "Don't know"*
  How much do you pay for the permit/pass per payment period?
  Programmer: [Text entry up to $9999]

VARIABLE	VALUES (FOR DROPDOWN)
[fuel]	Gas Diesel Hybrid Electric Other
[obtain]	Bought Leased Provided by employer/institution Other
[transponder]	Yes No
[parkingpass]	Yes, vehicle has a permit/pass for parking at/near my home No permit/pass needed - typically park at home No permit/pass needed - typically park on street No permit/pass needed - typically park elsewhere
[home_park_cost]	Per Day Per Week Per Month Per Year Don't know (e.g., included in rent)

2.3 HOUSEHOLD COMPOSITION

[hhsize]

How many OTHER people live in your household?

Programmer: Add household definition tooltip: "Your household includes everyone who lives in your home, including roommates, relatives, friends, and household help."

Please include yourself, all other adults, all children, all roommates, and any household help who normally reside with you in your home.
Please do not include people who live away at school or college.

- 0 (I live alone)
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11 or more other people

[member_details_1]

Please tell us about yourself.

Household member 1 of <n> member(s).

- [name]
  Initials or nickname:
  Programmer: [Text box entry - required to be unique across the household]
- [age]
  Age:

Please tell us about the other people in your household.

Household member <i> of <n> member(s).

- [name]
  Initials or nickname:
  Programmer: [Text box entry - required to be unique across the household]

- [age]
  Age:
- [relationship]
  Relationship to you:

VARIABLE	VALUES (FOR DROPDOWNS)
[age]	Under 5 *if not person 1* 5-15 *if not person 1* 16-17 *if not person 1* 18-24 25-34 35-44 45-54 55-64 65-74 75-84 85 or older
[relationship]	Self Spouse or partner Son or daughter (or child in-law) Father or mother (or parent in-law) Brother or sister (or sibling in-law) Other relative (e.g., grandchild, cousin) Roommate or friend Household help Other

[member_details_2]

Programmer: Show all other HH members.

Please tell us more about <**yourself / Name**>.

- [gender]
  What is your gender identity?

- [employment] *if age = 16+*
  Primary type of employment?

- [jobs_count] *if employment = full/part/self/volunteer*
  Number of jobs?

- [student] *if age = 18+*
  Currently a student?

- [schooltype] *if age < 18 or age = 18+ and student = full/part*
  Type of school attends?

- [education] *if age = 18+*
  Highest level of education completed?

- [license] *if age = 16+*
  Have/Has a valid driver's license or permit?

- [vehicle] *if has license*
  Vehicle driven most often?

- [smartphone_type] *if age = 18+*
  Have/Has a smartphone?

- [disability] *if age = 18+*
  Have/Has a disability or illness that affects ability to travel in the region?

- [ethnicity]
  Race or ethnicity? Please select all that apply.
    - American Indian or Alaska Native
    - Asian
    - Black or African American
    - Hispanic, Latino, or Spanish origin
    - Middle Eastern or North African
    - Native Hawaiian or other Pacific Islander
    - White
    - Other race, ethnicity, or origin. Please Specify:
    - Prefer not to answer

VARIABLE	VALUES (FOR DROPDOWNS)
[gender]	Female Male Transgender Non-binary/third gender Other/Prefer to self-describe Prefer not to answer
[employment]	Employed full-time (paid) Employed part-time (paid) Primarily self-employed Unpaid volunteer or intern Not currently employed (e.g., retired, looking for work)
[jobs_count]	1 2 3 4 5 6 or more
[student]	Not a student Part-time student Full-time student

[schooltype]	Cared for at home *if age < 5* Daycare outside home *if age < 16* Preschool *if age < 16* Home school *if age < 25* Elementary school (public, private, charter) *if age < 16* Middle school (public, private, charter) *if age = 5-15* High school (public, private, charter) *if age = 5+* Vocational/technical school *if age = 16+* 2-year college/university *if age = 16+* 4-year college/university *if age = 16+* Graduate or professional school *if age = 16+* Other
[education]	Less than high school High school graduate/GED Some college Vocational/technical training Associate degree Bachelor's degree Graduate/post-graduate degree Prefer not to answer
[license]	Yes (license or learner's permit) No
[vehicle]	\<HH vehicle 1> *if hhveh > 0* \<HH vehicle 2> *if hhveh > 1* \<HH vehicle 3> *if hhveh > 2* \<HH vehicle 4> *if hhveh > 3* \<HH vehicle 5> *if hhveh > 4* \<HH vehicle 6> *if hhveh > 5* \<HH vehicle 7> *if hhveh > 6* \<HH vehicle 8> *if hhveh > 7* A carshare vehicle (e.g., Car2Go, ZipCar) Other vehicle None
[smartphone_type]	Yes, Android phone Yes, Apple iPhone Yes, other smartphone type No, do/does not have a smartphone
[disability]	Yes No Prefer not to answer

2.4 TYPICAL TRAVEL QUESTIONS

[typical_travel]

if age = 18+

- [share]
  Which of the following, if any, do you use? Select all that apply.
    - Use/take Uber, Lyft, or other smartphone-app ride service

- if has license Drive for Uber, Lyft, or other smartphone-app ride service
  - Carshare (e.g., HOURCAR, Car2Go, ZipCar)
  - Peer-to-peer car rental (e.g., Getaround)
  - Bikeshare (e.g., NiceRide)
  - Vanpool
  - None of the above

- [TNC_freq] *if uses TNC*
  How often do you use a smartphone-app ride service (e.g., Lyft, Uber)?

