

**Notes**

The same codebook can be used for both the full version and the public release version of the CSTS datasets. However, it must be noted that some of the variables referenced in the codebook may not be available in the public release version of the dataset due to privacy and confidentiality reasons.

## Codebook - Household File

### hhid

Value

Standard Att Label	Household ID (unique)
Type	Numeric
Measurement	Scale

### segnum

Value

Standard Att Label	Sample segment
Type	Numeric
Measurement	Nominal
Valid Values	1 Segment 1: Over Sample, low response rate
	2 Segment 2: Over Sample, medium response rate
	3 Segment 3: Over Sample, high response rate
	4 Segment 4: Regular Sample, low response rate
	5 Segment 5: Regular Sample, medium response rate
	6 Segment 6: Regular Sample, high response rate
	99 Segment 99: Volunteers

### week

Value

Standard Att Label	Week number of assigned travel date
Type	Numeric
Measurement	Nominal

### traveldate

Value

Standard Att Label	Assigned travel date
Type	String
Measurement	Nominal

### hh\_hst\_status

Value

Standard Att Label	Household survey status
Type	Numeric
Measurement	Nominal
Valid Values	0 Incomplete
	1 Complete

### hh\_tripcount

Value

Standard Att Label	USE RECODED VERSION: Household number of trips on travel day
Type	Numeric
Measurement	Scale

### hh\_tripcount\_20plus

Value

Standard Att Label	USE RECODED VERSION: Household number of trips on travel day (categories)
Type	Numeric
Measurement	Nominal
Valid Values	0 0 (no trips)
	1 1
	2 2
	3 3
	4 4
	5 5
	6 6
	7 7
	8 8
	9 9
	10 10
	11 11
	12 12
	13 13
	14 14
	15 15
	16 16
	17 17
	18 18
	19 19
	20 20 or more

### transithh

Value

Standard Att Label	Household used transit on travel day
Type	Numeric
Measurement	Nominal
Valid Values	0 False (household made 0 transit trips)
	1 True (household made 1+ transit trips)

## Codebook - Household File

### recruit\_start\_et

Value

Standard Att Label	Recruit survey start time (ET)
Type	Numeric
Measurement	Scale

### recruit\_end\_et

Value

Standard Att Label	Recruit survey end time (ET)
Type	Numeric
Measurement	Scale

### recruit\_duration

Value

Standard Att Label	Recruit survey duration, minutes
Type	Numeric
Measurement	Scale

### numvehicle

Value

Standard Att Label	Household number of vehicles
Type	Numeric
Measurement	Nominal
Valid Values 0	0 (no vehicles)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10 or more vehicles

### numvehicle\_3plus

Value

Standard Att Label	Household number of vehicles (categories)
Type	Numeric
Measurement	Nominal
Valid Values 0	0 (no vehicles)
1	1
2	2
3	3 or more vehicles

### numbicycle

Value

Standard Att Label	Household number of bicycles
Type	Numeric
Measurement	Nominal
Valid Values 0	0 (no bicycles)
1	1
2	2
3	3
4	4
5	5 or more bicycles

### hhsiz

Value

Standard Att Label	Household size
Type	Numeric
Measurement	Nominal
Valid Values 1	1 (I am the only person)
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12 or more people

## Codebook - Household File

### hhsize\_5plus

Value

Standard Att Label	Household size (categories)
Type	Numeric
Measuremer	Nominal
Valid Values 1	1 (I am the only person)
2	2
3	3
4	4
5	5 or more people

### numadults

Value

Standard Att Label	Number of adults in household age 18+
Type	Numeric
Measuremer	Nominal
Valid Values 1	1 (I am the only adult)
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12 or more adults

### numstudents

Value

Standard Att Label	Number of students (i.e. valid "schooltype" person variable - excludes None) in household
Type	Numeric
Measuremer	Nominal

