Appendix DD

TBW Tutorial for non-GPS

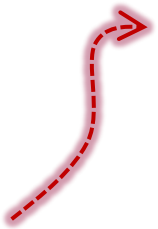
A Brief Tutorial on Reporting Your Travel Online

Hello! Welcome to this tutorial on how to report your travel.

Your goal is to report each place you went on your travel day.

If you used the paper travel log to keep track of the places you went on your travel day, please make sure you have it with you. It will make completing the online survey easier.

Click the black arrow buttons to move through the tutorial.



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Monday - Friday	9:00 am – 9:00 pm ET
Saturday	10:00 am – 6:00 pm ET
Sunday	2:00 pm – 9:00 pm ET

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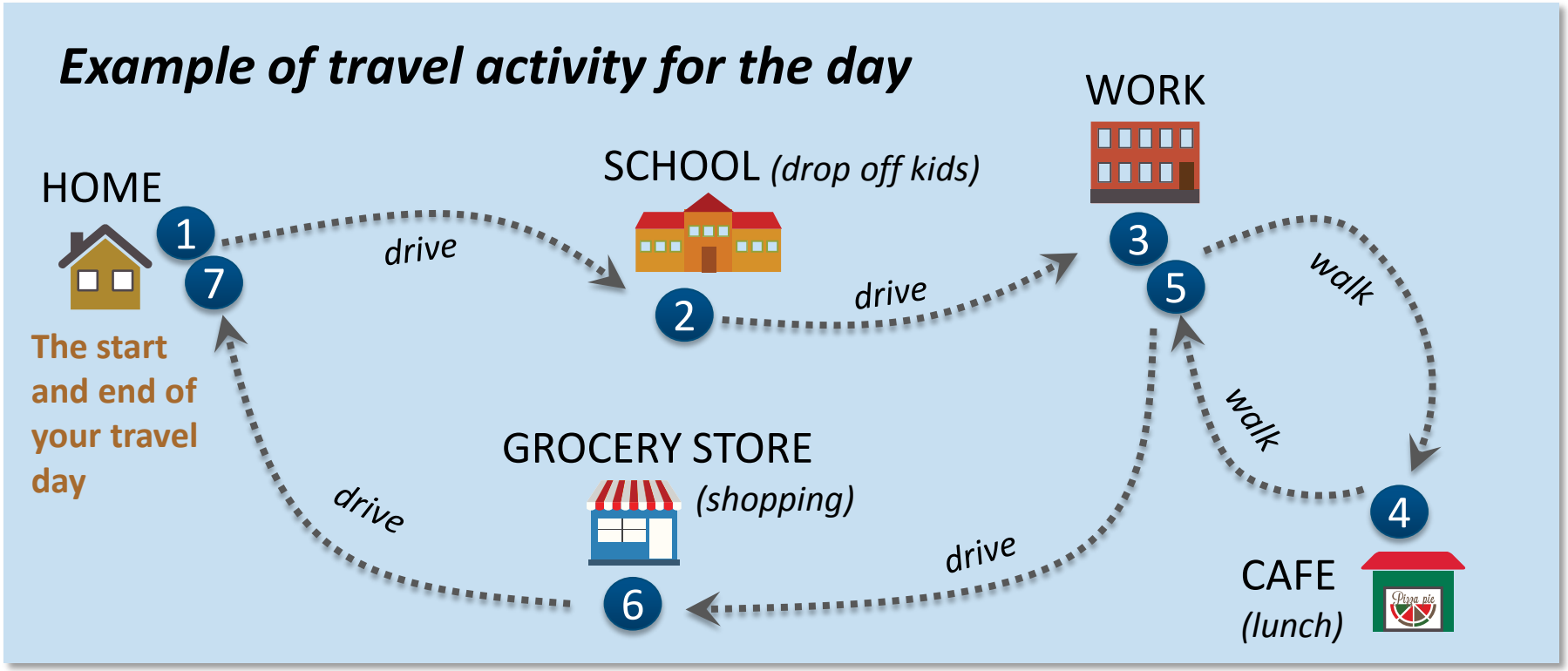
First, let's define what we mean by a "Place".

A place is any location you go to, no matter how long you are there. Examples:

- A gas station
- A drive-thru window
- A bus stop
- A location where you dropped someone off or picked someone up
- An off-site location for a meeting with a client

Each place you visit will be given a number, starting with Place 1.

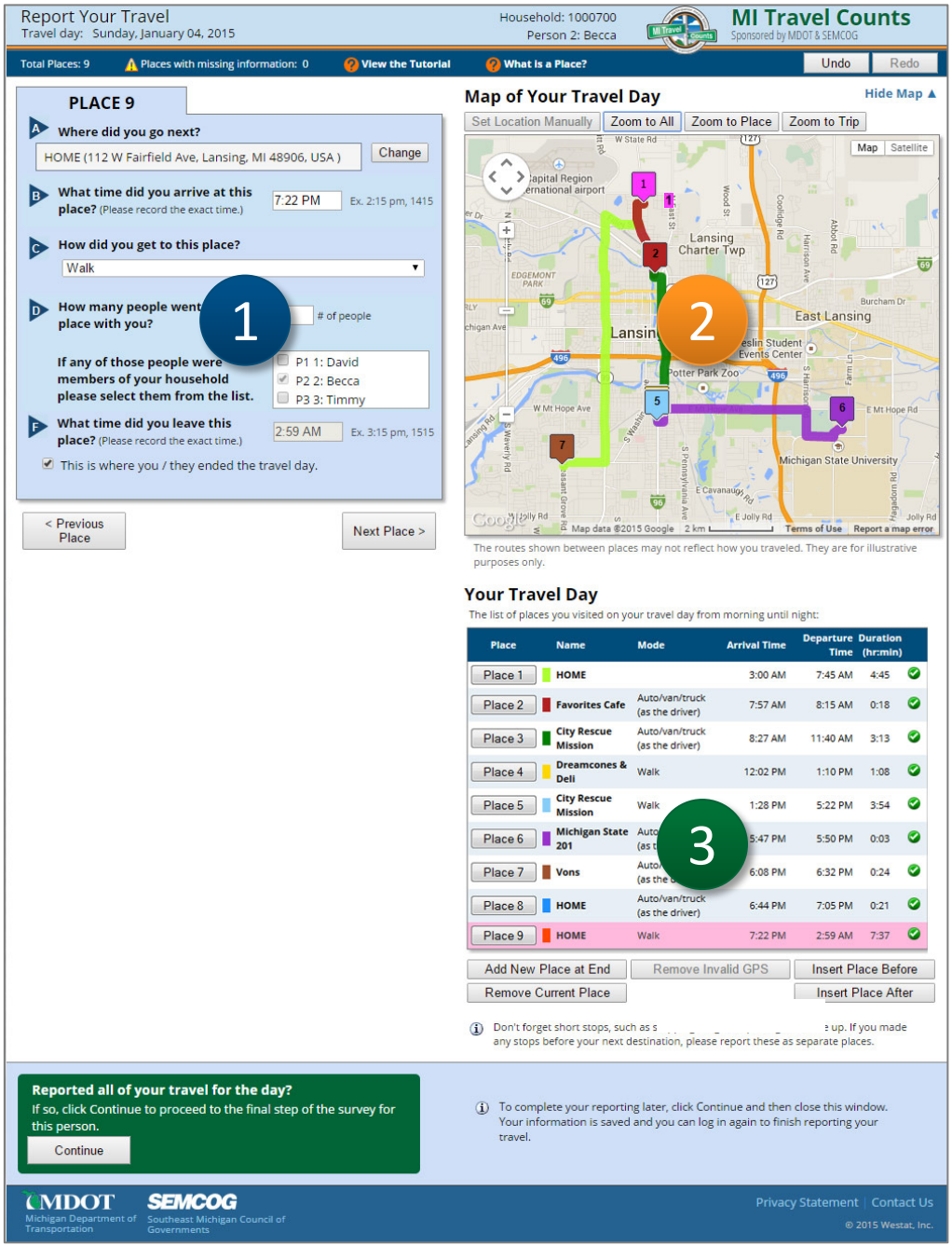


The Basics

Here's what the **Report Your Travel** page looks like.

Let's briefly look at the three key sections.

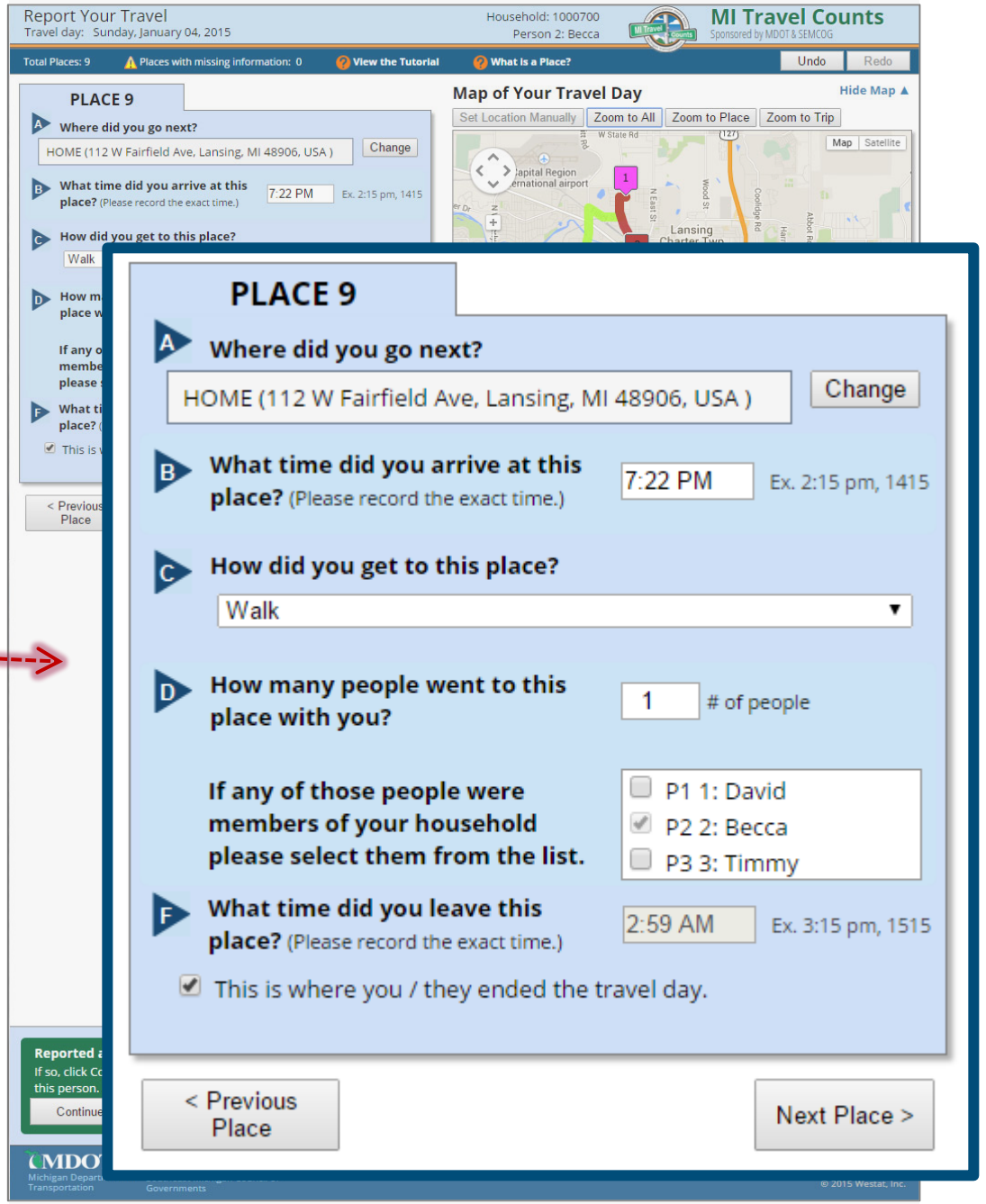
1. **Reporting places**
2. **Mapping places**
3. **Building your travel day**



Reporting Places

1

This is where you tell us the *where*, *when*, *how*, and *who* details of the places you visited.



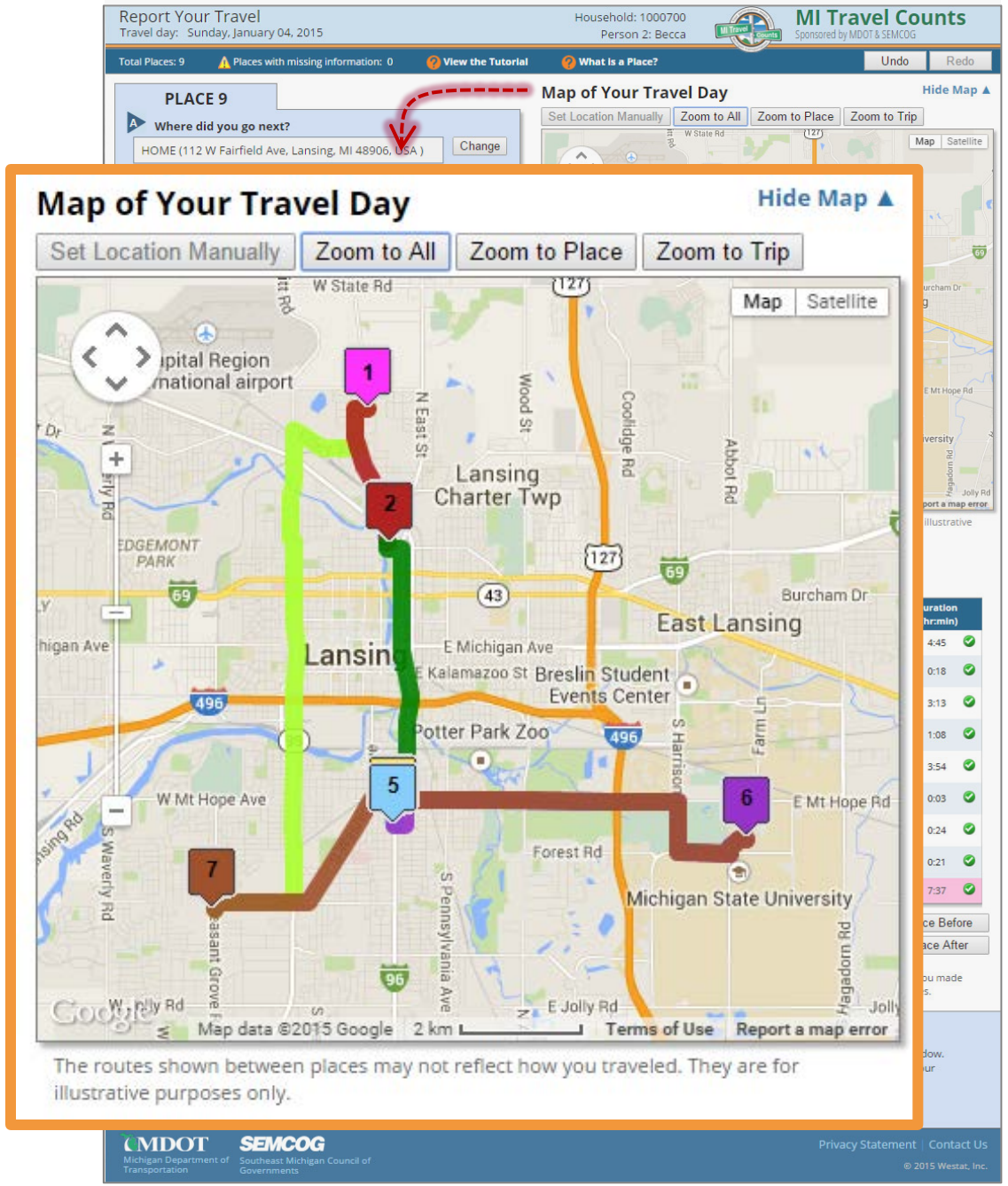
Mapping Places

2

You don't have to do anything with the map.

As you tell us about the places you went, the map creates a picture of your day to help you remember all the stops you made.

Don't worry if the map makes it look like you took a road that you didn't. It always shows the most direct (shortest) route between two places.



Your Travel Day

Your Travel Day

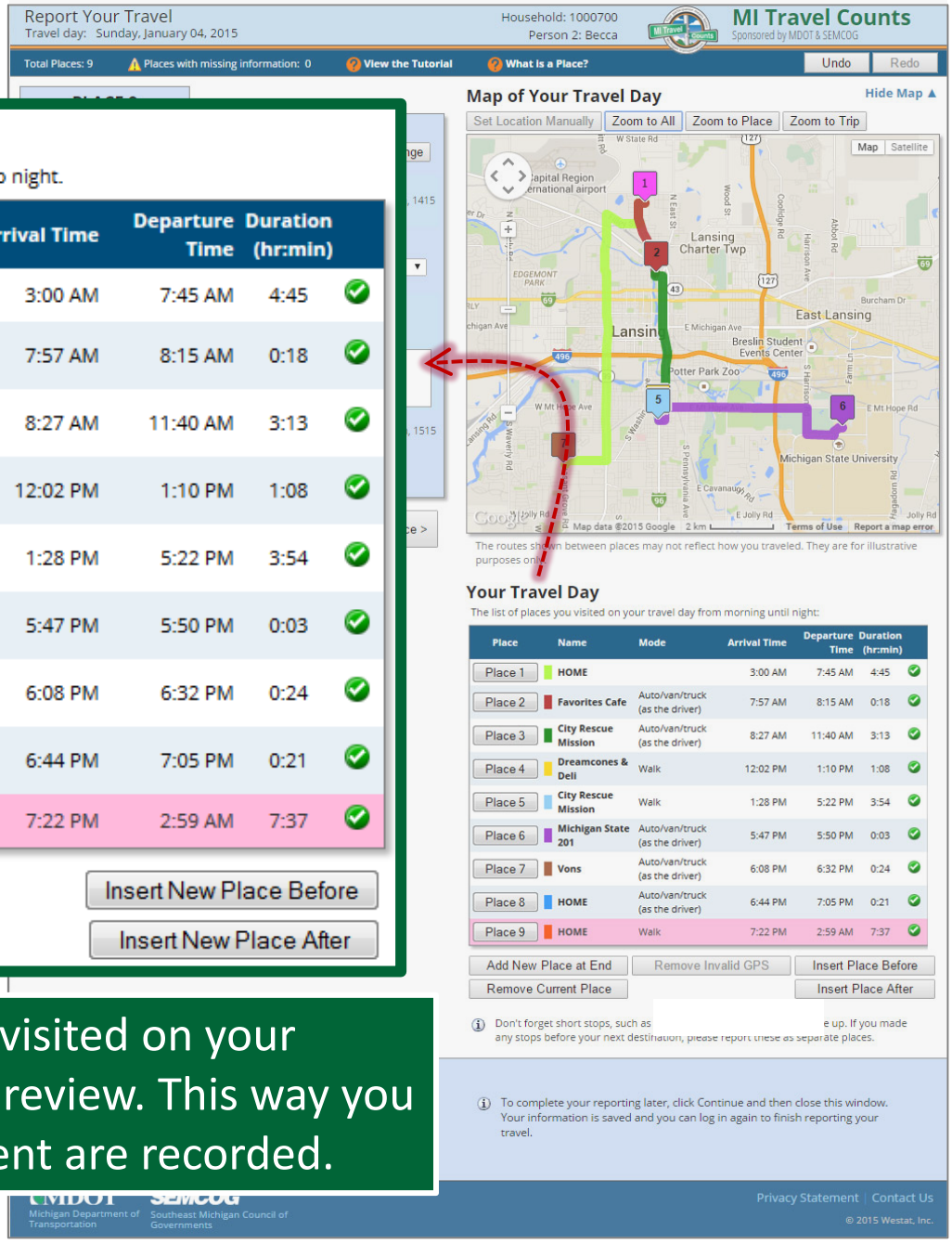
The list of places visited on your travel day from morning to night.

Place	Name	Mode	Arrival Time	Departure Time	Duration (hr:min)
Place 1	HOME		3:00 AM	7:45 AM	4:45
Place 2	Favorites Cafe	Auto/van/truck (as the driver)	7:57 AM	8:15 AM	0:18
Place 3	City Rescue Mission	Auto/van/truck (as the driver)	8:27 AM	11:40 AM	3:13
Place 4	Dreamcones & Deli	Walk	12:02 PM	1:10 PM	1:08
Place 5	City Rescue Mission	Walk	1:28 PM	5:22 PM	3:54
Place 6	Michigan State 201	Auto/van/truck (as the driver)	5:47 PM	5:50 PM	0:03
Place 7	Vons	Auto/van/truck (as the driver)	6:08 PM	6:32 PM	0:24
Place 8	HOME	Auto/van/truck (as the driver)	6:44 PM	7:05 PM	0:21
Place 9	HOME	Walk	7:22 PM	2:59 AM	7:37

Add New Place at End | Insert New Place Before
Remove Current Place | Insert New Place After

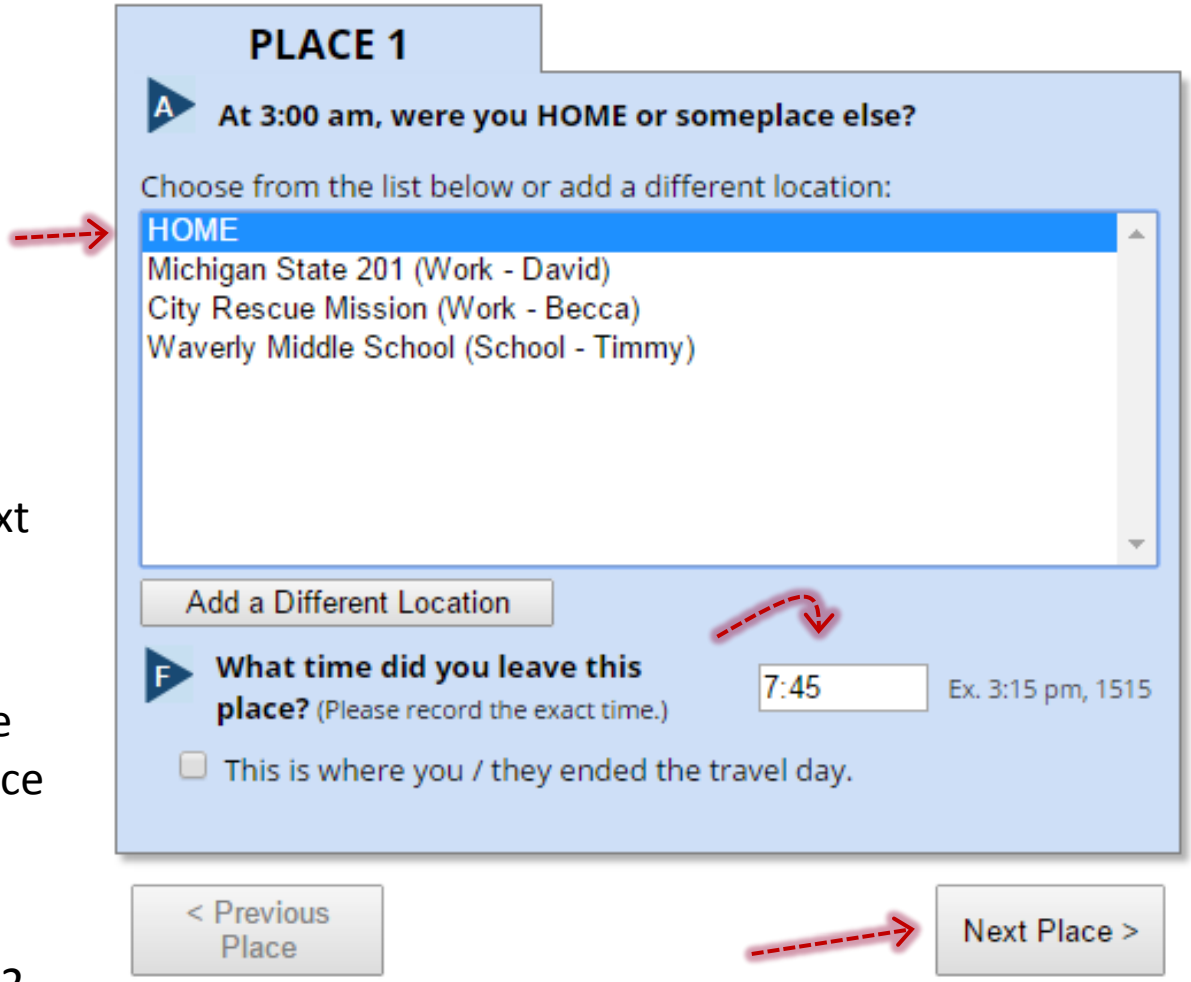
3

As you tell us about the places you visited on your travel day, we build a list for you to review. This way you can make sure all the places you went are recorded.



Reporting your travel, starting with Place 1

1. Begin by reporting where you were at 3 am.
2. In Section **A** , if you were home, click HOME. You'll see the location appear on the map.
3. If you weren't at home, work or school, see the next page for how to report a different location.
4. Next, in Section **F**, fill in the time when you left this place to go somewhere else.
5. That's it for Place 1! Click **Next Place** to report Place 2.



Report the next place

If the next place you went is already listed in the box, just click it.

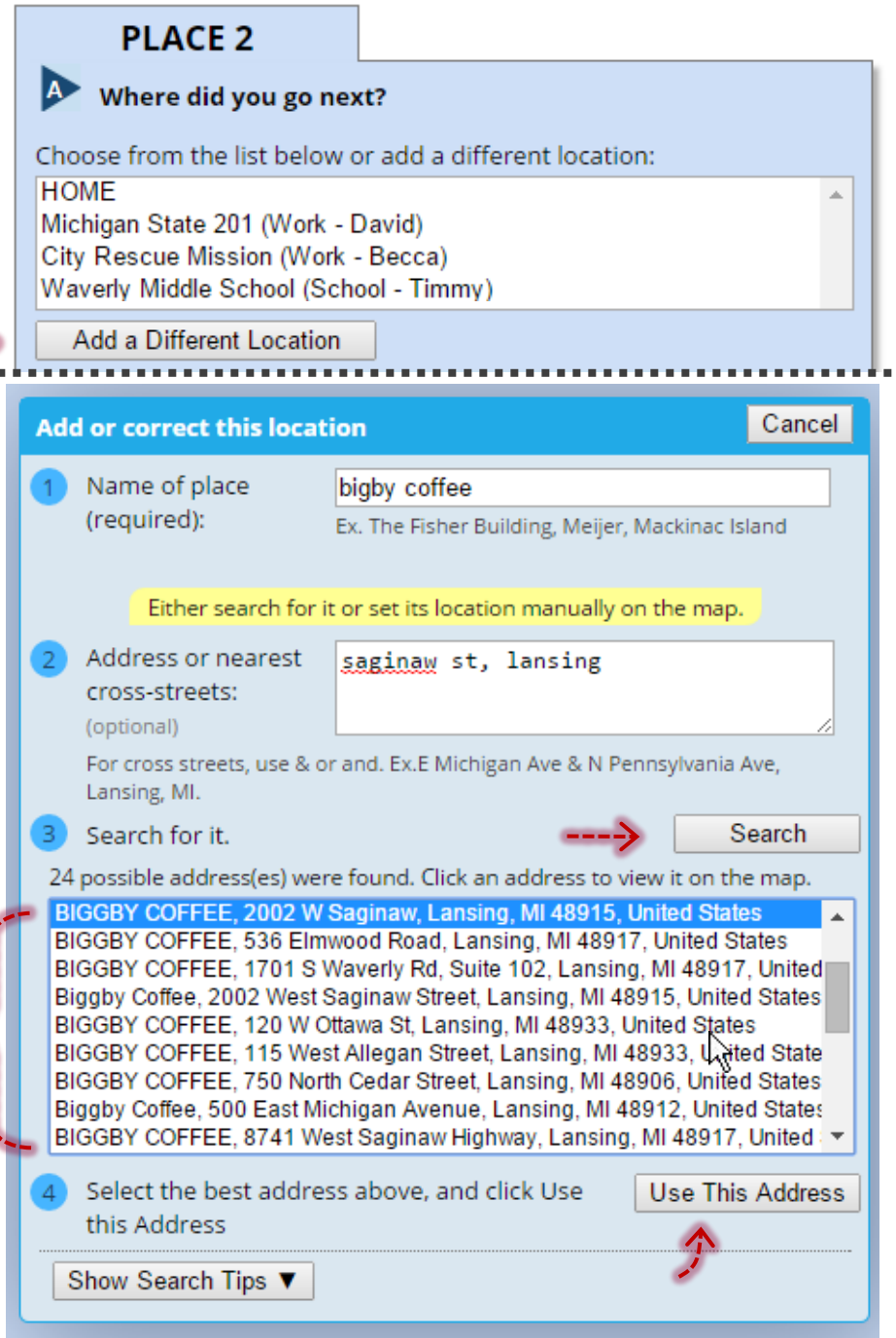
If you went somewhere else, click **Add a Different Location** and let our search engine find it for you.

Suppose you went to a coffee shop called “Biggby Coffee”. Type that into the “Name of place” box. Add the street name if you know it, plus the city, and click **Search**.

The search results will appear in the box below the search button **and** on the map.

Once you find the right address, select it and click **Use This Address**.

Can’t find it? Click **Show Search Tips**.



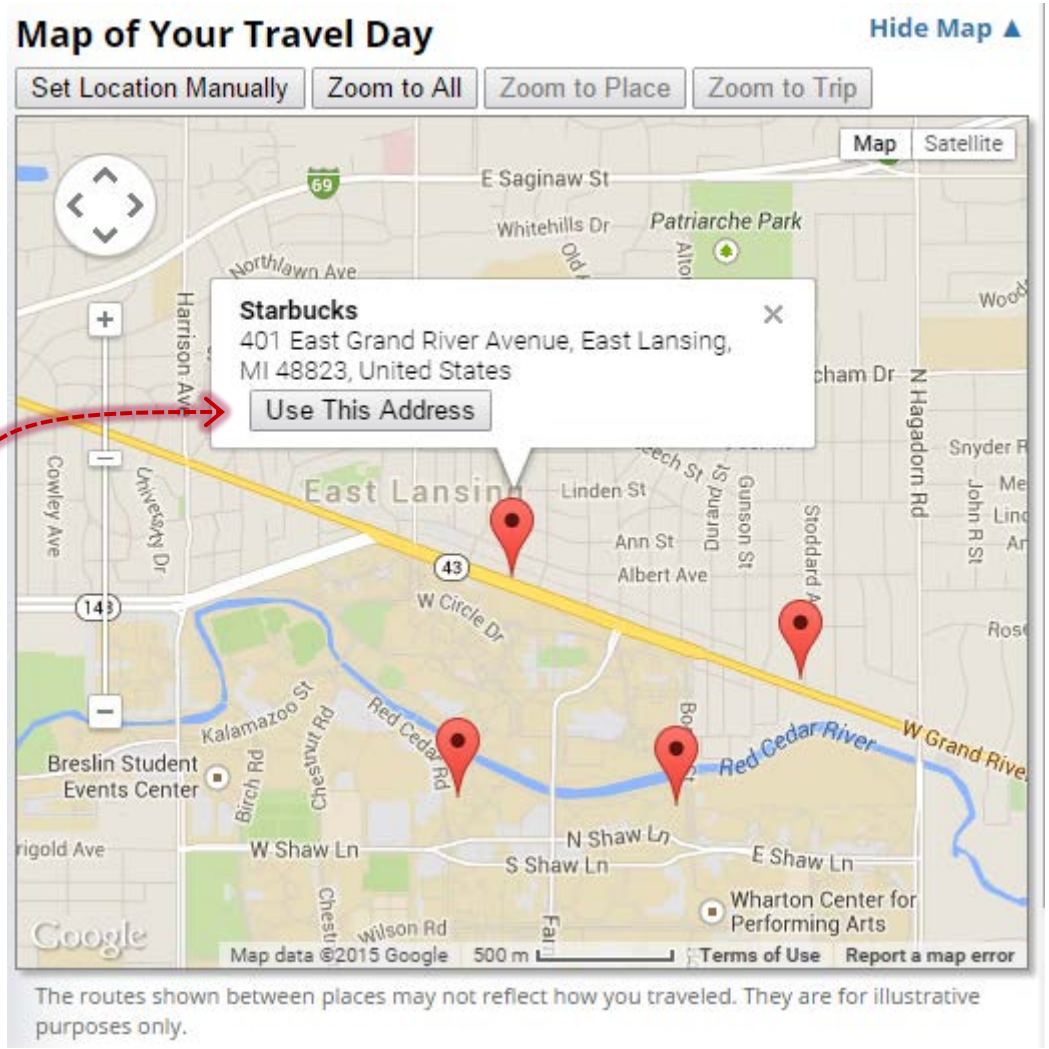
Search Tip #1 – Find the location by clicking the map marker

Not sure which address is the right one?

After you do a search, you'll see markers on the map with possible locations.

Click on a map marker to view the location's address.

When you find the location you're looking for, click the **Use This Address** button.

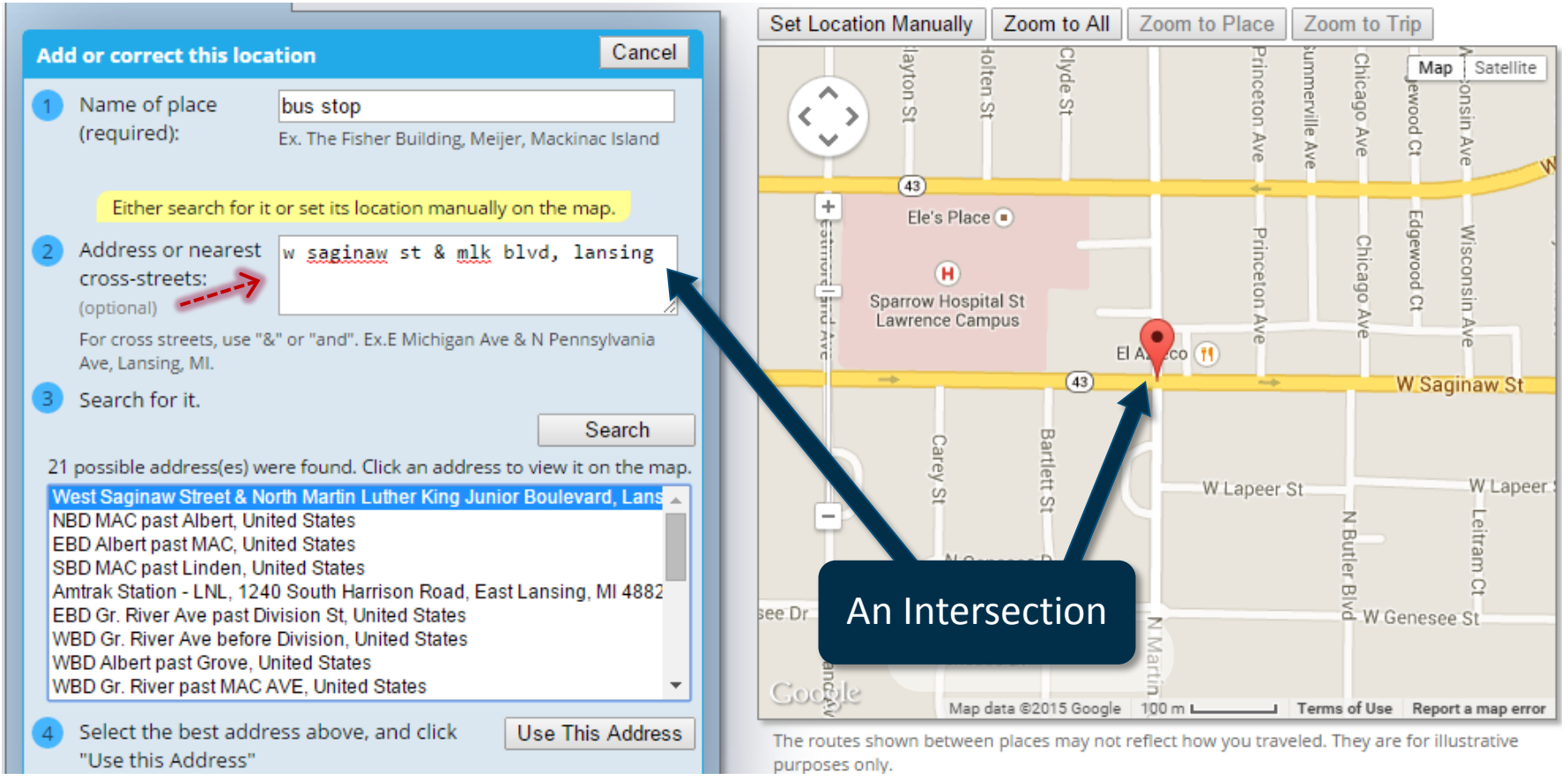


Search Tip #2 – Find the closest intersection (cross-streets)

Having trouble finding the location you're looking for?

Report the intersection closest to the place you went.

To enter the cross-streets, use "&" or "and", such as **W Saginaw St & MLK Blvd**. Search uses Google and returns locations even if you misspell or abbreviate words.

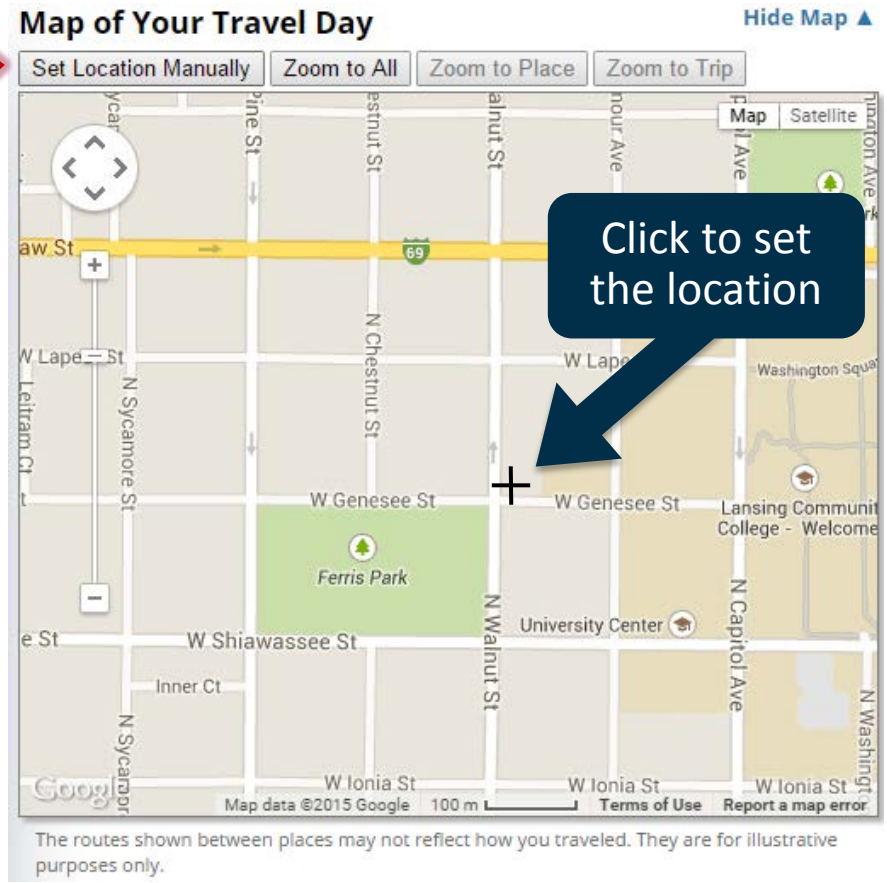


The routes shown between places may not reflect how you traveled. They are for illustrative purposes only.

Search Tip #3 – Set the location manually on the map

Rather use the map to find the place you went?
It's easy to set it directly on the map.

1. Type a name in the **Name of place** box (e.g., bus stop, Gregg's house, Park Road overlook, etc.) **A name is required.**
2. Zoom and pan around the map until you see the place you want to mark.
3. Click the **Set Location Manually** button above the map.
4. Then click on the map where the place is.
5. A marker will appear on the map and estimate an address for the location.
   NOTE: The estimated address may be different from what you expect. This is OK.
6. You can drag the marker to adjust the location. The marker will move close to where you let go.
   The marker doesn't have to be exact.



Did you take a bus or train? Here's how to report transit trips...

Report each place you got on and off public transportation as a separate place.

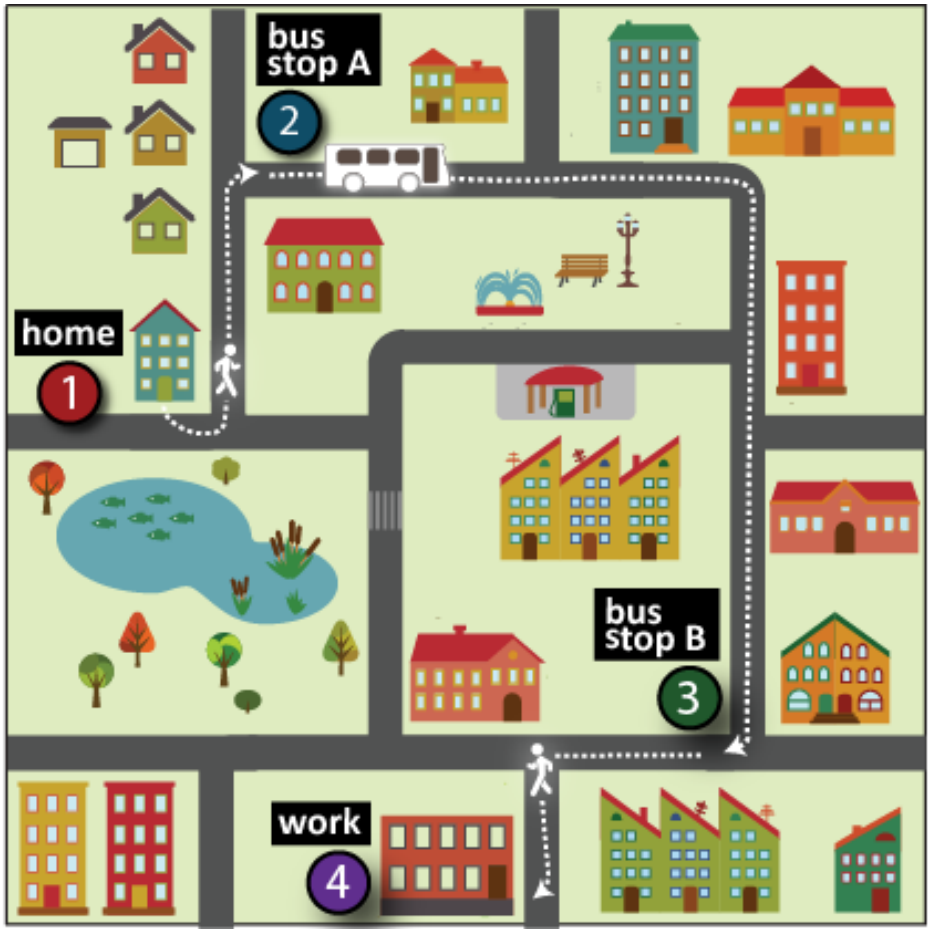
For example, Joe takes the bus to work.

He starts at Place 1, home.

Walks from home to Place 2, bus stop A.

Takes a bus from bus stop A to Place 3, bus stop B.

Walks from bus stop B to Place 4, work.



Did you go for a jog, walk the dog, or take a drive without making any stops along the way?

Be sure to report trips that start and end at the same place.

For example, Sue goes for a run after work.

...

She drives from work to Place 7, home.

Walks/jogs from home back to Place 8, home.

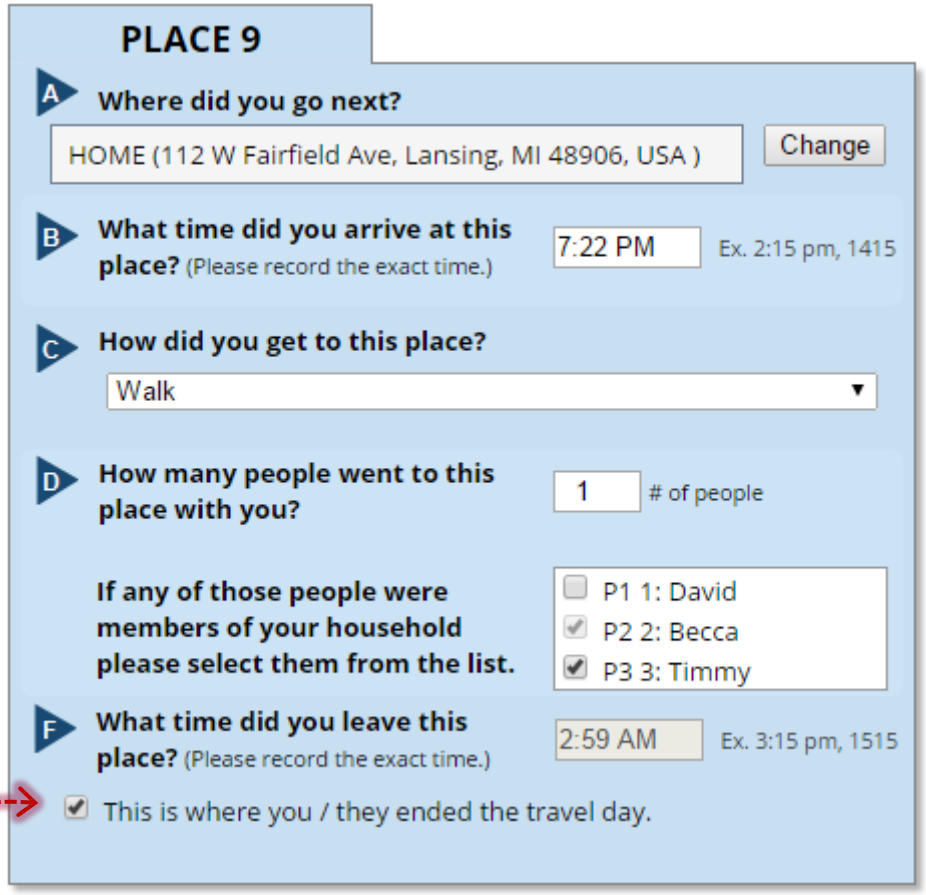
Add the place details

Once you've set the location, fill in the remaining details (sections B-F). Refer to the paper log you used to keep track of all the places you went.

The last place of the day is where you stayed for the evening, at least until 3 am the next day. For most people, this will be HOME.

Below the "What time did you leave this place?" question, click the box for "This is where you/they ended the travel day."

The time you left box will be automatically filled with 2:59 AM.

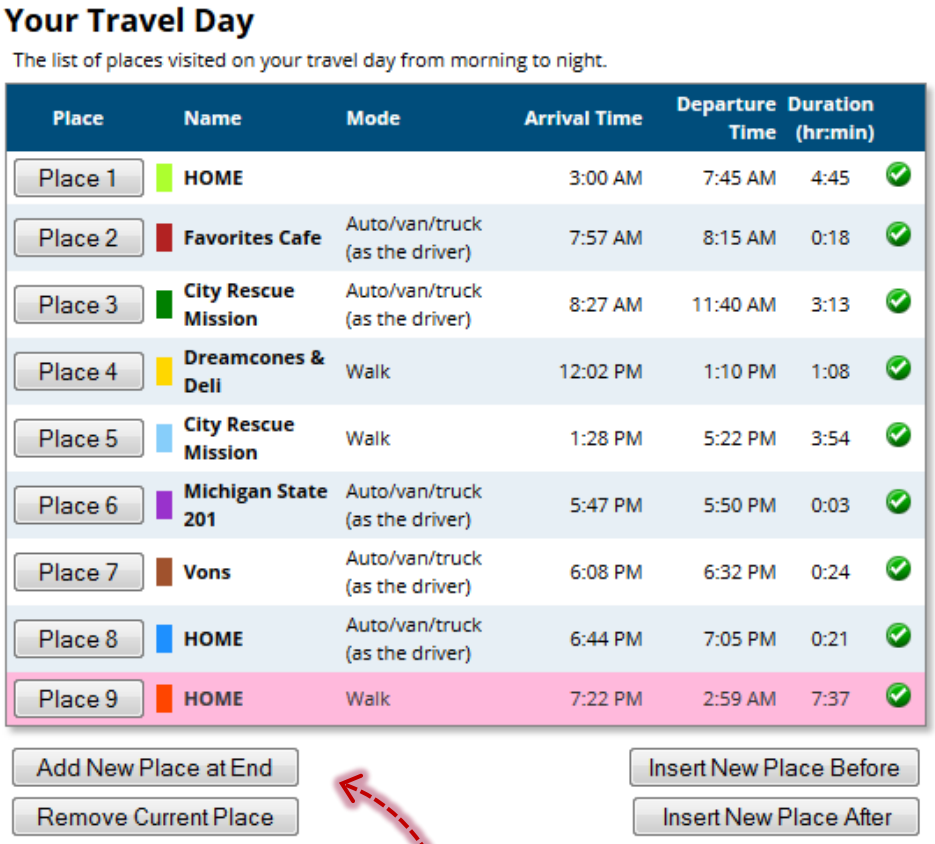


Review your travel day

As you complete the survey, we've been building "Your Travel Day" list. Before leaving this page, take a minute to review it and make sure you have told us about all the places you went.

Anything missing?

- Green check means you have entered all the information for this place.
- Yellow yield sign means one or more pieces of information is missing for this place.



To correct a place or details about a place

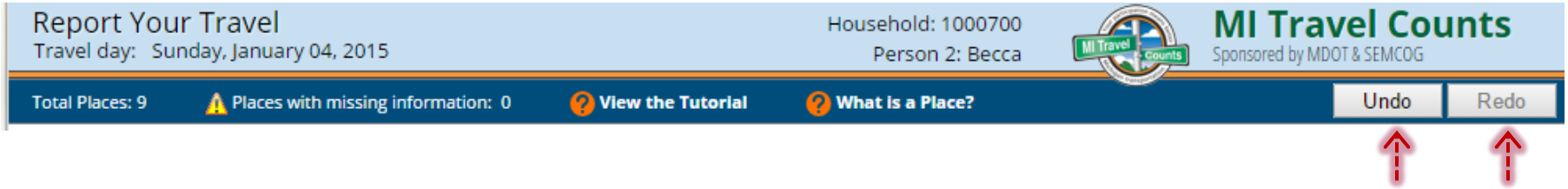
Click on the **Place # buttons** to return you to that place so you can make updates.

Need to add a place?

Use the buttons below Your Travel Day list to add new places to the list.

Make a mistake? No worries.

Click the **Undo** button in the top-right to undo changes you've made.



Done adding places?

Click the **Continue** button at the bottom of the page. If you left out any information, you will see a message like this:

Look for the places marked with a yield sign ⚠ in the "Your Travel Day" list to identify which places need to be fixed. Click the place # buttons, like [3], to view and correct the information about a place.

If all the information is provided, click Continue to proceed to the final part of the survey.