- [bike_freq]
  How often do you use a bicycle?

- [transit_freq]
  How often do you use transit?

- [transit_pay] *if ever uses transit*
  How do you typically pay for transit?

VARIABLE	VALUES (FOR DROPDOWNS)
[TNC_freq]	6-7 days a week 5 days a week 4 days a week 2-3 days a week 1 day a week 1-3 days a month Less than monthly
[bike_freq]	6-7 days a week 5 days a week 4 days a week 2-3 days a week 1 day a week 1-3 days a month Less than monthly Never
[transit_freq]	6-7 days a week 5 days a week 4 days a week 2-3 days a week 1 day a week 1-3 days a month 1-3 times a year Only when attending an event (e.g., State Fair, sporting event, concert) Never
[transit_pay]	Pay using a Go-To card (e.g., Metropass, U-Pass, College Pass, Student Pass) Pay per ride using cash, token, ticket, or credit card Ride for free (e.g., Civil Servant, Disabled Veteran)

2.5 EMPLOYMENT AND COMMUTE QUESTIONS

[commute_subsidy]

if employment = full/part/self/volunteer

Programmer: Include checkbox logic so that any subsidies that are used (second column) are also offered by the employer. If person selects 'Employer offers none of the above,' automatically check 'I use none of the above.'

Which of the following commute benefits does <**your / Name's**> **employer provide and which** <**do you / does Name**> **use? Select all that apply.**
Programmer: If has more than 1 job: Please answer for <your / Name's> primary job where <you / Name> work the most hours per work.

COMMUTE BENEFIT	EMPLOYER OFFERS	<I USE / NAME USES>
Free/discount transit fare		
Free/discount vanpool		
Cash or incentives for carpooling, walking, or biking to work		
Free/discount Uber, Lyft, or other smartphone-app ride service		
Free/discount carshare membership/use (e.g., Zip car)		
Free/discount shuttle service		
Free/discount bikeshare membership		
Free/discount bicycle tune-up/maintenance		
None of the above		

[work_details]

if employment = full/part/self/volunteer

Please tell us more about <**your / Name's**> **job.**

Programmer: If has more than 1 job: Please answer for <your / Name's> primary job where <you / Name> work the most hours per work.

- [job_type]
  Usual work location?

- [hours_work]
  How many hours typically work per week?

- [work_mode_typical] *if job_type = fixed or varied*
  How <**do you / does Name**> **typically travel to work?**

- [work_mode_seasonality] *if job_type = fixed or varied*
  Does the way <**you / Name**> **typically** <**travel / travels**> **to work vary by season?**

- [work_park] *if job_type = fixed or varied*
  When <you / name> drive to work, how <do you / does name> typically pay for parking?

- [work_park_cost] *if work_park = employer discount or personally pay*
  Payment period to park at/near work?

- [work_park_amount] *if work_park_cost not Don't know*
  How much personally pays to park at/near work? $: *Programmer: [text entry box up to $9999]*

- [telework_freq] *if job_type = fixed or varied*
  How often telecommutes?

VARIABLE	VALUES (FOR DROPDOWN)
[job_type]	Only one work location (outside of home, may also telework) Work location regularly varies (different offices/jobsites) Work at home ONLY (telework, self-employed) Drive/travel for work (driver, sales)
[hours_work]	50 or more 40-49 35-39 30-34 20-29 10-19 Fewer than 10 Hours vary greatly week to week
[work_mode_typical]	Walk, jog, or roll using a mobility device) Bicycle Drive alone *if has license* Carpool with only family/household member(s) *if hhsize > 1* Carpool with at least one person not in household Motorcycle/moped/scooter Bus (public transit) Private shuttle bus (e.g., employer) Paratransit Vanpool Taxi (e.g., Yellow Cab) Uber, Lyft, or other smartphone-app ride service Subway Light rail Intercity rail (e.g., Amtrak) Other mode
[work_mode_seasonality]	Yes No
[work_park]	Parking is always free at/near work, at park & ride, etc. Employer pays ALL parking costs Employer offers discounted parking Personally pay all or some parking costs (employer pays none) Not applicable (Never drive to work) *if work_mode_typical not Drive alone*

VARIABLE	VALUES (FOR DROPDOWN)
	Don't know
[work_park_cost]	Per Day Per Week Per Month Per Year Don't know
[telework_freq]	6-7 days a week 5 days a week 4 days a week 2-3 days a week 1 day a week 1-3 days per month Less than monthly Never