### numstudents\_adult

Value

Standard Att Label	Number of adult students (age 18+ and valid "schooltype" person variable - excludes None) in household
Type	Numeric
Measuremer	Nominal

### numstudents\_kid

Value

Standard Att Label	Number of child students (age <18 and valid "schooltype" person variable - excludes None) in household
Type	Numeric
Measuremer	Scale

### numkids

Value

Standard Att Label	Number of children in household under age 18
Type	Numeric
Measuremer	Nominal
Valid Values 0	0 (no children)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12 or more children

### numkids\_3plus

Value

Standard Att Label	Number of children in household under age 18 (categories)
Type	Numeric
Measuremer	Nominal
Valid Values .0	0 (no children)
1.0	1
2.0	2
3.0	3 or more children

### numworkers

Value

Standard Att Label	Number of workers in household: employed full or part time, self-employed
Type	Numeric
Measuremer	Nominal

## Codebook - Household File

### numworkers\_3plus

Value

Standard Att Label	Number of workers in household: employed full or part time, self-employed (categories)
Type	Numeric
Measuremer	Nominal
Valid Values 0	0 (no workers)
1	1
2	2
3	3 or more workers

### numdrivers

Value

Standard Att Label	Number of licensed drivers in household
Type	Numeric
Measuremer	Nominal

### rent\_own

Value

Standard Att Label	Residence tenure status
Type	Numeric
Measuremer	Nominal
Valid Values 1	Own/Buying (paying mortgage)
2	Rent
3	Provided by job or military
97	Other
Missing Valu 99	Prefer not to answer

### res\_type

Value

Standard Att Label	Residence type of structure
Type	Numeric
Measuremer	Nominal
Valid Values 1	Single-family house (detached house)
2	Duplex or Townhouse (attached house)
3	Multi-family house (3 or fewer apartments)
4	Building with 3 or fewer apartments/condos
5	Building with 4 or more apartments/condos
6	Mobile home/trailer
7	Dorm or institutional housing
97	Other (including boat, RV, van, etc.)

### home\_address

Value

Standard Att Label	Reported home address
Type	String
Measuremer	Nominal

### home\_lat

Value

Standard Att Label	Reported home address: latitude
Type	Numeric
Measuremer	Scale

### home\_lng

Value

Standard Att Label	Reported home address: longitude
Type	Numeric
Measuremer	Scale

### home\_county

Value

Standard Att Label	Reported home location: County corresponding to home location
Type	String
Measuremer	Nominal

### home\_town

Value

Standard Att Label	Reported home location: Town corresponding to home location
Type	String
Measuremer	Nominal

### home\_bg\_geoid

Value

Standard Att Label	Reported home location: Block Group ID corresponding to home location
Type	String
Measuremer	Nominal

## Codebook - Household File

### hhincome\_detailed

Value

Standard Att Label	Household income 2015: detailed categories
Type	Numeric
Measuremer	Nominal
Valid Values 1	Less than \$10,000
2	\$10,000-\$14,999
3	\$15,000-\$24,999
4	\$25,000-\$34,999
5	\$35,000-\$49,999
6	\$50,000-\$59,999
7	\$60,000-\$74,999
8	\$75,000-\$99,999
9	\$100,000-\$149,999
10	\$150,000-\$199,999
11	\$200,000-\$249,999
12	\$250,000 or more
Missing Valu 99	Prefer not to answer

### hhincome\_followup

Value

Standard Att Label	Prefer not to answer detailed household income 2015: broad follow-up categories
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not applicable
1	Under \$25,000
2	\$25,000-\$49,999
3	\$50,000-\$74,999
4	\$75,000-\$99,999
5	\$100,000 or more
Missing Valu 99	Prefer not to answer

### hhincome\_broad

Value

Standard Att Label	Household income 2015: broad categories, all respondents
Type	Numeric
Measuremer	Nominal
Valid Values 1	Under \$25,000
2	\$25,000-\$49,999
3	\$50,000-\$74,999
4	\$75,000-\$99,999
5	\$100,000 or more
Missing Valu 99	Prefer not to answer