Example Online Travel Log

Here's an example of one person's travel day:

Your Travel Day

The list of places you visited on your travel day from morning until night:

Place	Name	Mode	Arrival Time	Departure Time	Duration (hr:min)	
Place 1	HOME		3:00 AM	7:45 AM	4:45	✓
Place 2	Favorites Cafe	Auto/van/truck (as the driver)	7:57 AM	8:15 AM	0:18	✓
Place 3	City Rescue Mission	Auto/van/truck (as the driver)	8:27 AM	11:40 AM	3:13	✓
Place 4	Dreamcones & Deli	Walk	12:02 PM	1:10 PM	1:08	✓
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Place 6	Michigan State 201	Auto/van/truck (as the driver)	5:47 PM	5:50 PM	0:03	✓
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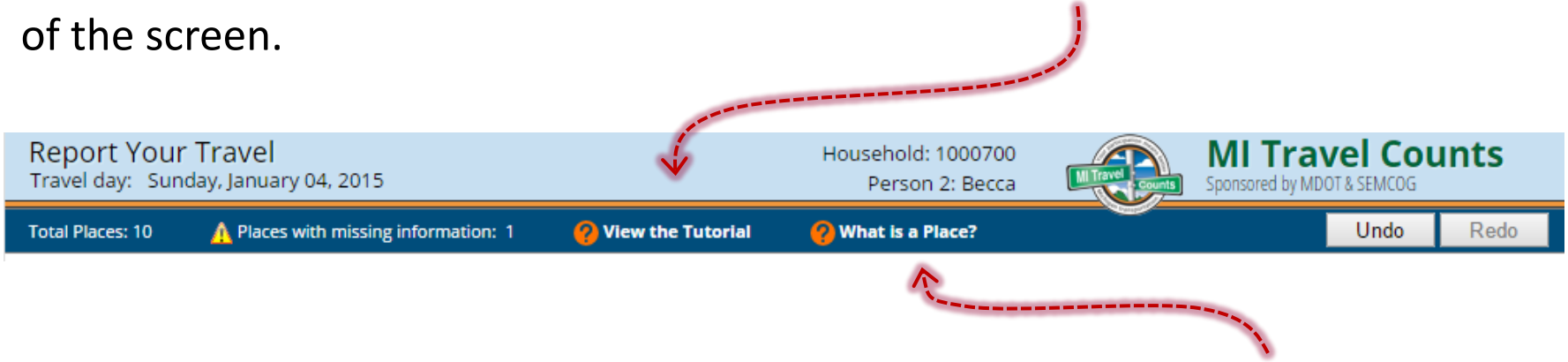
Place 9	HOME	Walk	7:22 PM	2:59 AM	7:37	✓

	Description
1	Becca started her day at home. She left to go to work at 7:45 am.
2	On her way to work, she stopped at a coffee shop at 7:57 am. She left the coffee shop at 8:15 am.
3	Then, Becca drove to work (City Rescue Mission), arriving at 8:27 am. At 11:40 am she took a lunch break.
4	For lunch, she walked to Dreamcones & Deli, arriving at 12:02 pm. She ate lunch and then left there at 1:10 pm to walk back to work.
5	Becca arrived back at work at 1:28 pm and stayed until 5:22 pm.
6	On her way home, she stopped to pick up her husband from work (Michigan State Building 201) at 5:47 pm. They left at 5:50 pm.
7	Then, Becca drove to Von's supermarket, arriving at 6:08 pm. She left at 6:32 pm to go home.
8	Becca arrived home at 6:44 pm and left at 7:05 pm to take the dog for a walk.
9	She walked the dog around the neighborhood, arriving back home at 7:22 pm. She stayed home for the rest of the night.

That's it!

To return to this tutorial at any time, click the **View the Tutorial** link at the top of the screen.



For a quick reminder about places and what to report, click "What is a Place?"

To begin reporting your travel, click the **Continue** button below.

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Appendix EE

TBW Tutorial for GPS

A Brief Tutorial on Reporting Your Travel Online

Hello! Welcome to this tutorial on how to report your travel.

The purpose of the next step is to confirm all of the places you visited on your travel day, using the GPS data as a starting point.

If you recorded where you went on your paper travel log, please make sure you have it with you. It will make reporting your travel easier.

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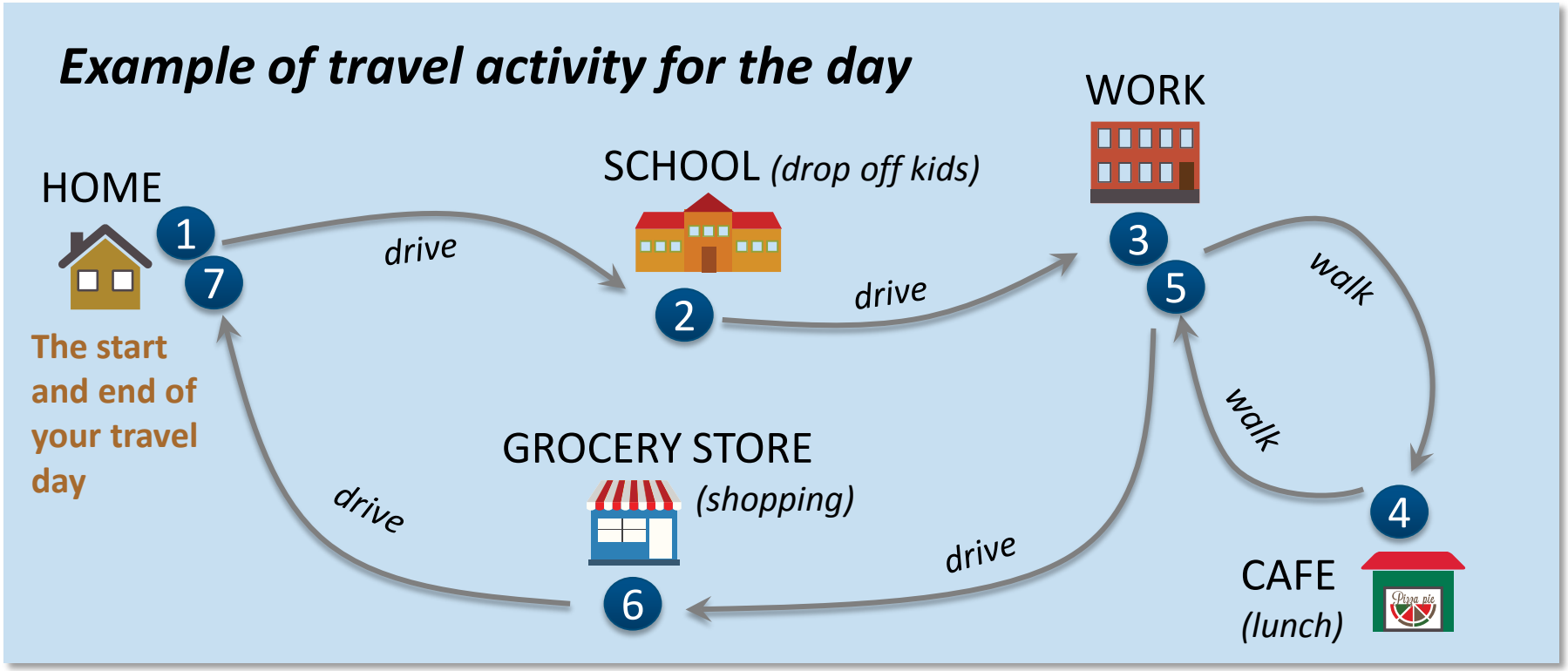
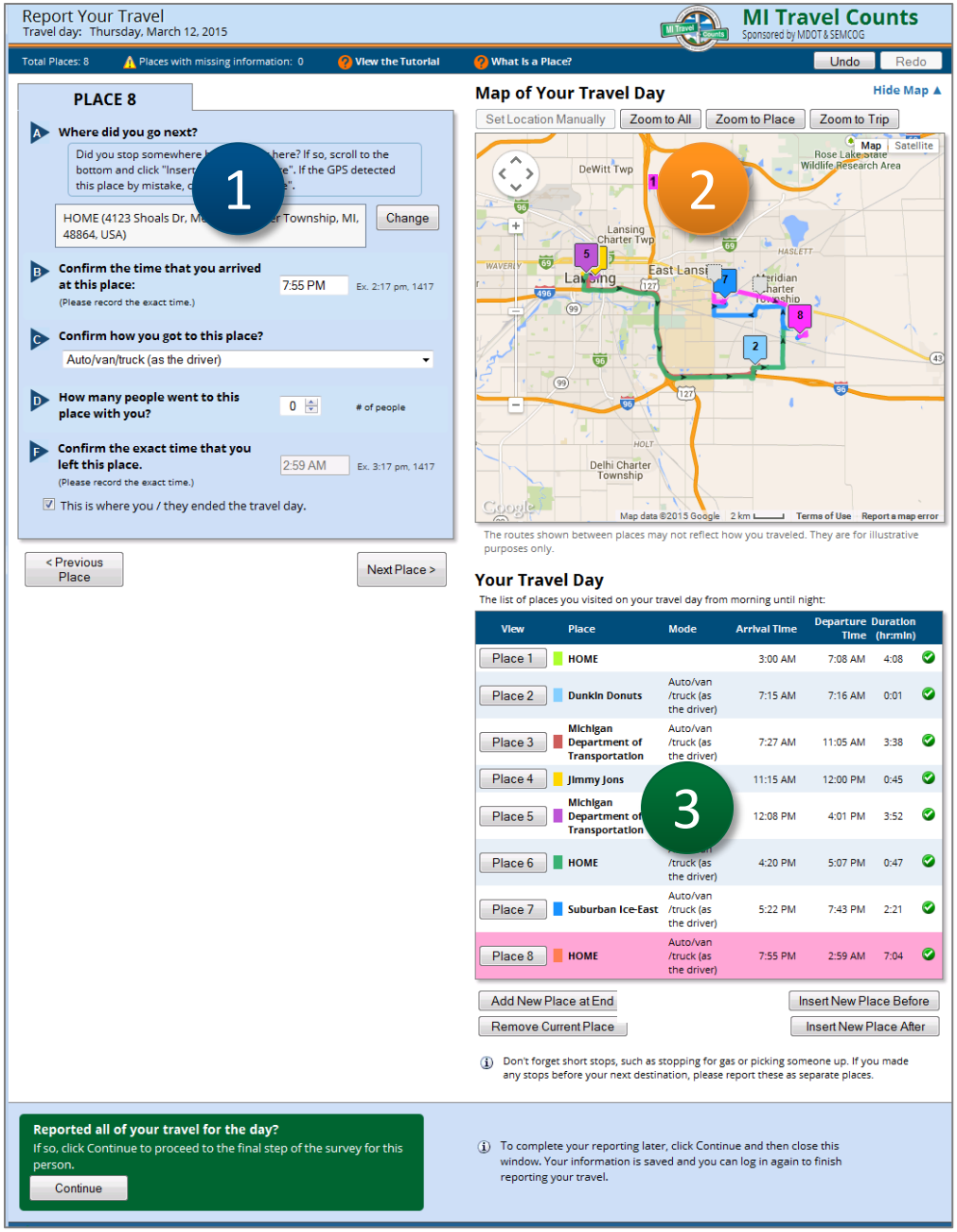


The Basics

Here's what the **Report Your Travel** page looks like.

Let's briefly look at the three key sections.

1. **Reporting places**
2. **Mapping places**
3. **Travel Day Summary**

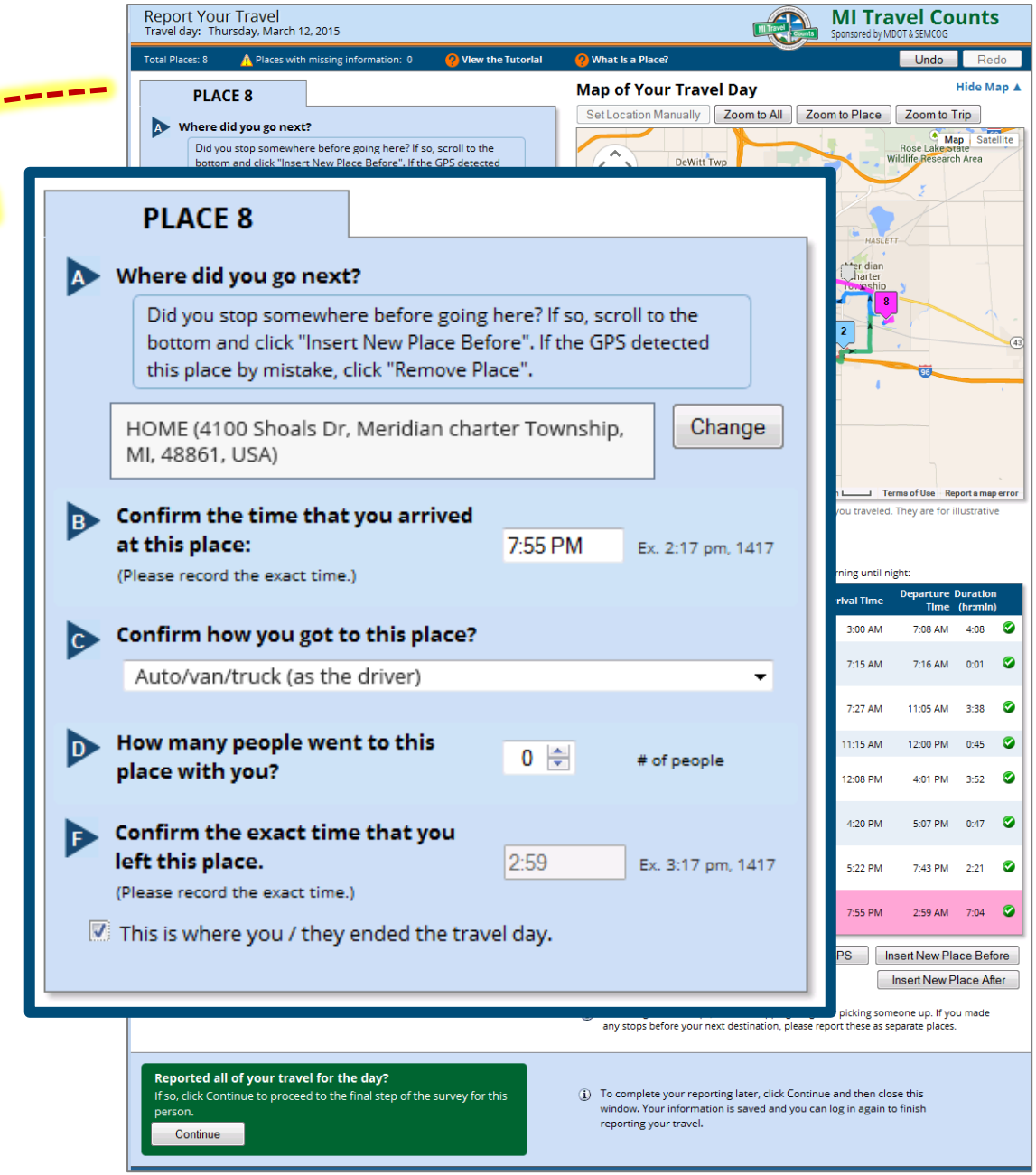


Reporting Places

1

This is where you tell us the *where*, *when*, *how*, and *who* details of the places you visited.

We detect some of this information from your GPS device, but we need you to confirm it and provide additional information.

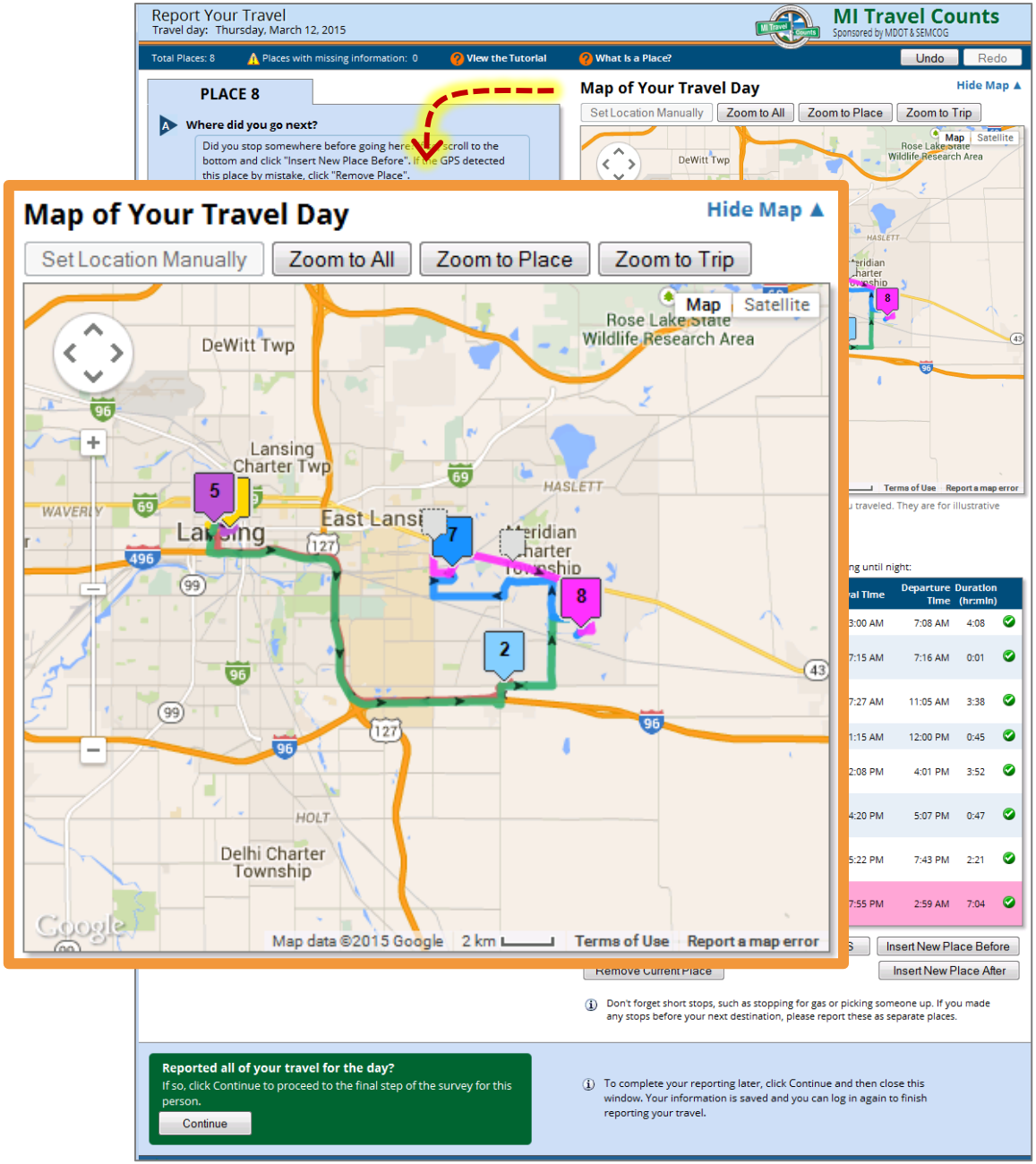


Mapping Places

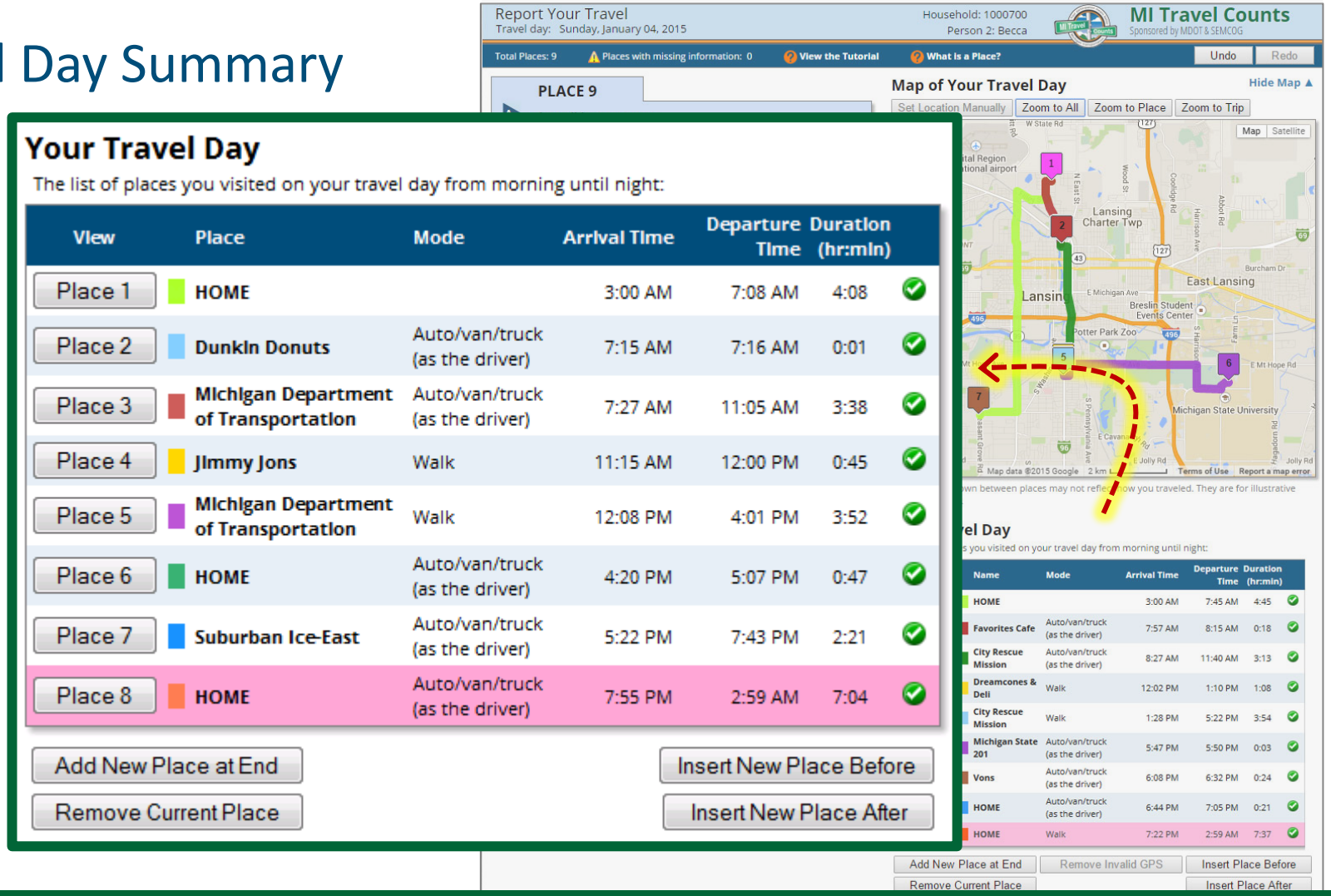
2

The map displays a picture of your travel day, using the GPS data and the information you provide.

You don't have to do anything with the map. It's here to help you remember all the places you visited.



Travel Day Summary



Your Travel Day

The list of places you visited on your travel day from morning until night:

View	Place	Mode	Arrival Time	Departure Time	Duration (hr:min)	
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Place 3	Michigan Department of Transportation	Auto/van/truck (as the driver)	7:27 AM	11:05 AM	3:38	✓
Place 4	Jimmy Jons	Walk	11:15 AM	12:00 PM	0:45	✓
Place 5	Michigan Department of Transportation	Walk	12:08 PM	4:01 PM	3:52	✓
Place 6	HOME	Auto/van/truck (as the driver)	4:20 PM	5:07 PM	0:47	✓
Place 7	Suburban Ice-East	Auto/van/truck (as the driver)	5:22 PM	7:43 PM	2:21	✓
Place 8	HOME	Auto/van/truck (as the driver)	7:55 PM	2:59 AM	7:04	✓

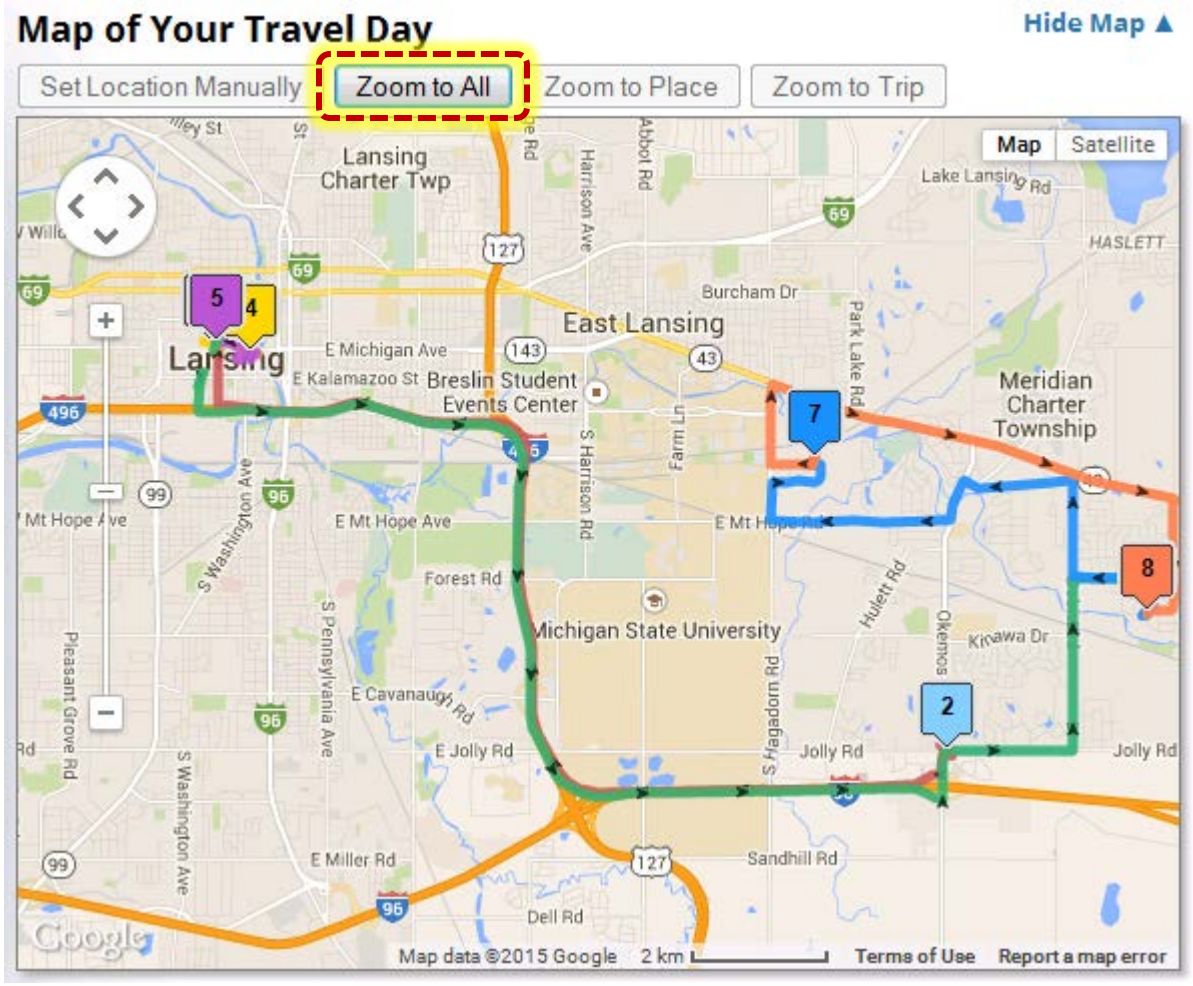
Add New Place at End | Insert New Place Before
Remove Current Place | Insert New Place After

3

This is the list of places you visited on your travel day, from morning till night. It will start with the information received from your GPS device and updates automatically as you confirm and add stops you made.

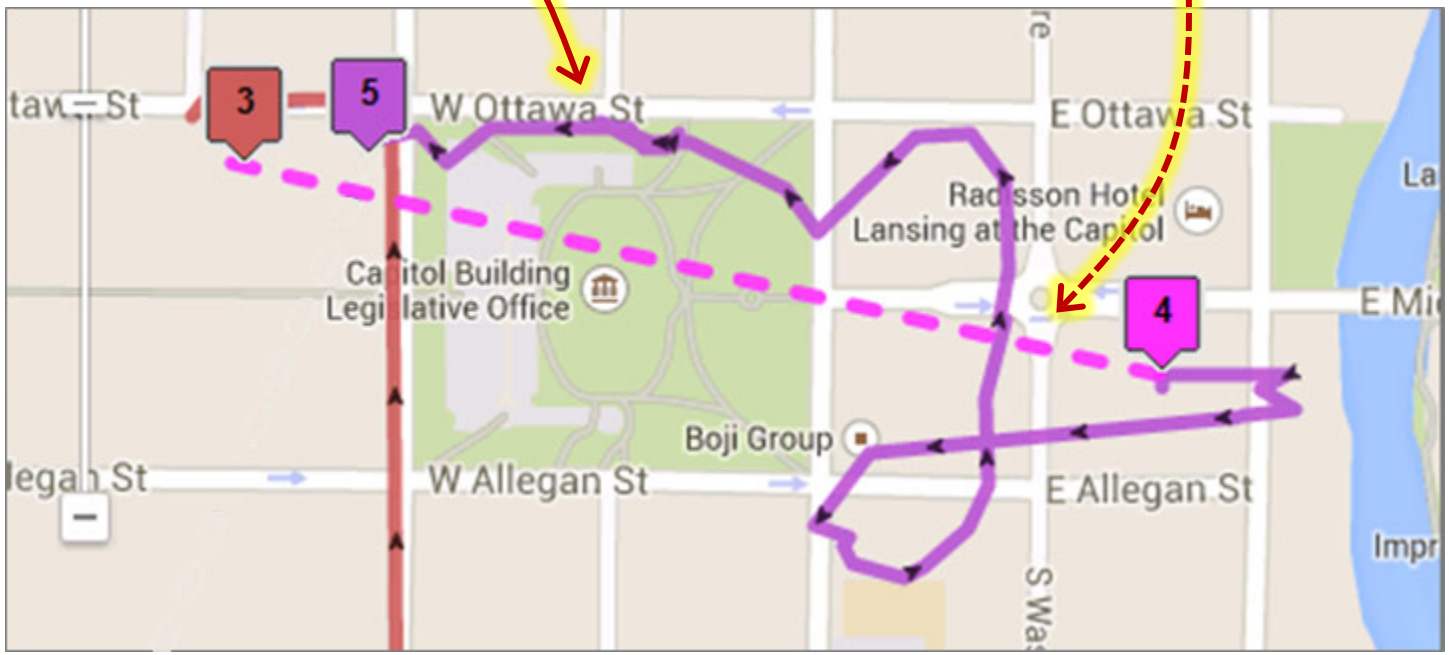
Review your GPS Data

- A good first step is to look at what the GPS device detected.
- To see your whole travel day, click **Zoom to All** above the map.
- Most of the places should be accurate; some may not be. We'll show you how to correct these errors.
- The next step is to tell us about each place you visited, starting with the first place.



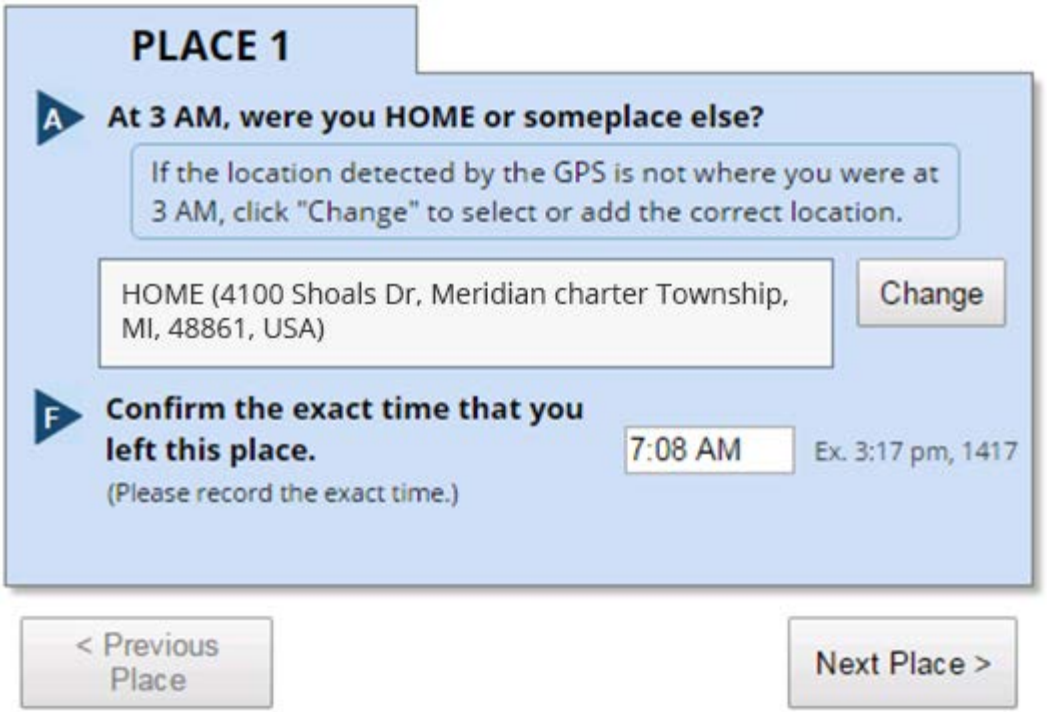
Understanding the GPS lines

- A **solid** line shows you the path you took using the GPS data. The small arrows tell you the direction of travel.
- For example, the purple line shows the walk this person took from Place 4 to Place 5.
- A **dashed line** is shown when the system "fills in" information that is missing from the GPS data. (Such lines are always straight and don't represent the actual path taken.)
- For example, there is no GPS information available for how the person traveled between Place 3 and Place 4 below.



Reporting your travel, starting with Place 1

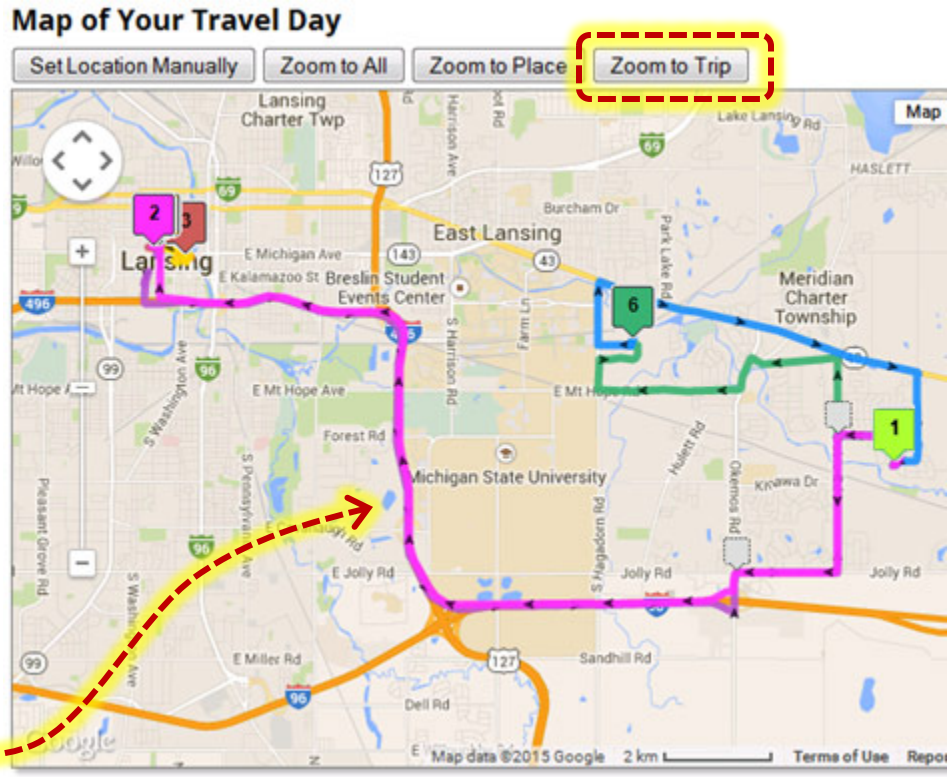
- Place 1 is where you were at 3 am on your travel day. This is typically Home.
- The location for place 1 may not be exactly at your house because GPS devices often don't start recording for a few minutes after you turn them on. If that's the case, click **Change** and select "HOME" from the list.
- If you were elsewhere at 3 am, we'll show you how to specify other locations shortly.



- In **Section F,** review the time that you left your starting location. For most people, this means when did you leave home that morning?

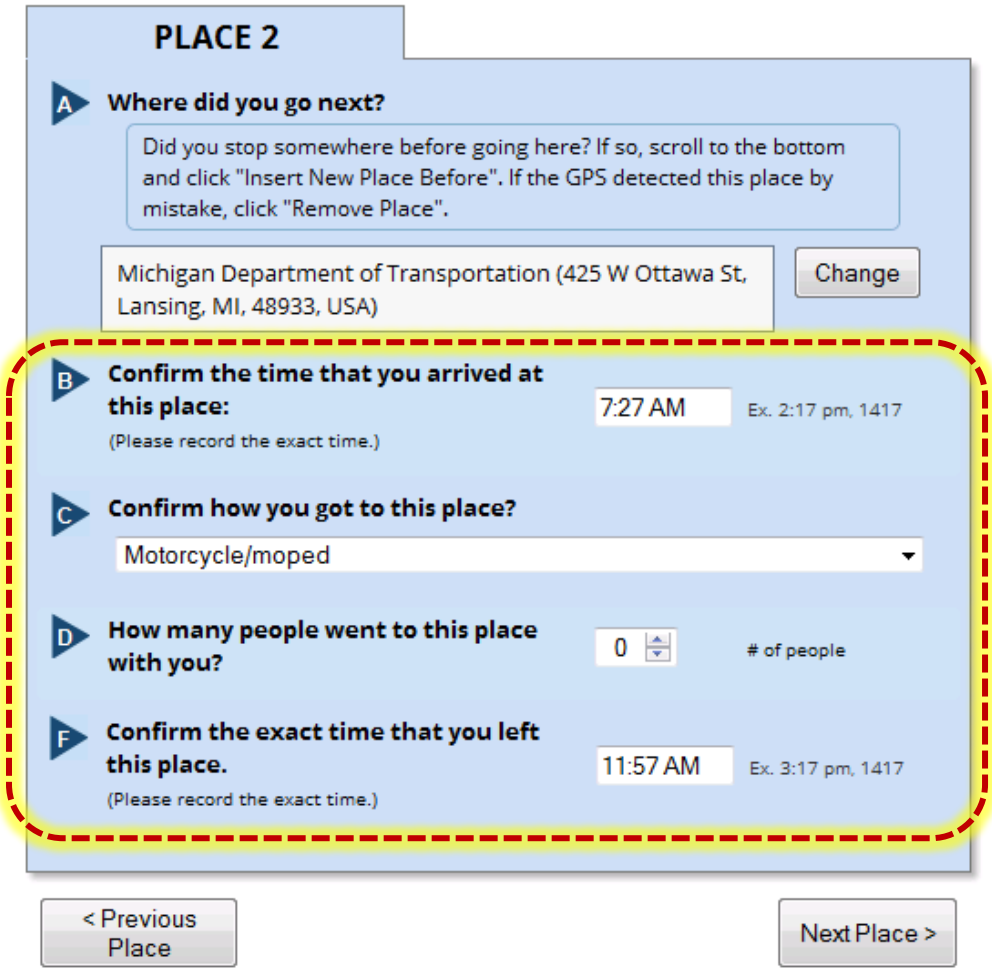
Reviewing Place 2

- Now it's time to review the next place you visited: Place 2. Click the **Next Place >** button.
- Look at the place on the map. The system designates places wherever you stop for two or more minutes.
- Click **Zoom to Trip**, above the map, to see the journey you took from Place 1 to Place 2. The trip to the current place is **pink**.
- If the system detects you stopped at your work (or another known place), it will mark it automatically.



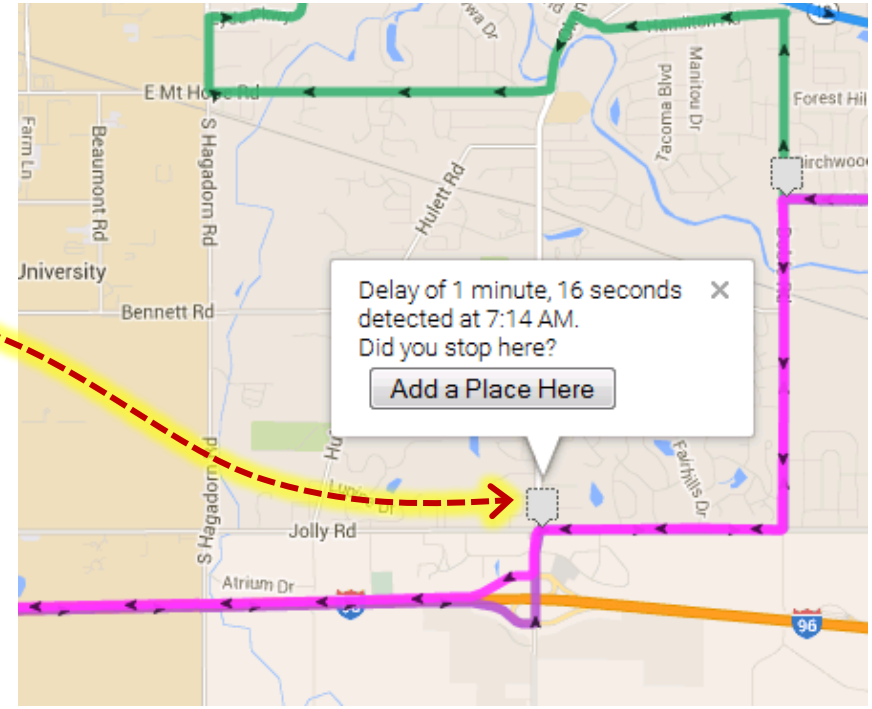
Confirming details about your visit

- If the location is correct, now it's time to confirm the details about your visit to this place.
- Verify the time it recorded you arrived here in **Section B**. Correct if necessary.
- Specify how you traveled here in **Section C**.
- If others were with you, mark the number in **Section D**.
- Verify the time it recorded you left here in **Section F**.
- *FYI, **Section E** from the Travel Log will be shown in a later step.*



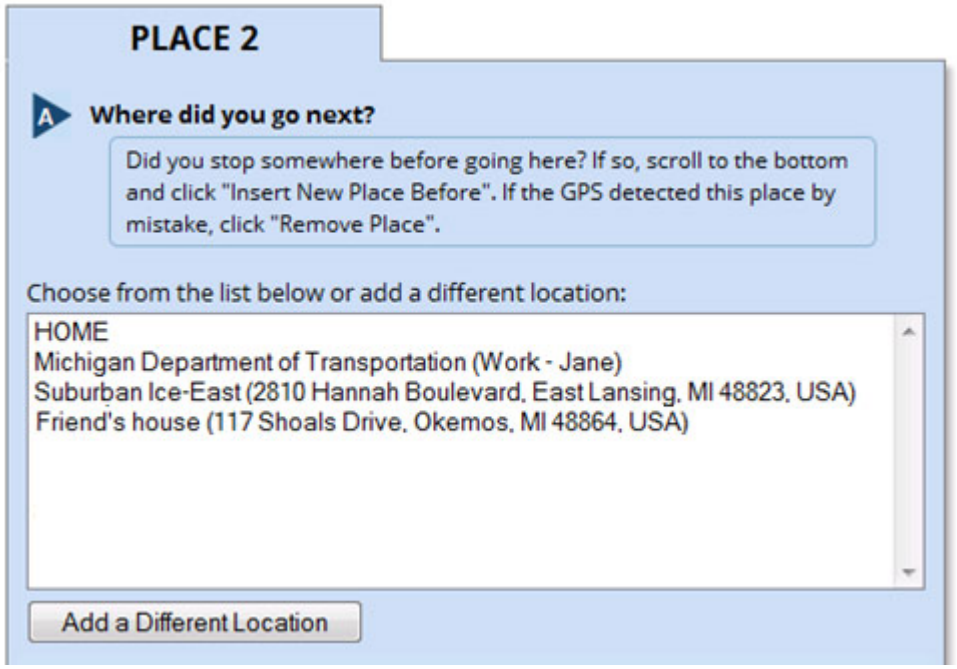
Adding additional places

- The GPS device may not have marked a place everywhere you stopped.
- If you know you stopped somewhere along the way to another place, look for a gray ***Delay Marker***.
- Clicking on the Delay marker shows how long you stopped there (e.g., for 1 min 43 sec).
- Perhaps you made a quick stop to pick someone up or drop someone off.
- To add a new place, click the **Add a Place Here** button. It will insert a place in your online travel log at this point in time.
- Now you have to provide information about this place. (See next page.)



Setting the location

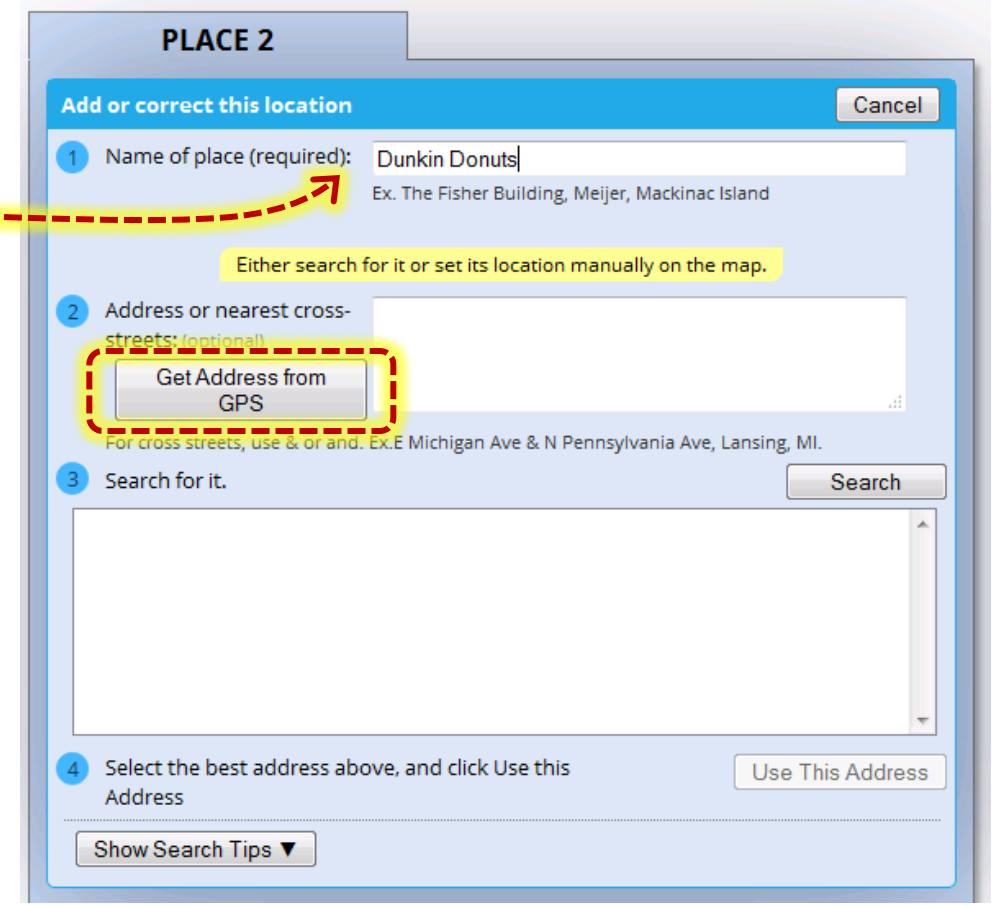
- After you add the new place, you have to report what this place is.
- If it's a location you're already visited or someone else in your family visited, choose it from the list.



- If this is a location you haven't told us about before, click the **Specify a Different Location** button to add a new location. *See the next page…*

Adding new locations

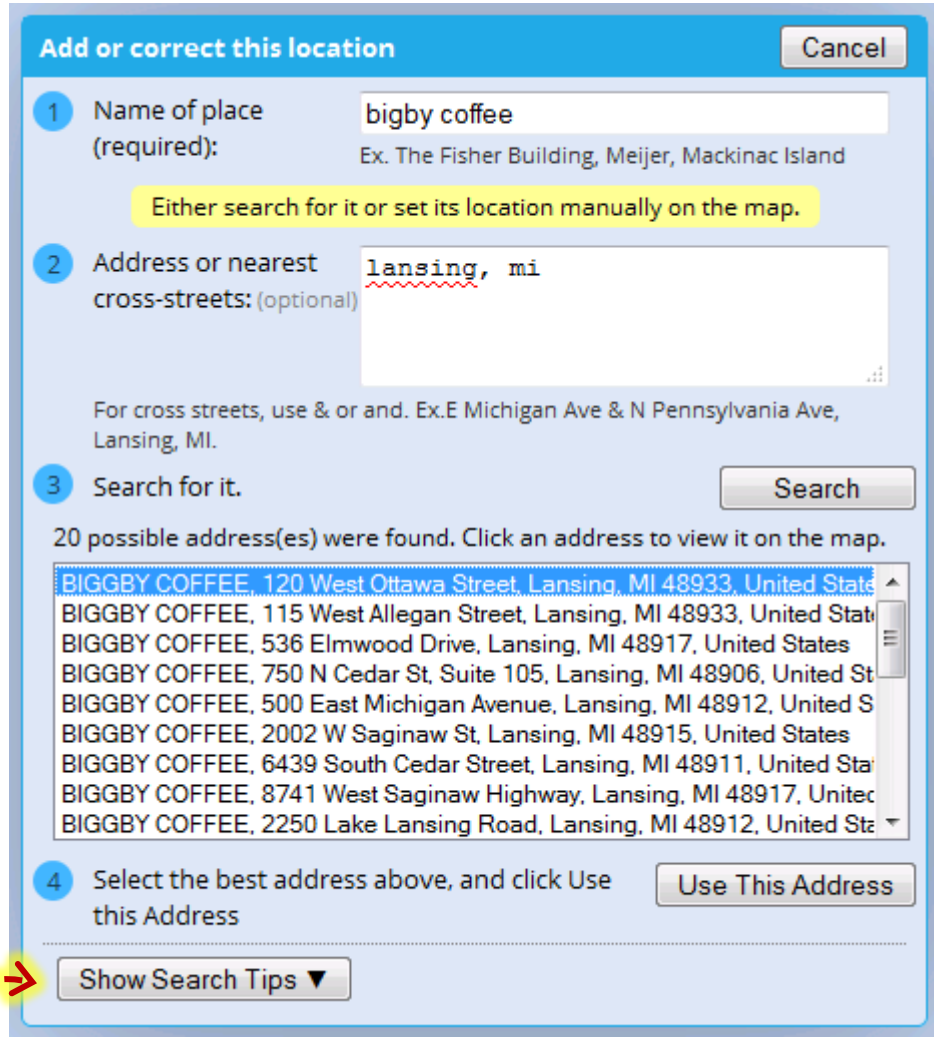
- In box ①, specify the name of this location, such as Dunkin' Donuts, bus stop, Target, etc.
- In box ②, click the **Get Address from GPS** button, if present, to have the system calculate the likely address using the GPS data.
- The address the system returns may differ from your expectations. This is OK.
- If **Get Address from GPS** is disabled or not present, enter as much of the address as you know and click **Search**. *See the next page…*



Is the marker on the map in the wrong place?
Once you specify a name for the location, you can adjust the marker on the map. Click "Edit Location", and then drag the marker to where it should be. Moving the marker will automatically update the address.

Finding the new location on the map

- If you have to find address manually because the Get Address from GPS button is absent, enter as much of the address as you know and click **Search**.
- Suppose you went to a coffee shop called "**Biggby Coffee**". Type that into the "Name of place" box. Add the street name if you know it, plus the city and state, and click Search.
- The search results will appear in the box below the search button and on the map.
- Once you find the right address, select it and click **Use This Address**. It'll zoom to it on the map.
- Can't find it? Click Show Search Tips.