[work_address]

if job_type = fixed or varied

Please share where <**your / Name's**> **primary workplace is located.**
Programmer: Geocode page, centered on Minneapolis/St.Paul

2.6 SCHOOL QUESTIONS

[school_details]

if schooltype not cared for at home or homeschool

Most people's school schedule affects their transportation needs.
Please tell us about <**your / Name's**> **school.**

- [school_bus] *if schooltype is daycare, preschool, elementary, middle, or high school*
  Is there school bus service available for <**Name**> **?**
- [school_mode_seasonality] *if is a student and not homeschooled*
  Does the way <**you / Name**> **typically** <**travel / travels**> **to school vary by season?**

- [school_mode_typical] if is a student and not homeschooled and does not only take online classes
  How <**do you / does Name**> **typically travel to school?**

VARIABLE	VALUES (FOR DROPDOWN)
[school_bus]	Yes No Don't know
[school_mode_seasonality]	Yes No Only take online classes

[school_mode_typical]	Walk, jog, or roll using a mobility device) Bicycle School bus Drive alone *if license = 1* Carpool with only family/household member(s) *if hhsize > 1* Carpool with at least one person not in household Bus (public transit) Private shuttle bus (e.g., employer) Paratransit Vanpool Taxi (e.g., Yellow Cab) Uber, Lyft, or other smartphone-app ride service Subway Light rail Intercity rail (e.g., Amtrak) Motorcycle/moped/scooter Other

[school_address]

if schooltype not home school or cared for at home and school_mode_seasonality not online classes only

Please share where <**your / Name's**> **school is located. If** <**you travel / Name travels**> **to more than one location for school, select the location visited most frequently.**

Programmer: Geocode page, centered on Minneapolis/St.Paul

2.7 LAND USE AND HOME LOC QUESTIONS

[res_duration]
The next few questions are about your current residence (the place where we sent your invitation to this study). If you received the study invitation in a PO Box, please answer for your primary residence closest to the post office where you collect your mail.
How long have you lived at your current residence?

- Less than a year
- Between 1 and 2 years
- Between 2 and 3 years
- Between 3 and 5 years
- Between 5 and 10 years
- Between 10 and 20 years
- More than 20 years

[res_months]

How many months of the year do you live at your current residence?

- 12 months (all year long)
- 10-11 months
- 7-9 months
- 4-6 months
- Up to 3 months of the year
- Prefer not to answer

[res_type]

What type of place is your current residence?

- Single-family house (detached house)
- Townhouse (single-family attached)
- Building with 2-4 units (duplexes, triplexes, quads)
- Building with 5 or more apartments or condos
- Senior or age-restricted apts/condos
- Dorm, group quarters, or institutional facility
- Manufactured home/mobile home/trailer
- Other (e.g., boat, RV, van)

[rent_own]

Do you own or rent?

- Own (includes paying a mortgage)
- Rent
- Housing provided by job or military
- Other
- Prefer not to answer

[rent_cost]

if rent_own = rent

What is the monthly rent for this house, apartment, or manufactured home?

- $0-$499
- $500-$749
- $750-$999
- $1,000-$1,249
- $1,250-$1,499
- $1,500-$1,749
- $1,750-$1,999
- $2,000-$2,499

- $2,500-$2,999
- $3,000-$3,999
- $4,000 or more
- Prefer not to answer

[reported_haddress]

Please share where your primary home is located.
This information is used to ensure a representative sample in the survey. Please click here to view our privacy policy.

Programmer: Geocode page, centered on Minneapolis/St.Paul

[secondhome]

Which members in your household regularly spend the night at a second residence in the region (e.g., home of child's other parent, home of spouse/partner)? Select all that apply.

- <HH member 1>
- *if hhsize > 1* <HH member 2>
- *if hhsize > 2* <HH member 3>
- *if hhsize > 3* <HH member 4>
- *if hhsize > 4* <HH member 5>
- *if hhsize > 5* <HH member 6>
- *if hhsize > 6* <HH member 7>
- *if hhsize > 7* <HH member 8>
- *if hhsize > 8* <HH member 9>
- *if hhsize > 9* <HH member 10>
- *if hhsize > 10* <HH member 11>
- *if hhsize > 11* <HH member 12>
- *if hhsize > 12* <HH member 13>
- Nobody regularly spends the night at a second residence in the region
- Prefer not to answer

2.8 HOUSEHOLD INCOME

[income_detailed]

Last year, what was your household's total annual income (from all sources, before taxes/deductions from pay)?

This information is used to ensure a representative sample in the survey. Please click here to view our privacy policy.

- Under $15,000
- $15,000-$24,999
- $25,000-$34,999
- $35,000-$49,999
- $50,000-$74,999
- $75,000-$99,999
- $100,000-$149,999
- $150,000-$199,999
- $200,000-$249,999
- $250,000 or more
- Prefer not to answer

[income_broad]

if income_detailed = prefer not to answer

Would you be willing to tell us more generally about your household's income last year?
We ask this question to help understand how closely the people who participate in this study represent the region's population as a whole. It also helps regional planners understand how residents are impacted by different transportation projects, policies and costs.
Your answers will be grouped with answers from all other participating households, and your privacy will be protected within the bounds of the law. Please click here to view our privacy policy.