### participate

Value

Standard Att Label	Willing to participate in future studies
Type	Numeric
Measuremer	Nominal
Valid Values 1	Yes
2	No

### callcenter\_end

Value

Standard Att Label	Call center completed recruit survey
Type	Numeric
Measuremer	Nominal
Valid Values 0	False
1	True

### recruit\_nonenglish

Value

Standard Att Label	Flag: recruit survey language (web browser)
Type	Numeric
Measuremer	Nominal
Valid Values 0	English
1	Non-english

### expansion\_weight

Value

Standard Att Label	Expansion weight calculated as ratio of the count of households belonging to a segment in the population divided by the count of sample households in the segment
Type	Numeric
Measuremer	Scale

### final\_weights

Value

Standard Att Label	Readjusted weights matching marginal distributions of household and person variables of interest
Type	Numeric
Measuremer	Scale

Codebook - Household File

**imputed\_income\_for\_missing**

Value

Standard Att Label	Imputed value for missing observations in hhincome_detailed; values reported on the same scale as hhincome_detailed
Type	Numeric
Measurement	Scale
Labeled Value	-99 Not Applicable
1	Less than \$10,000
2	\$10,000-\$14,999
3	\$15,000-\$24,999
4	\$25,000-\$34,999
5	\$35,000-\$49,999
6	\$50,000-\$59,999
7	\$60,000-\$74,999
8	\$75,000-\$99,999
9	\$100,000-\$149,999
10	\$150,000-\$199,999
11	\$200,000-\$249,999
12	\$250,000 or more

**imputed\_hhincome\_detailed**

Value

Standard Att Label	Imputed household income 2015: detailed categories
Type	Numeric
Measurement	Nominal
Valid Values	1 Less than \$10,000
2	\$10,000-\$14,999
3	\$15,000-\$24,999
4	\$25,000-\$34,999
5	\$35,000-\$49,999
6	\$50,000-\$59,999
7	\$60,000-\$74,999
8	\$75,000-\$99,999
9	\$100,000-\$149,999
10	\$150,000-\$199,999
11	\$200,000-\$249,999
12	\$250,000 or more
99	Prefer not to answer

**r\_numvehicles\_4plus**

Value

Standard Att Label	Vehicle count variable used in the weighting analysis
Type	Numeric
Measurement	Nominal
Valid Values	0 0 vehicles
1	1 vehicle
2	2 vehicles
3	3 vehicles
4	4 or more vehicles

**r\_household\_income\_rev\_2**

Value

Standard Att Label	Imputed household income variable (i.e. imputed_hhincome_detailed) used in the weighting analysis
Type	Numeric
Measurement	Nominal
Valid Values	1 Less than \$25,000
2	\$25,000-\$49,999
3	\$50,000-\$74,999
4	\$75,000-\$99,999
5	\$100,000 or more

**r\_numworkers\_3plus**

Value

Standard Att Label	Worker count variable used in the weighting analysis
Type	Numeric
Measurement	Nominal
Valid Values	0 0 workers
1	1 worker
2	2 workers
3	3 or more workers

**r\_numpersons\_6plus**

Value

Standard Att Label	Household size variable used in the weighting analysis
Type	Numeric
Measurement	Nominal
Valid Values	1 1 person
2	2 persons
3	3 persons
4	4 persons
5	5 persons
6	6 or more persons

## Codebook - Household File

### r\_household\_type

Value

Standard Att Label	Household type variable used in the weighting analysis
Type	Numeric
Measuremer	Nominal
Valid Values 1	Family households: Married-couple
2	Family households: Other family
3	Nonfamily households

### r\_presence\_of\_children

Value

Standard Att Label	Presence of children variable used in the weighting analysis
Type	Numeric
Measuremer	Nominal
Valid Values 0	Children under age 18 not present
1	Children under age 18 present