A few search tips

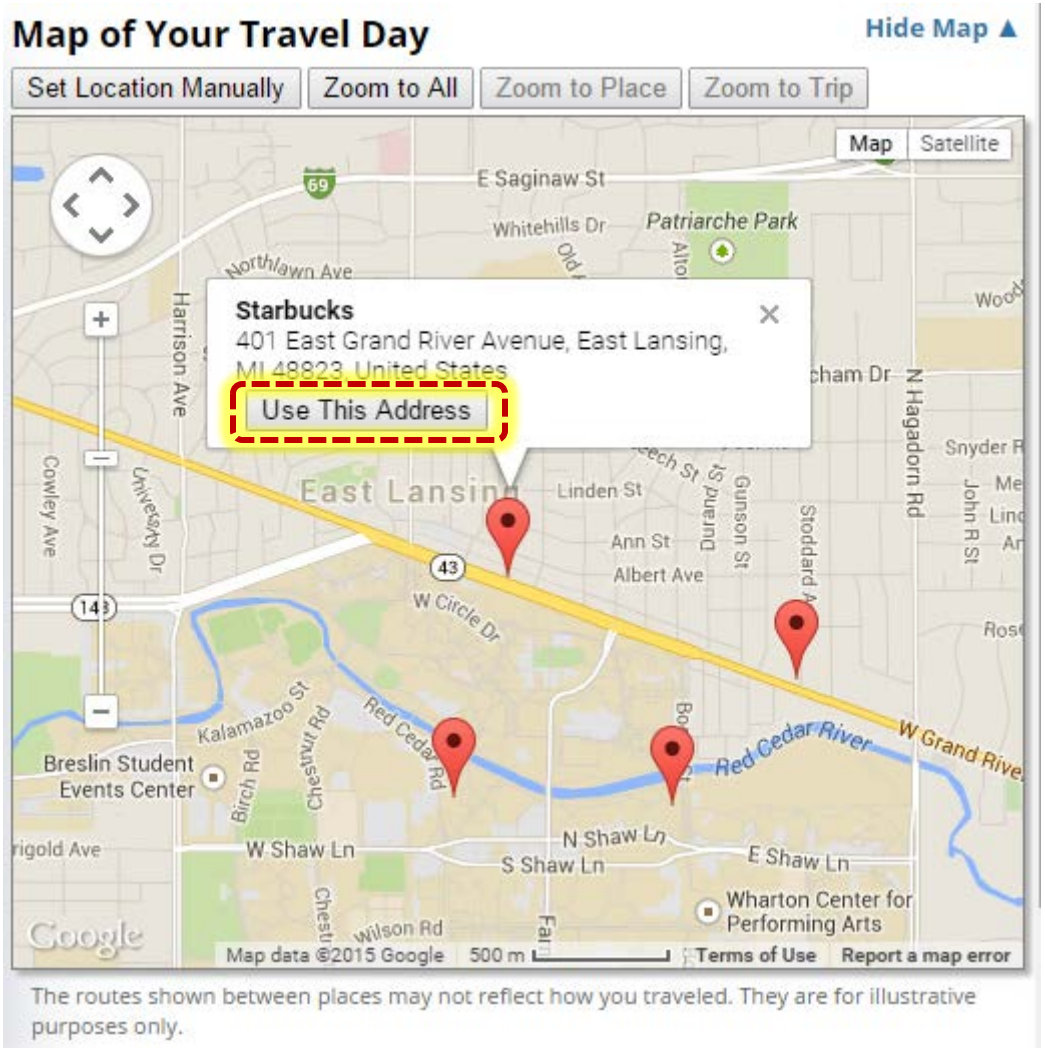
Search Tip #1 – Find the location by clicking the map marker

Not sure which address is the right one?

After you do a search, you'll see markers on the map with possible locations.

Click on a map marker to view the location's address.

When you find the location you're looking for, click the **Use This Address** button.

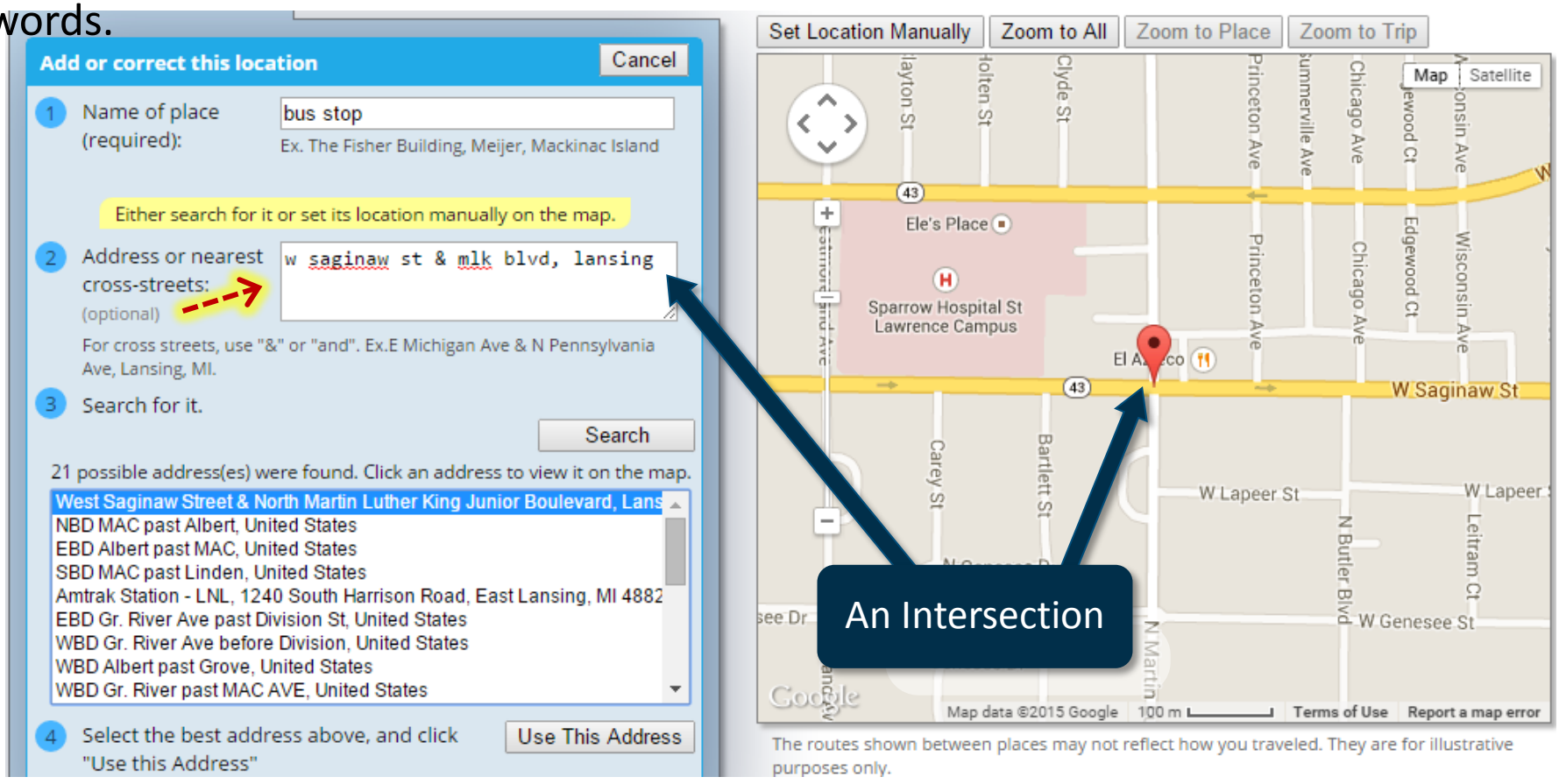


Search Tip #2 – Find the closest intersection (cross-streets)

Having trouble finding the location you're looking for?

Report the intersection closest to the place you went.

To enter the cross-streets, use "&" or "and", such as **W Saginaw St & MLK Blvd**. Search uses Google and returns locations even if you misspell or abbreviate words.

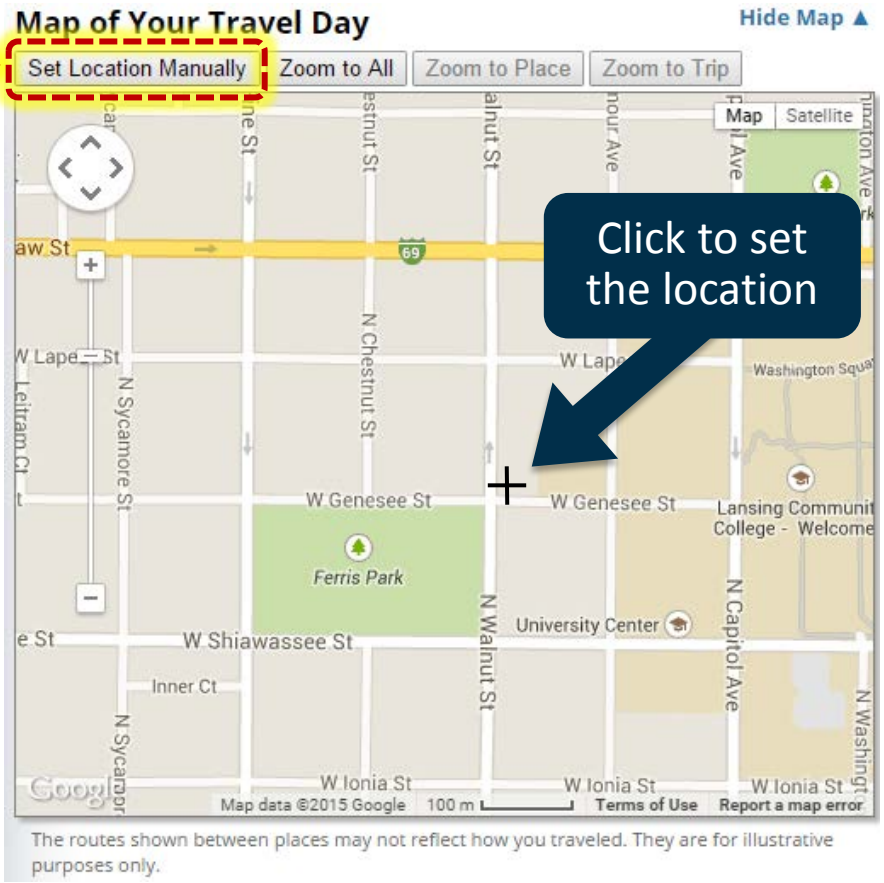


The routes shown between places may not reflect how you traveled. They are for illustrative purposes only.

Search Tip #3 – Set the location manually on the map

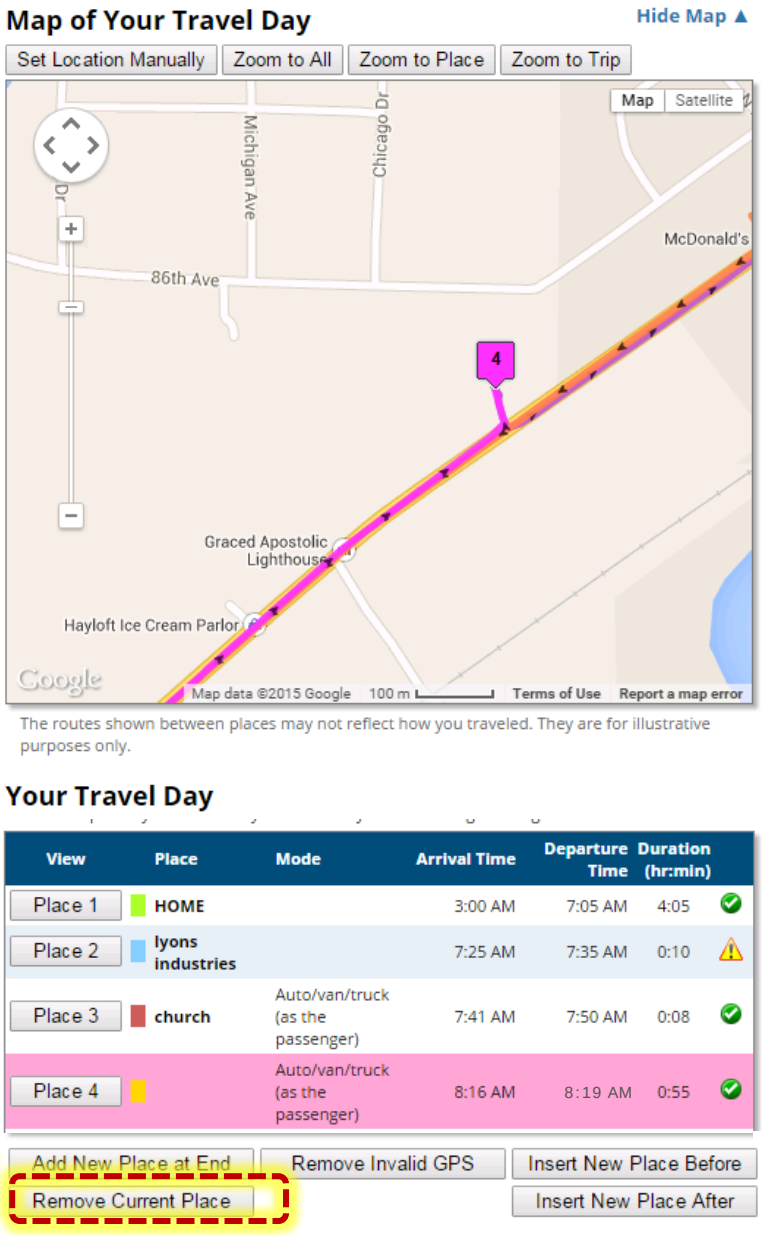
Rather use the map to find the place you went?
It's easy to set it directly on the map.

1. Type a name in the **Name of place** box (e.g., bus stop, Gregg's house, Park Road overlook, etc.) **A name is required.**
2. Zoom and pan around the map until you see the place you want to mark.
3. Click the **Set Location Manually** button above the map.
4. Then click on the map where the place is.
5. A marker will appear on the map and estimate an address for the location.
   NOTE: The estimated address may be different from what you expect. This is OK.
6. You can drag the marker to adjust the location. The marker will move close to where you let go.
   The marker doesn't have to be exact.



Removing invalid stops

- Sometimes the GPS data will identify places that were not actual stops you made, but just delays in your travel, such as a long stop light or construction delay.
- Click **Remove Place** if you didn't stop at a place listed in the online travel log. This will remove this place from your online travel log and delete the associated marker on the map.



TIP: If you make a mistake at any time, click "Undo" in the top right.

Did you take a bus or train? Here's how to report transit trips...

Report each place you got on and off public transportation as a separate place.

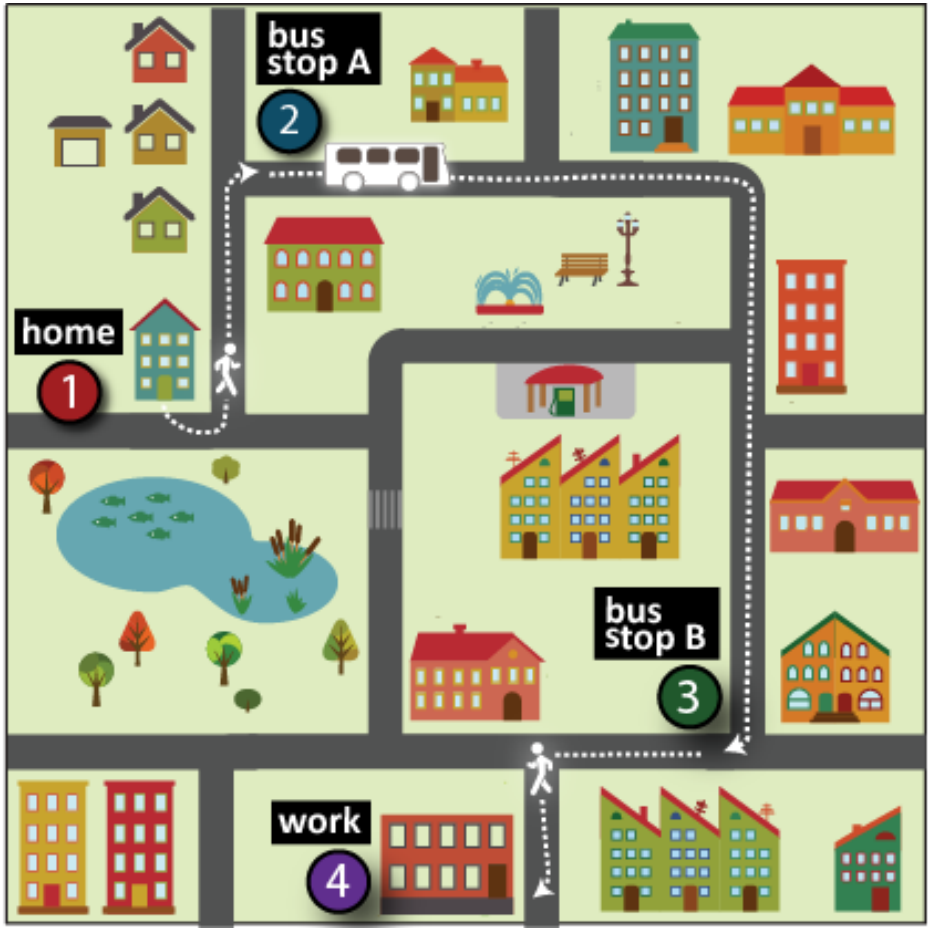
For example, Joe takes the bus to work.

He starts at Place 1, home.

Walks from home to Place 2, bus stop A.

Takes a bus from bus stop A to Place 3, bus stop B.

Walks from bus stop B to Place 4, work.



Did you go for a jog, walk the dog, or take a drive without making any stops along the way?

Be sure to report trips that start and end at the same place.

For example, Sue goes for a run after work.

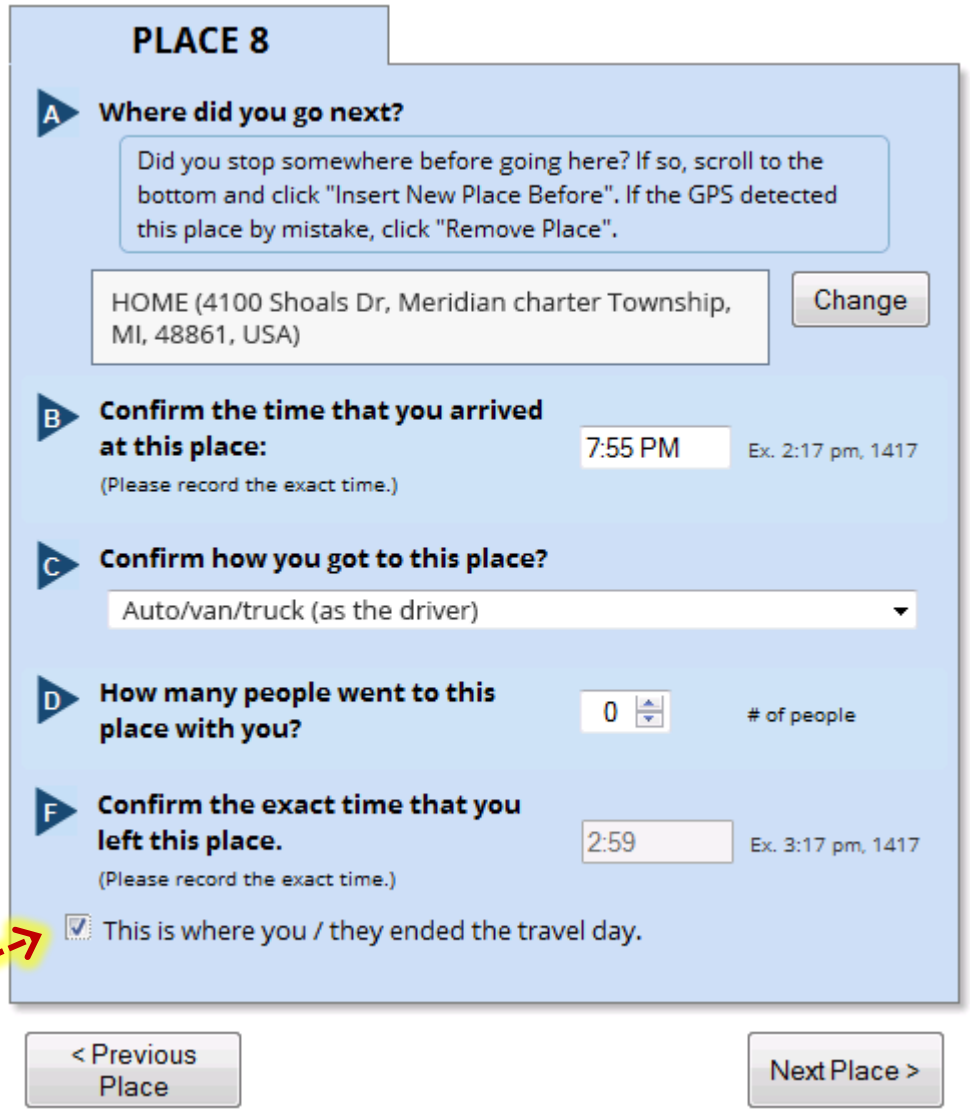
...

She drives from work to Place 7, home.

Walks/jogs from home back to Place 8, home.

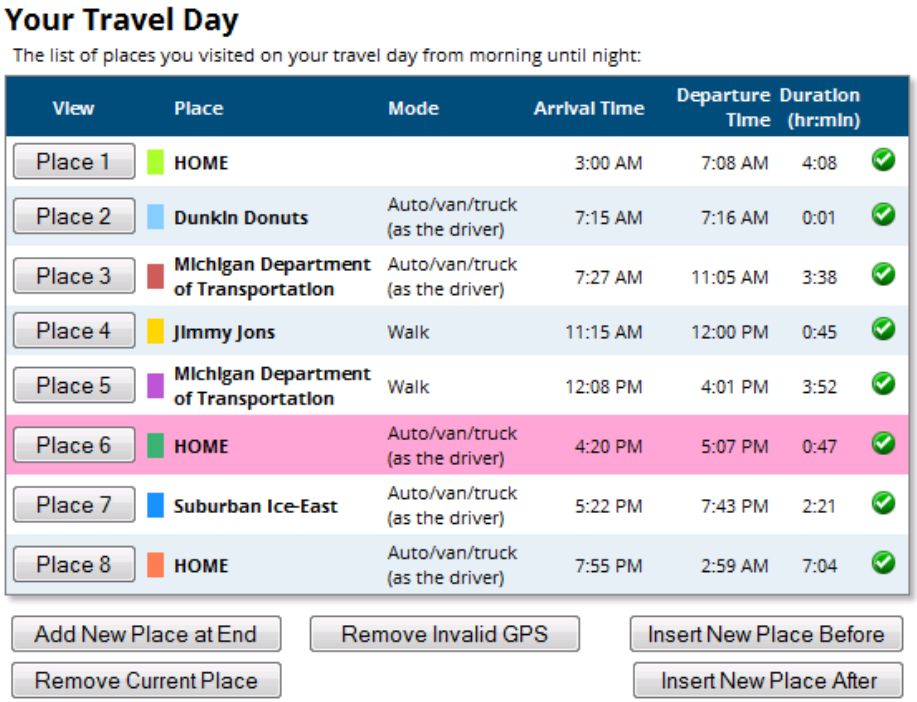
Repeat until done

- Repeat the above process for each place you visited on your travel day.
- The last place of the day is where you stayed for the evening, at least until 3 am the next day. For most people, this will be Home.
- Below the "What time did you leave this place?" question, click the box for "This is where you/they ended the travel day." (The time you left box will be automatically filled with 2:59 AM.)



Review your travel day

As you complete the survey, we've been building "Your Travel Day" list. Before leaving this page, take a minute to review it and make sure you have told us about all the places you went.



Anything missing?

- Green check means all information is entered for this place.
- Yellow yield sign means one or more pieces of information is missing for this place.

To correct a place or details about a place

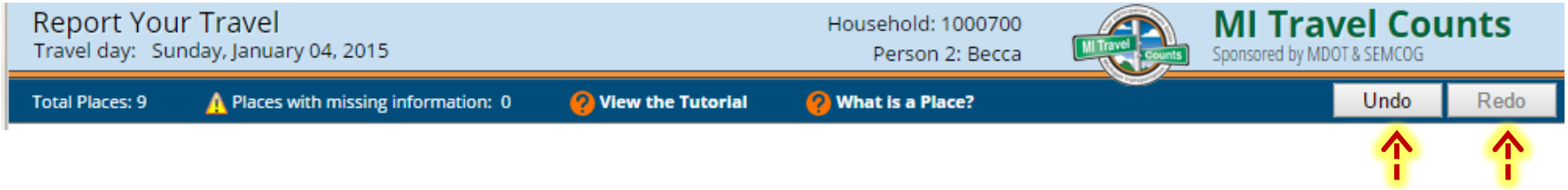
Click on the **Place # buttons** to return you to that place so you can make updates.

Need to add a place?

Use the buttons below Your Travel Day list to add new places to the list.

Make a mistake? No worries.

Click the **Undo** button in the top-right to undo changes you've made.



Done adding places?

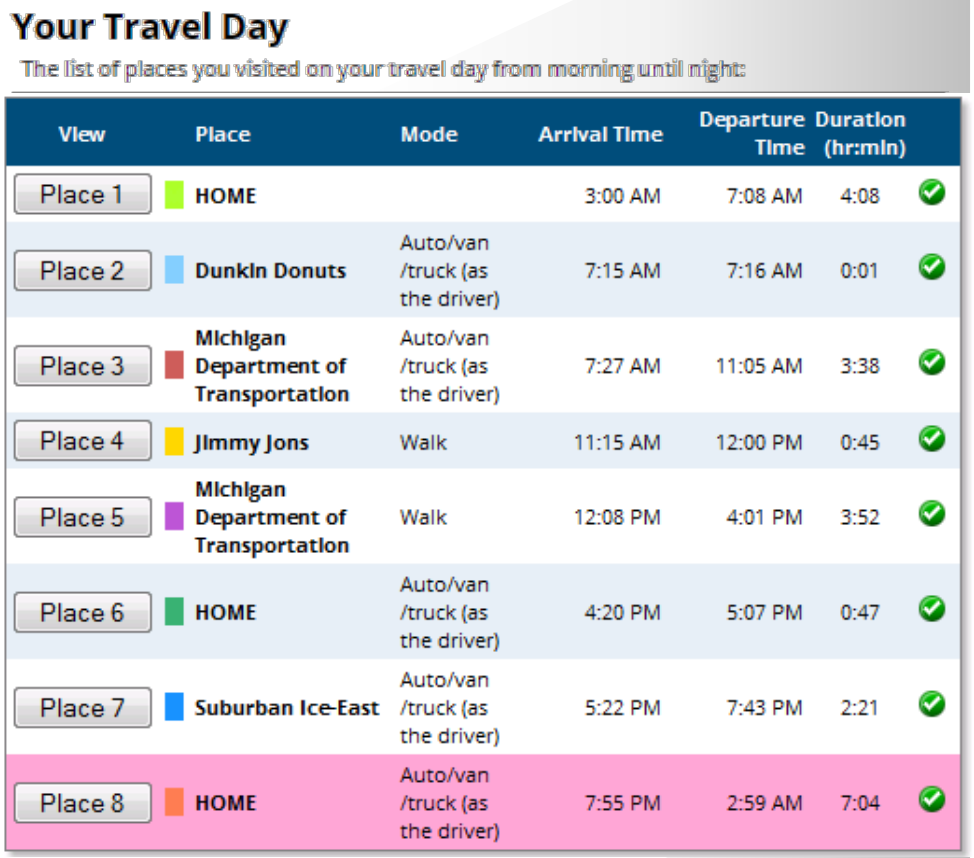
Click the **Continue** button at the bottom of the page. If you left out any information, you will see a message like this:

Look for the places marked with a yield sign ⚠ in the "Your Travel Day" list to identify which places need to be fixed. Click the place # buttons (e.g., "Place 4") to view and correct the information about a place.

If all the information is provided, click Continue to proceed to the final part of the survey.

Example Online Travel Log

Here's an example of one person's travel day:



Your Travel Day

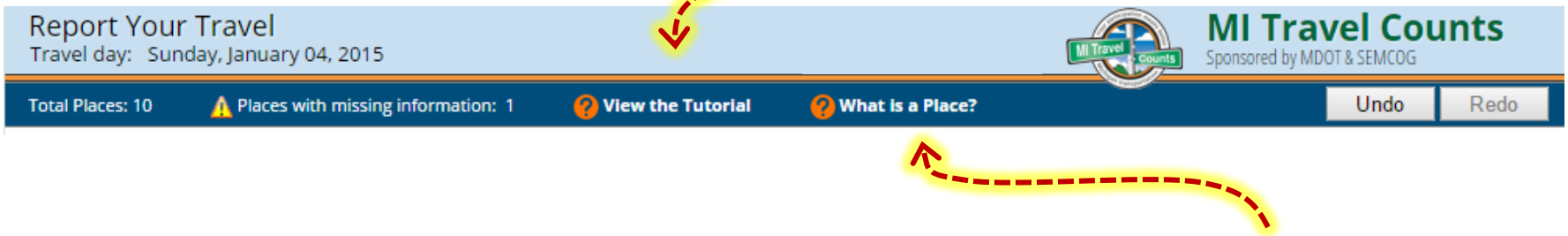
The list of places you visited on your travel day from morning until night:

View	Place	Mode	Arrival Time	Departure Time	Duration (hr:min)	
Place 1	HOME		3:00 AM	7:08 AM	4:08	✓
Place 2	Dunkin Donuts	Auto/van /truck (as the driver)	7:15 AM	7:16 AM	0:01	✓
Place 3	Michigan Department of Transportation	Auto/van /truck (as the driver)	7:27 AM	11:05 AM	3:38	✓
Place 4	Jimmy Jons	Walk	11:15 AM	12:00 PM	0:45	✓
Place 5	Michigan Department of Transportation	Walk	12:08 PM	4:01 PM	3:52	✓
Place 6	HOME	Auto/van /truck (as the driver)	4:20 PM	5:07 PM	0:47	✓
Place 7	Suburban Ice-East	Auto/van /truck (as the driver)	5:22 PM	7:43 PM	2:21	✓
Place 8	HOME	Auto/van /truck (as the driver)	7:55 PM	2:59 AM	7:04	✓

	Description
1	Dawn started her day at home. She left to go to work at 7:08 am.
2	On her way to work, she picked up a co-worker at Dunkin' Donuts at 7:15 am and left 1 minute later.
3	Dawn then drove to work (MDOT), arriving at 7:27 am. At 11:05 am she took a lunch break.
4	For lunch, she walked to Jimmy Jons and arrived at 11:15 am. She ate lunch and then left at 12:00 pm.
5	Dawn walked back to work, arriving at 12:08 pm and stayed until 4:01 pm.
6	She drove home, arriving at 4:20 pm and stayed there until 5:07 pm.
7	Then, Dawn drove to Suburban Ice-East, arriving at 5:22 pm. She left at 7:43 pm to go home.
8	She then returned home, arriving at 7:55 pm. arrived home at 6:44 pm and left at 7:05 pm to take the dog for a walk.

That's it!

To return to this tutorial at any time, click the **View the Tutorial** link at the top of the screen.



For a quick reminder about places and what to report, click "What is a Place?"

To begin reporting your travel, click the **Continue** button below.

MI Travel Counts
Sponsored by the Michigan Department of Transportation & Southeast Michigan Council of Governments

Need more help? Click **Contact Us** or call us toll free at **1-855-774-1800**.

Monday - Friday	9:00 am – 9:00 pm ET
Saturday	10:00 am – 6:00 pm ET
Sunday	2:00 pm – 9:00 pm ET

SCRAP

Don't worry if the map makes it look like you took a road that you didn't. It always shows the most direct (shortest) route between two places.

Appendix FF

Retrieval Script (Web)

MTCIII / STC15 Household Travel Survey: WEB Retrieval Script FINAL August 2015

General Documentation Notes:

- Numbered orange heading lines indicate a new screen
- Blue heading lines indicate a new variable or skip logic
- "Type" indicates the type of variable that will be collected
    - SelectSingle – Select one option from list provided
    - SelectMultiple – Select multiple option from list provided
    - NumberEntry – Number field within the range provided
    - TextEntry – Open text field
    - CalendarDropDown – Select a date from a calendar provided
    - Computed- Calculate variable used in recalls
- ProgrammerNote provides the logic for when the question will be presented
- In CATI instruments, the text in ALL CAPS is for instruction to the CATI interviewer and is not to be read out loud
- RECALLS are used to display respondent dependent text (e.g., he/she or a name)
    - A list of all the recalls used are found at the end of the document
- Exit interview language (e.g. thank you screens) are found at the end of the document
- Travel day reminder and re-contact screens are found at the end of the document

RETRIEVAL

1. PILOTSAMP_RET

PILOTSAMP_RET

TYPE: computed

CASE WHEN R_GROUP=1001 THEN 1

ELSE 2 END

BRANCH	CODE
PHASE1RET_SET	1
INOUT	2

2. PHASE1RET_SET

INT_PHASE1RET_SET

TYPE: Calculated
ProgrammerNote: If the HH was sampled for the pilot (R_GROUP=1001) set disposition to "Invalid Release Group" (608). A response to INT_PHASE1RET will overwrite INT_PHASE1RET_SET.
QASKEDIF:

=608

3. PHASE1RET

INT_PHASE1RET

TYPE: SelectSingle
ProgrammerNote: Asked if HH was sampled for the pilot (R_GROUP=1001)
QASKEDIF:

Welcome back to the MI Travel Counts survey. The first phase of the survey is now closed.

If you have questions about the survey or would like more information, please click on the contact us tab to send us an email or call 1-855-774-1800

ATEXT	AVALUE
Exit the survey	608

1. INOUT

```
CASE  WHEN initiationmode='CATI' AND in_out =1 AND FINALGFLAG<>1 THEN 1
WHEN initiationmode='CATI' AND in_out=2 AND FINALGFLAG<>1 THEN 2
WHEN initiationmode='WEB' AND FINALGFLAG<>1 THEN 3
WHEN GFLAG=1 THEN 4
ELSE 5
END
```

ATEXT	AVALUE
Okay, I now have the survey up… Next, I will	1
Hello, this is [INTERVIEWER NAME] calling on behalf of the MI Travel Counts Survey. Your household was asked to take part in our survey about daily travel. I'm calling to collect the details of your travel… Next, I will ask you to provide details about trips and activities recorded on your travel day ([$NTRIPDATE]) for each person in your household.	2
Welcome back to the MI Travel Counts household travel survey. Next, we will ask you to provide details about trips and activities recorded on your travel day ([$NTRIPDATE]) for each person in your household.	3
Welcome back to the MI Travel Counts household travel survey. Next, we will ask you to confirm the details about trips and activities recorded by your GPS devices on your travel day ([$NTRIPDATE]) for each person in your household.	4

TBBUTVAR2

```
CASE
WHEN initiationmode='WEB' AND FINALGFLAG <> 1 THEN 1
WHEN initiationmode='WEB' AND FINALGFLAG = 1 THEN 2
ELSE 3
END
```

ATEXT	AVALUE
Some tips for reporting your trips: If you took transit, be sure to record each stop as a distinct place. For example, record the stop where you caught the bus, each transfer point, and the stop where you got off the bus as distinct places. Walk or bike trips that start and end in the same place are trips too! For example, if you took the dog for a walk, went for a run, or went for a bike ride in the neighborhood without stopping anywhere else, you should record it as a trip from home to home and the activity as exercise or recreation. After reporting all the places you went on your travel day use the summary on the bottom right of the page to review all the information you just reported.	1
Some tips for reporting your trips: • If you took transit, be sure to record each part of your trip as a distinct place. For example, record the stop where you caught the bus as one place and the stop where you got off the bus as another place. • Walking trips that start and end in the same place are trips too! Whether you are taking the dog for a walk or jogging for exercise, you should record the trip. This may seem a little odd, but a "walking the dog" trip would be recorded as a LOOP TRIP and the activity would be recorded as Outdoor exercise or recreation. In the next step, you'll view each place you visited on a map. It is possible that the GPS did not capture all of the places you visited on your day. If a place is missing, you can add the place using the 'INSERT PLACE' buttons. The system uses Google Maps and you'll search for each place by name or address. If you have trouble finding the exact address, click "Show Search Tips" for help.	2
	3

2. TBBUT

TBBUT

TYPE: SelectSingle
ProgrammerNote: Always Displayed
QASKEDIF:

[$TBBUTVAR] ask you to provide details about trips and activities recorded on your travel day ([$NTRIPDATE]) for each person in your household. Be sure to refer to each person's paper Travel Log.

[$TBBUTVAR2]

ATEXT	AVALUE
Click NEXT to Continue	100

3. ADDCHECK_RET

HGEOCODE2

TYPE: GeoCodeAddress
ProgrammerNote: Asked if web RET, not a GPS household and sampled address is not matched to a point or street address (INITIATIONMODE=WEB AND FINALGFLAG<>1 AND MATCHSTATUS NOT IN [MP,MA]). Write address to TBW.
QASKEDIF:

Because this is a survey about where and how people travel, we need to record the physical address of your home. Click search, select the best match from the list in Step 3 below and then confirm the location on the map.

If the locations that come up are not close to your home address you can use "Set Location Manually" to place the location on the map.

4. SelectPerson

SELECTPERSON1

TYPE: DropDown
ProgrammerNote: Always Asked
QASKEDIF:

We need to know if people are reporting their own travel or someone else's travel. Please select **your** name from the drop down list below:

ATEXT	AVALUE
LIST OF PEOPLE 16 OR OLDER	

SELECTPERSON2

TYPE: DropDown
ProgrammerNote: Always Asked
QASKEDIF:

Whose travel are you about to report?

CHOOSE THE PERSON BELOW FOR WHOM YOU WANT TO REPORT TRAVEL:

ATEXT	AVALUE
LIST OF ALL HH MEMBERS	

5. TBW

LOCNAME

TYPE: SelectSingle
ProgrammerNote: Always Asked
QASKEDIF:

FOR PLACE 1: At 3:00 AM [WERE_YOU] at home or someplace else?

FOR PLACE>1: Where did [$YOU] go [FIRST_NEXT]?

CHOOSE FROM THE LIST BELOW OR ADD A DIFFERENT LOCATION:

LOCARRTIME

TYPE: NumberEntry
FORMAT: H:MM AMPM
ProgrammerNote: Asked if respondent reports going to at least 1 place (PLACENO>1)
QASKEDIF:

What time did [$YOU] arrive at this place?

(Please record the exact time.)

ATEXT	AVALUE
ENTER TIME	HH:MM

MODE

TYPE: SelectSingle
ProgrammerNote: Asked if respondent reports going to at least 1 place (PLACENO>1)
QASKEDIF:

How did [$YOU] get to this place?

ATEXT	AVALUE
Walk	1
Bicycle	2
Motorcycle/moped	3
Auto / van / truck (as the driver)	4
Auto / van / truck (as the passenger)	5
Carpool/vanpool	6
School bus	7
Public transit – local bus	8
Dial-a-ride/paratransit	9
Private bus or shuttle	10
Taxi/limo	11
Train/Amtrak	12
Detroit People Mover	13
Airplane	14
Boat/ferry	15
Something Else	97
I prefer not to answer	-7
I don’t know	-8

MODE_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to MODE (MODE=97)
QASKEDIF:

If you said something else, please provide details.

TOTTR

TYPE: TextEntry
RANGE: 0-12
ProgrammerNote: Asked if respondent reports going to at least 1 place (PLACENO>1). No default value.
QASKEDIF:

How many people went to this place with [$YOU]?

HHMEM

TYPE: SelectMultiple
ProgrammerNote: Asked if household size is greater than one and respondent reports traveling with at least one person (HHSIZ>1 and TOTTR>=1). If HHSIZ=1 code HHMEM=0
QASKEDIF:

If any of those people were members of your household please select them from the list.

LOCDEPTIME

TYPE: NumberEntry
FORMAT: H:MM AMPM
ProgrammerNote: Always asked
QASKEDIF:

What time did [$YOU] leave this place?

(Please record the exact time.)

ATEXT	AVALUE
ENTER TIME	HH:MM

Didn't leave this place. This is where {$YOU] ended the travel day.

6. TPURP

TPURP

TYPE: SelectSingle
ProgrammerNote: Always asked. AVALUEs should be displayed in both CATI and WEB versions. Place choices in two columns with the second column starting with SOCIAL ACTIVITIES.
QASKEDIF:

What was [$YOUR] main activity at this place?

ATEXT	AVALUE
Home activities	***$$***
Typical home activities	1
Working at home (paid)	2
Work, school & volunteer	***$$***
Work at fixed work location	3
Work at non-fixed work location	4
Work related (off-site meeting)	5
School/studying	6
Volunteering	7
Shopping & errands	***$$***
Major purchase shopping (appliances, cars, home furnishings)	8
Other routine shopping (grocery, clothing)	9
Drive-thru food or errands	10
Vehicle service (gas, maintenance)	11
Health care visit	12
Other non-shopping errands	13
Social activities	***$$***
Eat out	14
Socialize with friends/relatives	15
Religious or community event	16
Exercise or recreation	17
Attend major special event	18
Travel-related activities	***$$***
Drop off/pick up passenger	19
Change travel mode/transfer	20
Other activities	***$$***
Something else	97
I prefer not to answer	-7
I don’t know	-8

TPURP_O
TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to TPURP (TPURP=97)
QASKEDIF:
If you said something else, please provide details.

7. TPURP2

TPURP2
TYPE: SelectSingle
ProgrammerNote: Asked if respondent supplies an actual trip purpose (TPURP>0). AVALUEs should be displayed in both CATI and WEB versions. Place choices in two columns with the second column starting with SOCIAL ACTIVITIES.
QASKEDIF:
And what else did [$YOU] do at this place?

ATEXT	AVALUE
Nothing else	0
Home activities	***$$***
Typical home activities	1
Working at home (paid)	2
Work, school & volunteer	***$$***
Work at fixed work location	3
Work at non-fixed work location	4
Work related (off-site meeting)	5
School/studying	6
Volunteering	7
Shopping & errands	***$$***
Major purchase shopping (appliances, cars, home furnishings)	8
Other routine shopping (grocery, clothing)	9
Drive-thru food or errands	10
Vehicle service (gas, maintenance)	11
Health care visit	12
Other non-shopping errands	13
Social activities	***$$***
Eat out	14
Socialize with friends/relatives	15
Religious or community event	16
Exercise or recreation	17
Attend major special event	18
Travel-related activities	***$$***
Drop off/pick up passenger	19

ATEXT	AVALUE
Change travel mode/transfer	20
Other activities	***$$***
Something else	97
I prefer not to answer	-7
I don't know	-8

TPURP2_O
TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to TPURP2 (TPURP2=97)
QASKEDIF:
If you said something else, please provide details.

8. HHVEH_USED

HHVEH_USED
TYPE: SelectSingle
ProgrammerNote: Asked if household reports owning a vehicle and MODE was car, motorcycle or carpool (HHVEH>=1 AND MODE IN (3,4,5,6,97))
QASKEDIF
Was a vehicle from your household used for this trip?

ATEXT	AVALUE
Yes	1
No	2
I prefer not to answer	-7
I don't know	-8

9. TRIP_LENGTH

TRIP_LENGTH
TYPE: SelectSingle
ProgrammerNote: Asked if a trip took an unreasonable amount time for the distance and mode, not asked of 1st place OR walk/bike trips for recreation/exercise (PLACENO>1 AND NOT (MODE IN [1,2] AND (TPURP IN [17] OR TPURP2 IN [17])))
QASKEDIF:

Did it take longer than usual to get to this place?

ATEXT	AVALUE
Yes	1
No	2
I prefer not to answer	-7
I don't know	-8

10. TRIP_LENGTH2

LONG_TRIP_REASON
TYPE: SelectSingle
ProgrammerNote: Asked if a trip took an unreasonable amount time for the distance and mode, not asked of 1st place OR walk/bike trips for recreation/exercise (PLACENO>1 AND NOT (MODE IN [1,2] AND (TPURP IN [17] OR TPURP2 IN [17])))
QASKEDIF:

[$LONG_TIME]

Which of the following best describes why the trip took as long as it did?

ATEXT	AVALUE
Weather (e.g., rain or snow)	1
Construction	2
An accident	3
Traffic congestion	4
Something else	97
I prefer not to answer	-7
I don't know	-8

LONG_TRIP_REASON_O
TYPE: TextEntry
ProgrammerNote: Asked respondents responds Other, Specify to LONG_TRIP_REASON (LONG_TRIP_REASON=97)
QASKEDIF:

If you said something else, please provide details.

11. NOGO

NOGOWHY

TYPE: SelectSingle
ProgrammerNote: Respondent reported 0 trips (MAX PLACENO=1)
QASKEDIF:

What was the main reason that [$YOU2] did not go anywhere on [$YOUR] travel day?

ATEXT	AVALUE
Personally sick	1
Vacation or personal day	2
Caretaking	3
Home-bound elderly or disabled	4
Worked at home (for pay)	5
Not scheduled to work	6
Worked around home (not for pay)	7
Out of area	8
No transportation available	9
No longer a household resident	10
Something else	97
I prefer not to answer	-7
I don't know	-8

NOGOWHY_O

TYPE: TextEntry
ProgrammerNote: Respondent responds Other, Specify to NOGOWHY (NOGOWHY=97)
QASKEDIF:

If you said something else, please provide details.

12. LOGCOMPLETE

CPLOG

TYPE: SelectSingle
ProgrammerNote: Always asked
QASKEDIF:

[$CPLOG_RECALL]

ATEXT	AVALUE
Yes	1
No	2
I prefer not to answer	-7
I don't know	-8

13. HAVELOG

HVLOG

TYPE: SelectSingle
ProgrammerNote: Asked if respondent completed their travel log (CPLOG=1)
QASKEDIF:

Did you have the completed travel log to refer to while reporting [$YOUR] travel?

ATEXT	AVALUE
YES	1
NO	2
REFUSED	-7
DON'T KNOW	-8

End Person Trips

The PersonTrips roster will return to SelectPersonuntil all persons are complete and then continue to Long Distance Travel.

Long Distance Travel

14. LDINTRO

LDINTRO

TYPE: SelectSingle
ProgrammerNote: Always asked
QASKEDIF:

The following questions are about long distance travel. Michigan's transportation planning community is interested in the way people choose to travel whenever they leave their home region. For these questions, please refer to the long distance travel log provided to your household.

Thinking about the past 3 months, [HAVEU_HASANY1] traveled farther than 100 miles from your home at least once?

ATEXT	AVALUE	BRANCH
Yes	1	LDSELECTPERSON
No	2	INCOME2
I prefer not to answer	-7	INCOME2
I don't know	-8	INCOME2

Begin Long Distance Trip Roster

15. LDSELECTPERSON

LDSELECTPERSON

TYPE: DropDown
ProgrammerNote: Asked if a household is larger than 1 and reported going on at least one long distance trip (HHSIZ>1 and LDINTRO=1). If HHSIZ=1 then code LDSELECTPERSON=R1
QASKEDIF:

Before we begin the long distance portion, we need to know which person is reporting the long distance travel for each household. Please select **your** name from the drop down list below:

ATEXT	AVALUE
LIST OF PEOPLE 16 OR OLDER	

16. LDROSTER

LDTRIPNO

TYPE: Computed

$R

17. LDCONFIRMATION

LDCONFIRMATION

TYPE: Display
ProgrammerNote: Displayed for every HH member greater than person 1 if person 1 reported a trip ($R>1 and LDTRIPNO>1)
QASKEDIF:
NOTE: We want to list all places reported in the roster as it grows.

The following trips have already been reported:

ATEXT	AVALUE	ASHOWNIF
No trips reported yet.	0	$R=1
[$LDCITY:1], [$LDSTATE:1], [$LDCNTRY:1] on [$LD_DEP_DATE:1]	1	$R>=2
[$LDCITY:2], [$LDSTATE:2], [$LDCNTRY:2] on [$LD_DEP_DATE:2]	2	$R>=3
[$LDCITY:3], [$LDSTATE:3], [$LDCNTRY:3] on [$LD_DEP_DATE:3]	3	$R>=4
[$LDCITY:4], [$LDSTATE:4], [$LDCNTRY:4] on [$LD_DEP_DATE:4]	4	$R>=5
[$LDCITY:5], [$LDSTATE:5], [$LDCNTRY:5] on [$LD_DEP_DATE:5]	5	$R>=6
[$LDCITY:6], [$LDSTATE:6], [$LDCNTRY:6] on [$LD_DEP_DATE:6]	6	$R>=7
[$LDCITY:7], [$LDSTATE:7], [$LDCNTRY:7] on [$LD_DEP_DATE:7]	7	$R>=8
[$LDCITY:8], [$LDSTATE:8], [$LDCNTRY:8] on [$LD_DEP_DATE:8]	8	$R>=9
[$LDCITY:9], [$LDSTATE:9], [$LDCNTRY:9] on [$LD_DEP_DATE:9]	9	$R>=10
[$LDCITY:10], [$LDSTATE:10], [$LDCNTRY:10] on [$LD_DEP_DATE:10]	10	$R>=11

18. LDCITY

LDNAME

TYPE: Geocode
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF

[$RECENT_NEXT] trip of at least 100 miles; tell us the city and state of the place visited. If there were multiple cities or stops, report the place that was the furthest from your home.

NOTE: We ask for place names only so we can keep track of each location that your household visited. You can use initials, abbreviations, or generic names if you want. We just ask that no two are the same and that what you use is meaningful to each of you.

LDCITY

TYPE: Geocode
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF

City:

LDSTATE

TYPE: Geocode
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF

State [If Applicable]:

LDCNTRY

TYPE: Geocode
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF

Country [If Applicable]:

19. LD_HHMEMBERS

LD_HHMEMBERS

TYPE: SelectMultiple
Programmer Note: Asked if household size is greater than one and respondent reports going a long distance trip (HHSIZ>1 and (LDINTRO=1 or LDTRIPNO>1)). If HHSIZ=1 code LD_HHMEMBERS=0. Provide a list of all household members along with choices for 'none', RF/DK
QASKEDIF:

Which household members went to [$LDPLACE]?

Please select each of the household members who went from the list below.

ATEXT	AVALUE
List of HH Members	1-N
I prefer not to answer	-7
I don't know	-8

20. LDDATES

LD_DEP_DATE
TYPE: CalendarDropdown
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What date did [$YOU3_RET] leave home to travel to [$LDPLACE]?

Click in the box below to pick a date from the calendar.

LD_RET_DATE
TYPE: CalendarDropdown
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What date did [YOU3] arrive home from [$LDPLACE]?

21. LD_REASON

LD_REASON
TYPE: SelectSingle
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What was [YOUR3_RET] primary reason for traveling to [$LDPLACE]?

ATEXT	AVALUE
Work/business	1
School-related	2
Vacation	3
Social	4
Sightseeing	5
Recreation	6
Entertainment	7
Shopping	8
Family/personal reasons	9
Religious	10
Medical	11
Something else	97
I prefer not to answer	-7
I don’t know	-8

LD_REASON_O
TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to LD_REASON (LD_REASON=97)
QASKEDIF:

Please describe [$YOUR3_RET] main reason for the trip.

22. LD_MODE

LDT_MODE
TYPE: SelectSingle
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What type of transportation did [$YOU3_RET] use for most of the distance traveled to [$LDPLACE]?

ATEXT	AVALUE	ASHOWNIF
Walk	1	NEVER
Bicycle	2	NEVER
Motorcycle/moped	3	
Auto/ van/truck	4	
Auto/van/truck (as the passenger)	5	NEVER
Carpool/vanpool	6	
School bus	7	
Public transit – local bus, subway, elevated train, light rail	8	
Dial-a-ride/paratransit	9	
Private bus or shuttle	10	
Taxi/limo	11	
Train/Amtrak	12	
Detroit People Mover	13	NEVER
Airplane	14	
Boat/ferry	15	
Something Else	97	
I prefer not to answer	-7	
I don’t know	-8	

LDT_MODE_O
TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to LDT_MODE (LDT_MODE=97)
QASKEDIF:

Please describe the type of transportation used.

23. LDT_MODE2

LDT_MODE2
TYPE: SelectMultiple
ProgrammerNote: Asked if respondent supplies an actual LDT_MODE (LDT_MODE>0)
QASKEDIF:

Did [$YOU3] use any other type of transportation to get to [$LDPLACE]?

Please select all that apply.

ATEXT	AVALUE	ASHOWNIF
No other types of transportation	0	
Walk	1	LDT_MODE<>1
Bicycle	2	LDT_MODE<>2
Motorcycle/moped	3	LDT_MODE<>3
Auto/van/truck	4	LDT_MODE<>4
Auto/van/truck (as the passenger)	5	NEVER
Carpool/vanpool	6	LDT_MODE<>6
School bus	7	LDT_MODE<>7
Public transit – local bus, subway, elevated train, light rail	8	LDT_MODE<>8
Dial-a-ride/paratransit	9	LDT_MODE<>9
Private bus or shuttle	10	LDT_MODE<>10
Taxi/limo	11	LDT_MODE<>11
Train/Amtrak	12	LDT_MODE<>12
Detroit People Mover	13	NEVER
Airplane	14	LDT_MODE<>14
Boat/ferry	15	LDT_MODE<>15
Something Else	97	
I prefer not to answer	-7	
I don't know	-8	

LDT_MODE2_O
TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to LDT_MODE2 (LDT_MODE2=97)
QASKEDIF:

Please describe the type of transportation used.