- Under $25,000
- $25,000-$49,999
- $50,000-$74,999
- $75,000-$99,999
- $100,000 or more
- Prefer not to answer

2.9 AV QUESTIONS

[av]

Thank you for your answers so far. The next few questions are about autonomous cars. Autonomous cars, also known as "self-driving" or "driverless" cars, use sensing and communication technologies to navigate safely and efficiently with little or no input from a driver.

[av_use]

How interested are you in using an autonomous vehicle in the future?

- Very interested
- Somewhat interested
- Neutral
- Somewhat uninterested
- Not at all interested
- I don't know

[av_own]

How interested are you in owning an autonomous vehicle in the future?

- Very interested
- Somewhat interested
- Neutral
- Somewhat uninterested
- Not at all interested
- I don't know

[av_futuretravel]

In the future when autonomous vehicles are used, how often do you think you would travel?

- Travel more than now
- Travel the same amount
- Travel less than now
- I don't know

[participate]

Is your household willing to participate in future transportation surveys (like this one)?

- Yes
- No

3.0 PART 2 TRAVEL DIARY QUESTIONNAIRE

3.1 SURVEY RESPONDENT

[proxy]

Programmer: Ask all age 18+; if under 18, assume proxy = 3 (adult answering for child)
Programmer: This is the first question for all adults. For kids with copied trips, trips_confirm is first question. For kids without copied trips, first question is loc_start. Show 'previous' button on those pages for adults (not the first question), but hide 'previous' button on those pages for kids (first question)

To better understand how households are completing the study, we would like to know if someone other than <Name> is filling out this portion of the survey.
Are you <Name> or are you filling out this survey on <Name's> behalf?

- I am <Name> and I am answering this survey
- I am answering this survey for <Name> and <Name> IS here with me to provide answers
- I am answering this survey for <Name> and <Name> IS NOT here with me to provide answers

3.2 TRIP ROSTER

[loc_start_end]

The "travel day" began at 3 a.m. on <traveldate> and ended at 3 a.m. on <traveldate>.

Where <were you / was Name> at 3 a.m. on <traveldate> (when the travel day BEGAN)?

If <you were / Name was> traveling between places (in a car, on a bus/plane, etc.), please answer with the last place <you / Name> stopped BEFORE 3AM (even if it was a short stop such as to get gas).

- Home
- Workplace located at [work address] *if employment = full/part/self and commutes to workplace*
- School located at [school address] i*f schooltype not home school or cared for at home and school_mode_seasonality not online classes only*
- Another place, please specify: *Programmer: [Text box entry]*

Where <were you / was Name> at 3 a.m. on <traveldate + 1> (when the travel day ENDED)?

If <you were / Name was> traveling between places (in a car, on a bus/plane, etc.), please answer with the last place <you / Name> stopped AFTER 3AM (even if it was a short stop such as to get gas).

- Home

- Workplace located at [work address] *if employment = full/part/self and commutes to workplace*
- School located at [school address] i*f schooltype not home school or cared for at home and school_mode_seasonality not online classes only*
- Another place, please specify: *Programmer: [Text box entry]*

[trips_yesno]

Programmer: Show if loc_start = loc_end:

<Your / Name's> day began at <loc_start> and ended at <loc_end>.
Did <you / Name> make any trips on <traveldate> , including short trips such as walks or bike rides?

- Yes
- No

Programmer: Show if loc_start <> loc_end:
Thank you for your answers so far. Now we'll ask you to provide details about the trips <you / Name> made on <traveldate>.

Please review the definition of a "trip" below, then click "Next" to continue.

[ynotrips]

if made no trips

Why didn't you go anywhere on <traveldate>? Select all that apply.

- Weather conditions (e.g., storm)
- *If employment = full/part/self/volunteer* Not scheduled to work/took day off
- *If employment = full/part/self* Worked at home for pay (e.g., telework, self-employed)
- Hung out or worked around home (unpaid)
- Kids were on school vacation/break
- Kids were home-schooled
- No available transportation (e.g., no car, no bus)
- Was sick or was caring for another person
- Waited for a visitor or delivery (e.g., plumber)
- Other reason: *if ynotrips = other* Please specify:

[loc_roster]

if made trips

Please list, in order, all the places <you / Name> went between 3 a.m. on <traveldate> and 3 a.m. on <traveldate + 1>.

Please provide a unique name or short description for each unique/different place. If you drove, got a ride, or rode a bicycle to/from a transit stop, include this stop as a place below. When all your places are listed below, click "Next" to continue.

Programmer: Show if person branches back from 'locs_confirm' to add more trips:

Please INSERT any places you want to add (remember - you can drag the places to reorder the list).