### sample\_geo

Value

Standard Att Label	Region ID obtained by combining MPO and COG boundaries
Type	Numeric
Measuremer	Nominal
Valid Values 1	South Western
2	Housatonic Valley
3	Northwest Hills
5	Central Naugatuck Valley
6	Greater Bridgeport
7	Greater Bridgeport
8	South Central
10	Capital Region
11	Lower CT River Valley
13	Southeastern
15	Northeastern

### hh\_tripcount\_recode

Value

Standard Att Label	Final Recoded Household number of trips on travel day
Type	Numeric
Measuremer	Scale

### hh\_tripcount\_20plus\_recode

Value

Standard Att Label	Final Recoded Household number of trips on travel day (categories)
Type	Numeric
Measuremer	Nominal
Valid Values 0	0 (no trips)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20 or more

### hh\_tripcount\_linked

Value

Standard Att Label	Household number of linked trips on travel day
Type	Numeric
Measuremer	Scale



Codebook - Household File

hh\_tripcount\_20plus\_linked

Value

Standard Att Label	Household number of linked trips on travel day (categories)
Type	Numeric
Measurement	Nominal
Valid Values 0	0 (no trips)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20 or more

## Codebook - Person File

**hhid**

Value

Standard AttLabel	Household ID
Type	Numeric
Measureme	Scale

**personid**

Value

Standard AttLabel	Person ID (unique)
Type	Numeric
Measureme	Nominal

**segnum**

Value

Standard AttLabel	Sample segment
Type	Numeric
Measureme	Nominal
Valid Values 1	Segment 1: Over Sample, low response rate
2	Segment 2: Over Sample, medium response rate
3	Segment 3: Over Sample, high response rate
4	Segment 4: Regular Sample, low response rate
5	Segment 5: Regular Sample, medium response rate
6	Segment 6: Regular Sample, high response rate
99	Segment 99: Volunteers

**traveldate**

Value

Standard AttLabel	Assigned travel date
Type	String
Measureme	Nominal

**week**

Value

Standard AttLabel	Week number of assigned travel date
Type	Numeric
Measureme	Nominal

**hh\_hts\_status**

Value

Standard AttLabel	Household survey status
Type	Numeric
Measureme	Nominal
Valid Values 0	Incomplete
1	Complete

**person\_num**

Value

Standard AttLabel	Person number
Type	Numeric
Measureme	Nominal

**relationship**

Value

Standard AttLabel	Relationship to primary respondent
Type	Numeric
Measureme	Nominal
Valid Values 0	Self (derived)
1	Husband/Wife/Partner
2	Son/Daughter/In-law
3	Mother/Father/In-law
4	Brother/Sister/In-law
5	Grandchild
6	Other relative
7	Roommate/Friend
8	Household help
97	Other

## Codebook - Person File

**gender**

Value

Standard Att Label	Gender
Type	Numeric
Measurement	Nominal
Valid Values 1	Male
2	Female

**age**

Value

Standard Att Label	Age
Type	Numeric
Measurement	Scale
Labeled Value 0	Less than 1
99	99 or older
999	Prefer not to answer

**age\_followup**

Value

Standard Att Label	Prefer not to answer exact age: Broad follow-up categories
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
1	Under 5 years old
2	5-11
3	12-15
4	16-17
5	18-24
6	25-34
7	35-44
8	45-54
9	55-64
10	65-74
11	75-84
12	85 years or older

**age\_broad**

Value

Standard Att Label	Age: Broad categories, all respondents
Type	Numeric
Measurement	Nominal
Valid Values 1	Under 5 years old
2	5-11
3	12-15
4	16-17
5	18-24
6	25-34
7	35-44
8	45-54
9	55-64
10	65-74
11	75-84
12	85 years or older

**employment**

Value

Standard Att Label	Age 16+: Employment status
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
1	Employed (full or part time)
2	Self-employed
3	Unpaid volunteer or intern
4	Homemaker
5	Retired
6	Not currently employed