24. LDD_DMODE1

DMODE

TYPE: SelectMultiple
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What type of transportation did [$YOU3_RET] use to get around while visiting [$LDPLACE]?

Please select all that apply.

ATEXT	AVALUE	ASHOWNIF
None	0	
Walk	1	
Bicycle	2	
Motorcycle/moped	3	
Auto/van/truck	4	
Auto/van/truck (as the passenger)	5	NEVER
Carpool/vanpool	6	
School bus	7	
Public transit – local bus, subway, elevated train, light rail	8	
Dial-a-ride/paratransit	9	
Private bus or shuttle	10	
Taxi/limo	11	
Train/Amtrak	12	
Detroit People Mover	13	
Airplane	14	
Boat/ferry	15	
Something Else	97	
I prefer not to answer	-7	
I don’t know	-8	

DMODE_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to DMODE (DMODE=97)
QASKEDIF:

Please describe the type of transportation used.

25. LD_FREQ1

LDQ3MTH
TYPE: NumberEntry (1-99)
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1).
QASKEDIF:

Including this trip, how many times have [$YOU3] visited [$LDPLACE] in the past 3 months?

ATEXT	AVALUE
I prefer not to answer	-7
I don't know	-8

26. LD_FREQ2

LDQ12MTH
TYPE: NumberEntry (1-365)
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1).
QASKEDIF:

Including this trip, how many times have [$YOU3] visited [$LDPLACE] in the past 12 months?

ATEXT	AVALUE
I prefer not to answer	-7
I don't know	-8

27. LD_FREQ3

LDQ3MTH2
TYPE: NumberEntry (1-99)
ProgrammerNote: Asked if respondent reports making long distance trip more than 30 times in the past 3 months (LDQ3MTH>30)
QASKEDIF:

You just reported going to [$LDPLACE] more than 30 times in the past 3 months. Please confirm, is this is accurate?

ATEXT	AVALUE	BRANCH
Yes	1	LDMORE2
No	2	LD_FREQ1
I prefer not to answer	-7	LDMORE2
I don't know	-8	LDMORE2

28. LD_FREQ4

LDQ12MTH2
TYPE: NumberEntry (1-365)
ProgrammerNote: Asked if respondent reports making long distance trip more than 100 times in the past year (LDQ12MTH>100)
QASKEDIF:

You just reported going to [$LDPLACE] more than 100 times in the past 12 months. Please confirm, is this is accurate?

ATEXT	AVALUE	BRANCH
Yes	1	LDMORE2
No	2	LD_FREQ2
I prefer not to answer	-7	LDMORE2
I don't know	-8	LDMORE2

29. LDMORE2

LDMORE2
TYPE: SelectSingle
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

You have reported [$R] long distance [$TRIPS] for the last 3 months. Are there any more long distance trips to report?

ATEXT	AVALUE	BRANCH
More to report	1	LDROSTER+
Done reporting trips	2	INCOME2

End Long Distance Roster

30. INCOME2

HHINC2
TYPE: SelectSingle
ProgrammerNote: Asked if respondent didn't report an actual income (HHINC IN (-7,-8))
QASKEDIF:

There is just one more question before we collect information about where to send your participation check.

Because income is related to how, when, and why people go from place to place, and because we want to be sure to include all types of households in our survey, please select which of the four categories best represents your total household income for last year.

ATEXT	AVALUE
Less than $25,000	1
$25,000 to $49,999	2
$50,000 to $74,999	3
$75,000 or more	4
I prefer not to answer	-7
I don't know	-8

31. INCENMAILING

INCENMAILFNAM
TYPE: TextEntry
ProgrammerNote: Always asked. Populate with MAILFNAM or MAILFNAMGPS if possible
QASKEDIF:

We will be sending you a check to thank you for your participation in the survey. Please confirm or provide a name for us to use on the check.

First Name:

INCENMAILLNAM
TYPE: TextEntry
ProgrammerNote: Always asked. Populate with MAILFNAM or MAILFNAMGPS if possible
QASKEDIF:

Last Name:

32. FUTURESURVEY

FUTURESURVEY
TYPE: SelectSingle
ProgrammerNote: Always asked
QASKEDIF:

Would you be willing to take part in another survey from the [$SAMPLE_SPONSOR] in the future?

ATEXT	AVALUE
Yes	1
No	2
I prefer not to answer	-7
I don't know	-8

33. END

THANK
TYPE: Display
ProgrammerNote: Always asked
QASKEDIF:

Thank you for taking time to help the [$SAMPLE_SPONSOR] better understand the transportation needs of Michigan.

If you have any questions about the survey or your participation, please call 1-855-774-1800.

[END]
TYPE: LabelOnly
QASKEDIF:0
NOTE: Branch to SMS if CATI, Public Site if WEB

RECALLS / QUESTION DISPLAYS

YOUR

TYPE: Computed

Note: The goal here is to use option 2 whenever it is a proxy reporting situation. The case statement below may not be using the best way to determine this so please use your judgment to achieve that goal.

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
your	1
[$FNAME]'s	2

YOU

TYPE: Computed

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
you	1
[$FNAME]	2

WERE_YOU

TYPE: Computed

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
were you	1
was [$FNAME]	2

YOU_WERE

TYPE: Computed

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
you were	1
[$FNAME] was	2

CPLOG_RECALL

Computed

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
Did you complete your travel log?	1
Was [$FNAME]'s travel log completed?	2

LAST_TRIP

Computed

CASE WHEN $R=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
“most recent trip”	1
“next most recent trip”	2

YOU3

TYPE: Computed

CASE WHEN LDSELECTPERSON=1 AND LD_HHMEMBERS=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
you	1
they	2

YOUR3_RET

TYPE: Computed

CASE WHEN LDSELECTPERSON=1 AND LD_HHMEMBERS=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
your	1
their	2

TRAVEL

TYPE: Computed

CASE WHEN LDT_MODE=13 THEN 1 WHEN LDT_MODE=8 THEN 2 WHEN LDT_MODE=11 THEN 3 LDT_MODE=14 THEN 4 ELSE 4 END

ATEXT	AVALUE
fly	1
ride	2
ride	3
travel	4

TRAVELED

TYPE: Computed

CASE WHEN LDT_MODE=13 THEN 1 WHEN LDT_MODE=8 THEN 2 WHEN LDT_MODE=11 THEN 3 LDT_MODE=14 THEN 4 ELSE 4 END

ATEXT	AVALUE
flew	1
rode	2
rode	3
traveled	4

LDPLACE

TYPE: Computed

CASE

WHEN LDCITY IS NOT NULL THEN 1

WHEN LDCITY IS NULL AND LDSTATE IS NOT NULL AND LDCNTRY IS NOT NULL THEN 2

WHEN LDCITY IS NULL AND LDSTATE IS NULL AND LDCNTRY IS NOT NULL THEN 3

WHEN LDCITY IS NULL AND LDSTATE IS NOT NULL AND LDCNTRY IS NULL THEN 4

ELSE 5

END

ATEXT	AVALUE
[$LDCITY]	1
[$LDSTATE], [$LDCNTRY]	2
[$LDCNTRY]	3
[$LDSTATE]	4
this place	5

RECENT_NEXT

TYPE: Computed

CASE WHEN LDTRIPNO=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
Thinking about your most recent	1
Now tell us about your next most recent	2

FIRST_NEXT

TYPE: Computed

CASE WHEN PLACENO=2 THEN 1 WHEN PLACENO> 2 THEN 2 END

ATEXT	AVALUE
first	1
next	2

HAVEU_HASANY1

TYPE: Computed

CASE WHEN HHSIZ=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
have you	1
has anyone in your household	2

TRIPS_HAVE

TYPE: Computed

CASE WHEN LDTPRIPNO=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
trip has	1
trips have	2

TRIPS

TYPE: Computed

CASE WHEN LDTPRIPNO=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
trip	1
trips	2

YOUR4

TYPE: computed

CASE WHEN [$YOU:Q] = 'you' THEN 1 ELSE 2 END

TEXT	CODE
your	1
their	2

LONG_TIME

TYPE: computed

CASE WHEN LONG_TRIP=1 THEN 1 ELSE 2

TEXT	CODE
	1
It looks like this trip took a long time compared to the distance traveled.	2

Appendix GG

Retrieval Script (CATI)

MTCIII / STC15 Household Travel Survey: CATI Retrieval Script FINAL August 2015

General Documentation Notes:

- Numbered orange heading lines indicate a new screen
- Blue heading lines indicate a new variable or skip logic
- "Type" indicates the type of variable that will be collected
    - SelectSingle – Select one option from list provided
    - SelectMultiple – Select multiple option from list provided
    - NumberEntry – Number field within the range provided
    - TextEntry – Open text field
    - CalendarDropDown – Select a date from a calendar provided
    - Computed- Calculate variable used in recalls
- ProgrammerNote provides the logic for when the question will be presented
- In CATI instruments, the text in ALL CAPS is for instruction to the CATI interviewer and is not to be read out loud
- RECALLS are used to display respondent dependent text (e.g., he/she or a name)
    - A list of all the recalls used are found at the end of the document
- Exit interview language (e.g. thank you screens) are found at the end of the document
- Travel day reminder and re-contact screens are found at the end of the document

RETRIEVAL

1. PILOTSAMP_RET

PILOTSAMP_RET

TYPE: computed

CASE WHEN R_GROUP=1001 THEN 1

ELSE 2 END

BRANCH	CODE
PHASE1RET_SET	1
INOUT	2

2. PHASE1RET_SET

INT_PHASE1RET_SET

TYPE: Calculated
ProgrammerNote: If the HH was sampled for the pilot (R_GROUP=1001) set disposition to "Invalid Release Group" (608). A response to INT_PHASE1RET will overwrite INT_PHASE1RET_SET.
QASKEDIF:

=608

3. PHASE1RET

INT_PHASE1RET

TYPE: SelectSingle
ProgrammerNote: Asked if HH was sampled for the pilot (R_GROUP=1001)
QASKEDIF:

I see that your household was selected for the first phase of the study and started the survey several weeks ago; however, the first phase of the survey is now closed.

Thank you for your interest in the MI Travel Counts survey!

ATEXT	AVALUE
EXIT THE SURVEY	608

4. INOUT

INOUT

Type: SelectSingle
ProgrammerNote: Asked if CATI (INITIATIONMODE = CATI)
QASKEDIF:

ATEXT	AVALUE
INBOUND CALL	1
OUTBOUND CALL	2

Programmer Note: If FINALGFLAG=1 AND COALESCE(PR_RELEASED, 0)<>1, go to PR_Reminder questions; else go to TBBUT questions

5. PR_VAR –

Programmer Note: Hide END CALL for all EQ Reminder pages

PR_NO_EQ_VAR

```
CASE WHEN initiationmode='CATI' AND in_out =1 THEN 1
WHEN initiationmode='CATI' AND in_out=2 THEN 2
WHEN initiationmode='WEB' THEN 3
ELSE 4
END
```

ATEXT	AVALUE
Okay, I now have the survey up… however, my records are showing that your GPS device(s) have not arrived to our office. After they arrive, we will process the data and contact you as soon as the data is ready for your confirmation. Are there any questions you have at this time?	1
Hello, this is [INTERVIEWER NAME] calling on behalf of the MI Travel Counts survey. Your household was asked to take part in our survey about daily travel using GPS devices to record when and where you went on your assigned travel day. Our records show that your devices have not arrived to our offices so I am calling to remind you to return them.	2
Thank you for logging in to complete your survey. Your GPS data will be available to review and confirm after you return your devices and the data has been processed. We will contact you as soon as your data is available.	3
	4

PR_EQ_VAR

```
CASE WHEN initiationmode='CATI' AND in_out =1 THEN 1
WHEN initiationmode='CATI' AND in_out=2 THEN 2
WHEN initiationmode='WEB' THEN 3
ELSE 4
END
```

ATEXT	AVALUE
Okay, I now have the survey up… my records are showing that your GPS devices have arrived to our office. We will process the data and contact you as soon as it is ready for your confirmation. Are there any questions you have at this time?	1
DO NOT CALL	2
Thank you for logging in to complete your survey. Your GPS data will be available to review and confirm after you return your devices and the data has been processed. We will contact you as soon as your data is available.	3
	4

6. PR_MESSAGE

PR_EQ_NOT_RECEIVED

Type: SelectSingle
QASKEDIF: COALESCE(PR_DEVICES_BACK,0)<>1

[$PR_NO_EQ_VAR]

ATEXT	AVALUE	BRANCH
CLICK NEXT TO CONTINUE	1	INITIATIONMODE = 'WEB' THEN REDIRECT TO 'END' ELSE PR_NEXT

PR_EQ_RECEIVED

Type: SelectSingle
QASKEDIF: COALESCE(PR_DEVICES_BACK,0)=1

[$PR_EQ_VAR]

ATEXT	AVALUE	BRANCH
CLICK NEXT TO CONTINUE	1	INITIATIONMODE = 'WEB' THEN REDIRECT TO 'END' ELSE PR_NEXT

7. PR_NEXT

PR_NEXT

Type: SelectSingle
QASKEDIF: INITIAIONMODE='CATI'
Default Value=1

IF THE PARTICIPANT REFUSED OR THE SURVEY NEEDS TO BE CODED DIFFERENTLY, SELECT 2 BELOW

ATEXT	AVALUE	BRANCH
CONTINUE	1	INT_EQ_RET_REMIN
SKIP TO INT_RESULT	2	INT_RESULTRET

8. EQ_REMIN

INT_EQ_RET_REMIN

Type: Computed

=103, branch to END

9. TBBUT_VAR

TBBUTVAR

```
CASE WHEN initiationmode='CATI' AND in_out =1 THEN 1
WHEN initiationmode='CATI' AND in_out=2 THEN 2
WHEN initiationmode='WEB' THEN 3
ELSE 4
END
```

ATEXT	AVALUE
Okay, I now have the survey up… Next, I will	1
Hello, this is [INTERVIEWER NAME] calling on behalf of the MI Travel Counts survey. Your household was asked to take part in our survey about daily travel. I'm calling to collect the details about your travel. Next, I will '	2
Welcome back to the MI Travel Counts survey. Next, we will	3
	4

10. TBBUT

TBBUT

TYPE: SelectSingle
ProgrammerNote: Always Asked
QASKEDIF:

[$TBBUTVAR] ask you to provide details about trips and activities recorded on your travel day ([$NTRIPDATE]) for each person in your household. Be sure to refer to each person's paper Travel Log. [$TBBUTVAR2]

ATEXT	AVALUE	BRANCH
CLICK NEXT TO CONTINUE	100	SELECTPERSON
REACHED ANSWERING MACHINE	403	READMSG2_SET
GO TO RESULTS	101	INT_RESULT

11. SelectPerson

SELECTPERSON1

TYPE: DropDown
ProgrammerNote: Always Asked
QASKEDIF:

REVIEW THE LIST OF HHMS. ALWAYS ASK TO SPEAK DIRECTLY WITH AN ADULT WHO HAS NOT REPORTED THEIR TRAVEL. IF NOT AVAILABLE CONTINUE WITH THE PERSON ON THE PHONE. ALWAYS SELECT THE NAME OF THE PERSON YOU ARE SPEAKING WITH FROM THE LIST BELOW.

May I please have your name?

SELECT NAME FROM THE LIST BELOW.

ATEXT	AVALUE
LIST OF PEOPLE 16 OR OLDER	

SELECTPERSON2

TYPE: DropDown
ProgrammerNote: Always Asked
QASKEDIF:

IF YOU ARE SPEAKING WITH SOMEONE WHO IS REPORTING BY PROXY FOR ANOTHER HOUSEHOLD MEMBER, SELECT THE NAME OF THE PERSON WHOSE TRAVEL IS BEING REPORTED BELOW.

I'm now going to bring up the travel reporting screen. One moment, please...

CLICK 'START' OR 'CONTINUE' TO REPORT TRAVEL INFORMATION.

ATEXT	AVALUE
LIST OF ALL HH MEMBERS	

12. TBW

LOCNAME

TYPE: SelectSingle
ProgrammerNote: Always Asked
QASKEDIF:

FOR PLACE 1: At 3:00 AM [$WERE_YOU] at home or someplace else?

FOR PLACE>1: Where did [$YOU] go [FIRST_NEXT]?

CHOOSE FROM THE LIST BELOW OR ADD A DIFFERENT LOCATION:

LOCARRTIME

TYPE: NumberEntry
FORMAT: H:MM AMPM
ProgrammerNote: Asked if respondent reports going to at least 1 place (PLACENO>1)
QASKEDIF:

What time did [$YOU] arrive at this place? (RECORD EXACT TIME)

ATEXT	AVALUE
ENTER TIME	HH:MM

MODE

TYPE: SelectSingle
ProgrammerNote: Asked if respondent reports going to at least 1 place (PLACENO>1)
QASKEDIF:

How did [$YOU] get to this place?

ATEXT	AVALUE
WALK	1
BICYCLE	2
MOTORCYCLE/MOPED	3
AUTO / VAN / TRUCK (AS THE DRIVER)	4
AUTO / VAN / TRUCK (AS THE PASSENGER)	5
CARPOOL/VANPOOL	6
SCHOOL BUS	7
PUBLIC TRANSIT – LOCAL BUS	8
DIAL-A-RIDE/PARATRANSIT	9
PRIVATE BUS OR SHUTTLE	10
TAXI/LIMO	11
TRAIN/AMTRAK	12
DETROIT PEOPLE MOVER	13
AIRPLANE	14
BOAT/FERRY	15
OTHER, SPECIFY	97

MODE_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to MODE (MODE=97)
QASKEDIF:

Please describe how [$YOU] got to this place.

TOTTR

TYPE: TextEntry
RANGE: 0-12
ProgrammerNote: Asked if respondent reports going to at least 1 place (PLACENO>1). No default value.
QASKEDIF:

How many people went to this place with [$YOU]?

HHMEM

TYPE: SelectMultiple
ProgrammerNote: Asked if household size is greater than one and respondent reports traveling with at least one person (HHSIZ>1 and TOTTR>=1). If HHSIZ=1 code HHMEM=0
QASKEDIF:

Were any of those people members of [$YOUR] household?

[IF YES: Which household members went to this place with you?]

LOCDEPTIME

TYPE: NumberEntry
FORMAT: H:MM AMPM
ProgrammerNote: Asked if respondent reports going to at least 1 place (PLACENO>1)
QASKEDIF:

What time did [$YOU] leave this place? (RECORD EXACT TIME)

DIDN'T LEAVE THIS PLACE. (THIS IS WHERE THEY ENDED THEIR TRAVEL DAY.)

13. TPURP

TPURP

TYPE: SelectSingle
ProgrammerNote: Always asked. AVALUEs should be displayed in both CATI and WEB versions. Place choices in two columns with the second column starting with SOCIAL ACTIVITIES.
QASKEDIF:

What was [$YOUR] main activity at this place?

ATEXT	AVALUE
HOME ACTIVITIES	***$$***
TYPICAL HOME ACTIVITIES	1
WORKING AT HOME (PAID)	2
WORK, SCHOOL & VOLUNTEER	***$$***
WORK AT FIXED WORK LOCATION	3
WORK AT NON-FIXED WORK LOCATION	4
WORK RELATED (OFF-SITE MEETING)	5
SCHOOL/STUDYING	6
VOLUNTEERING	7
SHOPPING & ERRANDS	***$$***
MAJOR PURCHASE SHOPPING (APPLIANCES, CARS, HOME FURNISHINGS)	8
OTHER ROUTINE SHOPPING (GROCERY, CLOTHING)	9
DRIVE-THRU FOOD OR ERRANDS	10
VEHICLE SERVICE (GAS, MAINTENANCE)	11
HEALTH CARE VISIT	12
OTHER NON-SHOPPING ERRANDS	13
SOCIAL ACTIVITIES	***$$***
EAT OUT	14
SOCIALIZE WITH FRIENDS/RELATIVES	15
RELIGIOUS OR COMMUNITY EVENT	16
EXERCISE OR RECREATION	17
ATTEND MAJOR SPECIAL EVENT	18
TRAVEL-RELATED ACTIVITIES	***$$***
DROP OFF/PICK UP PASSENGER	19

ATEXT	AVALUE
CHANGE TRAVEL MODE/TRANSFER	20
OTHER ACTIVITIES	***$$***
OTHER (SPECIFY)	97
REFUSED	-7
DON'T KNOW	-8

TPURP_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to TPURP (TPURP=97)
QASKEDIF:

Please describe [$YOUR] main activity.

14. TPURP2

TPURP2

TYPE: SelectSingle
ProgrammerNote: Asked if respondent supplies an actual trip purpose (TPURP>0). AVALUEs should be displayed in both CATI and WEB versions. Place choices in two columns with the second column starting with SOCIAL ACTIVITIES.

QASKEDIF:

And what else did [$YOU] do at this place?

ATEXT	AVALUE
NOTHING ELSE	0
HOME ACTIVITIES	***$$***
TYPICAL HOME ACTIVITIES	1
WORKING AT HOME (PAID)	2
WORK, SCHOOL & VOLUNTEER	***$$***
WORK AT FIXED WORK LOCATION	3
WORK AT NON-FIXED WORK LOCATION	4
WORK RELATED (OFF-SITE MEETING)	5
SCHOOL/STUDYING	6
VOLUNTEERING	7
SHOPPING & ERRANDS	***$$***
MAJOR PURCHASE SHOPPING (APPLIANCES, CARS, HOME FURNISHINGS)	8
OTHER ROUTINE SHOPPING (GROCERY, CLOTHING)	9
DRIVE-THRU FOOD OR ERRANDS	10
VEHICLE SERVICE (GAS, MAINTENANCE)	11
HEALTH CARE VISIT	12
OTHER NON-SHOPPING ERRANDS	13

ATEXT	AVALUE
SOCIAL ACTIVITIES	***$$***
EAT OUT	14
SOCIALIZE WITH FRIENDS/RELATIVES	15
RELIGIOUS OR COMMUNITY EVENT	16
EXERCISE OR RECREATION	17
ATTEND MAJOR SPECIAL EVENT	18
TRAVEL-RELATED ACTIVITIES	***$$***
DROP OFF/PICK UP PASSENGER	19
CHANGE TRAVEL MODE/TRANSFER	20
OTHER ACTIVITIES	***$$***
OTHER (SPECIFY)	97
REFUSED	-7
DON'T KNOW	-8

TPURP2_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to TPURP2 (TPURP2=97)
QASKEDIF:

Please describe what else [$YOU] did.

15. HHVEH_USED

HHVEH_USED

TYPE: SelectSingle
ProgrammerNote: Asked if household reports owning a vehicle and MODE was car, motorcycle or carpool (HHVEH>=1 AND MODE IN (3,4,5,6,97))
QASKEDIF

Was a vehicle from your household used for this trip?

ATEXT	AVALUE
YES	1
NO	2
REFUSED	-7
DON'T KNOW	-8

16. TRIP_LENGTH

TRIP_LENGTH

TYPE: SelectSingle
ProgrammerNote: Asked if a trip took an unreasonable amount time for the distance and mode, not asked of 1st place OR walk/bike trips for recreation/exercise (PLACENO>1 AND NOT (MODE IN [1,2] AND (TPURP IN [17] OR TPURP2 IN [17])))
QASKEDIF:

Did it take longer than usual to get to this place?

ATEXT	AVALUE
YES	1
NO	2
REFUSED	-7
DON'T KNOW	-8

17. TRIP_LENGTH2

LONG_TRIP_REASON

TYPE: SelectSingle
ProgrammerNote: Asked if a trip took an unreasonable amount time for the distance and mode, not asked of 1st place OR walk/bike trips for recreation/exercise (PLACENO>1 AND NOT (MODE IN [1,2] AND (TPURP IN [17] OR TPURP2 IN [17])))
QASKEDIF:

[$LONG_TIME]

Which of the following best describes why the trip took as long as it did? Was it…

ATEXT	AVALUE
The weather (e.g., rain or snow),	1
Construction,	2
An accident,	3
Traffic congestion, or	4
Something else?	97
REFUSED	-7
DON'T KNOW	-8

LONG_TRIP_REASON_O

TYPE: TextEntry
ProgrammerNote: Asked respondents responds Other, Specify to LONG_TRIP_REASON (LONG_TRIP_REASON=97)
QASKEDIF:

Please describe the reason this trip took longer than usual.

18. NOGO

NOGOWHY

TYPE: SelectSingle
ProgrammerNote: Respondent reported 0 trips (MAX PLACENO=1)
QASKEDIF:

What was the reason that [$YOU2] did not travel on [$YOUR2] travel day?

ATEXT	AVALUE
PERSONALLY SICK	1
VACATION OR PERSONAL DAY	2
CARETAKING	3
HOME-BOUND ELDERLY OR DISABLED	4
WORKED AT HOME (FOR PAY)	5
NOT SCHEDULED TO WORK	6
WORKED AROUND HOME (NOT FOR PAY)	7
OUT OF AREA	8
NO TRANSPORTATION AVAILABLE	9
NO LONGER A HH RESIDENT	10
OTHER (SPECIFY)	97
REFUSED	-7
DON'T KNOW	-8

NOGOWHY_O

TYPE: TextEntry
ProgrammerNote: Respondent responds Other, Specify to NOGOWHY (NOGOWHY=97)
QASKEDIF:

Please describe [$YOUR3_RET] main reason for not traveling.

19. LOGCOMPLETE

CPLOG

TYPE: SelectSingle
ProgrammerNote: Always asked
QASKEDIF:

[$CPLOG_RECALL]

ATEXT	AVALUE
YES	1
NO	2
REFUSED	-7
DON'T KNOW	-8

20. HAVELOG

HVLOG

TYPE: SelectSingle
ProgrammerNote: Asked if respondent completed their travel log (CPLOG=1)
QASKEDIF:

Did you have the completed travel log to refer to while reporting [$YOUR] travel?

ATEXT	AVALUE
YES	1
NO	2
REFUSED	-7
DON'T KNOW	-8

End Person Trips

The PersonTrips roster will return to SelectPerson until all persons are complete and then continue to Long Distance Travel.

Long Distance Travel

21. LDINTRO

LDINTRO

TYPE: SelectSingle
ProgrammerNote: Always asked
QASKEDIF:

The following questions are about long distance travel. Michigan's transportation planning community is interested in the way people choose to travel whenever they leave their home region. For these questions, please refer to the long distance travel log provided to your household.

Thinking about the past 3 months, [HAVEU_HASANY1] traveled farther than 100 miles from your home at least once?

ATEXT	AVALUE	
YES	1	LDSELECTPERSON
NO	2	INCOME2
REFUSED	-7	INCOME2
DON'T KNOW	-8	INCOME2

Begin Long Distance Trip Roster

22. LDSELECTPERSON

LDSELECTPERSON

TYPE: DropDown
ProgrammerNote: Asked if a household is larger than 1 and reported going on at least one long distance trip (HHSIZ>1 and LDINTRO=1). If HHSIZ=1 then code LDSELECTPERSON=R1
QASKEDIF:

Before we begin the long distance portion we need to know which person is reporting the long distance travel for each household.

May I please have your name?

SELECT NAME FROM THE LIST BELOW.

ATEXT	AVALUE
LIST OF PEOPLE 16 OR OLDER	

23. LDROSTER

LDTRIPNO

TYPE: Computed

$R

24. LDCONFIRMATION

LDCONFIRMATION

TYPE: Display
ProgrammerNote: Displayed for every HH member greater than person 1 if person 1 reported a trip ($R>1 and LDTRIPNO>1)
QASKEDIF:

The following trips have already been reported:

ATEXT	AVALUE	ASHOWNIF
NO TRIPS REPORTED YET.	0	$R=1
[$LDCITY:1], [$LDSTATE:1], [$LDCNTRY:1] on [$LD_DEP_DATE:1]	1	$R>=2
[$LDCITY:2], [$LDSTATE:2], [$LDCNTRY:2] on [$LD_DEP_DATE:2]	2	$R>=3
[$LDCITY:3], [$LDSTATE:3], [$LDCNTRY:3] on [$LD_DEP_DATE:3]	3	$R>=4
[$LDCITY:4], [$LDSTATE:4], [$LDCNTRY:4] on [$LD_DEP_DATE:4]	4	$R>=5
[$LDCITY:5], [$LDSTATE:5], [$LDCNTRY:5] on [$LD_DEP_DATE:5]	5	$R>=6
[$LDCITY:6], [$LDSTATE:6], [$LDCNTRY:6] on [$LD_DEP_DATE:6]	6	$R>=7
[$LDCITY:7], [$LDSTATE:7], [$LDCNTRY:7] on [$LD_DEP_DATE:7]	7	$R>=8
[$LDCITY:8], [$LDSTATE:8], [$LDCNTRY:8] on [$LD_DEP_DATE:8]	8	$R>=9
[$LDCITY:9], [$LDSTATE:9], [$LDCNTRY:9] on [$LD_DEP_DATE:9]	9	$R>=10
[$LDCITY:10], [$LDSTATE:10], [$LDCNTRY:10] on [$LD_DEP_DATE:10]	10	$R>=11

25. LDCITY

LDCITY
TYPE: TextEntry
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF
NOTE: We want to list all places reported in the roster as it grows.

[$RECENT_NEXT] trip of at least 100 miles, tell me the city and state of the place visited. If there were multiple cities or stops, report the place that was the furthest from your home.

INCLUDE ALL LONG DISTANCE TRIPS EVEN IF TO ANOTHER COUNTRY.

[IF NEEDED: If it was a destination vacation, for example a trip to Disney World you can just tell me that.]

LDSTATE
TYPE: TextEntry
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF

State [IF APPLICABLE]:

LDCOUNTRY
TYPE: TextEntry

Country [IF APPLICABLE]:

26. LD_HHMEMBERS

LD_HHMEMBERS
TYPE: SelectMultiple
Programmer Note: Asked if household size is greater than one and respondent reports going a long distance trip (HHSIZ>1 and (LDINTRO=1 or LDTRIPNO>1)). If HHSIZ=1 code LD_HHMEMBERS=0. Provide a list of all household members along with choices for 'none', RF/DK
QASKEDIF:

Which household members went to [$LDPLACE]?

ATEXT	AVALUE
List of HH Members	1-N
REFUSED	-7
DON'T KNOW	-8

27. LDDATES

LD_DEP_DATE
TYPE: CalendarDropdown
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What date did [$YOU3] leave home to travel to [$LDPLACE]?

[USE THE CALENDAR TO HELP NARROW DOWN THE DATE OF THE TRIP AS ACCURATELY AS POSSBILE. IF THE RESPONDENT DOESN'T REMEMBER EXACT DATES RECORD BEST GUESS.]

LD_RET_DATE

TYPE: CalendarDropdown
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What date did [$YOU3] arrive home from [$LDPLACE]?

28. LD_REASON

LD_REASON

TYPE: SelectSingle
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What was [$YOUR3_RET] primary reason for going to [$LDPLACE]?

ATEXT	AVALUE
WORK/BUSINESS	1
SCHOOL-RELATED	2
VACATION	3
SOCIAL	4
SIGHTSEEING	5
RECREATION	6
ENTERTAINMENT	7
SHOPPING	8
FAMILY/PERSONAL REASONS	9
RELIGIOUS	10
MEDICAL	11
OTHER, SPECIFY	97
REFUSED	-7
DON'T KNOW	-8

LD_REASON_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to LD_REASON (LD_REASON=97)
QASKEDIF:

Please describe [$YOUR3_RET] reason for the trip.

29. LD_MODE

LDT_MODE

TYPE: SelectSingle
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What type of transportation did [$YOU3] use for most of the distance traveled to [$LDPLACE]?

ATEXT	AVALUE	ASHOWNIF
WALK	1	NEVER
BICYCLE	2	NEVER
MOTORCYCLE/MOPED	3	
AUTO/VAN/TRUCK	4	
AUTO/VAN/TRUCK (AS THE PASSENGER)	5	NEVER
CARPOOL/VANPOOL	6	
SCHOOL BUS	7	
PUBLIC TRANSIT – LOCAL BUS, SUBWAY, ELEVATED TRAIN, LIGHT RAIL	8	
DIAL-A-RIDE/PARATRANSIT	9	
PRIVATE BUS OR SHUTTLE	10	
TAXI/LIMO	11	
TRAIN/AMTRAK	12	
DETROIT PEOPLE MOVER	13	NEVER
AIRPLANE	14	
BOAT/FERRY	15	
OTHER, SPECIFY	97	
REFUSED	-7	
DON'T KNOW	-8	

LDT_MODE_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to LDT_MODE (LDT_MODE=97)
QASKEDIF:

Please describe the type of transportation used.

30. LDT_MODE2

LDT_MODE2

TYPE: SelectMultiple
ProgrammerNote: Asked if respondent supplies an actual LDT_MODE (LDT_MODE>0)
QASKEDIF:

Did [$YOU3] use any other type of transportation to get to [$LDPLACE]?

[IF NO, CODE NO OTHER MODES.]

IF YES: What other types of transportation did [$YOU3] use? Anything else?]

[COLLECT ALL THAT APPLY.]

ATEXT	AVALUE	ASHOWNIF
NO OTHER TYPES OF TRANSPORTATION	0	
WALK	1	LDT_MODE<>1
BICYCLE	2	LDT_MODE<>2
MOTORCYCLE/MOPED	3	LDT_MODE<>3
AUTO/VAN/TRUCK	4	LDT_MODE<>4
AUTO/VAN/TRUCK (AS THE PASSENGER)	5	NEVER
CARPOOL/VANPOOL	6	LDT_MODE<>6
SCHOOL BUS	7	LDT_MODE<>7
PUBLIC TRANSIT – LOCAL BUS, SUBWAY, ELEVATED TRAIN, LIGHT RAIL	8	LDT_MODE<>8
DIAL-A-RIDE/PARATRANSIT	9	LDT_MODE<>9
PRIVATE BUS OR SHUTTLE	10	LDT_MODE<>10
TAXI/LIMO	11	LDT_MODE<>11
TRAIN/AMTRAK	12	LDT_MODE<>12
DETROIT PEOPLE MOVER	13	NEVER
AIRPLANE	14	LDT_MODE<>14
BOAT/FERRY	15	LDT_MODE<>15
OTHER, SPECIFY	97	
REFUSED	-7	
DON'T KNOW	-8	

LDT_MODE2_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to LDT_MODE2 (LDT_MODE2=97)
QASKEDIF:

Please describe the type of transportation used.

31. LDD_DMODE1

DMODE

TYPE: SelectMultiple
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

What type of transportation did [$YOU3] use to get around while visiting [$LDPLACE]?

Anything else?

[COLLECT ALL THAT APPLY]

ATEXT	AVALUE	ASHOWNIF
NONE	0	
WALK	1	
BICYCLE	2	
MOTORCYCLE/MOPED	3	
AUTO/VAN/TRUCK	4	
AUTO/VAN/TRUCK (AS THE PASSENGER)	5	NEVER
CARPOOL/VANPOOL	6	
SCHOOL BUS	7	
PUBLIC TRANSIT – LOCAL BUS, SUBWAY, ELEVATED TRAIN, LIGHT RAIL	8	
DIAL-A-RIDE/PARATRANSIT	9	
PRIVATE BUS OR SHUTTLE	10	
TAXI/LIMO	11	
TRAIN/AMTRAK	12	
DETROIT PEOPLE MOVER	13	
AIRPLANE	14	
BOAT/FERRY	15	
OTHER, SPECIFY	97	
REFUSED	-7	
DON'T KNOW	-8	

DMODE_O

TYPE: TextEntry
ProgrammerNote: Asked if respondent responds Other, Specify to DMODE (DMODE=97)
QASKEDIF:

Please describe the type of transportation used.

32. LD_FREQ1

LDQ3MTH

TYPE: NumberEntry (1-99)
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1). Hard Range (1-99); Soft Range (1-30)
QASKEDIF:

Including this trip, how many times have [$YOU3] visited [$LDPLACE] in the past 3 months?

ATEXT	AVALUE
REFUSED	-7
DON'T KNOW	-8

33. LD_FREQ2

LDQ12MTH

TYPE: NumberEntry (1-99)
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1). Hard Range (1-365); Soft Range (1-100)
QASKEDIF:

Including this trip, how many times have [$YOU3] visited [$LDPLACE] in the past 12 months?

ATEXT	AVALUE
REFUSED	-7
DON'T KNOW	-8

34. LD_FREQ3

LDQ3MTH2

TYPE: NumberEntry (1-99)
ProgrammerNote: Asked if respondent reports making long distance trip more than 30 times in the past 3 months (LDQ3MTH>30)
QASKEDIF:

You just reported going to [$LDPLACE] more than 30 times in the past 3 months. Please confirm, is this is accurate?

ATEXT	AVALUE	BRANCH
Yes	1	LDMORE2
No	2	LD_FREQ1
I prefer not to answer	-7	LDMORE2
I don't know	-8	LDMORE2

35. LD_FREQ4

LDQ12MTH2
TYPE: NumberEntry (1-365)
ProgrammerNote: Asked if respondent reports making long distance trip more than 100 times in the past year (LDQ12MTH>100)
QASKEDIF:

You just reported going to [$LDPLACE] more than 100 times in the past 12 months. Please confirm, is this is accurate?

ATEXT	AVALUE	BRANCH
Yes	1	LDMORE2
No	2	LD_FREQ2
I prefer not to answer	-7	LDMORE2
I don't know	-8	LDMORE2

36. LDMORE2

LDMORE2
TYPE: SelectSingle
ProgrammerNote: Asked if respondent reports going on at least one long distance trip (LDINTRO=1 or LTRIPNO>1)
QASKEDIF:

You have reported [$R] long distance [$TRIPS] for the last 3 months. Are there any more long distance trips to report?

ATEXT	AVALUE	
MORE TO REPORT	1	LDROSTER+
DONE REPORTING TRIPS	2	INCOME2

End Long Distance Roster

37. INCOME2

HHINC2
TYPE: SelectSingle
ProgrammerNote: Asked if respondent didn't report an actual income (HHINC IN (-7,-8))
QASKEDIF:

There is just one more question before we collect information about where to send your participation check.

Because income is related to how, when, and why people go from place to place, and because we want to be sure to include all types of households in our survey, please tell me which category represents your total household income for last year. Was it…

ATEXT	AVALUE
Less than $25,000,	1
$25,000 to $49,999,	2
$50,000 to $74,999, or	3
$75,000 or more?	4
REFUSED	-7
DON'T KNOW	-8

38. INCENMAILING

INCENMAILFNAM

TYPE: TextEntry
ProgrammerNote: Always asked. Populate with MAILFNAM or MAILFNAMGPS if possible
QASKEDIF:

We will be sending you a check to thank you for your participation in the survey. Please provide a name for us to use on the check.

First Name:

INCENMAILLNAM

TYPE: TextEntry
ProgrammerNote: Always asked. Populate with MAILFNAM or MAILFNAMGPS if possible
QASKEDIF:

Last Name:

39. FUTURESURVEY

FUTURESURVEY

TYPE: SelectSingle
ProgrammerNote: Always asked
QASKEDIF:

Would you be willing to take part in another survey from the [$SAMPLE_SPONSOR] in the future?

ATEXT	AVALUE
YES	1
NO	2
REFUSED	-7
DON'T KNOW	-8

40. END

THANK

TYPE: Display
ProgrammerNote: Always asked
QASKEDIF:

Thank you for taking time to help the [$SAMPLE_SPONSOR] better understand the transportation needs of Michigan.

If you have any questions about the survey or your participation, please call 1-855-774-1800.

41. INT_RESULT

INT_RESULT

TYPE: SelectSingle
ProgrammerNote: Asked if retrieval mode is CATI ('[$INITIATIONMODE]'='CATI')
QASKEDIF:

ATEXT	AVALUE
Default	100
Partial	101
Partial (Manual)	102
Equipment Reminded	103
Equipment Shipped Back	104
Prompted Recall Released	105
Will Continue Online	200
Mailed Travel Logs Back	201
Logs Received	202
Logs Received – Follow-up Needed	203
Call-back General	300
Call-back Specific	301
Call-back to Reach Adult	302
Ring no Answer	400
Voicemail	401
Busy Signal	402
Voicemail Message Left	403
Initial Refusal	500
Final Refusal	501
Non-Working Number	600
Non-Residential	602
Invalid Address	603
Invalid GPS Address	604
HH Size DQ	605
HH Age DQ	606
HHVEH REFUSAL	607
Invalid Release Group	608
Language Barrier	700
Complete	800
Problem	900
New Travel Date Needed	901

42. END

[END]

TYPE: LabelOnly
QASKEDIF:0
NOTE: Branch to SMS if CATI, Public Site if WEB

Phone Reminder / MESSAGES

43. INTRO2

RMINTRO2

TYPE: SelectSingle
ProgrammerNote: Asked if a travel day reminder phone call (TODAY<=TRIPDATE)
QASKEDIF:

Hello this is [INTERVIEWER NAME] calling on behalf of the 'MI Travel Counts' survey to remind you that your scheduled travel day is [$TRIPDATELONGFORMAT]. Do you have any questions about the materials we sent you?

ATEXT	AVALUE	BRANCH
NO QUESTIONS	1	RETPREF
TRAVEL DATE IS BAD FOR RESPONDENT	2	NEW_TD
NO ANSWER	3	READMSG

44. NEW_TD

NEW_TD

TYPE: Calendar Dropdown Menu
ProgrammerNote: Asked if no good travel date is available (NEWTRIPDATE=3)
QASKEDIF:

Okay, we can offer you an alternative travel date; however, we have to maintain the same day of the week. Which of the following dates would you prefer?

[READ ONLY THE DATES THAT ARE HIGHLIGHTED]

45. TDTEXT

REREMIN

TYPE: Calculated
ProgrammerNote: Asked if a travel day reminder phone call (TODAY<=TRIPDATE) AND FINALGFLAG<>1
QASKEDIF:

CASE WHEN coalesce([$RMINTRO2:C], 0)=2 THEN 1 WHEN coalesce([$RETPREF:C], 0) <> 1 THEN 2 ELSE 3 END"

ATEXT	AVALUE
"We'll call you back on [$DAYBEFORENEWTRIPDATE] to reminder you of your new travel date."	1
"We'll call you back on [$HHCALLTIMEFORMAT] to collect your travel information."	2
	3

RETPREF

TYPE: SelectSingle
ProgrammerNote: Asked if a travel day reminder phone call (TODAY<=TRIPDATE)
QASKEDIF:

You previously reported that your preference to complete the travel reporting step was by "[$PREVRETPREF]"? Is that still your preference?

ATEXT	AVALUE	BRANCH
ONLINE	1	ENDREMIN
PHONE	2	HHCALLTIME
NO PREFERENCE	3	HHCALLTIME

46. BEST_TIME

HHCALLTIME

TYPE: SelectSingle
ProgrammerNote: Asked if a travel day reminder phone call for a non-GPS household who's retrieval preference is not ONLINE (TODAY<=TRIPDATE AND RETPREF IN (2,3)) AND non-GPS (FINALGFLAG<>1) – **Make sure the new callback is created**
QASKEDIF:

We will call you back after your travel date to collect your travel details. What would be the best date and time to call you back?

NOTE: [READ ONLY THE DATES THAT ARE HIGHLIGHTED]

47. ENDREMIN_RECALL

ENDREMIN_RECALL

TYPE: Computed
ProgrammerNote: Asked if a travel day reminder phone call (TODAY<=TRIPDATE)
QASKEDIF:

WHEN FINALGFLAG=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
Great! [$REREMIN] Remember as a thank you we will send your household a check for $25 per person for completing the survey.	1
Great! [$REREMIN] Remember as a thank you we will send your household a $20 check for completing the survey.	2

48. ENDREMIN

ENDREMIN
TYPE: SelectSingle
ProgrammerNote: Asked if a travel day reminder phone call reminder (TODAY<=TRIPDATE)
QASKEDIF:

[$ENDREMIN_RECALL]

ATEXT	AVALUE	BRANCH
END REMINDER	1	END

49. READMSG

READMSG
TYPE: SelectSingle
ProgrammerNote: (RM_INTRO2=3)

QASKEDIF: [PLEASE READ THE FOLLOWING MESSAGE INTO THE ANSWERING MACHINE]

Hello, this is [INTERVIEWER NAME] calling to remind you about the MI Travel Counts survey. Your travel date is tomorrow, [$TRIPDATELONGFORMAT]. Please make sure each person in your household uses the travel log to help keep track of the all the places you go.

Beginning on [$DAYAFTERNEWTRIPDATE], you can complete the study online at www.MITravelCounts.com using your PIN: [$PIN] or by calling us at 1-855-774-1800. As a thank you, we will send your household a $20 participation check when you successfully complete the survey.

Thank you for participating in this important survey and have a good day.

50. INT_READMSG2_SET

INT_READMSG2_SET
TYPE: Calculated
ProgrammerNote: If interview reaches an answering machine (TBBUT=403) set disposition to "Voicemail – Message Left" (403).
QASKEDIF:

=403

51. READMSG2

INT_READMSG2
TYPE: SelectSingle
ProgrammerNote: (TBBUT=403)

QASKEDIF: [PLEASE READ THE FOLLOWING MESSAGE INTO THE ANSWERING MACHINE]

Hello, this is [INTERVIEWER NAME] calling on behalf of the MI Travel Counts Survey. I am calling to complete the interview about your travel on [$NTRIPDATE]. You can reach our survey team by calling 1-855-774-1800 or you can complete the survey online at www.MITravelCounts.com with your PIN [$PIN].

As a thank you, we will send your household a $20 check when you successfully complete the survey. Thank you and have a good day.

ATEXT	AVALUE	BRANCH
EXIT SURVEY	403	END

RECCALLBACK
TYPE: DatePicker
ProgrammerNote: ('[$INITIATIONMODE]'='CATI')
QASKEDIF:

NOTE: SEE DATE RANGE ABOVE. HOURS AVAILABLE M-F -> 9AM TO 9PM / SAT -> 10AM TO 6PM / SUN -> 2PM TO 9PM

Call back on:

IF NEEDED: Our telephone staff is not available at that time how about… [OFFER CLOSEST AVAILABLE TIME FOR THAT DATE]

RESULT_O
TYPE: TextEntry
ProgrammerNote: ('[$INITIATIONMODE]'='CATI')
QASKEDIF:

RESULT_PHONE
TYPE: open
FORMAT: ###-###-####
ProgrammerNote: ('[$INITIATIONMODE]'='CATI')
QASKEDIF:

The numbers we have on file for you are: [$PHONE1], [$RMPHONE], [$BPHONE1]. Is that correct?

RECALLS / QUESTION DISPLAYS

YOUR
TYPE: Computed
Note: The goal here is to use option 2 whenever it is a proxy reporting situation. The case statement below may not be using the best way to determine this so please use your judgment to achieve that goal.