[locs_confirm]

if made trips
All the places <you / Name> reported going on <traveldate> are listed in the Travel Day table.

Do you have any trips to add to <your / Name's> travel on <traveldate> that you haven't already reported? Please select all that apply.

- Yes, went out but didn't stop anywhere (e.g., jog or bike ride, walked the dog, Sunday drive, etc.)
- Yes, made one or more short trips in the middle of other activities (e.g., quick trip for lunch)
- Yes, stopped briefly on the way to somewhere else (e.g., gas, ATM, drive-thru restaurant, etc.)
- Yes, dropped someone off on the way to somewhere else (e.g., spouse at park and ride lot, child at a friend's house, etc.)
- Yes, walked to/from a parking garage or transit stop FARTHER THAN 5 MINUTES AWAY
- Yes, forgot to include another type of trip
- No, listed all trips

Programmer: Link 'didn't stop anywhere' to loop trip graphic
Note: It is important to share all trips, including short stops. This will help us understand transportation planning needs. Some trips (like walks, bike rides or short stops on your way to somewhere else) are easy to forget.
Programmer: If respondents select any "Yes" answers, branch back to locs. The second time they see this page, the "No" box will automatically be checked, but their original answers will be saved in the DB.

3.3 GEOCODING TRIP LOCS

[locs_geo]

We'll now ask you to locate each place <you / name> went. Click a place below to begin locating it on the map. Once you've located a place, its button will turn green.

Once you have located all places in the list, click "Next" to continue.

Programmer: Locations are cycled through in sequential order from the roster; places visited more than once (with the same name) only have to be geocoded once. Locations that were geocoded in the recruit survey (home, work, school) will be shown with a prepopulated location that respondents can confirm or change.

Programmer: Geocode page, centered on Twin Cities region

[locs_confirm2]

The list below should include all the trips you / Name made on traveldate.

If you need to add or remove trips, please click "Previous" to go back and edit your locations. If all of <your / Name's> trips from <day of week>, <traveldate> are shown below, please click "Next" to continue.

Programmer: If Google returns trip distances, show the approximate distance. If Google fails to return driving distances due to flight or ferry trip, hide that column.

Programmer: Show the error message below when gdistance=0 for one or more trips. For copied trips, remember to check if distances are already converted (km to mi). Note: error message should not stop participants from proceeding. It is simply a warning.

One or more trips are less than 0.1 mile long. If this is incorrect, press "Previous" to return to your list of locations and ensure that the same location has not been listed twice in a row.

3.4 TRIP DETAILS

[trip_details]

Programmer: Show if made trips on travel day.

Please tell us about your / Name's trip from place x to place y.

- *[departure_time]*
  Time departed from place x :

- *[arrival_time]*
  Time arrived at place y :

- **Which household members traveled with** <**you/Name**> **on this trip? Select all that apply. Please include anyone that started the trip with** <**you/Name**> **and traveled to the destination.**
  - *if hhsize > 1 and pernum <> 1* : <Member 1 name>
  - *if hhsize > 1 and pernum <> 2* : <Member 2 name>
  - *if hhsize > 2 and pernum <> 3* : <Member 3 name>
  - *if hhsize > 3 and pernum <> 4* : <Member 4 name>
  - *if hhsize > 4 and pernum <> 5* : <Member 5 name>
  - *if hhsize > 5 and pernum <> 6* : <Member 6 name>
  - *if hhsize > 6 and pernum <> 7* : <Member 7 name>
  - *if hhsize > 7 and pernum <> 8* : <Member 8 name>
  - *if hhsize > 8 and pernum <> 9* : <Member 9 name>
  - *if hhsize > 9 and pernum <> 10* : <Member 10 name>
  - *if hhsize > 10 and pernum <> 11* : <Member 11 name>
  - *if hhsize > 11 and pernum <> 12* : <Member 12 name>
  - Just me (no other household members)

- *[travelers_nonhh]*
  How many other people were traveling specifically with <**you / Name**> **? Please do NOT include taxi/bus drivers or anyone** <**you / Name**> **met at the destination.**

- *[purpose]*
  Why did <**you / Name**> **stop at** <**place y**> **?**
  What <**purpose**> **was here?:** *Programmer: [Dropdown of purpose follow-ups (below)]*

- *[mode]*
  Primary way traveled on trip:
  More specifically: *Programmer: [Dropdown of mode follow-ups (below)]*

VARIABLE	VALUES (FOR DROPDOWN)
[departure_time]	*Programmer: 5 minute increments from "Before 3:00am" to "2:55 am (next day)"*
[arrival_time]	*Programmer: 5 minute increments from "3:00am" to "3:00 am or later (next day)"*
[travelers_nonhh]	Nobody (0 people) 1 person 2 people 3 people 4 people 5 or more people
[purpose]	Went home Went to work/work-related/volunteer-related *if employment < 4* Dine out/get coffee or take-out Appointment/shopping/errand Social/religious/leisure activity Exercise (e.g., gym, jog, bike, walk dog) Attend school/class Drop off,pick up, or accompany person