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
your	1
[$FNAME]'s	2

YOU
TYPE: Computed

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
you	1
[$FNAME]	2

WERE_YOU
TYPE: Computed

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
were you	1
was [$FNAME]	2

YOU_WERE

TYPE: Computed

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
you were	1
[$FNAME] was	2

CPLOG_RECALL

Computed

CASE WHEN SELECTPERSON1=SELECTPERSON2 THEN 1 ELSE 2 END

ATEXT	AVALUE
Did you complete your travel log?	1
Was [$FNAME]'s travel log completed?	2

LAST_TRIP

Computed

CASE WHEN $R=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
"most recent trip"	1
"next most recent trip"	2

YOU3

TYPE: Computed

CASE WHEN LDSELECTPERSON=1 AND LD_HHMEMBERS=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
you	1
they	2

YOUR3_RET

TYPE: Computed

CASE WHEN PROXYPERNO=1 AND LD_HHMEMBERS=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
your	1
their	2

TERMINAL

TYPE: Computed

CASE WHEN LDT_MODE=13 THEN 1 WHEN LDT_MODE=8 THEN 2 WHEN LDT_MODE=11 THEN 3 LDT_MODE=14 THEN 4 ELSE 5 END

ATEXT	AVALUE
airport	1
train station	2
bus terminal	3
harbor/marina	4
NO TEXT	5

TRAVEL

TYPE: Computed

CASE WHEN LDT_MODE=13 THEN 1 WHEN LDT_MODE=8 THEN 2 WHEN LDT_MODE=11 THEN 3 LDT_MODE=14 THEN 4 ELSE 4 END

ATEXT	AVALUE
fly	1
ride	2
ride	3
travel	4

[TRAVELED]

TYPE: Computed

CASE WHEN LDT_MODE=13 THEN 1 WHEN LDT_MODE=8 THEN 2 WHEN LDT_MODE=11 THEN 3 LDT_MODE=14 THEN 4 ELSE 4 END

ATEXT	AVALUE
flew	1
rode	2
rode	3
traveled	4

[LDPLACE]

TYPE: Computed

CASE

WHEN LDCITY IS NOT NULL THEN 1

WHEN LDCITY IS NULL AND LDSTATE IS NOT NULL AND LDCNTRY IS NOT NULL THEN 2

WHEN LDCITY IS NULL AND LDSTATE IS NULL AND LDCNTRY IS NOT NULL THEN 3

WHEN LDCITY IS NULL AND LDSTATE IS NOT NULL AND LDCNTRY IS NULL THEN 4

ELSE 5

END

ATEXT	AVALUE
[$LDCITY]	1
[$LDSTATE], [$LDCNTRY]	2
[$LDCNTRY]	3
[$LDSTATE]	4
this place	5

RECENT_NEXT

TYPE: Computed

CASE WHEN LDTRIPNO=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
Thinking about your most recent	1
Now tell us about your next most recent	2

FIRST_NEXT

TYPE: Computed

CASE WHEN PLACENO=2 THEN 1 WHEN PLACENO> 2 THEN 2 END

ATEXT	AVALUE
first	1
next	2

HAVEU_HASANY1

TYPE: Computed

CASE WHEN HHSIZ=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
have you	1
has anyone in your household	2

TRIPS_HAVE

TYPE: Computed

CASE WHEN LDTPRIPNO=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
trip has	1
trips have	2

TRIPS

TYPE: Computed

CASE WHEN LDTPRIPNO=1 THEN 1 ELSE 2 END

ATEXT	AVALUE
trip	1
trips	2

YOUR4

TYPE: computed

CASE WHEN [$YOU:Q] = 'you' THEN 1 ELSE 2 END

TEXT	CODE
your	1
their	2

LONG_TIME

TYPE: computed

CASE WHEN LONG_TRIP=1 THEN 1 ELSE 2

TEXT	CODE
	1
It looks like this trip took a long time compared to the distance traveled.	2

Appendix HH

Data Elements

REC/RET	SOURCE	DATA TYPE	VARIABLE NAME	VARIABLE DESCRIPTION	QUESTION TEXT	VALUES	DELIVERY TABLE: HOUSEHOLD	DELIVERY TABLE: PERSON	DELIVERY TABLE: PLACE	DELIVERY TABLE: LOCATION	DELIVERY TABLE: LONGDIST	DELIVERY TABLE: GPSPLACE	DELIVERY TABLE: GPSPOINT	DELIVERY TABLE: HOUSEHOLD_REPLICATE_WEIGHTS	DELIVERY TABLE: PERSON_REPLICATE_WEIGHTS	DELIVERY TABLE: TOUR
REC	REC SCRIPT	NUM	**AAGE**	Approximate Age	Because we want to make sure to ask questions that are age appropriate, in which age group {do you/does FNAME} belong?	Code Dictionary		1								
RET	SYSTEM	NUM	**ACTDUR**	Activity Duration (calculated) Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
REC	SYSTEM	TEXT	**ADD_STRT**	Street number and street name	System variable - no question wording				1	1						
REC	REC SCRIPT	NUM	**AGE**	Age	How old {are you/is FNAME}? [TYPE '0' IF CHILD IS UNDER ONE YEAR OLD]			1								
REC	SYSTEM	NUM	**AGE_AAGE**	Merge of AGE and AAGE. If AAGE is not null, then the default value is person's AAGE value. Otherwise, code is imputed from AGE. Code values are copied from AAGE	System variable - no question wording	Code Dictionary		1								
REC	REC SCRIPT	NUM	**AGE18**	Age Above/Below 18	{Are you/Is FNAME} 18 years of age or older?	Code Dictionary		1								
REC	REC SCRIPT	NUM	**ALTADD**	Address for GPS Fed-Ex shipment label	We will be sending your devices using FedEx which means we have to have a physical address to use. Is {FULLADDRESS} the best address to use to send you packages?	Code Dictionary	1									
RET	GPS	NUM	**ALTITUDE**	In GPSPOINT table, Point Altitude	System variable - no question wording								1			
RET	SYSTEM	NUM	**ARR_HR**	Hour of arrival time in ISO 8601 Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
RET	SYSTEM	NUM	**ARR_MIN**	Minute of arrival time in ISO 8601 Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
RET	SYSTEM	DATE/TIME	**ARRTIME**	Time of arrival at a place in ISO 8601 Date and Time Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
REC	REC SCRIPT	NUM	**CHGADDBOX**	Verification of PO BOX Address	The P.O. BOX mailing address we have on file for you is: [Street][Apt] [City], [State] [Zip]	Code Dictionary	1									
REC	REC SCRIPT	NUM	**CHGADDPHYS**	Address verification	To help us understand the things that influence your travel choices, we have a few questions about your household. First, we want to confirm your address. Do you live	Code Dictionary	1									
REC	SYSTEM	TEXT	**CITY**	City	System variable - no question wording				1	1	1					
RET	SYSTEM	TEXT	**COUNTRY**	Country	System variable - no question wording				1	1	1					
RET	RET SCRIPT	NUM	**CPLOG**	Complete Log	{Did you complete your travel log/Was FNAME's travel log completed}?	Code Dictionary		1								
REC	SYSTEM	TEXT	**CTYFIPS**	Concatenation of state and county FIPS	System variable - no question wording		1		1	1						
NA	SYSTEM	DATE/TIME	**DEL_DATE**	The date the household was initially delivered.	System variable - no question wording		1									
REC	REC SCRIPT	NUM	**DELIV_DRIV**	Delivery driver	{Do you/Does FNAME} drive for {your/their} daily work (for example, as a taxi driver, delivery driver, real estate agent, courier, or something similar)?	Code Dictionary		1								
RET	GPS	NUM	**DEP_HR**	Hour of departure time in ISO 8601 Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
RET	GPS	NUM	**DEP_MIN**	Hour of departure time in ISO 8601 Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
RET	SYSTEM	DATE/TIME	**DEPTIME**	Time of departure for a place in ISO 8601 Date and Time Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
RET	SYSTEM	NUM	**DISTANCE**	Travel distance (uses route information from Google Maps) in miles Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
REC	REC SCRIPT	NUM	**DRIVE**	Driver	{Do you/Does FNAME} drive?	Code Dictionary		1								
REC	REC SCRIPT	NUM	**EDUC**	Educational Attainment	What is the highest grade or degree that {you have/FNAME has} earned?	Code Dictionary		1								

REC/RET	SOURCE	DATA TYPE	VARIABLE NAME	VARIABLE DESCRIPTION	QUESTION TEXT	VALUES	DELIVERY TABLE: HOUSEHOLD	DELIVERY TABLE: PERSON	DELIVERY TABLE: PLACE	DELIVERY TABLE: LOCATION	DELIVERY TABLE: LONGDIST	DELIVERY TABLE: GPSPLACE	DELIVERY TABLE: GPSPOINT	DELIVERY TABLE: HOUSEHOLD_REPLICATE_WEIGHTS	DELIVERY TABLE: PERSON_REPLICATE_WEIGHTS	DELIVERY TABLE: TOUR
REC	REC SCRIPT	TEXT	**EDUC_O**	Other, Educational Attainment	If you said some other degree, please provide the degree.			1								
REC	REC SCRIPT	NUM	**EMPLY**	Employed	Now we have some questions about work activities. Michigan's transportation community is interested in where people work because travel to work often affects other daily travel	Code Dictionary		1								
REC	REC SCRIPT	NUM	**EMPLYNOJOB**	Employed with No Jobs	You just reported that {you are/FNAME is} employed but {have/has} no jobs. Which of the following is correct?	Code Dictionary		1								
REC	REC SCRIPT	NUM	**EMPYTYPE**	Employer Type	Which of the following best describes {your/FNAME's} {primary} employer?	Code Dictionary		1								
REC	REC SCRIPT	TEXT	**EMPYTYPE_O**	Other, Employer Type	If you said something else, please describe.			1								
NA	SYSTEM	NUM	**END_TIME**	The end time of the tour (the arrival time of the place ending a tour)	System variable - no question wording											1
REC	SYSTEM	NUM	**FINALGFLAG**	GPS Participation Flag	System variable - no question wording	Code Dictionary	1									
RET	RET SCRIPT	NUM	**FUTURESURV**	Future Surveys	Would you be willing to take part in another survey from the {Michigan Department of Transportation/Southeast Michigan Council of Governments and the Michigan Department of	Code Dictionary	1									
REC	SYSTEM	TEXT	**GEOCODE_TY**	Geocode type returned by Google's geocoding API, or sample_x, semcog_point_address, map_click, map_drag, gps, google_maps_missing_type. For "sample_x" values, x is the household sample file	System variable - no question wording					1	1					
REC	SYSTEM	NUM	**GFLAG**	GPS Sample Flag	System variable - no question wording	Code Dictionary	1									
RET	SYSTEM	NUM	**GPS_ASSOC**	Place has GPS associated with it in the GPSPOINT table, where 1=True	System variable - no question wording	Code Dictionary			1							
REC	SYSTEM	NUM	**GPSCTRL**	Household GPS deployment control code	System variable - no question wording		1									
REC	SYSTEM	NUM	**GPSSAMP**	Person GPS sampled flag, where 1=True	System variable - no question wording			1								
REC	SYSTEM	NUM	**GPSSAMPCT**	Count of persons sampled for GPS in the household	System variable - no question wording		1									
REC	REC SCRIPT	NUM	**HASPOBOX**	Confirmation of no PO BOX for non-PO Box sample	Do you use a P.O. Box to receive personal mail?	Code Dictionary	1									
RET	GPS	NUM	**HDOP**	In GPSPOINT table, Horizontal Dilution of Precision of point	System variable - no question wording								1			
RET	GPS	NUM	**HEADING**	In GPSPOINT table, Direction of GPS Point	System variable - no question wording								1			
REC	SYSTEM	NUM	**HHCHILD**	Count of Household Children	System variable - no question wording		1									
REC	REC SCRIPT	NUM	**HHINC**	Household Income	In surveys like these, households are sometimes grouped according to income. Because income is related to how, when and why people go from place to place, and because we want to be sure to	Code Dictionary	1									
NA	SYSTEM	NUM	**HHINC_I**	Household Income (imputed). Codes are identical to HHINC with imputed values for non-response HHINC records.	System variable - no question wording	Code Dictionary	1									
RET	RET SCRIPT	NUM	**HHINC2**	Household Income Follow-up	There is just one more question before we collect information about where to send your participation check.	Code Dictionary	1									
REC	SYSTEM	NUM	**HHLICDRV**	Count of Household License holders	System variable - no question wording		1									
RET	SYSTEM	NUM	**HHPARTY**	Count of Household members on trip	System variable - no question wording				1							
NA	SYSTEM	NUM	**HHRKWT (0-100 Range)**	Intermediate Household Weights	System variable - no question wording									1		
NA	SYSTEM	NUM	**HHRKWT0**	Household Weight	System variable - no question wording		1							1		

REC/RET	SOURCE	DATA TYPE	VARIABLE NAME	VARIABLE DESCRIPTION	QUESTION TEXT	VALUES	DELIVERY TABLE: HOUSEHOLD	DELIVERY TABLE: PERSON	DELIVERY TABLE: PLACE	DELIVERY TABLE: LOCATION	DELIVERY TABLE: LONGDIST	DELIVERY TABLE: GPSPLACE	DELIVERY TABLE: GPSPOINT	DELIVERY TABLE: HOUSEHOLD_REPLICATE_WEIGHTS	DELIVERY TABLE: PERSON_REPLICATE_WEIGHTS	DELIVERY TABLE: TOUR
REC	REC SCRIPT	NUM	**HHSIZ**	Household Size	Including yourself, how many people live in your home?	Code Dictionary	1									
REC	SYSTEM	NUM	**HHSIZX**	Household Size (Derived)	System variable - no question wording		1									
REC	SYSTEM	NUM	**HHSTUD**	Count of Household Students	System variable - no question wording		1									
RET	SYSTEM	NUM	**HHTRIPS**	Total count of Household trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.	System variable - no question wording		1									
REC	REC SCRIPT	NUM	**HHVEH**	Count of Household Vehicles	How many motor vehicles are owned, leased, or available for regular use by the people who live in your household? Please be sure to include motorcycles, mopeds and RVs	Code Dictionary	1									
RET	RET SCRIPT	NUM	**HHVEH_USED**	Household Vehicle Used for Trip	Was a vehicle from your household used for this trip?	Code Dictionary			1							
REC	SYSTEM	NUM	**HHWORKER**	Count of Household Workers	System variable - no question wording		1									
REC	REC SCRIPT	NUM	**HOMEOWN**	Home Ownership This question is only asked when SPONSOR=2 or SPONSOR=3	Do you own or rent your home?	Code Dictionary	1									
REC	REC SCRIPT	TEXT	**HOMEOWN_O**	Other, Home Ownership	Please describe your arrangement.		1									
RET	RET SCRIPT	NUM	**HVLOG**	Have Log	Did you have the completed travel log to refer to while reporting {your/FNAME's} travel?	Code Dictionary		1								
REC	REC SCRIPT	NUM	**INDUS**	Empoyer industry	What is {your/FNAME} employer's industry?	Code Dictionary		1								
REC	REC SCRIPT	TEXT	**INDUS_O**	Other, employer industry	[IF INDUSTRY TYPE IS NOT IMMEDIATELY OBVIOUS SELECT 'OTHER, SPECIFY' AND ENTER JOB If you said something else, please describe.			1								
RET	SYSTEM	NUM	**IS_TRIP**	This variable is to assist in conveniently calculating raw trip rates. IS_TRIP is 1 when the place is not the first place of the day or when the place is not the arrival place of a delivery driver trip. A place is	System variable - no question wording	Code Dictionary			1							
REC	REC SCRIPT	NUM	**JOBS**	Number of jobs	How many jobs {do you/does FNAME} work?	Code Dictionary		1								
REC	SYSTEM	NUM	**LATITUDE**	Latitude Value derived from GPS when in GPSPLACE and GPSPOINT tables	System variable - no question wording				1	1	1	1	1			
RET	RET SCRIPT	TEXT	**LD_12MTH**	Number of times traveled to long distance location in Last 12 Months	How many times have {you/they} visited {LD_Destination} in the past 12 months?	Code Dictionary					1					
RET	RET SCRIPT	NUM	**LD_12MTH2**	Last 12 months confirmation	You just reported going to [LD_Destination] more than 100 times in the past 12 months. Please confirm, this is accurate?	Code Dictionary					1					
RET	RET SCRIPT	TEXT	**LD_3MTH**	Number of times traveled to long distance location in Last 3 Months	How many times have {you/they} visited {LD_Destination} in the past 3 months?	Code Dictionary					1					
RET	RET SCRIPT	NUM	**LD_3MTH2**	Last 3 months confirmation	You just reported going to [LD_Destination] more than 30 times in the past 3 months. Please confirm, this is accurate?	Code Dictionary					1					
RET	RET SCRIPT	TEXT	**LD_DEP_DT**	Long distance trip departure date in ISO 8601 Date	What date did {you/they} leave home to travel to {LD_Destination}?						1					
RET	RET SCRIPT	TEXT	**LD_DMODE**	Types of transportation used on long distance Trip	What type of transportation did {you/they} use to get around while visiting {LD_Destination}? Anything else?	Code Dictionary					1					
RET	RET SCRIPT	TEXT	**LD_DMODE_O**	Other, types of transportation used on long distance Trip	Please describe the type of transportation used.						1					
RET	RET SCRIPT	TEXT	**LD_HHMEM**	Concatenation of household person identifiers on long distance trip	Which household members went to {LD_Destination}?	Code Dictionary					1					
RET	RET SCRIPT	NUM	**LD_HHMEMCT**	Count of household members on long distance trip	System variable - no question wording						1					
RET	RET SCRIPT	NUM	**LD_INTRO**	Long Distance Trip Intro	The following questions are about long distance travel. Michigan's transportation planning community is interested in the way people choose to travel whenever they leave their home region	Code Dictionary	1									

REC/RET	SOURCE	DATA TYPE	VARIABLE NAME	VARIABLE DESCRIPTION	QUESTION TEXT	VALUES	DELIVERY TABLE: HOUSEHOLD	DELIVERY TABLE: PERSON	DELIVERY TABLE: PLACE	DELIVERY TABLE: LOCATION	DELIVERY TABLE: LONGDIST	DELIVERY TABLE: GPSPLACE	DELIVERY TABLE: GPSPOINT	DELIVERY TABLE: HOUSEHOLD_REPLICATE_WEIGHTS	DELIVERY TABLE: PERSON_REPLICATE_WEIGHTS	DELIVERY TABLE: TOUR
RET	RET SCRIPT	NUM	**LD_MODE**	Transportation to LD Destination	What type of transportation did {you/they} use for most of the distance traveled to {LD_Destination}?	Code Dictionary					1					
RET	RET SCRIPT	TEXT	**LD_MODE_O**	Other, Transportation to LD Destination	Please describe the type of transportation used.						1					
RET	RET SCRIPT	TEXT	**LD_MODE2**	Other Type(s) of Transportation to LD Dest	Did {you/they} use any other type of transportation to get to {LD_Destination}? [IF NO, CODE NO OTHER MODES]	Code Dictionary					1					
RET	RET SCRIPT	TEXT	**LD_MODE2_O**	Other, 2nd Type of Transportation to LD Dest	Please describe the type of transportation used.						1					
RET	RET SCRIPT	NUM	**LD_REAS**	Primary Reason for Long Distance Trip	What was {your/their} primary reason for traveling to {LD_Destination}?	Code Dictionary					1					
RET	RET SCRIPT	TEXT	**LD_REAS_O**	Other, Reason for Long Distance Trip	Please describe {your/their} main reason for the trip.						1					
RET	RET SCRIPT	TEXT	**LD_RET_DT**	Long distance trip return date in ISO 8601 Date	What date did {you/they} arrive home from {LD_Destinaton}?						1					
RET	RET SCRIPT	NUM	**LDTRIPNO**	Long Distance Trip Number	System variable - no question wording						Primary Key					
REC	REC SCRIPT	NUM	**LIC**	License	{Do you/Does FNAME} have a valid drivers license?	Code Dictionary		1								
NA	SYSTEM	NUM	**LIFECYCLE**	Lifecycle Categories	System variable - no question wording	Code Dictionary	1									
RET	RET SCRIPT	NUM	**LNGTRP**	Trip length longer than usual	Did this trip take longer than usual to make?	Code Dictionary			1							
RET	RET SCRIPT	NUM	**LNGTRP_R**	Reason for longer than usual trip	Which of the following best describes why the trip took as long as it did?	Code Dictionary			1							
RET	RET SCRIPT	TEXT	**LNGTRP_R_O**	Other, reason for longer than usual trip	If you said something else, please provide details.				1							
RET	GPS	NUM	**LOCALID**	In GPSPOINT table, auto-incrementing ID from GPS logger									Primary Key			
RET	SYSTEM	TEXT	**LOCNAME**	Location name	{At 3:00 AM {were you/was FNAME} at home or someplace else? / Where did {you/FNAME} go {first/next}?}				1	1	1					
RET	SYSTEM	NUM	**LOCNO**	Location number	System variable - no question wording				Primary Key	Primary Key						
REC	SYSTEM	NUM	**LOCTYPE**	Type of location	System variable - no question wording	Code Dictionary				1						
REC	SYSTEM	NUM	**LONGITUDE**	Longitude Value derived from GPS when in GPSPLACE and GPSPOINT tables	System variable - no question wording				1	1	1	1	1			
RET	RET SCRIPT	NUM	**MODE**	Transportation Mode Value initially derived from GPS when in GPSPLACE table, and later confirmed or edited by participant during retrieval survey	How did {you/FNAME} get to this place?	Code Dictionary			1			1				
RET	RET SCRIPT	TEXT	**MODE_O**	Other, Transportation Mode	Please describe how {you/FNAME} got to this place.				1							
RET	GPS	NUM	**NBSAT**	In GPSPOINT table, Number of satellites of GPS point	Derived variable - no question wording								1			
REC	REC SCRIPT	NUM	**NODRIVE**	Licensed Non-Driver	What is the main reason {you/FNAME} do not drive? Is it because...	Code Dictionary		1								
REC	REC SCRIPT	TEXT	**NODRIVE_O**	Other Licensed Non-Driver	If you said something else, please describe.			1								
RET	RET SCRIPT	NUM	**NOGOWHY**	Reason for no trips	What was the main reason that {you/FNAME} did not go anywhere on {your/their} travel day?	Code Dictionary		1								
RET	RET SCRIPT	TEXT	**NOGOWHY_O**	Other reason no trips	If you said something else, please provide details.			1								

REC/RET	SOURCE	DATA TYPE	VARIABLE NAME	VARIABLE DESCRIPTION	QUESTION TEXT	VALUES	DELIVERY TABLE: HOUSEHOLD	DELIVERY TABLE: PERSON	DELIVERY TABLE: PLACE	DELIVERY TABLE: LOCATION	DELIVERY TABLE: LONGDIST	DELIVERY TABLE: GPSPLACE	DELIVERY TABLE: GPSPOINT	DELIVERY TABLE: HOUSEHOLD_REPLICATE_WEIGHTS	DELIVERY TABLE: PERSON_REPLICATE_WEIGHTS	DELIVERY TABLE: TOUR
REC	REC SCRIPT	NUM	**NOLIC**	Age Eligible No License	What is the main reason (you do/FNAME does) not have a driver's license?	Code Dictionary		1								
REC	REC SCRIPT	TEXT	**NOLIC_O**	Other, Age Eligible No License	If you said something else, please describe.			1								
RET	SYSTEM	NUM	**NONHHMTP**	Count of Non-Household members on trip	System variable - no question wording				1							
RET	SYSTEM	NUM	**PARTY**	Number of people on trip (not including respondent)	How many people went to this place with (you/FNAME)?				1							
RET	SYSTEM	NUM	**PERCOMP**	Person Level Completion	System variable - no question wording	Code Dictionary		1								
REC	REC SCRIPT	NUM	**PERNO**	Person Identifier	System variable - no question wording			Primary Key	Primary Key	1		Primary Key	Primary Key		Primary Key	Primary Key
NA	SYSTEM	NUM	**PERRKWT (0-100 Range)**	Intermediate Person Weights	System variable - no question wording										1	
NA	SYSTEM	NUM	**PERRKWT0**	Person Weight	System variable - no question wording			1							1	
RET	RET SCRIPT	NUM	**PERTP**	Comma-delimited concatenation of household person identifiers listed on trip (i.e. travelled with this perno to this placeno). The person reporting could not select themselves from the list of	System variable - no question wording				1							
RET	SYSTEM	NUM	**PERTRIPS**	Total Count of Person trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.	System variable - no question wording			1								
NA	SYSTEM	NUM	**PERTYPE**	Person Type	System variable - no question wording	Code Dictionary		1								
RET	SYSTEM	NUM	**PLACENO**	Place Identifier Value derived from GPS when in GPSPLACE and GPSPOINT tables	System variable - no question wording				Primary Key			Primary Key	Primary Key			
REC	SYSTEM	NUM	**POBOXFLAG**	Flag for whether sampled address is a PO Box	System variable - no question wording	Code Dictionary	1									
RET	SYSTEM	NUM	**PROXYPERNO**	Person reporting travel	For travel day trip reporting: REVIEW THE LIST OF HHMS. ALWAYS ASK TO SPEAK DIRECTLY WITH AN ADULT WHO HAS NOT REPORTED THEIR TRAVEL IF NOT AVAILABLE			1	1		1					
RET	SYSTEM	NUM	**PUDOTRIPS**	Total Count of Pick Up / Drop Off Trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.	System variable - no question wording		1									
REC	REC SCRIPT	NUM	**RECMODE**	Recruit Mode	System variable - no question wording	Code Dictionary	1									
REC	SYSTEM	NUM	**REGION**	Home Region	System variable - no question wording	Code Dictionary	1									
RET	SYSTEM	NUM	**RETMODE**	Retrieval Mode	System variable - no question wording	Code Dictionary	1									
REC	SYSTEM	NUM	**SAMPNO**	Sample Number	System variable - no question wording		Primary Key	Primary Key	Primary Key	Primary Key	Primary Key	Primary Key	Primary Key	Primary Key	Primary Key	Primary Key
REC	REC SCRIPT	NUM	**SCHOL**	Level of School	What school grade or level (do you/does FNAME) attend?	Code Dictionary		1								
REC	REC SCRIPT	TEXT	**SCHOL_O**	Other, Level of School	If you said something else, please provide details.			1								
REC	SYSTEM	NUM	**SEMCOG_ID**	SEMCOG address point 'idnumber'						1						
REC	REC SCRIPT	NUM	**SEX**	Gender	[IF SEX IS OBVIOUS CODE, ELSE ASK] {Are you/Is FNAME} male or female?	Code Dictionary		1								
RET	SYSTEM	NUM	**SHOPTRIPS**	Total Count of Shopping Trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.	System variable - no question wording		1									
REC	REC SCRIPT	NUM	**SLOC**	Home Schooled	{Are you/Is FNAME} home schooled?	Code Dictionary		1								

REC/RET	SOURCE	DATA TYPE	VARIABLE NAME	VARIABLE DESCRIPTION	QUESTION TEXT	VALUES	DELIVERY TABLE: HOUSEHOLD	DELIVERY TABLE: PERSON	DELIVERY TABLE: PLACE	DELIVERY TABLE: LOCATION	DELIVERY TABLE: LONGDIST	DELIVERY TABLE: GPSPLACE	DELIVERY TABLE: GPSPOINT	DELIVERY TABLE: HOUSEHOLD_REPLICATE_WEIGHTS	DELIVERY TABLE: PERSON_REPLICATE_WEIGHTS	DELIVERY TABLE: TOUR
REC	REC SCRIPT	NUM	**SMODE**	Mode of Transport to School	How (do you/does FNAME) usually get to school?	Code Dictionary		1								
REC	REC SCRIPT	TEXT	**SMODE_O**	Other, Mode of Transport to School	If you said something else, please provide details.			1								
RET	GPS	NUM	**SPEED**	In GPSPOINT table, Point Speed	System variable - no question wording								1			
REC	SYSTEM	NUM	**SPONSOR**	Sample Sponsor	System variable - no question wording	Code Dictionary	1									
NA	SYSTEM	NUM	**START_TIME**	The start time of the tour (the departure time of the place beginning a tour)	System variable - no question wording											1
REC	SYSTEM	TEXT	**STATE**	State	System variable - no question wording				1	1	1					
REC	REC SCRIPT	NUM	**STUDE**	Student Status	{Are you/Is FNAME} currently enrolled in any type of school, including {daycare), technical school or university?	Code Dictionary		1								
REC	REC SCRIPT	NUM	**SWEB**	Online-only School	Is {your/FNAME's} school an online-only curriculum?	Code Dictionary		1								
REC	REC SCRIPT	NUM	**TCDAYS**	Telecommuting days per week. This is an open field input question with an answer range of 0-7.	How many days {do you/does FNAME} telecommute per week (meaning {you work/FNAME works} from home instead of traveling to {your/their} workplace)?			1								
REC	REC SCRIPT	NUM	**TCOFF**	Telecommuting Offered	Regardless of whether {you telecommute/FNAME telecommutes), is telecommuting offered at {your/FNAME's}{primary} workplace?	Code Dictionary		1								
RET	GPS	NUM	**TDNO**	In GPSPLACE and GPSPOINT: Travel Day Number	System variable - no question wording							1	1			
RET	GPS	NUM	**TDPLACENO**	In GPSPLACE and GPSPOINT tables, Place number on travel day	System variable - no question wording							1	1			
NA	SYSTEM	NUM	**TFQ_TCF**	Tour frequency travel correction factor, derived using GPS-PR travel data.	System variable - no question wording				1							
RET	GPS	DATE/TIME	**TIME_LOCAL**	In GPSPOINT table, Point time in Local (in ISO 8601 Date and Time)	System variable - no question wording								1			
RET	GPS	DATE/TIME	**TIME_UTC**	In GPSPOINT table, Point time in UTC (in ISO 8601 Date and Time)	System variable - no question wording								1			
NA	SYSTEM	NUM	**TOUR_TYPE**	A tour consists of every reported place from when a participant left their home to when they returned home. Within these home-based tours, there may be work-based subtours, which consist of every	System variable - no question wording	Code Dictionary										1
NA	SYSTEM	NUM	**TOURNO**	Tour Identifier. Home-based tours are in whole number integer format. Work-based sub-tours, nested within home-based-tours, have numerical precision corresponding with its home-based tour	System variable - no question wording				1							Primary Key
RET	RET SCRIPT	NUM	**TPURP**	Trip Purpose	What was {your/FNAME's} main activity at this place?	Code Dictionary			1							
RET	RET SCRIPT	TEXT	**TPURP_O**	Other, Trip Purpose	Please describe {your/FNAME's} main activity.				1							
RET	RET SCRIPT	NUM	**TPURP2**	Secondary Trip Purpose	And what else did {you/FNAME} do at this place?	Code Dictionary			1							
RET	RET SCRIPT	TEXT	**TPURP2_O**	Other, Secondary Trip Purpose	Please describe what else {you/FNAME} did.				1							
REC	SYSTEM	NUM	**TRAVDAY**	Travel Day of Week	System variable - no question wording	Code Dictionary	1		1							
RET	SYSTEM	NUM	**TRAVTIME**	Trip Duration (calculated), in minutes Value derived from GPS when in GPSPLACE table	System variable - no question wording				1			1				
REC	REC SCRIPT	DATE/TIME	**TRIPDATE**	Assigned Travel Day	The travel date that has been selected for your household is {TRAVELDATE}.		1		1							
NA	SYSTEM	NUM	**TSP_TCF**	Tour stop frequency travel correction factor, derived using GPS-PR travel data.	System variable - no question wording				1							

REC/RET	SOURCE	DATA TYPE	VARIABLE NAME	VARIABLE DESCRIPTION	QUESTION TEXT	VALUES	DELIVERY TABLE: HOUSEHOLD	DELIVERY TABLE: PERSON	DELIVERY TABLE: PLACE	DELIVERY TABLE: LOCATION	DELIVERY TABLE: LONGDIST	DELIVERY TABLE: GPSPLACE	DELIVERY TABLE: GPSPOINT	DELIVERY TABLE: HOUSEHOLD_REPLICATE_WEIGHTS	DELIVERY TABLE: PERSON_REPLICATE_WEIGHTS	DELIVERY TABLE: TOUR
REC	REC SCRIPT	NUM	**WKSTAT**	Employment status	Which of the following best describes {your/FNAME's} employment status?	Code Dictionary		1								
REC	REC SCRIPT	TEXT	**WKSTAT_O**	Other, Employment status	If you said something else, please describe.			1								
REC	REC SCRIPT	NUM	**WMODE**	Mode of Transport to Work	How do {you/FNAME} usually travel to work?	Code Dictionary		1								
REC	REC SCRIPT	TEXT	**WMODE_O**	Other, Mode of Transport to Work	If you said something else, please provide details.			1								
RET	SYSTEM	NUM	**WORKTRIPS**	Total Count of Work Trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.	System variable - no question wording		1									
REC	REC SCRIPT	NUM	**WPLACE**	Work Place Location	{Do you/Does FNAME} go to the same work place every day that {you work/FNAME works}?	Code Dictionary		1								
REC	SYSTEM	NUM	**ZIP**	Address postal code	System variable - no question wording				1	1	1					

VARIABLE NAME	VALUE	TEXT
AAGE	-8	I don't know
AAGE	-7	I prefer not to answer
AAGE	1	0-4 years old or
AAGE	2	5-15 years old
AAGE	3	16-17 years old
AAGE	4	18-64 years old
AAGE	5	65-75 years old
AAGE	6	76 years old or older
AGE	-8	I don't know
AGE	-7	I prefer not to answer
AGE18	-8	I don't know
AGE18	-7	I prefer not to answer
AGE18	1	Yes, 18 or older
AGE18	2	No, under 18
AGE_AAGE	-8	I don't know
AGE_AAGE	-7	I prefer not to answer
AGE_AAGE	1	0-4 years old or
AGE_AAGE	2	5-15 years old
AGE_AAGE	3	16-17 years old
AGE_AAGE	4	18-64 years old
AGE_AAGE	5	65-75 years old
AGE_AAGE	6	76 years old or older
ALTADD	1	Yes, I can receive FedEx packages at the address provided.
ALTADD	2	No, I would like to provide a different physical mailing address (such as work location) where the package should be sent.
ALTADD	3	I can only receive mail through my P.O. Box and there is no other reliable address at which I can receive packaged mail.
CHGADDBOX	-8	I don't know
CHGADDBOX	-7	I prefer not to answer
CHGADDBOX	1	Yes
CHGADDBOX	3	No, the zipcode is incorrect
CHGADDBOX	5	No, this is not my address
CHGADDPHYS	-8	I don't know
CHGADDPHYS	-7	I prefer not to answer
CHGADDPHYS	1	Yes
CHGADDPHYS	2	No, the apartment number is incorrect
CHGADDPHYS	3	No, the zip code is incorrect
CHGADDPHYS	4	No, both the apartment number and zip code are incorrect
CHGADDPHYS	5	No, this is not my address
CPLOG	-8	I don't know
CPLOG	-7	I prefer not to answer
CPLOG	1	Yes
CPLOG	2	No
DELIV_DRIV	-8	I don't know
DELIV_DRIV	-7	I prefer not to answer
DELIV_DRIV	1	Yes
DELIV_DRIV	2	No
DRIVE	-8	I don't know
DRIVE	-7	I prefer not to answer
DRIVE	1	Yes
DRIVE	2	No
EDUC	-8	I don't know
EDUC	-7	I prefer not to answer
EDUC	1	Not a high school graduate, grade 12 or less (this includes very young children)
EDUC	2	High school graduate (high school diploma or GED)
EDUC	3	Some college credit but no degree
EDUC	4	Associate or technical school degree
EDUC	5	Bachelor's or undergraduate degree
EDUC	6	Graduate degree (includes professional degree like PHD, MD, DD, JD)
EDUC	97	Some other degree
EMPLY	-8	I don't know
EMPLY	-7	I prefer not to answer
EMPLY	1	Yes

VARIABLE NAME	VALUE	TEXT
EMPLY	2	No
EMPLYNOJOB	1	[$YOU_ARE_CAP] not employed
EMPLYNOJOB	2	[$YOU_HAVE_CAP] at least one job
EMPYTYPE	-8	I don't know
EMPYTYPE	-7	I prefer not to answer
EMPYTYPE	1	Private employer
EMPYTYPE	2	State/local government
EMPYTYPE	3	Federal government – civilian
EMPYTYPE	4	Military
EMPYTYPE	5	Self-employed
EMPYTYPE	97	Something else
FINALGFLAG	0	Non-GPS Household
FINALGFLAG	1	GPS HOUSEHOLD
FINALGFLAG	2	Ineligible due to age
FINALGFLAG	3	Refused GPS
FINALGFLAG	4	Travel date too far
FINALGFLAG	9	Unexpected GPS Ineligible
FUTURESURV	-9	Not Ascertained
FUTURESURV	-8	I don't know
FUTURESURV	-7	I prefer not to answer
FUTURESURV	1	Yes
FUTURESURV	2	No
GFLAG	0	Non-GPS Household
GFLAG	1	GPS Household
GPS_ASSOC	1	TRUE
GPSCTRL	0	Recruited
GPSCTRL	1	Shipped
GPSCTRL	2	Not Returned - Refused
GPSCTRL	3	Over-Recruit
GPSCTRL	4	Invalid Address
GPSCTRL	5	Refused on Delivery
GPSCTRL	6	Deployed
GPSCTRL	7	Lost
GPSCTRL	8	Returned - Deployed
GPSCTRL	9	Returned - Refused
GPSCTRL	10	Returned - Delivery Exception
GPSCTRL	11	Returned - Prompted Recall Failure
HASPOBOX	1	Yes
HASPOBOX	2	No
HHINC	-8	I don't know
HHINC	-7	I prefer not to answer
HHINC	1	Less than $15,000
HHINC	2	$15,000 to $24,999
HHINC	3	$25,000 to $34,999
HHINC	4	$35,000 to $49,999
HHINC	5	$50,000 to $74,999
HHINC	6	$75,000 to $99,999
HHINC	7	$100,000 to $124,999
HHINC	8	$125,000 to $149,999
HHINC	9	$150,000 or more
HHINC_I	1	Less than $15,000
HHINC_I	2	$15,000 to $24,999
HHINC_I	3	$25,000 to $34,999
HHINC_I	4	$35,000 to $49,999
HHINC_I	5	$50,000 to $74,999
HHINC_I	6	$75,000 to $99,999
HHINC_I	7	$100,000 to $124,999
HHINC_I	8	$125,000 to $149,999
HHINC_I	9	$150,000 or more
HHINC2	-8	I don't know
HHINC2	-7	I prefer not to answer

VARIABLE NAME	VALUE	TEXT
HHINC2	1	Less than $25,000
HHINC2	2	$25,000 to $49,999
HHINC2	3	$50,000 to $74,999
HHINC2	4	$75,000 or more
HHSIZ	-8	I don't know
HHSIZ	-7	I prefer not to answer
HHVEH	-8	I don't know
HHVEH	-7	I prefer not to answer
HHVEH_USED	-9	Not Ascertained
HHVEH_USED	-8	I don't know
HHVEH_USED	-7	I prefer not to answer
HHVEH_USED	1	Yes
HHVEH_USED	2	No
HOMEOWN	-8	I don't know
HOMEOWN	-7	I prefer not to answer
HOMEOWN	1	Own without mortgage
HOMEOWN	2	Own with mortgage
HOMEOWN	3	Rent
HOMEOWN	4	Occupied without payment of rent
HOMEOWN	97	Some other arrangement
HVLOG	-8	I don't know
HVLOG	-7	I prefer not to answer
HVLOG	1	Yes
HVLOG	2	No
INDUS	-8	I don't know
INDUS	-7	I prefer not to answer
INDUS	11	Agriculture, forestry, fishing and hunting
INDUS	21	Mining, quarrying, and oil and gas extraction
INDUS	22	Utilities
INDUS	23	Construction
INDUS	31	Manufacturing
INDUS	42	Wholesale trade
INDUS	44	Retail trade
INDUS	48	Transportation and warehousing
INDUS	51	Information
INDUS	52	Finance and insurance
INDUS	53	Real estate, rental and leasing
INDUS	54	Professional, scientific and technical services
INDUS	55	Management of companies and enterprises
INDUS	56	Administration and support of waste management and remediation services
INDUS	61	Educational services
INDUS	62	Healthcare and social assistance
INDUS	71	Arts, entertainment, and recreation
INDUS	72	Food and drinking establishments
INDUS	81	Other services (except public administration)
INDUS	92	Public administration
INDUS	97	Something else
IS_TRIP	0	No
IS_TRIP	1	Yes
JOBS	-8	I don't know
JOBS	-7	I prefer not to answer
LIFECYCLE	1	Household has 1 adult, no children and no retired persons
LIFECYCLE	2	Household has 2 or more adults, no children and no retired persons
LIFECYCLE	3	Household has 1 adult and the youngest child is 0 to 4 years old
LIFECYCLE	4	Household has 2 or more adults and the youngest child is 0 to 4 years old
LIFECYCLE	5	Household has one adult and the youngest child is 5 to 17 years old
LIFECYCLE	6	Household has 2 or more adults and the youngest child is 5 to 17 years old
LIFECYCLE	7	Household has 2 adults and the age gap is 15 years or more
LIFECYCLE	8	Household has 2 or more adults and the age gap for any two members is 15 years or more
LIFECYCLE	9	Household has 1 or more adults with no children and all adults are retired
LIFECYCLE	10	Too many item non-response cases to impute relationships

VARIABLE NAME	VALUE	TEXT
LD_12MTH	-8	I don't know
LD_12MTH	-7	I prefer not to answer
LD_12MTH2	-8	I don't know
LD_12MTH2	-7	I prefer not to answer
LD_12MTH2	1	Yes
LD_12MTH2	2	No
LD_3MTH	-8	I don't know
LD_3MTH	-7	I prefer not to answer
LD_3MTH2	-8	I don't know
LD_3MTH2	-7	I prefer not to answer
LD_3MTH2	1	Yes
LD_3MTH2	2	No
LD_DMODE	-8	I don't know
LD_DMODE	-7	I prefer not to answer
LD_DMODE	0	None
LD_DMODE	1	Walk
LD_DMODE	2	Bicycle
LD_DMODE	3	Motorcycle/moped
LD_DMODE	4	Auto/van/truck
LD_DMODE	6	Carpool/vanpool
LD_DMODE	7	School bus
LD_DMODE	8	Public transit – local bus, subway, elevated train, light rail
LD_DMODE	9	Dial-a-ride/paratransit
LD_DMODE	10	Private bus or shuttle
LD_DMODE	11	Taxi/limo
LD_DMODE	12	Train/Amtrak
LD_DMODE	13	Detroit People Mover
LD_DMODE	14	Airplane
LD_DMODE	15	Boat/ferry
LD_DMODE	97	Something else
LD_HHMEM	-8	I don't know
LD_HHMEM	-7	I prefer not to answer
LD_HHMEM	1	[$FNAME:R1]
LD_HHMEM	2	[$FNAME:R2]
LD_HHMEM	3	[$FNAME:R3]
LD_HHMEM	4	[$FNAME:R4]
LD_HHMEM	5	[$FNAME:R5]
LD_HHMEM	6	[$FNAME:R6]
LD_HHMEM	7	[$FNAME:R7]
LD_HHMEM	8	[$FNAME:R8]
LD_HHMEM	9	[$FNAME:R9]
LD_HHMEM	10	[$FNAME:R10]
LD_HHMEM	11	[$FNAME:R11]
LD_HHMEM	12	[$FNAME:R12]
LD_INTRO	-9	Not Ascertained
LD_INTRO	-8	I don't know
LD_INTRO	-7	I prefer not to answer
LD_INTRO	1	Yes
LD_INTRO	2	No
LD_MODE	-8	I don't know
LD_MODE	-7	I prefer not to answer
LD_MODE	1	Walk
LD_MODE	2	Bicycle
LD_MODE	3	Motorcycle/moped
LD_MODE	4	Auto/van/truck
LD_MODE	5	Auto/van/truck (as the passenger)
LD_MODE	6	Carpool/vanpool
LD_MODE	7	School bus
LD_MODE	8	Public transit – local bus, subway, elevated train, light rail
LD_MODE	9	Dial-a-ride/paratransit
LD_MODE	10	Private bus or shuttle

VARIABLE NAME	VALUE	TEXT
LD_MODE	11	Taxi/limo
LD_MODE	12	Train/Amtrak
LD_MODE	13	Detroit People Mover
LD_MODE	14	Airplane
LD_MODE	15	Boat/ferry
LD_MODE	97	Something else
LD_MODE2	-8	I don't know
LD_MODE2	-7	I prefer not to answer
LD_MODE2	0	No other types of transportation
LD_MODE2	1	Walk
LD_MODE2	2	Bicycle
LD_MODE2	3	Motorcycle/moped
LD_MODE2	4	Auto/van/truck
LD_MODE2	5	Auto/van/truck (as the passenger)
LD_MODE2	6	Carpool/vanpool
LD_MODE2	7	School bus
LD_MODE2	8	Public transit – local bus, subway, elevated train, light rail
LD_MODE2	9	Dial-a-ride/paratransit
LD_MODE2	10	Private bus or shuttle
LD_MODE2	11	Taxi/limo
LD_MODE2	12	Train/Amtrak
LD_MODE2	13	Detroit People Mover
LD_MODE2	14	Airplane
LD_MODE2	15	Boat/ferry
LD_MODE2	97	Something else
LD_REAS	-8	I don't know
LD_REAS	-7	I prefer not to answer
LD_REAS	1	Work/business
LD_REAS	2	School-related
LD_REAS	3	Vacation
LD_REAS	4	Social
LD_REAS	5	Sightseeing
LD_REAS	6	Recreation
LD_REAS	7	Entertainment
LD_REAS	8	Shopping
LD_REAS	9	Family/personal reasons
LD_REAS	10	Religious
LD_REAS	11	Medical
LD_REAS	97	Something else
LIC	-8	I don't know
LIC	-7	I prefer not to answer
LIC	1	Yes
LIC	2	No
LNGTRP	-8	I don't know
LNGTRP	-7	I prefer not to answer
LNGTRP	1	Yes
LNGTRP	2	No
LNGTRP_R	-8	I don't know
LNGTRP_R	-7	I prefer not to answer
LNGTRP_R	1	Weather (e.g., rain or snow)
LNGTRP_R	2	Construction
LNGTRP_R	3	An accident
LNGTRP_R	4	Traffic congestion
LNGTRP_R	97	Something else
LOCTYPE	1	HOME
LOCTYPE	2	WORK
LOCTYPE	3	SCHOOL
LOCTYPE	4	OTHER
MODE	-8	I don't know
MODE	-7	I prefer not to answer
MODE	1	Walk

VARIABLE NAME	VALUE	TEXT
MODE	2	Bicycle
MODE	3	Motorcycle/moped
MODE	4	Auto / van / truck (as the driver)
MODE	5	Auto / van / truck (as the passenger)
MODE	6	Carpool/vanpool
MODE	7	School bus
MODE	8	Public transit – local bus
MODE	9	Dial-a-ride/paratransit
MODE	10	Private bus or shuttle
MODE	11	Taxi/limo
MODE	12	Train/Amtrak
MODE	13	Detroit People Mover
MODE	14	Airplane
MODE	15	Boat/ferry
MODE	97	Something Else
NODRIVE	-8	I don't know
NODRIVE	-7	I prefer not to answer
NODRIVE	1	Owning/maintaining a car is too expensive
NODRIVE	2	Insurance is too expensive
NODRIVE	3	Driving makes [$YOU1] nervous
NODRIVE	4	Medical/physical limitations
NODRIVE	5	[$I_PREFER] alternative types of transportation (public transportation, taxi, rideshare, etc.)
NODRIVE	97	Something else
NOGOWHY	-8	I don't know
NOGOWHY	-7	I prefer not to answer
NOGOWHY	1	Personally sick
NOGOWHY	2	Vacation or personal day
NOGOWHY	3	Caretaking
NOGOWHY	4	Home-bound elderly or disabled
NOGOWHY	5	Worked at home (for pay)
NOGOWHY	6	Not scheduled to work
NOGOWHY	7	Worked around home (not for pay)
NOGOWHY	8	Out of area
NOGOWHY	9	No transportation available
NOGOWHY	10	No longer a household resident
NOGOWHY	97	Something else
NOLIC	-8	I don't know
NOLIC	-7	I prefer not to answer
NOLIC	1	Owning/maintaining a car is too expensive
NOLIC	2	Insurance is too expensive
NOLIC	3	Do not need a driver's license
NOLIC	4	Suspended/revoked
NOLIC	5	Medical/physical limitations
NOLIC	6	Prefer alternative types of transportation (public transportation, taxi, rideshare, etc.)
NOLIC	97	Something else
PERCOMP	0	Person did not complete survey
PERCOMP	1	Person completed survey
PERTYPE	-9	Not Ascertained
PERTYPE	1	Full-time Worker
PERTYPE	2	Part-time Worker
PERTYPE	3	University Student
PERTYPE	4	Non-worker
PERTYPE	5	Retiree
PERTYPE	6	Driving Age Child
PERTYPE	7	Pre-driving Age Child
PERTYPE	8	Preschool Child
POBOXFLAG	0	Non-PO Box
POBOXFLAG	1	PO Box
RECMODE	0	Not worked
RECMODE	1	CATI
RECMODE	2	Web

VARIABLE NAME	VALUE	TEXT
REGION	1	Southeast Michigan Council of Governments (SEMCOG) minus Washtenaw County (WATS)
REGION	2	Southern Michigan Rural
REGION	3	Northern Michigan Rural
REGION	4	Small Cities
REGION	5	Grand Valley Metropolitan Council (GVMC)
REGION	6	Tri-County Regional Planning Commission (TCRPC)
REGION	7	Genesee County Metropolitan Planning Commission (GCMPC)
REGION	8	Great Lakes Bay Region (GLBR)
REGION	9	Washtenaw Area Transportation Study (WATS)
REGION	10	Kalamazoo Area Transportation Study (KATS)
REGION	11	West Michigan Metropolitan Transportation Planning Program (WestPlan)
REGION	12	Jackson Area Comprehensive Transportation Study (JACTS)
REGION	13	Twin Cities Area Transportation Study (TwinCATS) and Nilles/Buchanan/Cass Area Transportation Study (NATS)
REGION	14	Macatawa Area Coordinating Council (MACC)
REGION	15	Battle Creek Area Transportation Study (BCATS)
REGION	16	Traverse City (TVC)
REGION	17	Eastern Wayne
REGION	18	Western Wayne
REGION	19	Oakland
REGION	20	Macomb
REGION	21	Monroe
REGION	22	St. Clair
REGION	23	Livingston
RETMODE	0	Not worked
RETMODE	1	CATI
RETMODE	2	Web
SCHOL	-8	I don't know
SCHOL	-7	I prefer not to answer
SCHOL	1	Daycare
SCHOL	2	Nursery/Pre-school
SCHOL	3	Kindergarten to 8th grade
SCHOL	4	9th – 12th grade
SCHOL	5	Vocational/Technical school
SCHOL	6	2-year college (community college)
SCHOL	7	4-year college or university
SCHOL	8	Graduate/Professional school
SCHOL	97	Something else
SEX	-8	I don't know
SEX	-7	I prefer not to answer
SEX	1	Male
SEX	2	Female
SLOC	-8	I don't know
SLOC	-7	I prefer not to answer
SLOC	1	Yes
SLOC	2	No
SMODE	-8	I don't know
SMODE	-7	I prefer not to answer
SMODE	1	Walk
SMODE	2	Bicycle
SMODE	3	Motorcycle/moped
SMODE	4	Auto/van/truck (as the driver)
SMODE	5	Auto/van/truck (as the passenger)
SMODE	6	Carpool/vanpool
SMODE	7	School bus
SMODE	8	Public transit – local bus
SMODE	9	Dial-a-ride/paratransit
SMODE	10	Private bus or shuttle
SMODE	11	Taxi/limo
SMODE	12	Train/Amtrak
SMODE	13	Detroit People Mover
SMODE	14	Airplane

VARIABLE NAME	VALUE	TEXT
SMODE	15	Boat/ferry
SMODE	16	[$I_DO] not travel to school
SMODE	97	Something else
SPONSOR	1	Michigan Department of Transportation
SPONSOR	2	Michigan Department of Transportation and the Southeast Michigan Council of Governments
SPONSOR	3	Southeast Michigan Council of Governments
STUDE	-8	I don't know
STUDE	-7	I prefer not to answer
STUDE	1	Yes - Full Time
STUDE	2	Yes - Part Time
STUDE	3	No
SWEB	-8	I don't know
SWEB	-7	I prefer not to answer
SWEB	1	Yes
SWEB	2	No
TCOFF	-8	I don't know
TCOFF	-7	I prefer not to answer
TCOFF	1	Yes
TCOFF	2	No
TOUR_TYPE	1	Home-based Tour
TOUR_TYPE	2	Work-based Subtour
TPURP	-8	I don't know
TPURP	-7	I prefer not to answer
TPURP	1	01. Typical home activities
TPURP	2	02. Working at home (paid)
TPURP	3	03. Work at fixed work location
TPURP	4	04. Work at non-fixed work location
TPURP	5	05. Work related (off-site meeting)
TPURP	6	06. School/studying
TPURP	7	07. Volunteering
TPURP	8	08. Major purchase shopping (appliances, cars, home furnishings)
TPURP	9	09. Other routine shopping (grocery, clothing)
TPURP	10	10. Drive-thru food or errands
TPURP	11	11. Vehicle service (gas, maintenance)
TPURP	12	12. Health care visit
TPURP	13	13. Other non-shopping errands
TPURP	14	14. Eat out
TPURP	15	15. Socialize with friends/relatives
TPURP	16	16. Religious or community event
TPURP	17	17. Exercise or recreation
TPURP	18	18. Attend major special event
TPURP	19	19. Drop off/pick up passenger
TPURP	20	20. Change travel mode/transfer
TPURP	97	Something else
TPURP2	-8	I don't know
TPURP2	-7	I prefer not to answer
TPURP2	0	00. Nothing else
TPURP2	1	01. Typical home activities
TPURP2	2	02. Working at home (paid)
TPURP2	3	03. Work at fixed work location
TPURP2	4	04. Work at non-fixed work location
TPURP2	5	05. Work related (off-site meeting)
TPURP2	6	06. School/studying
TPURP2	7	07. Volunteering
TPURP2	8	08. Major purchase shopping (appliances, cars, home furnishings)
TPURP2	9	09. Other routine shopping (grocery, clothing)
TPURP2	10	10. Drive-thru food or errands
TPURP2	11	11. Vehicle service (gas, maintenance)
TPURP2	12	12. Health care visit
TPURP2	13	13. Other non-shopping errands
TPURP2	14	14. Eat out

VARIABLE NAME	VALUE	TEXT
TPURP2	15	15. Socialize with friends/relatives
TPURP2	16	16. Religious or community event
TPURP2	17	17. Exercise or recreation
TPURP2	18	18. Attend major special event
TPURP2	19	19. Drop off/pick up passenger
TPURP2	20	20. Change travel mode/transfer
TPURP2	97	Something else
TRAVDAY	2	Monday
TRAVDAY	3	Tuesday
TRAVDAY	4	Wednesday
TRAVDAY	5	Thursday
WKSTAT	-8	I don't know
WKSTAT	-7	I prefer not to answer
WKSTAT	0	Worker, including self employed
WKSTAT	1	Retired
WKSTAT	2	Homemaker
WKSTAT	3	Unemployed but looking for work
WKSTAT	4	Unemployed, not seeking employment
WKSTAT	5	Student (part-time or full-time)
WKSTAT	6	Disabled non-worker
WKSTAT	97	Something else
WMODE	-8	I don't know
WMODE	-7	I prefer not to answer
WMODE	1	Walk
WMODE	2	Bicycle
WMODE	3	Motorcycle/moped
WMODE	4	Auto/van/truck (as the driver)
WMODE	5	Auto/van/truck (as the passenger)
WMODE	6	Carpool/vanpool
WMODE	7	School bus
WMODE	8	Public transit – local bus
WMODE	9	Dial-a-ride/paratransit
WMODE	10	Private bus or shuttle
WMODE	11	Taxi/limo
WMODE	12	Train/Amtrak
WMODE	13	Detroit People Mover
WMODE	14	Airplane
WMODE	15	Boat/ferry
WMODE	16	[$I_DO] not travel to work
WMODE	97	Something else
WPLACE	-8	I don't know
WPLACE	-7	I prefer not to answer
WPLACE	1	Same work place every day
WPLACE	2	Work from home
WPLACE	3	No fixed work place

Appendix II

Codebook

Michigan Statewide Household Travel Survey - MTCIII

Longdist File Codebook

July 20, 2016

Prepared For
Michigan Department of Transportation
Bureau of Transportation Planning
425 Ottawa Street
Lansing, MI 48909

Prepared By
Westat
An Employee-Owned Research Corporation®
1600 Research Boulevard
Rockville, MD 20850–3129

Variable Name: SAMPNO Sample identifier

Codes	Responses	Frequency	Percentage
{range}	NA	17,402	100
		17,402	**100**

Variable Name: LDTRIPNO Long Distance Trip Number

Codes	Responses	Frequency	Percentage
1	NA	9,961	57.2
2	NA	4,041	23.2
3	NA	1,717	9.9
4	NA	788	4.5
5	NA	406	2.3
6	NA	217	1.2
7	NA	121	0.7
8	NA	64	0.4
9	NA	35	0.2
10	NA	23	0.1
11	NA	14	0.1
12	NA	7	0.0
13	NA	5	0.0
14	NA	3	0.0
		17,402	**100.0**

Variable Name: LD_DEP_DT LD Departure Date

Codes	Responses	Frequency	Percentage
{range}	NA	17,402	100
		17,402	**100**

Variable Name: LD_RET_DT Return Date

Codes	Responses	Frequency	Percentage
{range}	NA	17,402	100
		17,402	**100**

Variable Name: LD_HHMEM Household members on long distance trip

Codes	Responses	Frequency	Percentage
-8	I don't know	4	0.0
-7	I prefer not to answer	3,750	21.5
1	[$FNAME:R1]	3,122	17.9
1,2	NA	6,081	34.9
1,2,3	NA	802	4.6
1,2,3,4	NA	760	4.4
1,2,3,4,5	NA	227	1.3
1,2,3,4,5,6	NA	60	0.3
1,2,3,4,5,6,7	NA	15	0.1
1,2,3,4,5,6,7,8	NA	1	0.0
1,2,3,4,5,6,7,8,9	NA	3	0.0
1,2,3,4,6	NA	2	0.0
1,2,3,5	NA	8	0.0
1,2,3,5,6	NA	5	0.0
1,2,3,5,6,7	NA	1	0.0
1,2,3,6	NA	1	0.0
1,2,4	NA	91	0.5
1,2,4,5	NA	28	0.2
1,2,4,5,6	NA	3	0.0
1,2,4,5,6,7	NA	2	0.0
1,2,4,5,6,7,8	NA	1	0.0
1,2,4,6	NA	1	0.0
1,2,5	NA	13	0.1
1,2,5,6	NA	2	0.0
1,2,5,6,7	NA	2	0.0
1,2,6	NA	1	0.0
1,2,6,9	NA	2	0.0
1,2,8	NA	1	0.0
1,3	NA	232	1.3
1,3,4	NA	119	0.7
1,3,4,5	NA	23	0.1
1,3,4,5,6	NA	8	0.0
1,3,4,5,6,7,8	NA	1	0.0
1,3,5	NA	4	0.0
1,3,5,6	NA	1	0.0
1,3,5,6,7,8,9	NA	1	0.0
1,3,6	NA	2	0.0

Codes	Responses	Frequency	Percentage
1,3,7	NA	1	0.0
1,4	NA	55	0.3
1,4,5	NA	8	0.0
1,4,7	NA	1	0.0
1,5	NA	14	0.1
1,5,6	NA	1	0.0
1,5,6,7,8	NA	1	0.0
2	[$FNAME:R2]	1,461	8.4
2,3	NA	96	0.6
2,3,4	NA	30	0.2
2,3,4,5	NA	7	0.0
2,3,4,6	NA	2	0.0
2,3,5	NA	1	0.0
2,3,5,6	NA	2	0.0
2,4	NA	27	0.2
2,4,5	NA	2	0.0
2,5	NA	2	0.0
2,6	NA	1	0.0
3	[$FNAME:R3]	220	1.3
3,4	NA	26	0.1
3,4,5	NA	3	0.0
3,4,7,8	NA	1	0.0
3,5	NA	1	0.0
3,6	NA	1	0.0
4	[$FNAME:R4]	46	0.3
4,5	NA	4	0.0
4,6	NA	1	0.0
5	[$FNAME:R5]	7	0.0
		17,402	**100.0**

Variable Name: LD_HHMEMCT Count of household members on long distance trip

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	3,737	-
1	NA	4,873	35.7
2	NA	6,541	47.9
3	NA	1,080	7.9
4	NA	838	6.1
5	NA	248	1.8

Codes	Responses	Frequency	Percentage
6	NA	63	0.5
7	NA	18	0.1
8	NA	1	0.0
9	NA	3	0.0
		17,402	**100.0**

Variable Name: LD_REAS Primary Reason for Long Distance Trip

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	2	-
-8	I don't know	1	0.0
-7	I prefer not to answer	28	0.2
1	Work/business	2,556	14.7
2	School-related	345	2.0
3	Vacation	4,034	23.2
4	Social	1,453	8.4
5	Sightseeing	494	2.8
6	Recreation	1,596	9.2
7	Entertainment	837	4.8
8	Shopping	392	2.3
9	Family/personal reasons	4,806	27.6
10	Religious	204	1.2
11	Medical	446	2.6
97	Something else	208	1.2
		17,402	**100.0**

Variable Name: LD_REAS_O Other, Reason for Long Distance Trip

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	17,194	-
CHANGE TRAVEL MODE	NA	8	3.8
DROP OFF / PICK UP PASSENGER	NA	47	22.6
ERRAND	NA	97	46.6
MOVING	NA	15	7.2
VOLUNTEERING	NA	41	19.7
		17,402	**100.0**

Variable Name: LD_MODE Transportation to LD Destination

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	2	-
-7	I prefer not to answer	4	0.0
1	Walk	2	0.0
2	Bicycle	1	0.0
3	Motorcycle/moped	99	0.6
4	Auto/van/truck	14,411	82.8
6	Carpool/vanpool	372	2.1
7	School bus	19	0.1
8	Public transit local bus, subway, elevated train, light rail	43	0.2
9	Dial-a-ride/paratransit	4	0.0
10	Private bus or shuttle	222	1.3
11	Taxi/limo	9	0.1
12	Train/Amtrak	138	0.8
14	Airplane	2,036	11.7
15	Boat/ferry	34	0.2
97	Something else	6	0.0
		17,402	**100.0**

Variable Name: LD_MODE_O Other, Transportation to LD Destination

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	17,396	-
OFF-ROAD VEHICLE	NA	6	100.0
		17,402	**100.0**

Variable Name: LD_MODE2 2nd Type of Transportation to LD Dest

Codes	Responses	Frequency	Percentage
{range}	I prefer not to answer	17,402	100
		17,402	**100**

Variable Name: LD_MODE2_O Other, 2nd Type of Transportation to LD Dest

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	17,379	-
ANIMAL-POWERED TRANSPORT	NA	4	17.4
OFF-ROAD VEHICLE	NA	11	47.8
UTILITY VEHICLE	NA	8	34.8
		17,402	**100.0**

Variable Name: LD_DMODE Types of transportation used on LD Trip

Codes	Responses	Frequency	Percentage
{range}	Something else	17,402	100
		17,402	**100**

Variable Name: LD_DMODE_O Other, types of transportation used on LD Trip

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	17,247	-
ANIMAL-POWERED TRANSPORT	NA	36	23.2
MOBILITY AID	NA	2	1.3
OFF-ROAD VEHICLE	NA	51	32.9
OTHER PERSONAL TRANSPORT	NA	14	9.0
UTILITY VEHICLE	NA	52	33.5
		17,402	**100.0**

Variable Name: LD_3MTH Number of Times in Last 3 Months

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	2	-
-8	I don't know	91	0.5
-7	I prefer not to answer	62	0.4
1	NA	12,889	74.1
2	NA	2,230	12.8
3	NA	1,029	5.9
4	NA	365	2.1
5	NA	202	1.2
6	NA	188	1.1
7	NA	49	0.3
8	NA	53	0.3

Codes	Responses	Frequency	Percentage
9	NA	17	0.1
10	NA	50	0.3
11	NA	17	0.1
12	NA	82	0.5
13	NA	5	0.0
14	NA	5	0.0
15	NA	11	0.1
16	NA	5	0.0
18	NA	3	0.0
20	NA	9	0.1
22	NA	1	0.0
24	NA	4	0.0
25	NA	1	0.0
26	NA	1	0.0
27	NA	1	0.0
30	NA	5	0.0
35	NA	2	0.0
36	NA	5	0.0
39	NA	1	0.0
40	NA	2	0.0
53	NA	1	0.0
60	NA	6	0.0
61	NA	2	0.0
63	NA	1	0.0
64	NA	1	0.0
75	NA	1	0.0
80	NA	1	0.0
90	NA	1	0.0
99	NA	1	0.0
		17,402	**100.0**

Variable Name: LD_12MTH Number of Times in Last 12 Months

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	2	-
-8	I don’t know	467	2.7
-7	I prefer not to answer	79	0.5
1	NA	7,849	45.1
2	NA	2,865	16.5

Codes	Responses	Frequency	Percentage
3	NA	1,713	9.8
4	NA	1,127	6.5
5	NA	716	4.1
6	NA	656	3.8
7	NA	200	1.1
8	NA	312	1.8
9	NA	115	0.7
10	NA	273	1.6
11	NA	57	0.3
12	NA	309	1.8
13	NA	25	0.1
14	NA	35	0.2
15	NA	126	0.7
16	NA	45	0.3
17	NA	7	0.0
18	NA	19	0.1
19	NA	2	0.0
20	NA	96	0.6
21	NA	2	0.0
22	NA	3	0.0
23	NA	2	0.0
24	NA	61	0.4
25	NA	42	0.2
26	NA	6	0.0
27	NA	5	0.0
28	NA	5	0.0
29	NA	1	0.0
30	NA	43	0.2
32	NA	3	0.0
33	NA	1	0.0
35	NA	8	0.0
36	NA	5	0.0
37	NA	1	0.0
38	NA	2	0.0
40	NA	20	0.1
42	NA	1	0.0
45	NA	11	0.1
46	NA	1	0.0
48	NA	13	0.1
50	NA	27	0.2
52	NA	3	0.0

Codes	Responses	Frequency	Percentage
53	NA	1	0.0
54	NA	2	0.0
55	NA	1	0.0
56	NA	1	0.0
60	NA	3	0.0
61	NA	1	0.0
62	NA	1	0.0
70	NA	1	0.0
75	NA	2	0.0
80	NA	3	0.0
96	NA	2	0.0
100	NA	4	0.0
110	NA	1	0.0
120	NA	4	0.0
135	NA	1	0.0
144	NA	3	0.0
145	NA	1	0.0
230	NA	1	0.0
240	NA	3	0.0
255	NA	1	0.0
300	NA	1	0.0
320	NA	1	0.0
350	NA	1	0.0
365	NA	1	0.0
		17,402	**100.0**

Variable Name: LD_3MTH2 Last 3 Months Confirmation

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	17,377	-
1	Yes	25	100.0
		17,402	**100.0**

Variable Name: LD_12MTH2 Last 12 Months Confirmation

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	17,383	-
1	Yes	19	100.0

Codes	Responses	Frequency	Percentage
		17,402	**100.0**

Variable Name: PROXYPERNO Proxy person identifier

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	3,737	-
1	NA	12,480	91.3
2	NA	1,113	8.1
3	NA	62	0.5
4	NA	9	0.1
5	NA	1	0.0
		17,402	**100.0**

Variable Name: LOCNAME Name of location

Codes	Responses	Frequency	Percentage
{range}	NA	17,402	100
		17,402	**100**

Variable Name: CITY City of location

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	408	0
	{range}	16,994	100
		17,402	**100**

Variable Name: STATE State

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	92	0
	{range}	17,310	100
		17,402	**100**

Variable Name: ZIP ZIP code of location

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	9,613	0
	{range}	7,789	100
		17,402	**100**

Variable Name: COUNTRY Country

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	5	-
Aruba	NA	3	0.0
Australia	NA	1	0.0
Austria	NA	2	0.0
Bangladesh	NA	1	0.0
Belize	NA	2	0.0
Bermuda	NA	1	0.0
Brazil	NA	3	0.0
British Virgin Islands	NA	2	0.0
Bulgaria	NA	1	0.0
Canada	NA	263	1.5
Canadá	NA	1	0.0
Caribbean Netherlands	NA	2	0.0
Cayman Islands	NA	2	0.0
Chile	NA	1	0.0
China	NA	6	0.0
Colombia	NA	2	0.0
Costa Rica	NA	7	0.0
Cuba	NA	1	0.0
Curaçao	NA	1	0.0
Cyprus	NA	1	0.0
Czech Republic	NA	2	0.0
Denmark	NA	1	0.0
Dominica	NA	1	0.0
Dominican Republic	NA	8	0.0
Estados Unidos	NA	2	0.0
France	NA	13	0.1
Germany	NA	11	0.1
Ghana	NA	1	0.0
Guatemala	NA	2	0.0
Haiti	NA	1	0.0
Honduras	NA	3	0.0

Codes	Responses	Frequency	Percentage
Hong Kong	NA	2	0.0
Hungary	NA	3	0.0
Iceland	NA	1	0.0
India	NA	2	0.0
Ireland	NA	4	0.0
Italy	NA	6	0.0
Jamaica	NA	5	0.0
Japan	NA	4	0.0
Kenya	NA	1	0.0
Lebanon	NA	1	0.0
Malaysia	NA	2	0.0
Mexico	NA	43	0.2
Nepal	NA	2	0.0
Netherlands	NA	2	0.0
New Zealand	NA	1	0.0
Nicaragua	NA	1	0.0
Norway	NA	1	0.0
Panama	NA	2	0.0
Philippines	NA	1	0.0
Poland	NA	2	0.0
Portugal	NA	3	0.0
Puerto Rico	NA	8	0.0
Republic of Indonesia	NA	1	0.0
Romania	NA	3	0.0
Russia	NA	2	0.0
Saint Lucia	NA	1	0.0
Sint Maarten	NA	1	0.0
South Africa	NA	3	0.0
South Korea	NA	1	0.0
Spain	NA	3	0.0
Sweden	NA	1	0.0
Switzerland	NA	2	0.0
Taiwan	NA	2	0.0
Tanzania	NA	2	0.0
Thailand	NA	3	0.0
The Bahamas	NA	9	0.1
Turks and Caicos Islands	NA	1	0.0
U.S. Virgin Islands	NA	2	0.0
USA	NA	1	0.0
Ukraine	NA	1	0.0
United Kingdom	NA	21	0.1

Codes	Responses	Frequency	Percentage
United States	NA	16,890	97.1
Uruguay	NA	1	0.0
États-Unis	NA	1	0.0
		17,402	**100.0**

Variable Name: LATITUDE Y Coordinate

Codes	Responses	Frequency	Percentage
{range}	NA	17,402	100
		17,402	**100**

Variable Name: LONGITUDE X Coordinate

Codes	Responses	Frequency	Percentage
{range}	NA	17,402	100
		17,402	**100**

Variable Name: GEOCODE_TY Geocode type of location

Codes	Responses	Frequency	Percentage
{range}	NA	17,402	100
		17,402	**100**

Michigan Statewide Household Travel Survey - MTCIII

Place File Codebook

July 20, 2016

Prepared For
Michigan Department of Transportation
Bureau of Transportation Planning
425 Ottawa Street
Lansing, MI 48909

Prepared By
Westat
An Employee-Owned Research Corporation®
1600 Research Boulevard
Rockville, MD 20850–3129

Variable Name: SAMPNO Sample identifier

Codes	Responses	Frequency	Percentage
{range}	NA	182,822	100
		182,822	**100**

Variable Name: PERNO Person identifier

Codes	Responses	Frequency	Percentage
1	NA	92,398	50.5
2	NA	55,746	30.5
3	NA	18,769	10.3
4	NA	10,664	5.8
5	NA	3,660	2.0
6	NA	1,155	0.6
7	NA	303	0.2
8	NA	80	0.0
9	NA	34	0.0
10	NA	6	0.0
11	NA	5	0.0
12	NA	2	0.0
		182,822	**100.0**

Variable Name: PROXYPERNO Proxy person identifier

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	120,049	-
1	NA	58,944	93.9
2	NA	3,451	5.5
3	NA	318	0.5
4	NA	33	0.1
5	NA	14	0.0
6	NA	9	0.0
7	NA	1	0.0
9	NA	3	0.0
		182,822	**100.0**

Variable Name: PLACENO Place Number

Codes	Responses	Frequency	Percentage
1	NA	36,891	20.2
2	NA	32,909	18.0
3	NA	32,539	17.8
4	NA	23,439	12.8
5	NA	18,974	10.4
6	NA	12,692	6.9
7	NA	8,909	4.9
8	NA	5,743	3.1
9	NA	3,839	2.1
10	NA	2,451	1.3
11	NA	1,608	0.9
12	NA	1,015	0.6
13	NA	606	0.3
14	NA	364	0.2
15	NA	234	0.1
16	NA	170	0.1
17	NA	116	0.1
18	NA	77	0.0
19	NA	56	0.0
20	NA	35	0.0
21	NA	22	0.0
22	NA	17	0.0
23	NA	14	0.0
24	NA	13	0.0
25	NA	9	0.0
26	NA	9	0.0
27	NA	7	0.0
28	NA	5	0.0
29	NA	3	0.0
30	NA	3	0.0
31	NA	3	0.0
32	NA	3	0.0
33	NA	3	0.0
34	NA	3	0.0
35	NA	3	0.0
36	NA	3	0.0
37	NA	3	0.0
38	NA	3	0.0
39	NA	2	0.0
40	NA	2	0.0
41	NA	2	0.0

Codes	Responses	Frequency	Percentage
42	NA	2	0.0
43	NA	2	0.0
44	NA	2	0.0
45	NA	2	0.0
46	NA	2	0.0
47	NA	2	0.0
48	NA	2	0.0
49	NA	2	0.0
50	NA	1	0.0
51	NA	1	0.0
52	NA	1	0.0
53	NA	1	0.0
54	NA	1	0.0
55	NA	1	0.0
56	NA	1	0.0
		182,822	**100.0**

Variable Name: LOCNO Household location identifier

Codes	Responses	Frequency	Percentage
100	NA	84,369	46.1
102	NA	8,652	4.7
103	NA	362	0.2
202	NA	6,023	3.3
203	NA	1,131	0.6
302	NA	783	0.4
303	NA	5,284	2.9
402	NA	154	0.1
403	NA	2,821	1.5
502	NA	48	0.0
503	NA	853	0.5
602	NA	13	0.0
603	NA	198	0.1
702	NA	4	0.0
703	NA	30	0.0
802	NA	9	0.0
803	NA	9	0.0
902	NA	1	0.0
903	NA	2	0.0

Codes	Responses	Frequency	Percentage
1000000	NA	20,199	11.0
1000001	NA	15,881	8.7
1000002	NA	11,806	6.5
1000003	NA	8,214	4.5
1000004	NA	5,553	3.0
1000005	NA	3,624	2.0
1000006	NA	2,277	1.2
1000007	NA	1,502	0.8
1000008	NA	942	0.5
1000009	NA	664	0.4
1000010	NA	425	0.2
1000011	NA	257	0.1
1000012	NA	189	0.1
1000013	NA	126	0.1
1000014	NA	112	0.1
1000015	NA	61	0.0
1000016	NA	50	0.0
1000017	NA	42	0.0
1000018	NA	31	0.0
1000019	NA	17	0.0
1000020	NA	14	0.0
1000021	NA	12	0.0
1000022	NA	15	0.0
1000023	NA	8	0.0
1000024	NA	4	0.0
1000025	NA	4	0.0
1000026	NA	3	0.0
1000027	NA	2	0.0
1000028	NA	2	0.0
1000029	NA	2	0.0
1000030	NA	2	0.0
1000031	NA	3	0.0
1000032	NA	4	0.0
1000033	NA	4	0.0
1000034	NA	3	0.0
1000035	NA	1	0.0
1000036	NA	1	0.0
1000037	NA	1	0.0
1000038	NA	1	0.0
1000039	NA	1	0.0
1000040	NA	1	0.0

Codes	Responses	Frequency	Percentage
1000041	NA	1	0.0
1000042	NA	1	0.0
1000043	NA	1	0.0
1000044	NA	1	0.0
1000045	NA	1	0.0
1000046	NA	1	0.0
1000047	NA	1	0.0
1000048	NA	1	0.0
1000049	NA	1	0.0
1000050	NA	1	0.0
1000051	NA	1	0.0
1000052	NA	1	0.0
1000054	NA	2	0.0
1000055	NA	2	0.0
		182,822	**100.0**

Variable Name: TRIPDATE Travel date

Codes	Responses	Frequency	Percentage
2015-04-20	NA	4,065	2.2
2015-04-21	NA	4,531	2.5
2015-04-22	NA	4,764	2.6
2015-04-23	NA	5,356	2.9
2015-04-27	NA	3,382	1.8
2015-04-28	NA	4,444	2.4
2015-04-29	NA	3,850	2.1
2015-04-30	NA	3,614	2.0
2015-05-04	NA	5,134	2.8
2015-05-05	NA	5,186	2.8
2015-05-06	NA	5,062	2.8
2015-05-07	NA	4,449	2.4
2015-05-11	NA	3,842	2.1
2015-05-12	NA	3,842	2.1
2015-05-13	NA	3,863	2.1
2015-05-14	NA	3,259	1.8
2015-05-18	NA	2,621	1.4
2015-05-19	NA	2,402	1.3
2015-05-20	NA	2,251	1.2
2015-05-21	NA	2,299	1.3

Codes	Responses	Frequency	Percentage
2015-05-26	NA	1,172	0.6
2015-05-27	NA	1,322	0.7
2015-05-28	NA	1,070	0.6
2015-06-01	NA	1,730	0.9
2015-06-02	NA	767	0.4
2015-06-03	NA	833	0.5
2015-06-04	NA	692	0.4
2015-09-08	NA	95	0.1
2015-09-09	NA	112	0.1
2015-09-10	NA	381	0.2
2015-09-14	NA	844	0.5
2015-09-15	NA	1,258	0.7
2015-09-16	NA	1,609	0.9
2015-09-17	NA	1,713	0.9
2015-09-21	NA	3,027	1.7
2015-09-22	NA	3,215	1.8
2015-09-23	NA	3,394	1.9
2015-09-24	NA	4,233	2.3
2015-09-28	NA	4,282	2.3
2015-09-29	NA	3,993	2.2
2015-09-30	NA	3,935	2.2
2015-10-01	NA	4,238	2.3
2015-10-05	NA	4,587	2.5
2015-10-06	NA	4,545	2.5
2015-10-07	NA	4,981	2.7
2015-10-08	NA	3,763	2.1
2015-10-12	NA	4,071	2.2
2015-10-13	NA	3,900	2.1
2015-10-14	NA	3,833	2.1
2015-10-15	NA	3,484	1.9
2015-10-19	NA	2,932	1.6
2015-10-20	NA	3,459	1.9
2015-10-21	NA	3,378	1.8
2015-10-22	NA	2,438	1.3
2015-10-26	NA	1,939	1.1
2015-10-27	NA	1,712	0.9
2015-10-28	NA	1,405	0.8
2015-10-29	NA	1,381	0.8
2015-11-02	NA	1,158	0.6
2015-11-03	NA	1,122	0.6
2015-11-04	NA	1,132	0.6

Codes	Responses	Frequency	Percentage
2015-11-05	NA	950	0.5
2015-11-09	NA	612	0.3
2015-11-10	NA	463	0.3
2015-11-11	NA	582	0.3
2015-11-12	NA	452	0.2
2015-11-16	NA	279	0.2
2015-11-17	NA	401	0.2
2015-11-18	NA	172	0.1
2015-11-19	NA	337	0.2
2015-11-23	NA	213	0.1
2015-11-24	NA	340	0.2
2015-11-30	NA	245	0.1
2015-12-01	NA	74	0.0
2015-12-02	NA	212	0.1
2015-12-03	NA	139	0.1
		182,822	**100.0**

Variable Name: TRAVDAY Day of week

Codes	Responses	Frequency	Percentage
2	Monday	44,963	24.6
3	Tuesday	46,921	25.7
4	Wednesday	46,690	25.5
5	Thursday	44,248	24.2
		182,822	**100.0**

Variable Name: CTYFIPS State and county FIPS concatenation

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	76	0
	{range}	182,746	100
		182,822	**100**

Variable Name: ARRTIME Time of arrival at a place

Codes	Responses	Frequency	Percentage
{range}	NA	182,822	100

Codes	Responses	Frequency	Percentage
		182,822	**100**

Variable Name: ARR_HR Hour of arrival time

Codes	Responses	Frequency	Percentage
0	NA	306	0.2
1	NA	132	0.1
2	NA	126	0.1
3	NA	36,977	20.2
4	NA	323	0.2
5	NA	1,199	0.7
6	NA	3,134	1.7
7	NA	10,924	6.0
8	NA	10,346	5.7
9	NA	7,220	3.9
10	NA	7,748	4.2
11	NA	8,853	4.8
12	NA	9,806	5.4
13	NA	8,760	4.8
14	NA	9,233	5.1
15	NA	13,271	7.3
16	NA	12,751	7.0
17	NA	13,411	7.3
18	NA	10,398	5.7
19	NA	7,392	4.0
20	NA	5,387	2.9
21	NA	2,930	1.6
22	NA	1,411	0.8
23	NA	784	0.4
		182,822	**100.0**

Variable Name: ARR_MIN Minute of arrival time

Codes	Responses	Frequency	Percentage
0	NA	50,843	27.8
1	NA	1,005	0.5
2	NA	1,343	0.7
3	NA	1,089	0.6

Codes	Responses	Frequency	Percentage
4	NA	771	0.4
5	NA	5,892	3.2
6	NA	844	0.5
7	NA	1,104	0.6
8	NA	1,147	0.6
9	NA	746	0.4
10	NA	7,563	4.1
11	NA	765	0.4
12	NA	1,231	0.7
13	NA	902	0.5
14	NA	838	0.5
15	NA	10,097	5.5
16	NA	932	0.5
17	NA	1,193	0.7
18	NA	1,121	0.6
19	NA	657	0.4
20	NA	7,547	4.1
21	NA	867	0.5
22	NA	1,121	0.6
23	NA	1,065	0.6
24	NA	768	0.4
25	NA	5,610	3.1
26	NA	835	0.5
27	NA	962	0.5
28	NA	1,189	0.7
29	NA	766	0.4
30	NA	12,679	6.9
31	NA	882	0.5
32	NA	1,186	0.6
33	NA	977	0.5
34	NA	770	0.4
35	NA	6,023	3.3
36	NA	897	0.5
37	NA	1,085	0.6
38	NA	1,015	0.6
39	NA	699	0.4
40	NA	7,101	3.9
41	NA	760	0.4
42	NA	1,169	0.6
43	NA	945	0.5
44	NA	669	0.4

Codes	Responses	Frequency	Percentage
45	NA	10,701	5.9
46	NA	837	0.5
47	NA	1,170	0.6
48	NA	1,152	0.6
49	NA	728	0.4
50	NA	7,251	4.0
51	NA	819	0.4
52	NA	1,158	0.6
53	NA	985	0.5
54	NA	713	0.4
55	NA	5,577	3.1
56	NA	933	0.5
57	NA	1,015	0.6
58	NA	1,260	0.7
59	NA	853	0.5
		182,822	**100.0**

Variable Name: MODE Transportation Mode

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	36,891	-
1	Walk	7,541	5.2
2	Bicycle	1,296	0.9
3	Motorcycle/moped	332	0.2
4	Auto / van / truck (as the driver)	100,144	68.6
5	Auto / van / truck (as the passenger)	30,604	21.0
6	Carpool/vanpool	451	0.3
7	School bus	3,874	2.7
8	Public transit local bus	1,004	0.7
9	Dial-a-ride/paratransit	183	0.1
10	Private bus or shuttle	223	0.2
11	Taxi/limo	71	0.0
12	Train/Amtrak	14	0.0
14	Airplane	52	0.0
15	Boat/ferry	23	0.0
97	Something Else	119	0.1
		182,822	**100.0**

Variable Name: MODE_O Other, Transportation Mode

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	182,703	-
ANIMAL-POWERED TRANSPORT	NA	3	2.5
MOBILITY AID	NA	32	26.9
OFF-ROAD VEHICLE	NA	27	22.7
OTHER PERSONAL TRANSPORT	NA	2	1.7
UTILITY VEHICLE	NA	55	46.2
		182,822	**100.0**

Variable Name: PARTY Number of people on trip (not including respondent)

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	19,605	-
0	NA	92,668	56.8
1	NA	45,596	27.9
2	NA	14,607	8.9
3	NA	5,905	3.6
4	NA	2,297	1.4
5	NA	701	0.4
6	NA	199	0.1
7	NA	85	0.1
8	NA	70	0.0
9	NA	18	0.0
10	NA	59	0.0
11	NA	15	0.0
12	NA	27	0.0
13	NA	15	0.0
14	NA	12	0.0
15	NA	66	0.0
16	NA	13	0.0
17	NA	2	0.0
18	NA	12	0.0
19	NA	7	0.0
20	NA	197	0.1
21	NA	10	0.0
22	NA	15	0.0
23	NA	16	0.0

Codes	Responses	Frequency	Percentage
24	NA	11	0.0
25	NA	100	0.1
26	NA	11	0.0
27	NA	4	0.0
28	NA	5	0.0
29	NA	5	0.0
30	NA	165	0.1
31	NA	4	0.0
32	NA	7	0.0
33	NA	9	0.0
34	NA	2	0.0
35	NA	49	0.0
36	NA	8	0.0
37	NA	5	0.0
38	NA	3	0.0
39	NA	1	0.0
40	NA	62	0.0
41	NA	1	0.0
42	NA	5	0.0
43	NA	4	0.0
44	NA	3	0.0
45	NA	23	0.0
46	NA	2	0.0
48	NA	5	0.0
49	NA	1	0.0
50	NA	41	0.0
52	NA	2	0.0
54	NA	2	0.0
55	NA	4	0.0
56	NA	1	0.0
57	NA	1	0.0
60	NA	25	0.0
67	NA	3	0.0
70	NA	8	0.0
72	NA	2	0.0
75	NA	11	0.0
80	NA	1	0.0
95	NA	2	0.0
100	NA	2	0.0
300	NA	4	0.0
400	NA	1	0.0

Codes	Responses	Frequency	Percentage
		182,822	**100.0**

Variable Name: HHPARTY Household members on trip

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	19,605	-
0	NA	112,216	68.8
1	NA	34,735	21.3
2	NA	10,576	6.5
3	NA	3,784	2.3
4	NA	1,428	0.9
5	NA	330	0.2
6	NA	85	0.1
7	NA	63	0.0
		182,822	**100.0**

Variable Name: PERTP Concatenation of two digit person numbers on trip (not including respondent)

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	131,821	0
	{range}	51,001	100
		182,822	**100**

Variable Name: NONHHMTP Number of Non-Household members on trip

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	19,605	-
0	NA	136,456	83.6
1	NA	21,342	13.1
2	NA	2,942	1.8
3	NA	876	0.5
4	NA	270	0.2
5	NA	124	0.1
6	NA	53	0.0
7	NA	39	0.0
8	NA	39	0.0

Codes	Responses	Frequency	Percentage
9	NA	11	0.0
10	NA	56	0.0
11	NA	18	0.0
12	NA	21	0.0
13	NA	18	0.0
14	NA	23	0.0
15	NA	52	0.0
16	NA	13	0.0
17	NA	5	0.0
18	NA	15	0.0
19	NA	53	0.0
20	NA	145	0.1
21	NA	13	0.0
22	NA	17	0.0
23	NA	11	0.0
24	NA	21	0.0
25	NA	94	0.1
26	NA	9	0.0
27	NA	2	0.0
28	NA	17	0.0
29	NA	42	0.0
30	NA	116	0.1
31	NA	6	0.0
32	NA	7	0.0
33	NA	7	0.0
34	NA	17	0.0
35	NA	40	0.0
36	NA	5	0.0
37	NA	4	0.0
38	NA	1	0.0
39	NA	28	0.0
40	NA	35	0.0
41	NA	3	0.0
42	NA	3	0.0
43	NA	11	0.0
44	NA	9	0.0
45	NA	13	0.0
47	NA	10	0.0
48	NA	8	0.0
49	NA	5	0.0
50	NA	23	0.0

Codes	Responses	Frequency	Percentage
52	NA	2	0.0
54	NA	2	0.0
55	NA	4	0.0
56	NA	1	0.0
57	NA	1	0.0
59	NA	7	0.0
60	NA	18	0.0
66	NA	2	0.0
67	NA	1	0.0
69	NA	4	0.0
70	NA	4	0.0
72	NA	2	0.0
74	NA	8	0.0
75	NA	3	0.0
80	NA	1	0.0
95	NA	2	0.0
100	NA	2	0.0
300	NA	4	0.0
400	NA	1	0.0
		182,822	**100.0**

Variable Name: DEPTIME Time of departure

Codes	Responses	Frequency	Percentage
{range}	NA	182,822	100
		182,822	**100**

Variable Name: DEP_HR Hour of departure time

Codes	Responses	Frequency	Percentage
0	NA	206	0.1
1	NA	115	0.1
2	NA	36,981	20.2
3	NA	160	0.1
4	NA	462	0.3
5	NA	1,639	0.9
6	NA	4,697	2.6
7	NA	12,040	6.6

Codes	Responses	Frequency	Percentage
8	NA	9,109	5.0
9	NA	7,113	3.9
10	NA	7,794	4.3
11	NA	9,201	5.0
12	NA	9,788	5.4
13	NA	8,634	4.7
14	NA	10,349	5.7
15	NA	13,961	7.6
16	NA	12,299	6.7
17	NA	13,042	7.1
18	NA	9,304	5.1
19	NA	6,732	3.7
20	NA	4,948	2.7
21	NA	2,415	1.3
22	NA	1,156	0.6
23	NA	677	0.4
		182,822	**100.0**

Variable Name: DEP_MIN Minute of departure time

Codes	Responses	Frequency	Percentage
0	NA	22,550	12.3
1	NA	985	0.5
2	NA	1,133	0.6
3	NA	1,041	0.6
4	NA	677	0.4
5	NA	4,759	2.6
6	NA	850	0.5
7	NA	869	0.5
8	NA	880	0.5
9	NA	661	0.4
10	NA	6,154	3.4
11	NA	838	0.5
12	NA	1,028	0.6
13	NA	693	0.4
14	NA	652	0.4
15	NA	10,747	5.9
16	NA	923	0.5
17	NA	946	0.5

Codes	Responses	Frequency	Percentage
18	NA	906	0.5
19	NA	544	0.3
20	NA	6,367	3.5
21	NA	755	0.4
22	NA	864	0.5
23	NA	755	0.4
24	NA	650	0.4
25	NA	3,997	2.2
26	NA	743	0.4
27	NA	751	0.4
28	NA	785	0.4
29	NA	508	0.3
30	NA	20,981	11.5
31	NA	881	0.5
32	NA	1,088	0.6
33	NA	833	0.5
34	NA	705	0.4
35	NA	4,819	2.6
36	NA	883	0.5
37	NA	921	0.5
38	NA	827	0.5
39	NA	580	0.3
40	NA	5,980	3.3
41	NA	709	0.4
42	NA	938	0.5
43	NA	743	0.4
44	NA	647	0.4
45	NA	11,247	6.2
46	NA	928	0.5
47	NA	958	0.5
48	NA	902	0.5
49	NA	560	0.3
50	NA	6,225	3.4
51	NA	646	0.4
52	NA	868	0.5
53	NA	675	0.4
54	NA	548	0.3
55	NA	3,901	2.1
56	NA	704	0.4
57	NA	689	0.4
58	NA	886	0.5

Codes	Responses	Frequency	Percentage
59	NA	37,539	20.5
		182,822	**100.0**

Variable Name: TPURP Trip purpose

Codes	Responses	Frequency	Percentage
-9	NOT ASCERTAINED	24	0.0
-8	I don't know	199	0.1
-7	I prefer not to answer	260	0.1
1	01. Typical home activities	81,061	44.3
2	02. Working at home (paid)	1,260	0.7
3	03. Work at fixed work location	16,476	9.0
4	04. Work at non-fixed work location	3,370	1.8
5	05. Work related (off-site meeting)	1,693	0.9
6	06. School/studying	7,670	4.2
7	07. Volunteering	1,485	0.8
8	08. Major purchase shopping (appliances, cars, home furnishings)	960	0.5
9	09. Other routine shopping (grocery, clothing)	15,101	8.3
10	10. Drive-thru food or errands	3,872	2.1
11	11. Vehicle service (gas, maintenance)	3,359	1.8
12	12. Health care visit	3,901	2.1
13	13. Other non-shopping errands	8,170	4.5
14	14. Eat out	5,803	3.2
15	15. Socialize with friends/relatives	5,966	3.3
16	16. Religious or community event	1,636	0.9
17	17. Exercise or recreation	6,809	3.7
18	18. Attend major special event	664	0.4
19	19. Drop off/pick up passenger	10,934	6.0
20	20. Change travel mode/transfer	2,149	1.2
		182,822	**100.0**

Variable Name: TPURP_O Other, trip purpose

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	182,822	-
		182,822	**100.0**

Variable Name: TPURP2 Secondary trip purpose

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	483	-
-8	I don't know	186	0.1
-7	I prefer not to answer	96	0.1
0	00. Nothing else	162,550	89.1
1	01. Typical home activities	2,182	1.2
2	02. Working at home (paid)	820	0.4
3	03. Work at fixed work location	393	0.2
4	04. Work at non-fixed work location	241	0.1
5	05. Work related (off-site meeting)	244	0.1
6	06. School/studying	1,682	0.9
7	07. Volunteering	372	0.2
8	08. Major purchase shopping (appliances, cars, home furnishings)	46	0.0
9	09. Other routine shopping (grocery, clothing)	613	0.3
10	10. Drive-thru food or errands	297	0.2
11	11. Vehicle service (gas, maintenance)	206	0.1
12	12. Health care visit	163	0.1
13	13. Other non-shopping errands	676	0.4
14	14. Eat out	1,002	0.5
15	15. Socialize with friends/relatives	6,482	3.6
16	16. Religious or community event	242	0.1
17	17. Exercise or recreation	2,454	1.3
18	18. Attend major special event	113	0.1
19	19. Drop off/pick up passenger	976	0.5
20	20. Change travel mode/transfer	303	0.2
		182,822	**100.0**

Variable Name: TPURP2_O Other, secondary trip purpose

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	182,822	-
		182,822	**100.0**

Variable Name: HHVEH_USED Household Vehicle Used for Trip

Codes	Responses	Frequency	Percentage

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	52,206	-
-9	NOT ASCERTAINED	71	0.1
-8	I don't know	83	0.1
-7	I prefer not to answer	207	0.2
1	Yes	123,570	94.6
2	No	6,685	5.1
		182,822	**100.0**

Variable Name: LNGTRP Trip Length Longer than Usual

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	150,957	-
-8	I don't know	2,037	6.4
-7	I prefer not to answer	108	0.3
1	Yes	2,684	8.4
2	No	27,036	84.8
		182,822	**100.0**

Variable Name: LNGTRP_R Reason for longer than usual trip

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	150,959	-
-8	I don't know	16,162	50.7
-7	I prefer not to answer	1,031	3.2
1	Weather (e.g., rain or snow)	305	1.0
2	Construction	1,407	4.4
3	An accident	86	0.3
4	Traffic congestion	6,619	20.8
97	Something else	6,253	19.6
		182,822	**100.0**

Variable Name: LNGTRP_R_O Other, reason for longer trip

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	176,569	-
BUS ROUTE	NA	796	12.7
ESTIMATED TRAVEL TIMES	NA	50	0.8

Codes	Responses	Frequency	Percentage
EXERCISE OR RECREATION	NA	548	8.8
GOT LOST	NA	52	0.8
HEALTH ISSUE	NA	80	1.3
MISUNDERSTOOD QUESTION	NA	2,848	45.5
MULTITASKING	NA	137	2.2
NO LONGER THAN USUAL	NA	1,154	18.5
NOT ASCERTAINED	NA	91	1.5
OTHER BUS STOPS	NA	5	0.1
ROAD CONDITION	NA	93	1.5
SIGHTSEEING	NA	308	4.9
TURNED AROUND	NA	37	0.6
VEHICLE PROBLEM	NA	26	0.4
WORK ROUTE	NA	28	0.4
		182,822	**100.0**

Variable Name: ACTDUR Activity Duration (calculated)

Codes	Responses	Frequency	Percentage
{range}	NA	182,822	100
		182,822	**100**

Variable Name: TRAVTIME Trip Duration (calculated)

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	36,891	0
	{range}	145,931	100
		182,822	**100**

Variable Name: DISTANCE Travel distance (uses route information from Google Maps)

Codes	Responses	Frequency	Percentage
{range}	NA	182,822	100
		182,822	**100**

Variable Name: LOCNAME Name of location

Codes	Responses	Frequency	Percentage
{range}	NA	182,822	100
		182,822	**100**

Variable Name: ADD_STRT Address

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	6	0
	{range}	182,816	100
		182,822	**100**

Variable Name: CITY City of location

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	7	0
	{range}	182,815	100
		182,822	**100**

Variable Name: STATE State

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	19	-
AK	NA	1	0.0
AR	NA	8	0.0
AZ	NA	6	0.0
BRUXELLES	NA	1	0.0
BY	NA	1	0.0
CA	NA	19	0.0
CO	NA	9	0.0
CT	NA	3	0.0
D.F.	NA	1	0.0
DJIBOUTI	NA	1	0.0
ENGLAND	NA	1	0.0
FL	NA	27	0.0
GA	NA	9	0.0
IA	NA	12	0.0
IL	NA	142	0.1
IN	NA	736	0.4

Codes	Responses	Frequency	Percentage
KA	NA	3	0.0
KS	NA	1	0.0
KY	NA	6	0.0
MA	NA	3	0.0
MD	NA	2	0.0
MI	NA	181,132	99.1
MN	NA	4	0.0
MO	NA	14	0.0
MOSCOW	NA	2	0.0
MS	NA	9	0.0
NC	NA	13	0.0
ND	NA	2	0.0
NH	NA	2	0.0
NJ	NA	3	0.0
NV	NA	4	0.0
NY	NA	17	0.0
OH	NA	220	0.1
OK	NA	6	0.0
ON	NA	42	0.0
OR	NA	4	0.0
PA	NA	11	0.0
QC	NA	2	0.0
RI	NA	6	0.0
SC	NA	2	0.0
SHANGHAI SHI	NA	1	0.0
TN	NA	9	0.0
TX	NA	11	0.0
VA	NA	6	0.0
VLAANDEREN	NA	1	0.0
VT	NA	2	0.0
WA	NA	14	0.0
WI	NA	268	0.1
WV	NA	4	0.0
		182,822	**100.0**

Variable Name: ZIP ZIP code of location

Codes	Response	Frequency	Percentage
	APPROPRIATE SKIP	18	0

Codes	Response	Frequency	Percentage
	{range}	182,804	100
		182,822	**100**

Variable Name: COUNTRY Country

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	1	-
BELGIUM	NA	4	0.0
CANADA	NA	45	0.0
CHINA	NA	1	0.0
DJIBOUTI	NA	1	0.0
ESTADOS UNIDOS	NA	1	0.0
GERMANY	NA	1	0.0
HUNGARY	NA	1	0.0
INDIA	NA	5	0.0
ITALY	NA	1	0.0
JAMAICA	NA	1	0.0
MEXICO	NA	1	0.0
NETHERLANDS	NA	1	0.0
RUSSIA	NA	7	0.0
TAIWAN	NA	1	0.0
UNITED KINGDOM	NA	4	0.0
USA	NA	182,745	100.0
VIETNAM	NA	1	0.0
		182,822	**100.0**

Variable Name: LONGITUDE X Coordinate

Codes	Responses	Frequency	Percentage
{range}	NA	182,822	100
		182,822	**100**

Variable Name: LATITUDE Y Coordinate

Codes	Responses	Frequency	Percentage
{range}	NA	182,822	100
		182,822	**100**

Variable Name: GPS_ASSOC Place has GPS associated with it in the GPSPOINT table

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	168,935	-
1	True	13,887	100.0
		182,822	**100.0**

Variable Name: IS_TRIP This variable allows a data user to exclude delivery driver trips from analysis and trip rate generation. IS_TRIP is 1 when the trip is not a delivery driver trip. A trip is considered a delivery driver trip when DELIV_DRIV is 1 and TPURP or TPURP2 is 4 or 5. The first place of a person's travel day (PLACENO=1) is never coded to 1.

Codes	Responses	Frequency	Percentage
0	NA	39,422	21.6
1	NA	143,400	78.4
		182,822	**100.0**

Variable Name: TOURNO Tour Identifier

Codes	Responses	Frequency	Percentage
NA	APPROPRIATE SKIP	37,875	-
1	NA	101,583	70.1
1.1	NA	5,401	3.7
1.2	NA	391	0.3
1.3	NA	67	0.0
1.4	NA	34	0.0
1.5	NA	19	0.0
1.6	NA	8	0.0
1.7	NA	8	0.0
1.8	NA	4	0.0
1.9	NA	5	0.0
2	NA	27,915	19.3
2.1	NA	365	0.3
2.2	NA	23	0.0
2.3	NA	5	0.0
2.4	NA	2	0.0
3	NA	6,962	4.8
3.1	NA	42	0.0

Codes	Responses	Frequency	Percentage
3.2	NA	2	0.0
4	NA	1,664	1.1
5	NA	376	0.3
6	NA	60	0.0
6.1	NA	3	0.0
7	NA	6	0.0
8	NA	2	0.0
		182,822	**100.0**

Variable Name: TFQ_TCF Tour frequency travel correction factor, derived using GPS-PR travel data.

Codes	Responses	Frequency	Percentage
1	NA	95,037	52.0
1.04	NA	7,286	4.0
1.08	NA	48,828	26.7
1.12	NA	2,809	1.5
1.17	NA	25,721	14.1
1.28	NA	3,141	1.7
		182,822	**100.0**

Variable Name: TSP_TCF Tour stop frequency travel correction factor, derived using GPS-PR travel data.