	Change/transfer mode (e.g., wait for bus, change planes) Other reason *[purpose_other] if purpose = other Programmer: Ask open-ended follow-up*
[purp_work] if purpose = work	Primary workplace Work-related activity (e.g., meeting, delivery, worksite) Traveling for work (e.g., going to airport) Volunteering Other work-related *[purp_work_other] if purp_work = other Programmer: Ask open-ended follow-up*
[purp_errand] if purpose = appointment/errand	Grocery shopping Get gas Other routine shopping (e.g., corner store) Shopping for major item (e.g., furniture, car) Medical visit (e.g., doctor, dentist) Errand without appointment (e.g., post office, dry cleaning) Errand with appointment (e.g., haircut, accountant) Other errand *[purp_errand_other] if purp_errand = other Programmer: Ask open-ended follow-up*
[purp_school] if purpose = school	Daycare or preschool K-12 school College/university Vocational education Other type of class (e.g., cooking class) Other education-related (e.g., field trip) *[purp_school_other] if purp_school = other Programmer: Ask open-ended follow-up*
[purp_drop] if purpose = drop-off	To/from childcare/preschool/adult care To/from K-12 school or college To/from other person's workplace To/from other person's scheduled activity (e.g., lesson, practice) To/from other person's home Other place to pick-up/drop-off *[purp_drop_other] if purp_drop = other Programmer: Ask open-ended follow-up*
[purp_leisure] if purpose = leisure	Social (e.g., visit friends/relatives) Family activity (e.g., watch child's game) Leisure/entertain/cultural (e.g., cinema, museum) Religious/civic/volunteer activity Vacation/traveling Other *[purp_leisure_other] if purp_leisure = other Programmer: Ask open-ended follow-up*
[mode]	In a household vehicle (or motorcycle) In other personal vehicle (e.g., rental, carshare, work car) Any taxi or ride service (e.g., Uber, Lyft) Any bus or shuttle (e.g., local, school bus, vanpool, Metro Mobility) Any rail (e.g., train, light rail, trolley) Walk, jog, or roll using a mobility device Bicycle Scooter, Moped, or similar (e.g., Segway)

	Medical transportation service (non-emergency)
	Other
[mode_own] if mode = hh vehicle	<hhveh 1> if hhveh > 0
	<hhveh 2> if hhveh > 1
	<hhveh 3> if hhveh > 2
	<hhveh 4> if hhveh > 3
	<hhveh 5> if hhveh > 4
	<hhveh 6> if hhveh > 5
	<hhveh 7> if hhveh > 6
	<hhveh 8> if hhveh > 7
	Other vehicle in household
	Other motorcycle/moped/scooter
[mode_auto] if mode = other vehicle	Car from work
	Friend/colleague's car
	Rental car
	Carpool match (e.g., Waze Carpool)
	Carshare service (e.g., HOURCAR, Car2Go, Zipcar, Maven)
	Peer-to-peer car rental (e.g., Turo, Getaround)
	Other vehicle
[mode_taxi] if mode = taxi	Regular taxi (e.g., Yellow Cab)
	Uber, Lyft, Via, or other smartphone-app ride service
	LyftLine, UberPool, or other shared-ride
	Other hired car service (e.g., black car, limo)
[mode_bus] if mode = bus	Local bus
	Express bus
	Bus Rapid Transit (BRT) (e.g., A Line, C Line, Red Line)
	Employer shuttle/bus if employed = full/part/self
	University shuttle/bus
	Other private shuttle/bus (e.g., a hotel's, an airport's)
	School bus if student
	Intercity bus (e.g., Greyhound, Megabus)
	Vanpool
	Dial-a-Ride (e.g., Transit Link)
	Metro Mobility
	Other bus
[mode_rail] if mode = rail	Light rail (e.g., Blue Line, Green Line)
	Intercity rail (e.g., Amtrak)
	Northstar
	Other rail
[mode_bike] if mode = bicycle	Bicycle owned by my household
	Borrowed bicycle (e.g., from friend)
	Bike-share (regular bicycle)
	Bike-share (electric bicycle)
	Other rented bicycle
[mode_scooter] if mode = scooter	Personal scooter or moped (not shared)
	Scooter share: electric push scooter
	Scooter share: non-electric push scooter
	Moped share (e.g., Scoot)
	Segway
	Other scooter or similar
[mode_other] if mode = other	Airplane/helicopter
	Boat/ferry/water taxi
	Skateboard/rollerblade
	Golf cart

ATV or snowmobile
Other

[trip_details: auto]

if mode = HH/other vehicle

- *[driver] if license has license and travelers_total > 1*
  <**Was Name/Were you**> **the driver or passenger?**

- *[park_loc]*
  Where was the vehicle parked at/near <**place y**> **?**

- *[park_type] if park_loc = lot/garage or on-street*
  What type of parking was it?