Codes	Responses	Frequency	Percentage
1	NA	124,080	67.9
1.02	NA	11,549	6.3
1.06	NA	32,955	18.0
1.08	NA	14,238	7.8
		182,822	**100.0**

Michigan Statewide Household Travel Survey - MTCIII

Person File Codebook

July 20, 2016

Prepared For
Michigan Department of Transportation
Bureau of Transportation Planning
425 Ottawa Street
Lansing, MI 48909

Prepared By
Westat
An Employee-Owned Research Corporation®
1600 Research Boulevard
Rockville, MD 20850–3129

Variable Name: SAMPNO Sample identifier

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
{range}	NA	36,891	100	9,883,650	100
		36,891	**100**	**9,883,650**	**100**

Variable Name: PERNO Person identifier

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	NA	16,276	44.1	3,965,210	40.1
2	NA	11,951	32.4	2,920,802	29.6
3	NA	4,730	12.8	1,629,279	16.5
4	NA	2,620	7.1	922,827	9.3
5	NA	908	2.5	309,441	3.1
6	NA	285	0.8	87,997	0.9
7	NA	78	0.2	32,195	0.3
8	NA	25	0.1	12,562	0.1
9	NA	9	0.0	2,102	0.0
10	NA	4	0.0	540	0.0
11	NA	3	0.0	487	0.0
12	NA	2	0.0	208	0.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: AGE Age

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-8	I don’t know	78	0.2	25,868	0.3
-7	I prefer not to answer	1,462	4.0	462,365	4.7
0	NA	429	1.2	122,178	1.2
1	NA	360	1.0	110,453	1.1
2	NA	442	1.2	144,101	1.5
3	NA	398	1.1	126,657	1.3
4	NA	369	1.0	124,662	1.3
5	NA	381	1.0	118,322	1.2
6	NA	345	0.9	110,187	1.1
7	NA	347	0.9	116,027	1.2
8	NA	369	1.0	121,431	1.2

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
9	NA	389	1.1	125,148	1.3
10	NA	369	1.0	116,725	1.2
11	NA	347	0.9	118,407	1.2
12	NA	323	0.9	101,864	1.0
13	NA	357	1.0	120,205	1.2
14	NA	365	1.0	100,678	1.0
15	NA	345	0.9	108,115	1.1
16	NA	367	1.0	151,010	1.5
17	NA	320	0.9	130,075	1.3
18	NA	303	0.8	140,909	1.4
19	NA	272	0.7	106,458	1.1
20	NA	297	0.8	121,560	1.2
21	NA	345	0.9	152,572	1.5
22	NA	340	0.9	129,334	1.3
23	NA	382	1.0	133,765	1.4
24	NA	376	1.0	132,682	1.3
25	NA	435	1.2	113,094	1.1
26	NA	421	1.1	104,118	1.1
27	NA	428	1.2	121,037	1.2
28	NA	476	1.3	117,222	1.2
29	NA	440	1.2	122,369	1.2
30	NA	476	1.3	122,435	1.2
31	NA	431	1.2	125,401	1.3
32	NA	410	1.1	112,524	1.1
33	NA	431	1.2	126,585	1.3
34	NA	434	1.2	123,639	1.3
35	NA	483	1.3	133,709	1.4
36	NA	388	1.1	119,550	1.2
37	NA	378	1.0	110,498	1.1
38	NA	374	1.0	106,862	1.1
39	NA	315	0.9	98,895	1.0
40	NA	371	1.0	112,377	1.1
41	NA	316	0.9	94,040	1.0
42	NA	367	1.0	117,315	1.2
43	NA	354	1.0	110,083	1.1
44	NA	375	1.0	111,737	1.1
45	NA	437	1.2	145,157	1.5
46	NA	419	1.1	114,728	1.2
47	NA	414	1.1	132,224	1.3
48	NA	421	1.1	124,011	1.3

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
49	NA	447	1.2	127,287	1.3
50	NA	540	1.5	150,715	1.5
51	NA	503	1.4	135,389	1.4
52	NA	559	1.5	151,860	1.5
53	NA	546	1.5	151,943	1.5
54	NA	588	1.6	151,179	1.5
55	NA	610	1.7	125,112	1.3
56	NA	645	1.7	122,786	1.2
57	NA	663	1.8	116,256	1.2
58	NA	659	1.8	120,003	1.2
59	NA	610	1.7	118,508	1.2
60	NA	779	2.1	133,450	1.4
61	NA	705	1.9	133,566	1.4
62	NA	731	2.0	140,514	1.4
63	NA	702	1.9	130,898	1.3
64	NA	632	1.7	113,471	1.1
65	NA	664	1.8	123,450	1.2
66	NA	633	1.7	133,244	1.3
67	NA	618	1.7	120,213	1.2
68	NA	590	1.6	119,293	1.2
69	NA	454	1.2	83,235	0.8
70	NA	423	1.1	90,025	0.9
71	NA	379	1.0	92,624	0.9
72	NA	368	1.0	81,619	0.8
73	NA	319	0.9	62,531	0.6
74	NA	288	0.8	58,857	0.6
75	NA	273	0.7	55,348	0.6
76	NA	222	0.6	45,534	0.5
77	NA	202	0.5	36,249	0.4
78	NA	181	0.5	38,765	0.4
79	NA	154	0.4	29,195	0.3
80	NA	150	0.4	34,130	0.3
81	NA	98	0.3	23,085	0.2
82	NA	110	0.3	20,094	0.2
83	NA	92	0.2	14,856	0.2
84	NA	96	0.3	22,468	0.2
85	NA	89	0.2	20,256	0.2
86	NA	45	0.1	13,348	0.1
87	NA	54	0.1	8,149	0.1
88	NA	49	0.1	10,575	0.1

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
89	NA	37	0.1	7,691	0.1
90	NA	39	0.1	7,003	0.1
91	NA	19	0.1	8,737	0.1
92	NA	18	0.0	2,917	0.0
93	NA	8	0.0	1,885	0.0
94	NA	7	0.0	842	0.0
95	NA	5	0.0	839	0.0
96	NA	7	0.0	1,164	0.0
97	NA	5	0.0	666	0.0
98	NA	1	0.0	78	0.0
99	NA	1	0.0	49	0.0
100	NA	2	0.0	153	0.0
101	NA	1	0.0	176	0.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: AAGE Approximate age

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	35,351	-	9,395,417	-
-8	I don't know	2	0.1	475	0.1
-7	I prefer not to answer	78	5.1	25,865	5.3
1	0-4 years old or	75	4.9	28,405	5.8
2	5-15 years old	236	15.3	77,633	15.9
3	16-17 years old	37	2.4	18,752	3.8
4	18-64 years old	845	54.9	272,551	55.8
5	65-75 years old	187	12.1	43,720	9.0
6	76 years old or older	80	5.2	20,831	4.3
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: AGE_AAGE Merge of AGE and AAGE using AAGE codes

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-8	I don't know	2	0.0	475	0.0
-7	I prefer not to answer	78	0.2	25,865	0.3
1	0-4 years old or	2,073	5.6	656,456	6.6
2	5-15 years old	4,173	11.3	1,334,743	13.5

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
3	16-17 years old	724	2.0	299,838	3.0
4	18-64 years old	22,873	62.0	6,132,379	62.0
5	65-75 years old	5,196	14.1	1,064,159	10.8
6	76 years old or older	1,772	4.8	369,735	3.7
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: AGE18 Approximate age follow-up

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,811	-	9,857,310	-
-8	I don't know	1	1.3	369	1.4
-7	I prefer not to answer	23	28.8	11,251	42.7
1	Yes, 18 or older	43	53.8	12,556	47.7
2	No, under 18	13	16.3	2,165	8.2
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: SEX Gender

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-8	I don't know	6	0.0	1,005	0.0
-7	I prefer not to answer	290	0.8	81,018	0.8
1	Male	17,717	48.0	4,822,075	48.8
2	Female	18,878	51.2	4,979,553	50.4
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: LIC License

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	6,246	-	1,991,199	-
-8	I don't know	35	0.1	14,961	0.2
-7	I prefer not to answer	86	0.3	34,284	0.4
1	Yes	28,592	93.3	7,124,182	90.3
2	No	1,932	6.3	719,023	9.1
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: NOLIC Reason for no license

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	34,959	-	9,164,627	-
-8	I don't know	87	4.5	47,753	6.6
-7	I prefer not to answer	104	5.4	40,031	5.6
1	Owning/maintaining a car is too expensive	159	8.2	64,066	8.9
2	Insurance is too expensive	114	5.9	58,827	8.2
3	Do not need a driver's license	238	12.3	84,782	11.8
4	Suspended/revoked	264	13.7	104,795	14.6
5	Medical/physical limitations	524	27.1	147,830	20.6
6	Prefer alternative types of transportation (public transportation, taxi, rideshare, etc.)	201	10.4	78,326	10.9
97	Something else	241	12.5	92,614	12.9
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: NOLIC_O Other, reason for no license

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,650	-	9,791,036	-
IN PROCESS/LEARNING TO DRIVE	NA	216	89.6	83,056	89.7
TOO YOUNG	NA	25	10.4	9,558	10.3
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: DRIVE Driving status

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	8,178	-	2,710,222	-
-8	I don't know	17	0.1	5,411	0.1
-7	I prefer not to answer	56	0.2	28,069	0.4
1	Yes	28,169	98.1	6,968,854	97.1
2	No	471	1.6	171,093	2.4
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: NODRIVE Reason for not driving

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,446	-	9,724,291	-
-8	I don't know	5	1.1	2,346	1.5
-7	I prefer not to answer	12	2.7	4,598	2.9
1	Owning/maintaining a car is too expensive	107	24.0	46,058	28.9
2	Insurance is too expensive	35	7.9	13,246	8.3
3	Driving makes [$YOU1] nervous	38	8.5	18,160	11.4
4	Medical/physical limitations	191	42.9	58,791	36.9
5	[$I_PREFER] alternative types of transportation (public transportation, taxi, rideshare, etc.)	55	12.4	15,623	9.8
97	Something else	2	0.4	537	0.3
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: NODRIVE_O Other, reason for not driving,

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,889	-	9,883,113	-
LEARNING TO DRIVE	NA	2	100.0	537	100.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: EMPLY Employed

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	6,246	-	1,991,199	-
-8	I don't know	44	0.1	17,343	0.2
-7	I prefer not to answer	189	0.6	71,308	0.9
1	Yes	17,572	57.3	4,400,547	55.8
2	No	12,840	41.9	3,403,253	43.1
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: EMPYTYPE Employer description

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	19,123	-	5,406,748	-
-8	I don't know	282	1.6	75,218	1.7
-7	I prefer not to answer	295	1.7	95,723	2.1
1	Private employer	12,439	70.0	3,216,145	71.8
2	State/local government	2,601	14.6	582,408	13.0
3	Federal government civilian	283	1.6	69,197	1.5
4	Military	29	0.2	10,435	0.2
5	Self-employed	1,839	10.4	427,776	9.6
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: EMPYTYPE_O Other, employer description

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,891	-	9,883,650	-
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: JOBS Number of jobs

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	19,086	-	5,394,452	-
-8	I don't know	89	0.5	33,607	0.7
-7	I prefer not to answer	332	1.9	103,612	2.3
0	NA	37	0.2	12,296	0.3
1	NA	15,582	87.5	3,929,608	87.5
2	NA	1,535	8.6	359,811	8.0
3	NA	185	1.0	41,141	0.9
4	NA	20	0.1	4,200	0.1
5	NA	16	0.1	3,157	0.1
6	NA	3	0.0	406	0.0
7	NA	1	0.0	34	0.0
8	NA	2	0.0	147	0.0
9	NA	3	0.0	1,179	0.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: EMPLYNOJOB Employment follow-up

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,872	-	9,880,756	-
1	[$YOU_ARE_CAP] not employed	19	100.0	2,894	100.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: WKSTAT Employment status

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	6,437	-	2,065,767	-
-8	I don't know	39	0.1	16,448	0.2
-7	I prefer not to answer	89	0.3	34,535	0.4
0	Worker, including self employed	17,578	57.7	4,402,435	56.3
1	Retired	7,186	23.6	1,487,140	19.0
2	Homemaker	1,597	5.2	452,709	5.8
3	Unemployed but looking for work	783	2.6	298,350	3.8
4	Unemployed, not seeking employment	183	0.6	58,936	0.8
5	Student (part-time or full-time)	1,295	4.3	533,247	6.8
6	Disabled non-worker	1,662	5.5	516,780	6.6
97	Something else	42	0.1	17,303	0.2
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: WKSTAT_O Other, employment status

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,849	-	9,866,347	-
ON LEAVE	NA	11	26.2	5,508	31.8
SELF-EMPLOYED	NA	20	47.6	5,000	28.9
VOLUNTEER	NA	11	26.2	6,795	39.3
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: WPLACE Work location

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	19,123	-	5,406,748	-
-8	I don't know	82	0.5	26,841	0.6
-7	I prefer not to answer	210	1.2	63,543	1.4
1	Same work place every day	14,188	79.9	3,570,578	79.8
2	Work from home	1,039	5.8	256,543	5.7
3	No fixed work place	2,249	12.7	559,397	12.5
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: WMODE Mode of transport to work

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	20,162	-	5,663,291	-
-8	I don't know	32	0.2	14,418	0.3
-7	I prefer not to answer	43	0.3	18,051	0.4
1	Walk	337	2.0	91,825	2.2
2	Bicycle	188	1.1	42,992	1.0
3	Motorcycle/moped	42	0.3	8,501	0.2
4	Auto/van/truck (as the driver)	14,986	89.6	3,722,175	88.2
5	Auto/van/truck (as the passenger)	574	3.4	156,647	3.7
6	Carpool/vanpool	188	1.1	58,965	1.4
7	School bus	6	0.0	1,099	0.0
8	Public transit local bus	191	1.1	72,279	1.7
9	Dial-a-ride/paratransit	23	0.1	4,965	0.1
10	Private bus or shuttle	8	0.0	2,288	0.1
11	Taxi/limo	9	0.1	4,947	0.1
12	Train/Amtrak	2	0.0	371	0.0
14	Airplane	32	0.2	7,587	0.2
15	Boat/ferry	1	0.0	154	0.0
16	[$I_DO] not travel to work	64	0.4	12,691	0.3
97	Something else	3	0.0	406	0.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: WMODE_O Other, mode of transport to work

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE	36,888	-	9,883,244	-

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
	SKIP				
OTHER PERSONAL TRANSPORT	NA	3	100.0	406	100.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: INDUS Industry

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	19,123	-	5,406,748	-
-8	I don't know	270	1.5	96,502	2.2
-7	I prefer not to answer	267	1.5	78,563	1.8
11	Agriculture, forestry, fishing and hunting	311	1.8	65,652	1.5
21	Mining, quarrying, and oil and gas extraction	47	0.3	9,612	0.2
22	Utilities	269	1.5	63,382	1.4
23	Construction	645	3.6	158,150	3.5
31	Manufacturing	2,556	14.4	666,481	14.9
42	Wholesale trade	187	1.1	42,841	1.0
44	Retail trade	1,606	9.0	406,187	9.1
48	Transportation and warehousing	590	3.3	158,328	3.5
51	Information	264	1.5	78,291	1.7
52	Finance and insurance	686	3.9	170,631	3.8
53	Real estate, rental and leasing	239	1.3	60,260	1.3
54	Professional, scientific and technical services	1,319	7.4	364,057	8.1
55	Management of companies and enterprises	98	0.6	23,001	0.5
56	Administration and support of waste management and remediation services	190	1.1	56,479	1.3
61	Educational services	2,416	13.6	540,076	12.1
62	Healthcare and social assistance	2,725	15.3	631,348	14.1
71	Arts, entertainment, and recreation	454	2.6	123,032	2.7
72	Food and drinking establishments	865	4.9	255,374	5.7
81	Other services (except public administration)	1,260	7.1	311,463	7.0
92	Public administration	504	2.8	117,193	2.6
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: INDUS_O Other, industry

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,891	-	9,883,650	-
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: DELIV_DRIV Drive for daily work

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	19,123	-	5,406,748	-
-8	I don't know	83	0.5	29,108	0.7
-7	I prefer not to answer	80	0.5	28,960	0.6
1	Yes	2,838	16.0	709,621	15.9
2	No	14,767	83.1	3,709,214	82.9
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: TCOFF Telecommuting Offered

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	19,702	-	5,547,228	-
-8	I don't know	2,044	11.9	538,630	12.4
-7	I prefer not to answer	82	0.5	29,390	0.7
1	Yes	2,060	12.0	546,488	12.6
2	No	13,003	75.6	3,221,913	74.3
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: TCDAYS Telecommuting Days

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	34,828	-	9,336,745	-
0	NA	1,004	48.7	276,010	50.5
1	NA	389	18.9	106,475	19.5
2	NA	189	9.2	44,686	8.2
3	NA	130	6.3	36,278	6.6
4	NA	55	2.7	9,949	1.8
5	NA	238	11.5	60,846	11.1
6	NA	16	0.8	4,139	0.8

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
7	NA	42	2.0	8,524	1.6
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: STUDE Student status

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-8	I don't know	70	0.2	29,480	0.3
-7	I prefer not to answer	237	0.6	81,472	0.8
1	Yes - Full Time	6,348	17.2	2,183,727	22.1
2	Yes - Part Time	1,272	3.4	387,988	3.9
3	No	28,964	78.5	7,200,982	72.9
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: SCHOL Level of school

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	29,271	-	7,311,935	-
-8	I don't know	18	0.2	5,710	0.2
-7	I prefer not to answer	63	0.8	22,982	0.9
1	Daycare	301	4.0	86,505	3.4
2	Nursery/Pre-school	478	6.3	153,489	6.0
3	Kindergarten to 8th grade	3,115	40.9	1,025,588	39.9
4	9th 12th grade	1,421	18.6	510,892	19.9
5	Vocational/Technical school	129	1.7	46,742	1.8
6	2-year college (community college)	556	7.3	186,208	7.2
7	4-year college or university	973	12.8	367,238	14.3
8	Graduate/Professional school	548	7.2	161,515	6.3
97	Something else	18	0.2	4,846	0.2
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: SCHOL_O Other, level of school

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,873	-	9,878,804	-

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
SPECIAL EDUCATION	NA	18	100.0	4,846	100.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: SLOC Home school status

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	31,477	-	8,073,638	-
-8	I don't know	2	0.0	1,099	0.1
-7	I prefer not to answer	35	0.6	11,424	0.6
1	Yes	242	4.5	86,644	4.8
2	No	5,135	94.8	1,710,845	94.5
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: SWEB School online-only status

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	34,597	-	9,096,051	-
-8	I don't know	21	0.9	4,662	0.6
-7	I prefer not to answer	16	0.7	4,461	0.6
1	Yes	315	13.7	96,842	12.3
2	No	1,942	84.7	681,633	86.5
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: SMODE Mode of transport to school

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	29,862	-	7,506,531	-
-8	I don't know	11	0.2	4,622	0.2
-7	I prefer not to answer	17	0.2	6,131	0.3
1	Walk	428	6.1	166,409	7.0
2	Bicycle	79	1.1	27,434	1.2
3	Motorcycle/moped	5	0.1	851	0.0
4	Auto/van/truck (as the driver)	1,681	23.9	590,193	24.8
5	Auto/van/truck (as the passenger)	2,577	36.7	833,552	35.1

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
6	Carpool/vanpool	111	1.6	34,239	1.4
7	School bus	1,838	26.1	604,379	25.4
8	Public transit local bus	155	2.2	60,741	2.6
9	Dial-a-ride/paratransit	12	0.2	3,817	0.2
10	Private bus or shuttle	15	0.2	7,445	0.3
11	Taxi/limo	4	0.1	2,002	0.1
12	Train/Amtrak	1	0.0	188	0.0
14	Airplane	3	0.0	1,685	0.1
16	[$I_DO] not travel to school	91	1.3	33,348	1.4
97	Something else	1	0.0	82	0.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: SMODE_O Other, mode of Transport to School

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,890	-	9,883,568	-
OTHER PERSONAL TRANSPORT	NA	1	100.0	82	100.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: EDUC Educational attainment

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-9	NOT ASCERTAINED	20	0.1	8,611	0.1
-8	I don’t know	176	0.5	75,899	0.8
-7	I prefer not to answer	345	0.9	108,537	1.1
1	Not a high school graduate, grade 12 or less (this includes very young children)	7,834	21.2	2,588,096	26.2
2	High school graduate (high school diploma or GED)	5,953	16.1	1,535,515	15.5
3	Some college credit but no degree	6,360	17.2	1,704,284	17.2
4	Associate or technical school degree	4,160	11.3	962,299	9.7
5	Bachelor’s or undergraduate degree	7,390	20.0	1,778,043	18.0
6	Graduate degree (includes professional degree like PHD, MD, DD, JD)	4,652	12.6	1,122,321	11.4
97	Some other degree	1	0.0	46	0.0

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: EDUC_O Other, educational attainment

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,890	-	9,883,604	-
MILITARY	NA	1	100.0	46	100.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: CPLOG Complete Log

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-8	I don't know	171	0.5	44,933	0.5
-7	I prefer not to answer	177	0.5	49,650	0.5
1	Yes	32,800	88.9	8,671,404	87.7
2	No	3,743	10.1	1,117,663	11.3
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: HVLOG Have Log

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	4,091	-	1,212,246	-
-8	I don't know	70	0.2	23,397	0.3
-7	I prefer not to answer	116	0.4	27,209	0.3
1	Yes	29,697	90.5	7,798,826	89.9
2	No	2,917	8.9	821,973	9.5
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: PERCOMP Person Level Completion

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	Person did not complete survey	604	1.6	158,546	1.6

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	Person completed survey	36,287	98.4	9,725,104	98.4
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: GPSSAMP Person GPS sampled flag

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	34,340	-	9,171,609	-
1	NA	2,551	100.0	712,041	100.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: NOGOWHY Reason for no trips

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	32,909	-	8,740,670	-
-8	I don't know	111	2.8	44,797	3.9
-7	I prefer not to answer	134	3.4	41,680	3.6
1	Personally sick	529	13.3	153,994	13.5
2	Vacation or personal day	189	4.7	65,479	5.7
3	Caretaking	167	4.2	55,916	4.9
4	Home-bound elderly or disabled	351	8.8	99,569	8.7
5	Worked at home (for pay)	231	5.8	51,076	4.5
6	Not scheduled to work	641	16.1	186,421	16.3
7	Worked around home (not for pay)	821	20.6	192,981	16.9
8	Out of area	215	5.4	61,332	5.4
9	No transportation available	100	2.5	29,706	2.6
97	Something else	493	12.4	160,028	14.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: NOGOWHY_O Other, reason for no trips

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	36,398	-	9,723,622	-
RETIRED	NA	83	16.8	15,236	9.5
SCHOOL FROM HOME	NA	99	20.1	31,626	19.8

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
TOO YOUNG	NA	290	58.8	107,767	67.3
WEATHER	NA	21	4.3	5,398	3.4
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: PROXYPERNO Proxy person identifier

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	NA	29,434	79.8	7,907,914	80.0
2	NA	6,148	16.7	1,479,267	15.0
3	NA	980	2.7	367,299	3.7
4	NA	243	0.7	96,362	1.0
5	NA	59	0.2	24,654	0.2
6	NA	17	0.0	5,708	0.1
7	NA	5	0.0	1,365	0.0
8	NA	3	0.0	820	0.0
9	NA	2	0.0	261	0.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: PERTRIPS Total Count of Person Trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	3,982	10.8	1,142,980	11.6
1	NA	370	1.0	105,789	1.1
2	NA	9,100	24.7	2,586,719	26.2
3	NA	4,465	12.1	1,188,812	12.0
4	NA	6,282	17.0	1,736,536	17.6
5	NA	3,783	10.3	921,809	9.3
6	NA	3,166	8.6	790,741	8.0
7	NA	1,904	5.2	454,502	4.6
8	NA	1,388	3.8	333,863	3.4
9	NA	843	2.3	205,659	2.1
10	NA	593	1.6	135,696	1.4
11	NA	409	1.1	110,888	1.1
12	NA	242	0.7	69,306	0.7
13	NA	130	0.4	35,690	0.4

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
14	NA	64	0.2	15,299	0.2
15	NA	54	0.1	16,545	0.2
16	NA	39	0.1	11,269	0.1
17	NA	21	0.1	6,253	0.1
18	NA	21	0.1	5,996	0.1
19	NA	13	0.0	1,856	0.0
20	NA	5	0.0	461	0.0
21	NA	3	0.0	1,270	0.0
22	NA	1	0.0	239	0.0
23	NA	4	0.0	2,028	0.0
25	NA	2	0.0	474	0.0
26	NA	2	0.0	1,076	0.0
27	NA	2	0.0	198	0.0
37	NA	1	0.0	273	0.0
48	NA	1	0.0	46	0.0
55	NA	1	0.0	1,378	0.0
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: PERTYPE Person Type

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-9	NOT ASCERTAINED	520	1.4	166,261	1.7
1	Full-time Worker	15,652	42.4	3,776,940	38.2
3	University Student	2,413	6.5	839,412	8.5
4	Non-worker	4,211	11.4	1,341,242	13.6
5	Retiree	7,125	19.3	1,468,757	14.9
6	Driving Age Child	724	2.0	299,838	3.0
7	Pre-driving Age Child	4,173	11.3	1,334,743	13.5
8	Preschool Child	2,073	5.6	656,456	6.6
		36,891	**100.0**	**9,883,650**	**100.0**

Variable Name: PERRKWT0 Person Weight

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
{range}	NA	36,891	100	9,883,650	100
		36,891	**100**	**9,883,650**	**100**

Michigan Statewide Household Travel Survey - MTCIII

Household File Codebook

July 20, 2016

Prepared For
Michigan Department of Transportation
Bureau of Transportation Planning
425 Ottawa Street
Lansing, MI 48909

Prepared By
Westat
An Employee-Owned Research Corporation®
1600 Research Boulevard
Rockville, MD 20850–3129

Variable Name: SAMPNO Sample identifier

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
{range}	NA	16,276	100	3,872,508	100
		16,276	**100**	**3,872,508**	**100**

Variable Name: TRIPDATE Travel date

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
2015-04-20	NA	356	2.2	106,641	2.8
2015-04-21	NA	417	2.6	99,513	2.6
2015-04-22	NA	440	2.7	120,919	3.1
2015-04-23	NA	492	3.0	113,434	2.9
2015-04-27	NA	321	2.0	80,068	2.1
2015-04-28	NA	405	2.5	98,762	2.6
2015-04-29	NA	355	2.2	91,096	2.4
2015-04-30	NA	334	2.1	85,003	2.2
2015-05-04	NA	473	2.9	112,374	2.9
2015-05-05	NA	457	2.8	117,454	3.0
2015-05-06	NA	460	2.8	121,106	3.1
2015-05-07	NA	397	2.4	90,622	2.3
2015-05-11	NA	348	2.1	89,102	2.3
2015-05-12	NA	343	2.1	99,575	2.6
2015-05-13	NA	313	1.9	74,234	1.9
2015-05-14	NA	299	1.8	82,939	2.1
2015-05-18	NA	231	1.4	57,000	1.5
2015-05-19	NA	228	1.4	56,268	1.5
2015-05-20	NA	210	1.3	52,843	1.4
2015-05-21	NA	189	1.2	54,019	1.4
2015-05-26	NA	122	0.7	35,599	0.9
2015-05-27	NA	120	0.7	27,079	0.7
2015-05-28	NA	107	0.7	29,318	0.8
2015-06-01	NA	164	1.0	39,303	1.0
2015-06-02	NA	58	0.4	19,966	0.5
2015-06-03	NA	62	0.4	14,875	0.4
2015-06-04	NA	55	0.3	13,618	0.4
2015-09-08	NA	6	0.0	925	0.0
2015-09-09	NA	10	0.1	1,294	0.0
2015-09-10	NA	36	0.2	7,410	0.2

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
2015-09-14	NA	73	0.4	13,709	0.4
2015-09-15	NA	90	0.6	20,896	0.5
2015-09-16	NA	133	0.8	31,682	0.8
2015-09-17	NA	142	0.9	31,979	0.8
2015-09-21	NA	258	1.6	64,471	1.7
2015-09-22	NA	283	1.7	62,134	1.6
2015-09-23	NA	271	1.7	57,458	1.5
2015-09-24	NA	359	2.2	79,208	2.0
2015-09-28	NA	384	2.4	85,533	2.2
2015-09-29	NA	381	2.3	85,954	2.2
2015-09-30	NA	360	2.2	78,601	2.0
2015-10-01	NA	392	2.4	93,370	2.4
2015-10-05	NA	432	2.7	86,128	2.2
2015-10-06	NA	421	2.6	88,403	2.3
2015-10-07	NA	435	2.7	91,217	2.4
2015-10-08	NA	327	2.0	72,026	1.9
2015-10-12	NA	360	2.2	83,144	2.1
2015-10-13	NA	346	2.1	76,777	2.0
2015-10-14	NA	312	1.9	64,441	1.7
2015-10-15	NA	326	2.0	79,137	2.0
2015-10-19	NA	249	1.5	48,855	1.3
2015-10-20	NA	309	1.9	68,803	1.8
2015-10-21	NA	285	1.8	63,856	1.6
2015-10-22	NA	224	1.4	52,792	1.4
2015-10-26	NA	171	1.1	37,799	1.0
2015-10-27	NA	155	1.0	32,368	0.8
2015-10-28	NA	134	0.8	29,031	0.7
2015-10-29	NA	131	0.8	28,647	0.7
2015-11-02	NA	96	0.6	21,577	0.6
2015-11-03	NA	93	0.6	19,195	0.5
2015-11-04	NA	93	0.6	18,020	0.5
2015-11-05	NA	77	0.5	20,153	0.5
2015-11-09	NA	49	0.3	13,588	0.4
2015-11-10	NA	39	0.2	10,672	0.3
2015-11-11	NA	42	0.3	8,642	0.2
2015-11-12	NA	37	0.2	8,005	0.2
2015-11-16	NA	25	0.2	6,374	0.2
2015-11-17	NA	32	0.2	6,757	0.2
2015-11-18	NA	13	0.1	4,232	0.1
2015-11-19	NA	31	0.2	6,997	0.2

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
2015-11-23	NA	23	0.1	8,145	0.2
2015-11-24	NA	23	0.1	5,185	0.1
2015-11-30	NA	18	0.1	2,348	0.1
2015-12-01	NA	5	0.0	2,254	0.1
2015-12-02	NA	19	0.1	6,705	0.2
2015-12-03	NA	10	0.1	2,880	0.1
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: TRAVDAY Day of week

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
2	Monday	4,031	24.8	956,160	24.7
3	Tuesday	4,213	25.9	1,007,461	26.0
4	Wednesday	4,067	25.0	957,330	24.7
5	Thursday	3,965	24.4	951,557	24.6
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: RECMODE Recruitment survey collection mode

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	CATI	1,394	8.6	396,490	10.2
2	Web	14,882	91.4	3,476,018	89.8
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: RETMODE Retrieval survey collection mode

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	CATI	4,764	29.3	1,237,742	32
2	Web	11,512	70.7	2,634,766	68
		16,276	**100.0**	**3,872,508**	**100**

Variable Name: SPONSOR Sample sponsor

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	Michigan Department of Transportation	13,428	82.5	2,028,315	52.4
2	Michigan Department of Transportation and the Southeast Michigan Council of Governments	2,848	17.5	1,844,193	47.6
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: REGION Home Region

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	Southeast Michigan Council of Governments (SEMCOG) minus Washtenaw County (WATS)	1,914	11.8	1,707,565	44.1
2	Southern Michigan Rural	1,355	8.3	386,208	10.0
3	Northern Michigan Rural	1,281	7.9	306,995	7.9
4	Small Cities	1,091	6.7	130,357	3.4
5	Grand Valley Metropolitan Council (GVMC)	1,081	6.6	263,361	6.8
6	Tri-County Regional Planning Commission (TCRPC)	839	5.2	183,589	4.7
7	Genesee County Metropolitan Planning Commission (GCMPC)	1,005	6.2	169,202	4.4
8	Great Lakes Bay Region (GLBR)	896	5.5	157,051	4.1
9	Washtenaw Area Transportation Study (WATS)	938	5.8	137,193	3.5
10	Kalamazoo Area Transportation Study (KATS)	876	5.4	110,760	2.9
11	West Michigan Metropolitan Transportation Planning Program (WestPlan)	748	4.6	86,600	2.2
12	Jackson Area Comprehensive Transportation Study (JACTS)	955	5.9	60,771	1.6
13	Twin Cities Area Transportation Study (TwinCATS) and Nilles/Buchanan/Cass Area Transportation Study (NATS)	914	5.6	57,322	1.5
14	Macatawa Area Coordinating Council (MACC)	892	5.5	43,752	1.1
15	Battle Creek Area Transportation Study (BCATS)	840	5.2	37,849	1.0
16	Traverse City (TVC)	651	4.0	33,933	0.9
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: CTYFIPS State and county FIPS concatenation

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
26001	NA	11	0.1	2,978	0.1
26003	NA	10	0.1	2,537	0.1

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
26005	NA	296	1.8	47,268	1.2
26007	NA	94	0.6	18,263	0.5
26009	NA	36	0.2	9,166	0.2
26011	NA	31	0.2	7,941	0.2
26013	NA	16	0.1	4,456	0.1
26015	NA	103	0.6	27,322	0.7
26017	NA	244	1.5	43,353	1.1
26019	NA	27	0.2	5,535	0.1
26021	NA	872	5.4	66,221	1.7
26023	NA	57	0.4	13,027	0.3
26025	NA	920	5.7	53,394	1.4
26027	NA	137	0.8	17,013	0.4
26029	NA	53	0.3	13,852	0.4
26031	NA	55	0.3	12,862	0.3
26033	NA	90	0.6	13,907	0.4
26035	NA	50	0.3	12,812	0.3
26037	NA	152	0.9	32,369	0.8
26039	NA	20	0.1	4,526	0.1
26041	NA	92	0.6	16,643	0.4
26043	NA	75	0.5	12,031	0.3
26045	NA	202	1.2	43,681	1.1
26047	NA	97	0.6	17,678	0.5
26049	NA	1,005	6.2	169,202	4.4
26051	NA	39	0.2	9,553	0.2
26053	NA	55	0.3	8,481	0.2
26055	NA	640	3.9	36,482	0.9
26057	NA	79	0.5	14,676	0.4
26059	NA	52	0.3	12,315	0.3
26061	NA	113	0.7	22,176	0.6
26063	NA	37	0.2	10,301	0.3
26065	NA	485	3.0	107,539	2.8
26067	NA	115	0.7	23,373	0.6
26069	NA	44	0.3	10,106	0.3
26071	NA	18	0.1	4,653	0.1
26073	NA	132	0.8	27,128	0.7
26075	NA	955	5.9	60,771	1.6
26077	NA	780	4.8	99,184	2.6
26079	NA	18	0.1	4,038	0.1
26081	NA	915	5.6	225,718	5.8
26083	NA	2	0.0	638	0.0

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
26085	NA	16	0.1	3,998	0.1
26087	NA	136	0.8	30,808	0.8
26089	NA	69	0.4	9,649	0.2
26091	NA	152	0.9	32,503	0.8
26093	Livingston County	103	0.6	57,873	1.5
26095	NA	6	0.0	1,823	0.0
26097	NA	13	0.1	2,998	0.1
26099	Macomb County	349	2.1	321,441	8.3
26101	NA	56	0.3	11,001	0.3
26103	NA	253	1.6	38,404	1.0
26105	NA	61	0.4	10,471	0.3
26107	NA	75	0.5	17,550	0.5
26109	NA	52	0.3	8,974	0.2
26111	NA	224	1.4	37,816	1.0
26113	NA	27	0.2	6,764	0.2
26115	Monroe County	58	0.4	50,022	1.3
26117	NA	83	0.5	19,902	0.5
26119	NA	21	0.1	5,475	0.1
26121	NA	490	3.0	58,874	1.5
26123	NA	77	0.5	21,072	0.5
26125	Oakland County	592	3.6	438,653	11.3
26127	NA	35	0.2	11,000	0.3
26129	NA	30	0.2	6,130	0.2
26131	NA	7	0.0	2,019	0.1
26133	NA	39	0.2	9,972	0.3
26135	NA	10	0.1	2,582	0.1
26137	NA	44	0.3	9,755	0.3
26139	NA	1,162	7.1	102,139	2.6
26141	NA	22	0.1	5,784	0.1
26143	NA	41	0.3	9,588	0.2
26145	NA	428	2.6	75,881	2.0
26147	St. Clair County	75	0.5	59,560	1.5
26149	NA	98	0.6	21,619	0.6
26151	NA	52	0.3	14,419	0.4
26153	NA	12	0.1	2,926	0.1
26155	NA	110	0.7	25,667	0.7
26157	NA	69	0.4	20,736	0.5
26159	NA	162	1.0	32,822	0.8
26161	Washtenaw County	938	5.8	137,193	3.5
26163	Wayne County	737	4.5	780,016	20.1

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
26165	NA	68	0.4	11,455	0.3
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: POBOXFLAG Address PO box

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	Non-PO Box	16,261	99.9	3,867,703	99.9
1	PO Box	15	0.1	4,805	0.1
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: CHGADDPHYS Address verification

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	15	-	4,805	-
-7	I prefer not to answer	22	0.1	6,536	0.2
1	Yes	16,085	98.9	3,827,067	98.9
2	No, the apartment number is incorrect	153	0.9	34,039	0.9
3	No, the zip code is incorrect	1	0.0	62	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: CHGADDBOX PO box address verification

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	16,261	-	3,867,703	-
1	Yes	15	100.0	4,805	100.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HASPOBOX Confirmation of no PO box for non-PO box sample

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	15	-	4,805	-
1	Yes	178	1.1	39,151	1.0

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
2	No	16,083	98.9	3,828,553	99.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHSIZ Household size, reported

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	NA	4,480	27.5	1,148,744	29.7
2	NA	7,107	43.7	1,318,726	34.1
3	NA	2,100	12.9	582,825	15.1
4	NA	1,696	10.4	535,893	13.8
5	NA	613	3.8	203,261	5.2
6	NA	205	1.3	55,278	1.4
7	NA	51	0.3	18,428	0.5
8	NA	16	0.1	7,643	0.2
9	NA	4	0.0	1,150	0.0
10	NA	1	0.0	101	0.0
11	NA	1	0.0	265	0.0
12	NA	2	0.0	194	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHSIZX Household size, computed

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	NA	4,324	26.6	1,119,729	28.9
2	NA	7,212	44.3	1,338,030	34.6
3	NA	2,125	13.1	584,415	15.1
4	NA	1,712	10.5	544,891	14.1
5	NA	619	3.8	202,558	5.2
6	NA	206	1.3	52,839	1.4
7	NA	53	0.3	18,630	0.5
8	NA	16	0.1	9,336	0.2
9	NA	5	0.0	1,520	0.0
10	NA	1	0.0	101	0.0
11	NA	1	0.0	265	0.0
12	NA	2	0.0	194	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHINC Household income

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-8	I don't know	186	1.1	40,985	1.1
-7	I prefer not to answer	1,694	10.4	402,056	10.4
1	Less than $15,000	1,481	9.1	480,993	12.4
2	$15,000 to $24,999	1,528	9.4	397,363	10.3
3	$25,000 to $34,999	1,636	10.1	378,677	9.8
4	$35,000 to $49,999	2,234	13.7	491,282	12.7
5	$50,000 to $74,999	3,113	19.1	631,357	16.3
6	$75,000 to $99,999	1,890	11.6	404,606	10.4
7	$100,000 to $124,999	1,208	7.4	255,051	6.6
8	$125,000 to $149,999	568	3.5	147,550	3.8
9	$150,000 or more	738	4.5	242,588	6.3
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHINC2 Household income follow-up

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	14,396	-	3,429,467	-
-8	I don't know	69	3.7	14,051	3.2
-7	I prefer not to answer	826	43.9	189,732	42.8
1	Less than $25,000	198	10.5	58,473	13.2
2	$25,000 to $49,999	268	14.3	61,914	14.0
3	$50,000 to $74,999	203	10.8	37,590	8.5
4	$75,000 or more	316	16.8	81,281	18.3
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHVEH Number of household vehicles

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	602	3.7	204,882	5.3
1	NA	4,936	30.3	1,246,010	32.2
2	NA	6,699	41.2	1,518,200	39.2
3	NA	2,575	15.8	571,749	14.8

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
4	NA	947	5.8	211,873	5.5
5	NA	316	1.9	69,325	1.8
6	NA	107	0.7	26,893	0.7
7	NA	49	0.3	12,754	0.3
8	NA	26	0.2	6,534	0.2
9	NA	9	0.1	2,590	0.1
10	NA	4	0.0	375	0.0
11	NA	4	0.0	1,064	0.0
12	NA	2	0.0	259	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HOMEOWN Home ownership status

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	13,428	-	2,028,315	-
-8	I don't know	6	0.2	6,318	0.3
-7	I prefer not to answer	70	2.5	51,441	2.8
1	Own without mortgage	704	24.7	479,890	26.0
2	Own with mortgage	1,352	47.5	830,141	45.0
3	Rent	680	23.9	451,058	24.5
4	Occupied without payment of rent	26	0.9	18,767	1.0
97	Some other arrangement	10	0.4	6,576	0.4
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HOMEOWN_O Other, home ownership status

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	16,266	-	3,865,932	-
CO-OP	NA	5	50.0	2,051	31.2
LAND CONTRACT	NA	5	50.0	4,525	68.8
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: ALTADD Address for GPS FedEx label

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	14,950	-	3,539,215	-
1	Yes, I can receive FedEx packages at the address provided.	1,268	95.6	317,620	95.3
2	No, I would like to provide a different physical mailing address (such as work location) where the package should be sent.	57	4.3	15,262	4.6
3	I can only receive mail through my P.O. Box and there is no other reliable address at which I can receive packaged mail.	1	0.1	412	0.1
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: GFLAG GPS sample flag

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	Non-GPS Household	10,012	61.5	2,378,969	61.4
1	GPS Household	6,264	38.5	1,493,539	38.6
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: FINALGFLAG GPS survey option eligibility

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	Non-GPS Household	10,012	61.5	2,378,969	61.4
1	GPS HOUSEHOLD	1,325	8.1	332,905	8.6
2	Ineligible due to age	352	2.2	72,005	1.9
3	Refused GPS	1,016	6.2	257,986	6.7
4	Travel date too far	3,571	21.9	830,644	21.4
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: GPSCTRL Household GPS deployment control code

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	14,951	-	3,539,603	-
8	Returned - Deployed	1,318	99.5	332,066	99.7
11	Returned - Prompted Recall Failure	7	0.5	839	0.3
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: GPSSAMPCT Count of persons sampled for GPS in the household

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
NA	APPROPRIATE SKIP	14,951	-	3,539,603	-
1	NA	346	26.1	90,785	27.3
2	NA	797	60.2	182,675	54.9
3	NA	127	9.6	40,063	12.0
4	NA	41	3.1	13,772	4.1
5	NA	13	1.0	5,322	1.6
6	NA	1	0.1	288	0.1
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: FUTURESURV Future survey participation

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-9	NOT ASCERTAINED	5	0.0	1,475	0.0
-8	I don't know	1,557	9.6	342,858	8.9
-7	I prefer not to answer	55	0.3	12,991	0.3
1	Yes	13,908	85.5	3,326,031	85.9
2	No	751	4.6	189,153	4.9
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: LD_INTRO Travelled farther than 100 miles in the last 3 months

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
-9	NOT ASCERTAINED	4	0.0	1,351	0.0
-8	I don't know	87	0.5	20,033	0.5
-7	I prefer not to answer	92	0.6	20,089	0.5
1	Yes	9,961	61.2	2,187,505	56.5
2	No	6,132	37.7	1,643,531	42.4
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHCHILD # of household children

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	12,462	76.6	2,747,742	71.0
1	NA	1,633	10.0	440,228	11.4
2	NA	1,483	9.1	460,111	11.9
3	NA	501	3.1	165,226	4.3
4	NA	146	0.9	39,808	1.0
5	NA	37	0.2	15,436	0.4
6	NA	6	0.0	2,246	0.1
7	NA	4	0.0	1,150	0.0
8	NA	1	0.0	101	0.0
9	NA	2	0.0	358	0.0
10	NA	1	0.0	101	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHWORKER # of household workers

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	4,924	30.3	1,173,560	30.3
1	NA	5,919	36.4	1,420,082	36.7
2	NA	4,773	29.3	1,081,610	27.9
3	NA	548	3.4	162,402	4.2
4	NA	94	0.6	30,294	0.8
5	NA	17	0.1	4,518	0.1
6	NA	1	0.0	43	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHSTUD # of household students

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	11,733	72.1	2,589,676	66.9
1	NA	2,386	14.7	618,517	16.0
2	NA	1,485	9.1	446,596	11.5
3	NA	485	3.0	158,066	4.1
4	NA	144	0.9	46,841	1.2
5	NA	29	0.2	8,798	0.2
6	NA	11	0.1	3,525	0.1
7	NA	2	0.0	396	0.0

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
8	NA	1	0.0	92	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHLICDRV # of household driver's license holders

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	393	2.4	139,004	3.6
1	NA	5,192	31.9	1,332,224	34.4
2	NA	9,102	55.9	1,945,936	50.3
3	NA	1,225	7.5	335,058	8.7
4	NA	303	1.9	98,149	2.5
5	NA	53	0.3	20,316	0.5
6	NA	8	0.0	1,821	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHTRIPS Total Count of Household Trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	469	2.9	111,321	2.9
1	NA	69	0.4	14,175	0.4
2	NA	1,162	7.1	290,065	7.5
3	NA	832	5.1	202,037	5.2
4	NA	1,763	10.8	411,651	10.6
5	NA	1,191	7.3	276,511	7.1
6	NA	1,606	9.9	372,562	9.6
7	NA	1,010	6.2	221,758	5.7
8	NA	1,393	8.6	317,929	8.2
9	NA	846	5.2	195,853	5.1
10	NA	1,043	6.4	244,599	6.3
11	NA	587	3.6	127,971	3.3
12	NA	779	4.8	184,555	4.8
13	NA	452	2.8	96,063	2.5
14	NA	546	3.4	133,204	3.4
15	NA	341	2.1	84,742	2.2
16	NA	354	2.2	87,991	2.3

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
17	NA	227	1.4	57,875	1.5
18	NA	281	1.7	66,794	1.7
19	NA	183	1.1	45,522	1.2
20	NA	193	1.2	51,336	1.3
21	NA	131	0.8	31,452	0.8
22	NA	128	0.8	35,342	0.9
23	NA	82	0.5	28,355	0.7
24	NA	95	0.6	24,680	0.6
25	NA	68	0.4	21,785	0.6
26	NA	60	0.4	22,189	0.6
27	NA	57	0.4	17,202	0.4
28	NA	53	0.3	12,591	0.3
29	NA	34	0.2	11,672	0.3
30	NA	45	0.3	10,816	0.3
31	NA	28	0.2	6,266	0.2
32	NA	25	0.2	7,089	0.2
33	NA	22	0.1	5,956	0.2
34	NA	15	0.1	5,931	0.2
35	NA	10	0.1	2,573	0.1
36	NA	11	0.1	2,058	0.1
37	NA	15	0.1	5,143	0.1
38	NA	6	0.0	2,711	0.1
39	NA	10	0.1	5,617	0.1
40	NA	5	0.0	959	0.0
41	NA	7	0.0	2,161	0.1
42	NA	7	0.0	1,788	0.0
43	NA	6	0.0	2,388	0.1
44	NA	4	0.0	829	0.0
45	NA	3	0.0	1,699	0.0
46	NA	1	0.0	215	0.0
47	NA	2	0.0	382	0.0
48	NA	1	0.0	648	0.0
49	NA	1	0.0	312	0.0
50	NA	1	0.0	357	0.0
51	NA	1	0.0	102	0.0
52	NA	1	0.0	47	0.0
53	NA	3	0.0	500	0.0
55	NA	1	0.0	275	0.0
56	NA	1	0.0	91	0.0
57	NA	1	0.0	118	0.0

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
62	NA	2	0.0	3,799	0.1
64	NA	1	0.0	62	0.0
67	NA	2	0.0	311	0.0
70	NA	1	0.0	1,356	0.0
73	NA	1	0.0	102	0.0
76	NA	1	0.0	62	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: PUDOTRIPS Total Count of Pick Up / Drop Off Trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	12,110	74.4	2,788,789	72.0
1	NA	1,167	7.2	292,787	7.6
2	NA	1,508	9.3	381,750	9.9
3	NA	467	2.9	119,574	3.1
4	NA	418	2.6	102,607	2.6
5	NA	165	1.0	51,246	1.3
6	NA	184	1.1	52,781	1.4
7	NA	82	0.5	30,643	0.8
8	NA	48	0.3	15,177	0.4
9	NA	34	0.2	7,620	0.2
10	NA	29	0.2	9,356	0.2
11	NA	22	0.1	4,206	0.1
12	NA	9	0.1	2,065	0.1
13	NA	10	0.1	3,251	0.1
14	NA	7	0.0	2,312	0.1
15	NA	2	0.0	334	0.0
16	NA	2	0.0	557	0.0
17	NA	1	0.0	370	0.0
20	NA	1	0.0	2,062	0.1
21	NA	1	0.0	2,301	0.1
23	NA	1	0.0	89	0.0
25	NA	2	0.0	194	0.0
27	NA	1	0.0	102	0.0
29	NA	1	0.0	246	0.0
30	NA	1	0.0	62	0.0
33	NA	1	0.0	245	0.0

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
35	NA	1	0.0	1,737	0.0
39	NA	1	0.0	47	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: SHOPTRIPS Total Count of Shopping Trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	8,300	51.0	1,994,242	51.5
1	NA	3,859	23.7	916,390	23.7
2	NA	2,163	13.3	512,547	13.2
3	NA	875	5.4	217,231	5.6
4	NA	578	3.6	123,900	3.2
5	NA	171	1.1	42,313	1.1
6	NA	170	1.0	31,373	0.8
7	NA	48	0.3	9,773	0.3
8	NA	53	0.3	10,741	0.3
9	NA	21	0.1	3,227	0.1
10	NA	15	0.1	5,029	0.1
11	NA	5	0.0	1,569	0.0
12	NA	9	0.1	1,401	0.0
13	NA	2	0.0	378	0.0
14	NA	3	0.0	1,560	0.0
15	NA	1	0.0	203	0.0
16	NA	1	0.0	357	0.0
18	NA	1	0.0	243	0.0
22	NA	1	0.0	32	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: WORKTRIPS Total Count of Work Trips. This count does not exclude trips identified as work-related by the IS_TRIP variable.

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
0	NA	6,387	39.2	1,521,016	39.3
1	NA	4,416	27.1	1,085,058	28.0
2	NA	3,026	18.6	715,109	18.5

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
3	NA	1,218	7.5	281,039	7.3
4	NA	599	3.7	134,955	3.5
5	NA	259	1.6	50,731	1.3
6	NA	143	0.9	29,349	0.8
7	NA	71	0.4	16,864	0.4
8	NA	40	0.2	9,915	0.3
9	NA	34	0.2	6,405	0.2
10	NA	21	0.1	3,396	0.1
11	NA	14	0.1	4,673	0.1
12	NA	11	0.1	2,528	0.1
13	NA	8	0.0	2,203	0.1
14	NA	7	0.0	1,512	0.0
15	NA	4	0.0	614	0.0
16	NA	1	0.0	76	0.0
17	NA	3	0.0	462	0.0
18	NA	2	0.0	541	0.0
19	NA	2	0.0	1,134	0.0
20	NA	1	0.0	188	0.0
21	NA	2	0.0	291	0.0
22	NA	1	0.0	773	0.0
23	NA	1	0.0	1,104	0.0
25	NA	1	0.0	507	0.0
26	NA	1	0.0	120	0.0
30	NA	1	0.0	261	0.0
33	NA	1	0.0	330	0.0
55	NA	1	0.0	1,356	0.0
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: LIFECYCLE Household lifecycle

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	Household has 1 adult, no children and no retired persons	2,858	17.6	741,886	19.2
2	Household has 2 or more adults, no children and no retired persons	4,580	28.1	841,770	21.7
3	Household has 1 adult and the youngest child is 0 to 4 years old	129	0.8	44,033	1.1
4	Household has 2 or more adults and the youngest child is 0 to 4 years old	1,416	8.7	417,141	10.8

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
5	Household has one adult and the youngest child is 5 to 17 years old	378	2.3	93,426	2.4
6	Household has 2 or more adults and the youngest child is 5 to 17 years old	1,891	11.6	570,166	14.7
7	Household has 2 adults and the age gap is 15 years or more	707	4.3	158,239	4.1
8	Household has 2 or more adults and the age gap for any two members is 15 years or more	1,062	6.5	313,686	8.1
9	Household has 1 or more adults with no children and all adults are retired	3,147	19.3	660,315	17.1
10	Too many item non-response cases to impute relationships	108	0.7	31,846	0.8
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: DEL_DATE Initial Delivery Date

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
2015-07-24	NA	4,815	29.6	1,210,847	31.3
2015-09-18	NA	2,867	17.6	754,942	19.5
2015-11-20	NA	2,890	17.8	648,495	16.7
2016-01-22	NA	5,704	35.0	1,258,224	32.5
		16,276	**100.0**	**3,872,508**	**100.0**

Variable Name: HHRKWT0 Household Weight

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
{range}	NA	16,276	100	3,872,508	100
		16,276	**100**	**3,872,508**	**100**

Variable Name: HHINC_I Household income (imputed)

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
1	NA	1,619	9.9	526,546	13.6
2	NA	1,733	10.6	451,554	11.7
3	NA	1,859	11.4	429,022	11.1

Codes	Responses	Frequency	Percentage	Weighted Frequency	Weighted Percentage
4	NA	2,535	15.6	560,174	14.5
5	NA	3,517	21.6	715,385	18.5
6	NA	2,166	13.3	461,277	11.9
7	NA	1,369	8.4	286,747	7.4
8	NA	637	3.9	163,558	4.2
9	NA	841	5.2	278,245	7.2
		16,276	**100.0**	**3,872,508**	**100.0**

Appendix JJ

Text and Email Reminders

Text and Email Reminders

For MDOT/SEMCOG Travel Surveys

Prepared by:
Westat

December 19, 2014

MI Travel Counts Survey Reminders Script

Field Definitions

REMCONT – Preferred Reminder Mode for Messages: 1=Text, 2=Email, 3=Phone
TRIPDATE – Travel Date
RETPREF – preferred Method for retrieval stated in REC: 1=WEB, 2=CATI, 3=No Preference
DOWNLOAD – Preference for downloading travel logs: 1=Printed at home (Yes), 2=Received in mail (No)
FINALGFLAG – GPS eligibility: 0=Non-GPS Household, 1=GPS Household, 2=Ineligible due to age, 3=Refused GPS, 9=Unexpected GPS ineligible
RELEASED – 1=Released for retrieval, 0 or null=not released
TEXTC – Flag for Text
TEXTR – Flag for Text
TEXT3 – Flag for Text
TEXT4 – Flag for Text
TEXT5 – Flag for Text
TEXT6 – Flag for Text
TEXT7 – Flag for Text
TEXT8 – Flag for Text
TEXT9 – Flag for Text
TEXT10 – Flag for Text
TEXT11 – Flag for Text
TEXT12 – Flag for Text
TEXT13 – Flag for Text
TEXTPR – Flag for Text
TEXTPR2 – Flag for Text
TEXTPR3 – Flag for Text
TEXT14 – Flag for Text
EMALC - Flag for Email
EMALR – Flag for Email
EMAL3 – Flag for Email
EMAL4 – Flag for Email
EMAL5 – Flag for Email
EMAL6 – Flag for Email
EMAL7 – Flag for Email
EMAL8 – Flag for Email
EMAL9 – Flag for Email

EMAL10 – Flag for Email
EMAL11 – Flag for Email
EMAL12 – Flag for Email
EMAL13 – Flag for Email
EMALPR – Flag for Email
EMALPR2 – Flag for Email
EMALPR3 – Flag for Email
EMAL14 – Flag for Email

REC DISPOSITION– **Recruit** – needed so we can send confirmations to recruit completes: 800
RET DISPOSITION – **Retrieval** – needed so messages aren't sent to completed samples: 800
MAILFNAM/MAILFNAMGPS – Respondent First Name
MAILLNAM/ MAILLNAMGPS – Respondent Last Name

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Text - For GPS (FLAG=TEXT5) 19

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL5) 19

Email - For GPS with Log Only Household members (FLAG=EMAL5) 20

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Text - For GPS (FLAG=TEXT6) 21

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL6) 21

Email - For GPS with Log Only Household members (FLAG=EMAL6) 22

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Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL7) 24

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Text - For GPS (FLAG=TEXT8) 26

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL8) 26

Email - For GPS with Log Only Household members (FLAG=EMAL8) 27

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Email - For Log Only (FLAG=EMAL9): 28

Text - For GPS (FLAG=TEXT9) 29

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL9) 29

Email - For GPS with Log Only Household members (FLAG=EMAL9) 30

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Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL10) 31

Email - For GPS with Log Only Household members (FLAG=EMAL10) 33

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Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL11) 34
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Post Recruitment Confirmation

These messages should be sent to participants after they have completed the recruit phase as a confirmation.

Email for Logs-only with Preference for Mailed Logs (FLAG= EMALC)

Conditions: (INSTRUMENTDISPOSITION=RECRUIT COMPLETE AND REMCONT = 2 AND SAMPLEDISPOSITION=800); (FINALGFLAG=0,2,3); DOWNLOAD=2

Conditions for Dev: $TODAY_ASSN < assn AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid not in (501,602,603,202) AND email = 1 AND gflag != 1 ~~IN (0,2,3)~~ AND download = 2

File: PostRecruitConfirmationLogOnlyEmail.html

Hello <MAILFNAM> <MAILLNAM>,

This is a confirmation that you have successfully completed the first step of your participation in the MI Travel Counts survey. We will send your travel log(s) by mail a few days before your assigned travel day on <TRIPDATE>.