- *[park_pay] if park_type = cash/tickets or parking service*

VARIABLE	VALUES (FOR DROPDOWN)
[driver]	Driver Passenger
[park_loc]	My own driveway/garage *if purpose = went home* Parking lot/ramp/garage On street parking Someone else's driveway Park & ride lot Didn't park (e.g., waited, drop-off, drive-thru) Other
[park_type]	Free parking (no cost at all) Used a parking pass (any type) Paid via cash, credit card, or ticket(s) Reserved parking service (e.g., ParkingPanda) Other
[park_pay]	$: Don't know Another person paid or <I / name> was reimbursed
[park_cost] if park_pay = $:	*Programmer: Numeric entry for dollars up to 999*

[trip_details: taxi]

if mode = taxi

- *[taxi_type]*
  Who paid for the trip?

- *[taxi_pay] if taxi_type = I paid, employer paid, or split/shared*
  How much was the trip fare (rounded to the nearest dollar)?

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VARIABLE	VALUES (FOR DROPDOWN)
[taxi_type]	<I / name> paid the fare (no reimbursement) Employer paid (<I as/ Name is> reimbursed) *if employed = full/part/self/volunteer* Split/shared fare with other(s) *if travelers_total > 1* Someone else paid 100% (all of taxi fare) *if travelers_total > 1* Other
[taxi_pay]	$: Don't know
[taxi_cost] if taxi_pay = $:	*Programmer: Numeric entry for dollars up to 999*

[trip_details: bus]

if mode = bus (except school bus)

- *[bus_type]*
  How did <you / Name> pay the bus fare?

VARIABLE	VALUES (FOR DROPDOWN)
[bus_type]	Free (no cost at all) Used transit Go-To card or pass (any type) Cash, credit card, token(s), or ticket(s) Don't know

[trip_details: rail]

if mode = rail

- *[rail_type]*
  How did <you / Name> pay the rail fare?

VARIABLE	VALUES (FOR DROPDOWN)
[rail_type]	Free (no cost at all) Used transit Go-To card or pass (any type) Cash, credit card, token(s), or ticket(s) Don't know

[trip_details: bicycle]

if mode = bicycle

- *[bike_park_location]*
  Where did <you / Name> park the bicycle?

VARIABLE	VALUES (FOR DROPDOWN)
[bike_park_location]	My own driveway/garage *if purpose = went home* Bike rack Bike locker Secured bike room Locked to other object (e.g., sign post, fence, tree)

Bike-share designated docking station *if mode_bike = either bike-share*
Unlocked on-street
Other

[trip_details: Scooter]

if mode = scooter

- *[scooter_park_location]*
  Where did <**you / Name**> **park the scooter, moped, or similar?**

VARIABLE	VALUES (FOR DROPDOWN)
[scooter_park_location]	In my house/apartment (includes garage, porch, storage area) *if purpose = went home* Bike/scooter rack Locker for bikes/scooters Secured room Locked to other object (e.g., sign post, fence, tree) Scooter-share designated docking station Unlocked on-street Other

---

3.5 COPY TRIPS FROM OTHER HH MEMBERS

The Travel Diary allows household members to "copy" trips that previous members reported them being on. This feature reduces respondent burden and increases data accuracy. This features works as follows:

- The first HH Member will need to list and describe ALL of their trips (as described on the previous pages)
- For HH Members 2 - n, if they are NOT reported on any previous members' trips, they will also simply list and describe all of their trips (previous pages)
- For HH Members 2 - n that ARE reported as travelers in any of the previous members' trips, they will see an alternate set of survey questions for the first part of the diary

The following pages show the alternate questions that ask/allow household members to copy trips described by members who have already completed their diary

---

[copy_trips]

Below is a list of trips that other household members reporting making with <you / Name>. To make this easier, we can use the information already provided if <you / they> made these trips together.
Please confirm the trips that <**you / Name**> **made.**

[copy_trips_first_last]

Programmer: If person was not reported on previous trips or chose not to confirm any of the trips, they will continue as normal from the 'location start' question.

The "travel day" began at 3 a.m. on <traveldate> and ended at 3 a.m. on <traveldate + 1>.

[copy_first]

Was the following trip the first trip <you / Name> made on <your / their> travel day?
<place x> to <place y>, from <start time> to <end time>

- Yes
- No

[copy_last]

Was the following trip the last trip <you / Name> made on <your / their> travel day?
<place x> to <place y>, from <start time> to <end time>

- Yes
- No

Programmer: If person confirms previous trips, but says he/she started or ended at a different location (i.e. respond 'no' to one or both of the above questions), survey will jump to loc_start_end before proceeding to the next page.

[trips_yesno_copy]

Thank you for your answers so far. Now we'll ask you to provide details about the trips <you / Name> made on <traveldate>.

Please review the definition of a "trip" below, then click "Next" to continue.

[loc_roster_copy]

Please list, in order, all the places <you / Name> went between 3 a.m. on <traveldate> and 3 a.m. on <traveldate + 1>.

Please provide a unique name or short description for each unique/different place. If you drove, got a ride, or rode a bicycle to/from a transit stop, include this stop as a place below. When all your places are listed below, click "Next" to continue.