If you have any questions, please call us at 1-855-774-1800.

Thank you again for participating in MI Travel Counts! Remember, we value your input, no matter how much or how little you travel!

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

Text for Logs-only with Preference for Mailed Logs (FLAG= TEXTC)

Conditions: (INSTRUMENTDISPOSITION=RECRUIT COMPLETE AND REMCONT = 1 AND SAMPLEDISPOSITION=800); (FINALGFLAG=0,2,3); DOWNLOAD=2

Conditions for Dev: $TODAY_ASSN < assn AND recdispoid = 800 AND hh_dispoid not in (501,602,603,202) AND download = 2 AND text=1 AND gflag != 1

File: PostRecruitConfirmationLogOnlyText.txt

Hi, We will send your MI Travel Counts travel log by mail a few days before your travel day on <TRIPDATE>. Questions? Call 1-855-774-1800.

Email for Logs-only with Preference to Download Logs (FLAG= EMALC)

Conditions: (INSTRUMENTDISPOSITION=RECRUIT COMPLETE AND REMCONT = 2 AND SAMPLEDISPOSITION=800); (FINALGFLAG=0,2,3); DOWNLOAD=1

Conditions for Dev: $TODAY_ASSN < assn AND recdispoid = 800 AND hh_dispoid not in (501,602,603,202) AND email=1 AND download = 1 AND gflag != 1

File: PostRecruitConfirmationDownloadLogOnlyEmail.html

Hello <MAILFNAM> <MAILLNAM>,

This is a confirmation that you have successfully completed the first step of your participation in the MI Travel Counts survey. Please use the travel log(s) you downloaded from www.MITravelCounts.com to record your travel on your travel day on <TRIPDATE>.

If you have any questions, please call us at 1-855-774-1800.

Thank you again for participating in MI Travel Counts! Remember, we value your input, no matter how much or how little you travel.

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

Text for Logs-only with Preference to Download Logs (FLAG=TEXTC)

Conditions: (INSTRUMENTDISPOSITION=RECRUIT COMPLETE AND REMCONT = 1 AND SAMPLEDISPOSITION=800); (FINALGFLAG=0,2,3); DOWNLOAD=1

Conditions for Dev: $TODAY_ASSN < assn AND recdispoid = 800 AND hh_dispoid not in (501,602,603,202) AND text=1 AND download = 1 AND gflag != 1

File: PostRecruitConfirmationDownloadLogOnlyText.txt

Hi, Please use the travel logs you downloaded to report travel on your travel day on <TRIPDATE>. Questions? Call 1-855-774-1800.

Email for all GPS households (FLAG=EMALC)

Conditions: (INSTRUMENTDISPOSITION=RECRUIT COMPLETE AND REMCONT = 2 AND SAMPLEDISPOSITION=800); (FINALGFLAG=1)

Conditions for Dev: $TODAY_ASSN < assn AND recdispoid = 800 AND hh_dispoid not in (501,602,603,202) AND email=1 ~~AND download = 1~~ AND gflag = 1

File: PostRecruitConfirmationGpsEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

This is a confirmation that you have successfully completed the first step of your participation in the MI Travel Counts survey. We will send your GPS device(s) along with travel log(s) by FedEx a few days before your assigned travel day on <TRIPDATE>.

If you have any questions, please call 1-855-774-1800.

Thank you again for participating in MI Travel Counts! Remember, we value your input, no matter how much or how little you travel!

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

Text for all GPS households (FLAG= TEXTC)

Conditions: (INSTRUMENTDISPOSITION=RECRUIT COMPLETE AND REMCONT = 1 AND SAMPLEDISPOSITION=800); (FINALGFLAG=1)

Conditions for Dev: $TODAY_ASSN < assn AND recdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND text=1 ~~AND download = 1~~ AND gflag = 1

File: PostRecruitConfirmationGpsText.txt

Hello, Your MI Travel Counts GPS devices and travel logs will arrive by FedEx a few days before <TRIPDATE>. Questions? Call 1-855-774-1800.

One Days Prior to Travel Date (TRIPDATE-1) – Pre-Travel Day Reminder

These messages go out to remind households to record travel on the assigned travel day and to use GPS devices if they are a GPS household.

Text - For Logs Only (Flag=TEXTR):

Conditions: (FINALGFLAG=0,2,3) AND REMCONT=1, TRIPDATE is tomorrow. Message has not already been sent.

Conditions for Dev: assn <= ($TRAVEL_ASSN) AND assn >= ($TRAVEL_ASSN - 1) AND recdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND text=1 AND gflag != 1

File: OneDayPriorToTravelLogOnlyText.txt

Thanks for participating in the MI Travel Counts survey. Please use all travel logs on <TRIPDATE>. Questions? Call 1-855-774-1800.

Email – For Logs Only – Receive by Mail (Flag=EMALR):

Conditions: (FINALGFLAG=0,2,3) AND REMCONT=2, TRIPDATE is tomorrow. Message has not already been sent.

Conditions for Dev: assn <= ($TRAVEL_ASSN) AND assn >= ($TRAVEL_ASSN - 1) AND recdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND email=1 AND gflag != 1 AND DOWNLOAD=2

File: OneDayPriorToTravelLogOnlyEmail.html

Hello <MAILFNAM> <MAILLNAM>,

Thank you for participating in the MI Travel Counts survey. Your household is scheduled to participate in the survey on <TRIPDATE>. Please have each person in your home take their travel log with them and record their travel for the day. If you have not yet received your logs, you can download them at www.MITravelCounts.com, or you can simply note where, when, how and why you go for each place you visit on <TRIPDATE>.

Remember, households that complete the survey will receive $20.

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

Email – For Logs Only – Print (Flag=EMAL?):

Conditions: (FINALGFLAG=0,2,3) AND REMCONT=2, TRIPDATE is tomorrow. Message has not already been sent.

Conditions for Dev: assn <= ($TRAVEL_ASSN) AND assn >= ($TRAVEL_ASSN - 1) AND recdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND email=1 AND download = 1 AND gflag != 1 AND DOWNLOAD=1

File: OneDayPriorToTravelLogOnlyPrintEmail.html

Hello <MAILFNAM> <MAILLNAM>,

Thank you for participating in the MI Travel Counts survey. Your household is scheduled to participate in the survey on <TRIPDATE>. Please have each person in your home take their travel log with them and record their travel for the day. If you have not yet printed your logs, you can download them at www.MITravelCounts.com, or you can simply note where, when, how and why you go for each place you visit on <TRIPDATE>.

Remember, households that complete the survey will receive $20.

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

Text - For GPS: (FLAG=TEXTR)

Conditions: (FINALGFLAG=1) AND REMCONT=1, TRIPDATE is tomorrow. Message has not already been sent.

Conditions for Dev: assn <= ($TRAVEL_ASSN) AND assn >= ($TRAVEL_ASSN - 1) AND recdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND text=1 AND gflag = 1

File: OneDayPriorToTravelGpsText.txt

Your MI Travel Counts survey starts on <TRIPDATE>. Please use your GPS device(s) & log(s) as instructed. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMALR)

Conditions: (FINALGFLAG=1) AND REMCONT=2, AND LOG_ONLY persons=0 AND TRIPDATE is tomorrow. Message has not already been sent.

Conditions for Dev: assn <= ($TRAVEL_ASSN) AND assn >= ($TRAVEL_ASSN - 1) AND recdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND email=1 AND gflag = 1 AND log_only = 0

File: OneDayPriorToTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Your household is scheduled to start the survey on <TRIPDATE>. Please have each person in your household take their logs with them and record their travel for the day. In addition to using the logs, the GPS devices should be used as instructed.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, confirms their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

Email - For GPS households with Log Only Household members (FLAG=EMALR)

Conditions: (FINALGFLAG=1) AND TRIPDATE is tomorrow AND (REMCONT=2) AND LOG_ONLY persons>0

Conditions for Dev: assn <= ($TRAVEL_ASSN) AND assn >= ($TRAVEL_ASSN - 1) AND recdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND text=1 AND gflag = 1 AND log_only > 0

File: OneDayPriorToTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Your household is scheduled to start the survey on <TRIPDATE>. Please have each person in your household take their logs with them and record their travel for the day. In addition to using the logs, the GPS devices should be used as instructed.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

One Day after Travel Date (TRIPDATE+1) – Retrieval Reminder and GPS Usage Reminder

This message goes out one day after the assigned travel date to remind households to report travel and to ask GPS households to continue using the devices.

Text - For Log Only (FLAG=TEXT3):

Conditions: (FINALGFLAG=0,2,3); REMCONT=1, TRIPDATE is 1 day ago, and RETRIEVAL NOT COMPLETE

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag != 1

File: OneDayAfterTravelLogOnlyText.txt

Thank you for participating in the survey. Please report your yesterday's travel NOW at www.MItravelcounts.com. Questions? Call 1-855-774-1800.

Email - For Log Only (FLAG=EMAL3):

Conditions: (FINALGFLAG=0,2,3); REMCONT=2, TRIPDATE is 1 day ago, AND RETRIEVAL NOT COMPLETE

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag != 1

File: OneDayAfterTravelLogOnlyEmail.html

Hello <MAILFNAM> <MAILLNAM>,

Thank you for participating in the MI Travel Counts survey. Please log in to www.MITravelCounts.com, enter your pin: <PINNO> and report your travel **as soon as possible.**

Remember, households that complete both parts of the survey will receive $20.

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

Text – for GPS (FLAG= TEXT3)

Conditions: (FINALGFLAG=1); REMCONT=1, TRIPDATE is 1 day ago
Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1
File: OneDayAfterTravelGpsText.txt

Thank you for participating. Please use GPS devices through tomorrow, charging overnight, then return them. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL3)

Conditions: (FINALGFLAG=1); REMCONT=2, TRIPDATE is 1 days ago and LOG_ONLY persons=0
Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND log_only=0
File: OneDayAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Please charge and keep using your GPS devices through the end of the day tomorrow before returning them in the box and return FedEx envelope provided.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, confirms their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS with Log Only Household members: (FLAG=EMAL3)

Conditions: (FINALGFLAG=1); REMCONT=2, TRIPDATE is 1 day ago and LOG_ONLY persons>0
Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND log_only > 0
File: OneDayAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Please charge and keep using your GPS devices through the end of the day tomorrow before returning them in the box and return FedEx envelope provided.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Two Days after Travel Date (TRIPDATE+2) –GPS Usage Reminder

This message goes out two days after the assigned travel date to remind GPS households to continue using the devices.

Text – for GPS (FLAG= TEXT4)

Conditions: (FINALGFLAG=1); REMCONT=1, TRIPDATE is 2 days ago

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1

File: TwoDaysAfterTravelGpsText.txt

Thank you for participating in MI Travel Counts. Please use GPS devices through today and return them tomorrow. Questions? Call 1-855-774-1800.

Email - For GPS with Log Only Household members: (FLAG=EMAL4)

Conditions: (FINALGFLAG=1); REMCONT=2, TRIPDATE is 2 days ago and LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND log_only > 0

File: TwoDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Please keep using your GPS devices through the end of the day today before returning them tomorrow in the box and FedEx envelope provided.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL4)

Conditions: (FINALGFLAG=1); REMCONT=2, TRIPDATE is 2 days ago and LOG_ONLY persons=0
Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND log_only = 0
File: TwoDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Please keep using your devices through the end of the day today before returning them tomorrow in the box and FedEx envelope provided.

Remember, your household will receive $25 per person who received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, confirms their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Three Days after Travel Date (TRIPDATE+3) – GPS Return

This message goes out 3 days after the assigned travel date to remind GPS households to return their GPS equipment.

Text - For GPS (FLAG=TEXT5)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+3) AND (REMCONT=1) AND shippedback<>1 OR (CONTROLCODE IN (1, 6))

Conditions for Dev: text=1 AND recdispoid = 800 AND (retdispoid != 800 AND ~~OR~~ controlcode in (1, 6)) AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 ~~AND dow = 5~~

File: ThreeDaysAfterTravelGpsText.txt

Thank you for participating in the MI Travel Counts survey. Use the pre-paid FedEx packaging to return GPS devices. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL5)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+3) AND (REMCONT=2) AND (shippedback<>1) OR (RETRIEVAL NOT COMPLETE OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons=0

Conditions for Dev: email=1 AND recdispoid = 800 AND (retdispoid != 800 AND ~~OR~~ controlcode in (1, 6)) AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 ~~AND dow = 5~~ AND log_only = 0

File: ThreeDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log

3. When contacted, confirms their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS with Log Only Household members (FLAG=EMAL5)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+3) AND (REMCONT=2) AND (shippedback<>1) OR (RETRIEVAL NOT COMPLETE OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND (retdispoid != 800 OR controlcode in (1, 6)) AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 ~~AND dow = 5~~ AND log_only > 0

File: ThreeDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Four Days after Travel Date (TRIPDATE+4) – GPS Return

This message goes out 4 days after the assigned travel date to remind GPS households to return their GPS equipment.

Text - For GPS (FLAG=TEXT6)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+4) AND (REMCONT=1) AND (shippedback<>1) OR (CONTROLCODE IN (1, 6))

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6)

File: FourDaysAfterTravelGpsText.txt

Thank you for participating in the MI Travel Counts survey. Use the pre-paid FedEx packaging to return GPS devices. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL6)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+4) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons=0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only = 0

File: FourDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, confirms their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS with Log Only Household members (FLAG=EMAL6)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+4) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) log_only > 0

File: FourDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Five Days after Travel Date (TRIPDATE +5) – Retrieval Reminder

This message goes out five days after the assigned travel date to remind households to report their travel.

Text - For Log Only (FLAG=TEXT7):

Conditions: FINALGFLAG IN (0,2,3); REMCONT=1 AND TRIPDATE is 5 days ago and RETRIEVAL NOT COMPLETE

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag ~~IN (0,2,3)~~ != 1

File: FiveDaysAfterTravelLogOnlyText.txt

Thank you for participating in the MI Travel Counts survey. Please report your travel NOW at www.mitravelcounts.com or call 1-855-774-1800.

Email - For Log Only (FLAG=EMAL7):

Conditions: FINALGFLAG IN (0,2,3); REMCONT=2, TRIPDATE is 5 days ago, and RETRIEVAL NOT COMPLETE

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag ~~IN (0,2,3)~~ != 1

File: FiveDaysAfterTravelLogOnlyEmail.html

Hello <MAILFNAM> <MAILLNAM>,

Thank you for participating in the MI Travel Counts survey. Please log in at www.MITravelCounts.com, enter your pin: <PINNO> and report your travel **as soon as possible.**

Remember, households that complete both parts of the survey will receive $20.

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Five Days after Travel Date (TRIPDATE+5) – GPS Return

This message goes out 5 days after the assigned travel date to remind GPS households to return their GPS equipment.

Text - For GPS (FLAG=TEXT7)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+5) AND (REMCONT=1) AND (shippedback<>1) OR (CONTROLCODE IN (1, 6))

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode IN (1, 6)

File: FiveDaysAfterTravelGpsText.txt

Thanks for participating in the MI Travel Counts survey. Use the pre-paid FedEx Pak to return GPS devices. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL7)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+5) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons=0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode IN (1, 6) AND log_only = 0

File: FiveDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, confirms their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS with Log Only Household members (FLAG=EMAL7)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+4) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6) AND LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode IN (1, 6) AND log_only > 0

File: FiveDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Seven Days after Travel Date (TRIPDATE+7) – GPS Return

This message goes out 7 days after the assigned travel date to remind GPS households to return their GPS equipment.

Text - For GPS (FLAG=TEXT8)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+) AND (REMCONT=1) AND (shippedback<>1) OR (CONTROLCODE IN (1, 6))

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode IN (1, 6)

File: SevenDaysAfterTravelGpsText.txt

Thank you for participating in the MI Travel Counts survey. Use the pre-paid FedEx Pak to return GPS devices. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL8)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+4) AND (REMCONT=2) AND (shippedback<>1) OR (RETRIEVAL NOT COMPLETE OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons=0

Conditions for Dev: email=2 AND recdispoid = 800 AND (retdispoid != 800 AND ~~OR~~ controlcode IN (1, 6))AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND log_only = 0

File: SevenDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. If you haven't already done so, please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS with Log Only Household members (FLAG=EMAL8)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+4) AND (REMCONT=2) AND (shippedback<>1) OR (RETRIEVAL NOT COMPLETE OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND (retdispoid != 800 AND ~~OR~~ controlcode IN (1, 6)) AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND log_only > 0

File: SevenDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. If you haven't already done so, please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Ten Days after Travel Date (TRIPDATE +10) – Retrieval Reminder and GPS Device Return Reminder

This message goes out 10 days after the assigned travel date to remind log only households to report their travel and remind GPS households to return their devices.

Text - For Log Only (FLAG=TEXT9):

Conditions: FINALGFLAG IN (0,2,3); REMCONT=1, TRIPDATE is 10 days ago, and DISPOSITION<>800 AND (CONTROLCODE IN (1, 6))

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag ~~IN (0,2,3)~~ != 1

File: TenDaysAfterTravelLogOnlyText.txt

Thank you for participating in the MI Travel Counts survey. Please report your travel NOW at www.MITravelCounts.com or call 1-855-774-1800.

Email - For Log Only (FLAG=EMAL9):

Conditions: FINALGFLAG IN (0,2,3); REMCONT=2, TRIPDATE is 10 days ago, and DISPOSITION<>800 AND (CONTROLCODE IN (1, 6))

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag ~~IN (0,2,3)~~ != 1

File: TenDaysAfterTravelLogOnlyEmail.html

Hello <MAILFNAM> <MAILLNAM>,

Thank you for participating in the MI Travel Counts Survey. There's still time for you to log in to www.MITravelCounts.com, enter your pin: <PINNO> and report your travel.

Remember, households that complete both parts of the survey will receive $20.

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

(reference: <SAMPNO>)

Text - For GPS (FLAG=TEXT9)

Conditions: FINALGFLAG=1; REMCONT=1, TRIPDATE is 10 days ago AND (DISPOSITION <>800AND (shippedback<>1) OR (CONTROLCODE IN (1, 6))

Conditions for Dev: text=1 AND recdispoid = 800 AND (retdispoid != 800 OR controlcode in (1, 6)) AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1

File: TenDaysAfterTravelGpsText.txt

Thank you for participating in the MI Travel Counts survey. Please return the GPS devices via FedEx asap. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL9)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+10) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons=0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only = 0

File: TenDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. If you haven't already done so, please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS with Log Only Household members (FLAG=EMAL9)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+10) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only > 0

File: TenDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. If you haven't already done so, please return your GPS device(s) as soon as possible by calling FedEx at 1-800-GO-FEDEX or placing the return package in a FedEx drop box. Once we receive your devices, we will contact you via phone, email, or text. At that time, you will be asked to confirm your travel online at www.MItravelcounts.com or by phone at 1-855-774-1800.

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

14 Days after Travel Date (TRIPDATE + 14) Equipment Retrieval

This message goes out 14 days after the travel date to remind GPS households to return their equipment.

Text – For GPS (FLAG=TEXT10)

Conditions: FINALGFLAG IN (1); REMCONT=1, TRIPDATE is 14 days ago AND (shippedback<>1) OR CONTROL CODE IN (1, 6)

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6)

File: FourteenDaysAfterTravelGpsText.txt

Please return the GPS device(s) by calling FedEx (1-800-GO-FEDEX) or by putting the return package in a FedEx box. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL10)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+14) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons=0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only = 0

File: FourteenDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Our records indicate that we have not received the GPS device(s) that we sent to you. ***We need your help to get the unit(s) back so that you can complete the survey and so that we can use them again for other study participants. We have made several attempts to contact you via telephone, email and mail.*** Please call us at 1-855-774-1800 to let us know if you can return the devices soon or if you have already returned them. To return the GPS device(s), please call FedEx at 1-800-GO-FEDEX or place the return package in a FedEx drop box. (If you need a replacement envelope, we would be happy to send one to you - just give us a call.)

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, confirms their travel for the first travel day by phone or web

687 If you have questions, please reply to this email or call us at 1-855-774-1800.

688 Thank you,

689 The MI Travel Counts Survey Team

690

691 (reference: <SAMPNO>)

692

Reference: <SAMPNO>

Email - For GPS with Log Only Household members (FLAG=EMAL10)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+14) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only > 0

File: FourteenDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Our records indicate that we have not received the GPS device(s) that we sent to you. ***We need your help to get the unit(s) back so that you can complete the survey and so that we can use them again for other study participants. We have made several attempts to contact you via telephone and mail.*** Please call us 1-855-774-1800 to let us know if you can return the devices soon or if you have already returned them. To return the GPS device(s), please call FedEx at 1-800-GO-FEDEX or place the return package in a FedEx drop box. (If you need a replacement envelope, we would be happy to send one to you - just give us a call.)

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

17 Days after Travel Date (TRIPDATE + 17) Equipment Retrieval

This message goes out 17 days after the travel date to remind GPS households to return their devices.

Text – For GPS (FLAG=TEXT11)

Conditions: FINALGFLAG IN (1); REMCONT=1, TRIPDATE is 17 days ago AND (shippedback<>1) OR CONTROL CODE IN (1, 6)

Conditions for Dev: text=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6)

File: SeventeenDaysAfterTravelGpsText.txt

Please return your GPS device(s) by calling FedEx at 1-800-GO-FEDEX or by placing the return package in a FedEx box. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL11)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+17) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons=0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only = 0

File: SeventeenDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Our records indicate that we have not received the GPS device(s) that we sent to you. ***We need your help to get the unit(s) back so that you can complete the survey and so that we can use them again for other study participants. We have made several attempts to contact you via telephone and mail.*** Please call us at 1-855-774-1800 to let us know if you can return the devices soon or if you have already returned them. To return the GPS device(s), please call FedEx at 1-800-GO-FEDEX or place the return package in a FedEx drop box. (If you need a replacement envelope, we would be happy to send one to you - just give us a call.)

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, confirms their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS with Log Only Household members (FLAG=EMAL11)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+17) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only > 0

File: SeventeenDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Our records indicate that we have not received the GPS device(s) that we sent to you. ***We need your help to get the unit(s) back so that you can complete the survey and so that we can use them again for other study participants. We have made several attempts to contact you via telephone and mail.*** Please call us at 1-855-774-1800 to let us know if you can return the devices soon or if you have already returned them. To return the GPS device(s), please call FedEx at 1-800-GO-FEDEX or place the return package in a FedEx drop box. (If you need a replacement envelope, we would be happy to send one to you - just give us a call.)

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

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21 Days after Travel Date (TRIPDATE + 21) Equipment Retrieval

This message is sent out 21 days after the travel date to remind GPS households to return their devices.

Text – For GPS (FLAG=TEXT12)

Conditions: FINALGFLAG IN (1); REMCONT=1, TRIPDATE is 21 days ago AND (DISPOSITION <>800 AND (shippedback<>1) OR CONTROLCODE IN (1, 6))

Conditions for Dev: text=1 AND recdispoid = 800 AND (retdispoid != 800 OR controlcode in (1, 6)) AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1

File: TwentyOneDaysAfterTravelGpsText.txt

Thank you for participating. Use the pre-paid packaging to return your GPS devices asap. Questions? Call 1-855-774-1800.

Email - For GPS households where all members receive GPS devices, aka, no Log Only Household members (FLAG=EMAL12)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+21) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons=0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only = 0

File: TwentyOneDaysAfterTravelGpsNoLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Our records indicate that we have not received the GPS device(s) that we sent to you. ***We need your help to get the unit(s) back so that you can complete the survey and so that we can use them again for other study participants. We have made several attempts to contact you via telephone and mail.*** Please call us at 1-855-774-1800 to let us know if you can return the devices soon or if you have already returned them. To return the GPS device(s), please call FedEx at 1-800-GO-FEDEX or place the return package in a FedEx drop box. (If you need a replacement envelope, we would be happy to send one to you - just give us a call.)

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, confirms their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Email - For GPS with Log Only Household members (FLAG=EMAL12)

Conditions: (FINALGFLAG=1) AND (DATE=TRIPDATE+21) AND (REMCONT=2) AND (shippedback<>1) OR CONTROLCODE IN (1, 6)) AND LOG_ONLY persons>0

Conditions for Dev: email=1 AND recdispoid = 800 AND retdispoid != 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode in (1, 6) AND log_only > 0

File: TwentyOneDaysAfterTravelGpsLogOnlyEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. Our records indicate that we have not received the GPS device(s) that we sent to you. ***We need your help to get the unit(s) back so that you can complete the survey and so that we can use them again for other study participants. We have made several attempts to contact you via telephone and mail.*** Please call us at 1-855-774-1800 to let us know if you can return the devices soon or if you have already returned them. To return the GPS device(s), please call FedEx at 1-800-GO-FEDEX or place the return package in a FedEx drop box. (If you need a replacement envelope, we would be happy to send one to you - just give us a call.)

Remember, your household will receive $25 per person that received the GPS devices ONLY if each member of your household:

1. Uses the GPS device(s) on the assigned travel days
2. Returns the GPS device(s) and the completed usage log
3. When contacted, household members assigned a GPS device confirm their travel for the first travel day by phone or web
4. When contacted, household members assigned a log report their travel for the first travel day by phone or web

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

The following messages should be sent out weekly after TRIPDATE+28 ***for 20 weeks,*** *or until Controlcode=8*

28 Days after Travel Date (TRIPDATE + 28) Equipment Retrieval (EMAL13)

Text – For GPS (FLAG=TEXT13)

Conditions: FINALGFLAG IN (1); REMCONT=1, TRIPDATE is 28 days ago AND (shippedback<>1) OR (DISPOSITION <>800 OR CONTROLCODE IN (1, 6))

Conditions for Dev: text=1 AND recdispoid = 800 AND (retdispoid != 800 AND ~~OR~~ controlcode in (1, 6)) AND gflag = 1

File: TwentyEightDaysAfterTravelGpsText.txt

Thank you for participating. Use the pre-paid packaging to return your GPS devices asap. Questions? Call 1-855-774-1800.

Email – For GPS (FLAG=EMAL13)

Conditions: FINALGFLAG IN (1); REMCONT=2, TRIPDATE is 28 days ago AND (shippedback<>1) OR (DISPOSITION <> 800 OR CONTROL CODE IN (1, 6))

Conditions for Dev: email=1 AND recdispoid = 800 AND (retdispoid != 800 AND ~~OR~~ controlcode in (1, 6)) AND gflag = 1

File: TwentyEightDaysAfterTravelGpsEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts Survey. Our records indicate that we have not received the GPS device(s) that we sent to you. ***We need your help to get the unit(s) back so that we can use them again for other study participants. We have made several attempts to contact you via telephone and mail.***

Please call us at 1-855-774-1800 to let us know if you can return the devices soon or if you have already returned them. To return the GPS device(s), please call FedEx at 1-800-GO-FEDEX or place the return package in a FedEx drop box. (If you need a replacement envelope, we would be happy to send one to you - just give us a call.)

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Prompted Recall Notification (Released=Today) (FLAG=TextPR)

This message goes out once data has been processed and released for retrieval for the household and message has not been sent already.

Text - For GPS+PR (FLAG=TEXTPR):

Conditions: PR_RELEASED=1 AND FINALGFLAG=1 AND TEXT=1 AND PR_RELEASED_DATETIME_LOCAL BETWEEN NOW() - 1 day AND NOW()
Your GPS device(s) have been received and your data is ready for you to confirm at www.MITravelCounts.com. Questions? Call 1-855-774-1800

Email - For GPS+PR (FLAG=EMALPR):

Conditions: PR_RELEASED=1 AND FINALGFLAG=1 AND EMAIL=1 AND PR_RELEASED_DATETIME_LOCAL BETWEEN NOW() - 1 day AND NOW()
Hello <MAILFNAMGPS> <MAILLNAMGPS>,

We have received the GPS devices you used for the MI Travel Counts survey. Please visit www.MITravelCounts.com and enter your PIN: <PIN> to review and confirm your travel data, and if applicable, report travel data for household members that did not receive GPS devices.

As soon as you successfully complete this final step in the study, your participation check ~~of $<INAMT>~~ will be processed and sent.

If you have questions, please reply to this email or call 1-855-774-1800.

Best regards,

The MI Travel Counts Survey Team

Reference: <SAMPN>

Prompted Recall Reminder (Released, Not Complete in last 5 days)

This message goes out once data has been processed and released for retrieval but the household has completed RET in last 5 days.

Text - For GPS+PR (FLAG=TextPR2):

Conditions: PR_RELEASED=1 AND but not complete in last 5 days AND FINALGFLAG=1 AND TEXT=1

Your GPS device(s) have been received and your data is ready for you to confirm at www.MITravelCounts.com. Questions? Call 1-855-774-1800

Email - For GPS+PR (FLAG=EMALPR2):

Conditions: prreleased=1 but not RET complete in last 5 days AND FINALGFLAG=1 AND EMAIL=1

Hello <MAILFNAMGPS> < MAILLNAMGPS>,

We have received the GPS devices you used for the MI Travel Counts survey. Please visit www.MITravelCounts.com and enter your PIN: <PIN> to review and confirm your travel data, and if applicable, report travel data for household members that did not receive GPS devices.

As soon as you successfully complete this final step in the study, your participation check ~~of $<INAMT>~~ will be processed and sent.

If you have questions, please reply to this email or call 1-855-774-1800.

Best regards,

The MI Travel Counts Survey Team

Reference: <SAMPN>

Prompted Recall Reminder (Released, but not complete in 10 days)

This message goes out once data has been processed and released for retrieval but the household but has not retrieved in last 10 days.

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Text - For GPS+PR (FLAG=TextPR3):

Conditions: prreleased=1 but not RET complete in last 10 days AND GFLAG=1 AND TEXT=1

Your GPS device(s) have been received and your data is ready for you to confirm at www.MITravelCounts.com. Questions? Call 1-855-774-1800

Email - For GPS+PR (FLAG=EMALPR3):

Conditions: prreleased=1 but not RET complete in last 10 days AND GFLAG=1 AND EMAIL=1

Hello <MAILFNAMGPS> < MAILLNAMGPS>,

We have received the GPS devices you used for the MI Travel Counts survey. Please visit www.MITravelCounts.com and enter your PIN: <PIN> to review and confirm your travel data, and if applicable, report travel data for household members that did not receive GPS devices.

As soon as you successfully complete this final step in the study, your participation check ~~of $<INAMT>~~ will be processed and sent.

If you have questions, please reply to this email or call 1-855-774-1800.

Best regards,

The MI Travel Counts Survey Team

Reference: <SAMPN>

Completion Confirmation

This message goes out if a household has completed the final step of the survey.

Email - Log Only, Retrieval Complete (FLAG=EMAL14)

Conditions: Instrument DISPOSITION = 800 AND Retrieval Complete AND REMCONT = 2 AND FINALGFLAG IN (0, 2, 3)

Conditions for Dev: retdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag ~~IN (0,2,3)~~ != 1

File: CompletionConfirmationLogOnlyEmail.html

Hello <MAILFNAM> <MAILLNAM>,

Thank you for participating in the MI Travel Counts survey. This email is a confirmation that you have successfully completed the final step of the survey. Your household's participation check will be processed for payment as soon as we are able to confirm some basic details about the information you provided to us. You should expect to receive your check within a few weeks.

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

Reference: <SAMPNO>

Text – Log Only, Retrieval Complete (FLAG=TEXT14)

Conditions: Instrument DISPOSITION = 800 AND Retrieval Complete AND REMCONT = 1 AND FINALGFLAG IN (0, 2, 3)

Conditions for Dev: retdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag ~~IN (0,2,3)~~ != 1

File: CompletionConfirmationLogOnlyText.txt

You have completed the MI Travel Counts Survey. Thank you for your participation. Questions? Call 1-855-774-1800

Email - For GPS Retrieval Complete, GPS Returned (FLAG=EMAL14),

Conditions: Instrument DISPOSITION = 800 AND Retrieval Complete AND REMCONT = 2 AND FINALGFLAG=1 AND CONTROLCODE=8

Conditions for Dev: retdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode = 8 AND email=1

File: CompletionConfirmationGpsReturnedEmail.html

Hello <MAILFNAMGPS> <MAILLNAMGPS>,

Thank you for participating in the MI Travel Counts survey. This email is a confirmation that you have successfully completed the final step of the survey. Your household's participation check will be processed for payment as soon as we are able to confirm some basic details about the information you provided to us. You should expect to receive your check within a few weeks.

If you have questions, please reply to this email or call us at 1-855-774-1800.

Thank you,

The MI Travel Counts Survey Team

941 Reference: <SAMPNO>

942 **Text - For GPS Retrieval Complete, GPS Returned (FLAG=EMAL14),**

943 Conditions: Instrument DISPOSITION = 800 AND Retrieval Complete AND REMCONT = 1 AND FINALGFLAG=1 AND CONTROLCODE=8

944 Conditions for Dev: retdispoid = 800 AND hh_dispoid NOT IN (501,602,603,202) AND gflag = 1 AND controlcode = 8

945 File: CompletionConfirmationGpsReturnedText.txt

946 You have completed the MI Travel Counts survey. Thank you for your participation. Questions? Call 1-855-774-1800.

947

Table of Reminders for each Participant Type

Sample Type	REMINDER TYPE	REC Confirm	-1	+1	+2	+3	+4	+5	+10	+14	+17	+21	+28	COMPLETION
Logs Only	EMAIL	X	X	X				X	X					X
	TEXT	X	X	X				X	X					X
GPS and Logs	EMAIL	X	X	X	X	X	X	X	X	X	X	X	X	X
	TEXT	X	X	X	X	X	X	X	X	X	X	X	X	X

Appendix KK

Diary Survey Methods Memo

Task 3c (MDOT) and Task 14c (SEMCOG): Develop Diary Survey Methodology, Including Incentive Plan

This document describes Westat's survey methodology plan for the travel diary (log) sample for the MTC III / STC15 survey. This methodology will also be used for the global positioning system (GPS) subsample and will not be restated in the Task 3d/14d discussion. The additional requirements for the GPS sample will be discussed in the GPS Survey Methodology, Including Incentive Plan report (Tasks 3d/14d).

Sample Selection, Management and Recruitment: Inviting Participants

Westat will use address-based sampling (ABS) to obtain a representative sample of households for each of the geographical areas in the MDOT and the SEMCOG regions. The sample design plans for the MTC III / STC15 are detailed in the Sample Design Plan (Task 2). The sampling frame will be a database of addresses created by Marketing Systems Group (MSG) from the U.S. Postal Service's (USPS) Computerized Delivery Sequence (CDS) file. Westat will use MSG's geocoding for the initial frame selection, but will re-geocode all addresses in the frame to confirm location before final sample selection. In addition to containing non-vacant addresses, the sampling frame will include: vacant residential addresses in each region except in areas where the vacancy rate was found to be higher than generally found in other areas across the state, P.O. Box addresses will be excluded from the sampling frame, except in the Northern Michigan Rural Area, where P.O. Boxes that are the only way for the household to receive mail will be included. The sampling frame will also include throwback addresses (i.e., street addresses for which mail is redirected by USPS to a specified P.O. Box), but will not include seasonal addresses.

See the MDOT and SEMCOG sampling plans for tables indicating for each sample area the approximate number of residential addresses in the area's sampling frame and the target number of completed cases. In particular, see Table 2-1 (for target number of completes by sample area) and Table 3-1 (for approximate number of residential addresses by area).

In each region, Westat will select a stratified samples of addresses consisting of a high-density stratum and a low-density stratum. The high-density stratum will contain a higher concentration of hard to reach households than the low-density stratum. Oversampling the high-density stratum will help address achieving specified sample size targets for post-stratification cells defined by respondent characteristics, such as household income and measures of travel, such as number of vehicles and household workers.

During the sampling process, addresses will be randomly assigned a day of week and a release group for the initial mailout. Assigning addresses with a day of week will help balance travel across the travel week, Monday through Thursday. Release groups will be used to manage the release of the sample and subsequently the flow of completed households throughout the field period. Westat will

release addresses on an arranged schedule based on expected response rates. Reserve sample will be drawn when the main sample is drawn as insurance in case response rates are lower than anticipated. Westat will draw the sample for the pilot and spring data collection at the same time. We will use the results of the spring data collection to inform the amount of sample and frequency of release groups required for the fall data collection. Knowing the level of response that can be expected across the state, based on observations from the spring, using the methodology, materials, and public awareness plan for this study, will allow us to make appropriate adjustments to the sample design for the fall data collection.

Each sampled address will be sent up to three pieces of mail requesting its participation in the study. The first contact will be a letter, on letterhead using the study logo representing the MI Travel Counts and both sponsor agencies. The letter will provide a brief description of the study, an overview of the requirements for participation, information about the incentive, the URL for the public website, and a personal identification number (PIN) that provides access to the survey. If needed, the second and third contacts will be reminder postcards. These will provide a bit less information, but will still provide the URL and PIN that will allow access to the survey website. The first reminder postcard will be sent seven days after the initial invitation letter and will be mailed to all sampled addresses. The second reminder postcard will be sent seven days after the first and will be sent only to non-responding addresses.

Sampled households will be directed to the secure project website (www.MITravelCounts.com) where they will be asked to complete the recruitment survey. This component of the survey process is where respondents indicate willingness to participate and provide key demographic and contact data for the household. While the primary mode of participation at this stage is via web, a telephone recruitment option will be provided for those participants who request to complete their enrollment by phone. As part of the sample selection, we will attempt to match each sampled address to a telephone number. This process typically results in approximately 40 to 50 percent of the sampled addresses having a telephone number associated with it. These telephone numbers will be used to augment the contact information collected from each household in the recruitment survey (telephone number and email address), and possibly to attempt to recruit households by telephone. In recent regional household travel surveys Westat has found that interviewer resources are more effective when focused on completing retrieval interviews.The retrieval calling process includes contacting households that have appointments and those without appointments that have not yet completed the retrieval survey, even when they report that they prefer to complete online. However, when there are no cases that meet these criteria interviewing staff will place outbound recruitment call attempts.

Assembling and Mailing Survey Materials: Travel Logs

Each responding household is assigned a travel date at the end of the recruitment survey. Before the assignment of the travel date, we will offer survey participants a choice of whether they want to have

personalized travel logs (diaries) mailed to them or to print the logs themselves from the website. Households that choose to have the travel logs mailed will be assigned a travel date at least 10 days in the future so the logs can be prepared and mailed to arrive a few days before the travel date. Those who opt to print their own materials will be assigned the next available travel date.

Instead of the diary booklet approach that has been used in the past, Westat will use a travel log memory jogger to help participants keep track of all the places they go on their travel day. This approach is consistent with current best practices in the household travel behavior research community. It reduces actual and perceived respondent burden and survey costs.

The travel log packets for the log only households will be sent using first class postage in 6 x 9 envelopes and will include a cover letter, individualized travel logs for all household members, and a $1 bill (as a "primer" incentive to further encourage completion of the travel day survey). The letter will also remind participants about the final $20 household incentive. Westat's in-house mail processing staff will execute the travel log preparation and mailing, GPS deployment, and incentive processing. Households that opt to download their travel logs will not receive a $1 "primer" incentive.

Interviewer Staff and Training

Westat will use two types of interviewing staff to conduct the MTC III / STC15 household travel survey. One set of interviewers will be located in our Atlanta, Georgia office and will staff our inbound call center operation. These staff will be responsible for responding to calls to the toll-free number and emails received through our public website. Westat will also use telephone interviewers from our Rockville, Maryland based Telephone Research Center (TRC). These staff will be responsible for telephone reminder contacts, recruitment calls (as requested), and retrieval contacts. Retrieval call attempts will be the priority for call center staff. We have developed this division of labor to maximize staff skills and provide the highest quality of service to the MTC III / STC15 survey.

All call center staff will be trained in the conduct of both the recruitment and retrieval surveys. The retrieval survey is the component of the study where the travel behavior details are collected. Details about the places visited on the assigned travel day, including place name, address, times and activities engaged in, are among the data items collected in this survey. The training for these staff members will include contact procedures, refusal avoidance training, and specifics of conducting the recruitment and retrieval surveys. The staff members used in our inbound call center operations have received additional training targeted at assisting respondents with miscellaneous issues (e.g., troubleshooting internet browser problems). While managed from Rockville, most of Westat's TRC staff are distributed across the country and work in an at-home environment. Westat has successfully used this dispersed workforce for nearly a decade. The training for these staff is conducted using a combination of self-paced exercises and interactive training via WebEx.

Project Website

Westat will create a project-specific, public facing website that will be used for promoting the survey, communicating with the general population and will serve as an access point to the survey instruments. This website will include highlights of the project, frequently asked questions, PDF versions of survey materials (e.g., travel logs and GPS instructions), links to "in the news" items and to MDOT and SEMCOG home pages, and both a toll free phone number and email link to contact the study team. Westat will coordinate with the MDOT Office of Communications to ensure that the public awareness campaign and the project website are linked and in sync with each other. Westat has secured the URL MITravelCounts.com for the study.

The website will be the access point for our self-administered web-based data collection instrument. The recruitment and retrieval surveys will be supported through an integrated WebGeoSurvey (WGS) / TripBuilder Web™ (TBW) software system, a web-based survey system designed by Westat specifically for household travel surveys. TBW is a Web 2.0 Application with an integrated online map (provided via the Google Maps API) that enables real-time geocoding, and point-of-interest lookups, to collect accurate travel details via a web browser. Westat will work with SEMCOG to integrate point files that have been developed and refined to ensure a high level of geocoding accuracy when reporting place coordinates.

TBW is a web-based system, which will be used for both computer-assisted self-interviews (CASI) and computer-assisted telephone interviews (CATI). All data, whether collected through self-report or by interviewer assisted methods, will use one system for the collection of all travel survey data, ensuring that all collected data goes through the same underlying questions and corresponding response options, the same branching, and the same logic checks. The data will all be stored in one database (with the reporting mode—web or telephone—captured as an additional data element).

Pre-and Post-travel Day Followup and Retrieval

Westat has developed a sophisticated reminder protocol that will be implemented in the MTC III / STC15 household travel survey. In the recruitment survey, each participating household will be informed that we will provide them with reminders and asked how they would prefer to receive those reminders. The reminder options are telephone, text, and email. If by telephone, the first reminder will occur the day before the travel date. If by email or text, the reminder will be sent two days before the travel day. If an electronic reminder fails for any reason, this approach provides time for the participating household to be contacted by other means (if they are available). Post-travel day email and text reminders will be programmed to be delivered at one, five, and ten days after the travel day. Those that select email or text reminders will also be sent a confirmation of completion on the day after the recruitment survey has been completed.

In the recruitment survey, respondents will be asked to indicate how they would prefer to complete the retrieval survey. Those preferring telephone participation are contacted by an interviewer the first day following the assigned travel date. Those choosing to respond online are given two days to do so before being contacted by telephone. We ask all respondents to provide a telephone number in the recruitment survey, even if we obtained a telephone match at the time the address was sampled. Westat will make at least five retrieval calls per each household that has yet to complete their retrieval survey.

A completed household is one in which a household-level recruitment survey has been completed, and a retrieval survey has been completed that includes the trip data for each household member. In larger households, those with more than four total household members, the household may be considered complete if only one household member fails to complete the retrieval survey[1].

Public Awareness Outreach

A strong public outreach and survey branding that resonates with the population across the study region helps improve participation rates and mitigate incentive costs. Task 3a/14a is the development of the Public Awareness Plan. Implementation of this plan will include the staff from Westat, Parsons Brinckerhoff, MDOT, and SEMCOG. Collectively we will execute the details of the plan designed to validate the study among the general population of the state and encourage those selected to participate to do so, especially those typically under-represented populations.

Incentive Plan

Incentives have become an essential component of survey research and determining a responsible level of incentives is vital to success of the project. Westat has used varying levels of incentives in recent regional household travel surveys. Based on our experiences conducting these surveys and observations from other types of survey experiments, we are recommending a two-stage incentive approach for the travel log component of the MTC III / STC15.

The invitation to participate letter will describe the survey process to the recipient and inform each of the incentive offer of a $20 check per household upon completion of the retrieval interview. This incentive is consistent with rates used successfully in the past. To further facilitate a higher retrieval response rate, we will include a $1 bill in the travel log package. In a forthcoming article, Caporaso et al. (2014) [2] find that, "pre-paid incentives offered in mail surveys had the largest per dollar impact on response" when compared with promised incentives and non-mail modes. Based on these and other

[1] For example, the survey is considered as complete if four people in a five person household provide the trip data (N, N-1) if N>=5.

[2] Caporaso, et al. (2014) Monetary incentives and response rates. *Public Opinion Quarterly*.

similar findings in the research,[3] Westat proposes this "primer" gesture to encourage households to keep track of and report their travel. An additional incentive will be offered to participants in the GPS study and will be discussed in the Task 3d/14d report.

[3] Han et al. (2013). An evaluation of incentive experiments in a two-phased address-based sample mail survey. *Survey Research Methods,* 7(3), 207-218.

Appendix LL

GPS Survey Methods Memo

Task 3d (MDOT) and Task 14d (SEMCOG): Develop GPS Survey Methodology, Including Incentive Plan

This document describes the additional requirements for Westat's survey methodology to be used for the GPS subsample of the MTC III / STC15 survey. Refer to the Task 3c/14c Develop Diary Survey Methods, Including Incentives report for a description of the overall study description.

The primary sample (90 percent of all participating households) will collect travel behavior data by completing an independent self-report survey. The remaining 10 percent of the participating households will use GPS technology to capture the traces of all the places they visit while carrying the device. These GPS traces will be processed into place sequences and the respondents will then be asked to confirm the destinations and provide details for each place. Additional details about the GPS methodology and the uses of these data are provided in the following subsections.

Sample Selection, Management, and Recruitment: Inviting Participants

During the recruitment survey, respondents will be asked if they are interested in participating in the GPS technology component of the study. A 10 percent GPS subsample will be targeted for each of the two study areas (MDOT and SEMCOG). The goal is to complete data collection with 1,400 households in the MDOT GPS sample and 700 households in the SEMCOG GPS sample, with a total of 2,100 GPS households collected across the state. Of the 1,400 MDOT-funded GPS households, 233 will be targeted in the SEMCOG region, resulting in a target of 933 complete GPS households from the SEMCOG region. As part of the overall sampling process described in Task 3c/14c, Westat will randomly flag 40 percent of all sampled addresses to be invited to take part in the GPS portion of the study. While only 10 percent are targeted for inclusion in this subsample, invitations for the GPS component of the study are typically offered to a higher percentage of sampled addressed because participation in the GPS subsample is optional and limited to specific age ranges. This oversampling rate adjustment ensures an adequate GPS sample size after accounting for non-responding, ineligible, and non-participating households.

For households that agree to participate in this component of the study, GPS devices will be sent to all household members who are between the ages of 16 and 75. The GPS participants will be asked to carry these wearable devices for three consecutive days and then to report their travel details for the first of the three days in a GPS-based Prompted Recall (GPS+PR) survey. The travel date assignment will be made consistent with the non-GPS households, with the first of the three GPS travel days starting Monday through Thursday, and continuing for two additional consecutive days.

Assembling and Mailing Survey Materials: GPS Devices

Upon completion of the recruitment interview, GPS devices with charging cables, equipment use and return instructions, an equipment usage log, individualized travel logs, and pre-paid FedEx return packaging will be shipped to the GPS households. The packages will be shipped via FedEx two-day service to arrive at least two days before the assigned travel date. All GPS households will be asked to return the GPS devices as soon as the assigned data collection period is complete. Telephone, text, and email reminders will be used as needed to prompt households to return the GPS devices.

Westat will use the GlobalSat DG-100 Data Logger, a simple yet rugged device, which has proven to provide the key features needed for capturing detailed GPS data from a wide variety of persons and conditions experienced in large-scale household travel surveys. The standard GPS data stream elements recorded by the GlobalSat device include date, time, latitude, longitude, and speed. These elements are stored in the logger in standard NMEA units and are converted into user-specified units and formats upon download.

The Retrieval Survey Process

Once the devices are returned to Westat, the GPS data will be downloaded from the devices, and the data files will be uploaded to a secure project website and processed into place sequences. After the data have been processed, the household will then be notified by text, email, and/or phone that their retrieval survey is ready to be completed. Respondents will be encouraged to complete the survey online, but may also complete the survey by speaking with one of our interviewers.

Instead of reporting all the places visited on the travel day, as is done by non-GPS households, GPS-eligible respondents will be presented with a survey interface that shows the travel traces from their GPS device and will be asked to confirm the list of places visited and to provide details about each place. They will also be asked to use their completed travel log as a reference. Travel details for non-GPS-eligible household members will be entered based on their travel log information.

The initial GPS processing, the GPS+PR interview, and the non-GPS person log entry will be conducted using the Trip Builder Web (TBW) interface. TBW was designed to handle log-based or GPS+PR methods for collecting travel details and will be used for both types of households in this study. TBW captures travel data as place sequences, which can be easily converted into trips by combining subsequent places' destination coordinates and departure and arrival times. In fact, within a travel day all places after the first one (which works as an anchor point for the start of the day) can be interpreted as "trips to a place."

TBW collects travel information in two steps. For participants in the GPS subsample, the initial list of places will be loaded from the processed GPS data, along with a map display of the actual routes

taken and place arrival and departure times. Respondents are asked to confirm or edit all imputed data. The next step collects additional place details, such as the activities occurring at the place.

Westat will process the GPS data for days two and three, identifying trip ends and trip attributes, and imputing travel modes and trip purposes. Westat plans to use discrete choice modeling techniques for identifying trip purpose on days two and three. This method will include developing and estimating a multinomial logit (MNL) model for selecting trip purposes using the day one data and then applying it to the other two days. Because this model will be estimated using day one data (which is a weekday), trip purpose will only be imputed for GPS-based travel occurring on Tuesday through Thursday. The day two and three places and related attributes will be included in the household travel survey data deliverable.

In addition to meeting the completion requirements outlined in the Task 3c/14c discussion, a completed household is one in which all household members who have been equipped with a GPS device used it at least on the assigned travel date. In larger households (those with more than four total household members), the household may be considered complete if only one household member fails to comply with all of the completion requirements[1].

The purpose of the GPS+PR sample is two-fold: (1) to calculate GPS correction factors for use with the data from the non-GPS sample; and (2) to generate calibration and validation data sets to improve the accuracy of the imputation algorithms and models used in generating trip details (such as trip purpose and travel mode) for the additional GPS days collected by the GPS+PR households. The GPS+PR design has the advantage of combining increased report accuracy and lower respondent burden compared to log-based self-report data collection methods and provides the ability to capture travel activities across multiple days.

Users of multiday GPS data may benefit from ongoing research efforts[2] that are exploring the expansion of multiday travel data into additional household equivalents based on the additional complete days of travel. These methods were originally documented in Stopher et al and are currently being refined by Parsons Brinckerhoff using another data set, but are not yet published. It is also likely that results from NCHRP 08-36-123 Survey Sample Size and Weighting, which is specifically designed to investigate impacts of multiday household travel survey data on model estimation, will be available to provide guidance to MDOT and SEMCOG in the use and application of the multiday data resulting from the GPS component of this survey.

[1] For example, the survey is considered as complete if four people in a five person household provide the trip data (N, N-1) if N>=5.
[2] Stopher, Peter R, Kara Kockelman, S. Greaves, and E. Clifford. "Reducing Burden and Sample Sizes in Multi-day Household Travel Surveys." *Transportation Research Record No. 2064*, 2008: 12-18.

Incentives

GPS households will be offered an incentive check for $25 per GPS-instrumented person upon completion of the GPS+PR interview and travel reporting for non-GPS eligible household members. This amount is consistent with amounts offered in our other wearable GPS studies. This approach provides an incentive that is commensurate with the level of burden required to participate in the study and that is enough to motivate households to return the GPS devices. GPS households will receive only the GPS person-based incentive and not the household-level completion incentive offered to non-GPS households.