Programmer: Show if person branches back from 'locs_confirm' to add more trips:

Please INSERT any places you want to add (remember - you can drag the places to reorder the list).

Programmer: Copied destinations are shown, and new destinations can be inserted between. Multi-location geocoder will ask person to locate NEW locations, but not copied locations. Programmer: Validation: Warn if copied trips create trips to/from the same location (0-mile trips).

[locs_confirm]

if made trips

Listed to the right are all the places <you / Name> reported going on <traveldate>.

Do you have any trips to add to <your / Name's> travel on <traveldate> that you haven't already reported? Please select all that apply.

- Yes, went out but didn't stop anywhere (e.g., jog or bike ride, walked the dog, Sunday drive, etc.)
- Yes, made one or more short trips in the middle of other activities (e.g., quick trip for lunch)
- Yes, stopped briefly on the way to somewhere else (e.g., gas, ATM, drive-thru restaurant, etc.)
- Yes, dropped someone off on the way to somewhere else (e.g., spouse at park and ride lot, child at a friend's house, etc.)
- Yes, walked to/from a parking garage or transit stop FARTHER THAN 5 MINUTES
- Yes, forgot to include another type of trip
- No, listed all trips

Programmer: Link 'didn't stop anywhere' to loop trip graphic
Note: It is important to share all trips, including short stops. This will help us understand transportation planning needs. Some trips (like walks, bike rides or short stops on your way to somewhere else) are easy to forget.

Programmer: If respondents select any "Yes" answers, branch back to locs. The second time they see this page, the "No" box will automatically be checked, but their original answers will be saved in the DB.

[locs_confirm2]

The list below should include all the trips <you / Name> made on <traveldate>.

If you need to add or remove trips, please click "Previous" to go back and edit your locations. If all of <your / Name's> trips from <day of week>, <traveldate> are shown below, please click "Next" to continue.

Programmer: If Google returns trip distances, show the approximate distance. If Google fails to return driving distances due to flight or ferry trip, hide that column.

Programmer: Show the error message below when gdistance=0 for one or more trips. For copied trips, remember to check if distances are already converted (km to mi). Note: error message should not stop participants from proceeding. It is simply a warning.

One or more trips are less than 0.1 mile long. If this is incorrect, press "Previous" to return to your list of locations and ensure that the same location has not been listed twice in a row.

[trip_details_copy]

PROGRAMMER: Show for any previously reported trips that the person confirmed. Respondent will report the trip purpose for all copied trips. All other trip details are automatically copied behind the scenes.

Here are the details for <**your / Name's**> **trip from** <**place x**> **to** <**place y**> **that were reported by another member of your household:**

- Departed: <start loc> at <start time>
- Arrived: <end loc> at <end time>
- *[purpose]*
  Why did <**you / Name**> **stop at** <**place y**>
  Programmer: [Dropdown of primary purpose followed by dropdown of follow-up].
- *[driver] if has license*
  <**Was Name/Were you**> **the driver or passenger?**

Programmer: For all NEW trips each person adds, they will go through the normal trip_details page rather than this trip_details_copy page. Please ensure that added trips DO NOT overlap with copied trips.

3.6 DAILY SUMMARY QUESTIONS

[telecommute_time]

if employment = full/part/self/volunteer

How much did you work at home/telework for pay on <**traveldate**> **?**
Please estimate for all time worked at home (both during & outside regular business hours).

Programmer: Selection is in 15 minute increments up to "10 or more hours"

[shoponline]

if age = 18+

Did you personally purchase anything online on <**traveldate**> **?**

- Yes
- No

[delivery]

On \<traveldate\>, which of the following occurred? Please select all that apply.

- Received packages at home (e.g., FedEx, UPS, USPS)
- Received personal packages at work (e.g., FedEx, UPS, USPS)
- Received packages at offsite locker (e.g., Amazon locker)
- Food was delivered to home (e.g., take-out, groceries)
- Other item delivered to home (e.g., appliance)
- Someone came to home to do work (e.g., landscaping, plumber, housecleaning)
- None of the above

3.7 CLOSING

[comments]

Thank you for participating in this study.
If you have any feedback that you would like to share with us, please enter it below and click "Next"

Otherwise, please simply click the "Next" button to submit your responses.

Programmer: [Optional text box entry]
Programmer: If other HH members still need to complete their diaries: If any household members still need to complete this survey, you will return to the main survey site where you can continue with the next person.**

[diary_end]

Programmer: Show if all HH members have completed:

Congratulations, your household has completed the Travel Behavior Inventory!

Thank you for your participation in this important research.

Programmer: If incentive not waived: Your household will recieve the gift card you selected during Part 1 in the next two weeks.
You may now close your browser.

Programmer: If survey is expired: Thank you for your participation in the Travel Behavior Inventory. Your travel date has passed and the survey is no longer available. If you have questions or feedback, please email us at help@MSPtravelstudy.org.