## Codebook - Person File

**jobs\_count**

Value

Standard AttLabel	Age 16+ employed: Number of jobs
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	1 job
2	2 jobs
3	3 jobs
4	4 jobs
5	5 or more jobs

**work\_hours**

Value

Standard AttLabel	Age 16+ employed: Number of hours worked per week
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	50 or more hours
2	40-49 hours
3	30-39 hours
4	20-29 hours
5	10-19 hours
6	Fewer than 10 hours
7	Hours vary greatly from week to week

**student**

Value

Standard AttLabel	Adult (Age 18+): Student status
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	No, not a student
2	Yes, full-time student
3	Yes, part-time student

**schooltype**

Value

Standard AttLabel	Child (Age < 18) or Adult Student: Type of school attended
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	Daycare
2	In-house nanny/babysitter
3	House of friend/relative/babysitter
4	Preschool
5	K-12 public or private school
6	K-12 home school (full-time or part-time)
7	College, graduate, or professional school
8	Vocational/technical school
95	None
97	Other

**education**

Value

Standard AttLabel	Adult (Age 18+): Educational attainment
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	Less than high school
2	High school graduate/GED
3	Some college
4	Vocational/technical training
5	Associates degree
6	Bachelor degree
7	Graduate/post-graduate degree

## Codebook - Person File

## license

Value

Standard AttLabel	Age 16+: Has valid drivers license
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	Yes
2	No

## transit\_freq

Value

Standard AttLabel	How often in past month: Ridden transit
Type	Numeric
Measureme	Nominal
Valid Values 1	6-7 days a week
2	5 days a week
3	4 days a week
4	2-3 days a week
5	1 day a week
6	A few times per month
7	Less than monthly
8	Never

## transit\_fare

Value

Standard AttLabel	If ever uses transit: How typically pays for transit fare
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	Free (no cost)
2	Cash or ticket(s)
3	Stored value card
4	Used pass (any type)
97	Other
98	Don't Know

## transit\_pass

Value

Standard AttLabel	If typical transit fare payment method is pass: type of transit pass used most often
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	1 day pass(es)
2	3 day pass(es)
3	5 day pass(es)
4	7 day pass
5	Monthly pass
97	Other transit pass
98	Don't know

## transit\_discount

Value

Standard AttLabel	If typical transit fare is not free: eligible for discounted transit fares
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	No, pays regular fare
2	Yes, youth/student discount
3	Yes, senior/disability discount
4	Yes, other type of discount
98	Don't know

## Codebook - Person File

**school\_freq**

Value

Standard Att Label	Student (adult or child, except home school/in-house nanny or sitter): How often travels to school
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	6-7 days a week
2	5 days a week
3	4 days a week
4	2-3 days a week
5	1 day a week
6	A few times per month
7	Less than monthly
8	Never, only takes online classes

**school\_mode**

Value

Standard Att Label	Student (adult or child, except home school/in-house nanny or sitter and online-classes): Travel mode to school
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	Walk/jog/wheelchair
2	Bicycle
3	Drive alone
4	Drive/Carpool with ONLY family/ household member(s)
5	Carpool with at least one person NOT in household
6	Motorcycle/moped/scooter
7	Vanpool
8	School bus
9	Bus (public transit)
10	Train (any rail, subway, monorail)
11	Private shuttle bus
12	Paratransit
13	Taxi or other hired car service (e.g. Lyft, Uber)
97	Other

**school\_address**

Value

Standard Att Label	Student (adult or child, except home school/in-house nanny or sitter and online-classes): School address
Type	String
Measureme	Nominal

**school\_lat**

Value

Standard Att Label	Student (adult or child, except home school/in-house nanny or sitter and online-classes): School latitude
Type	Numeric
Measureme	Scale
Labeled Vali -99.00	Not Applicable

**school\_lng**

Value

Standard Att Label	Student (adult or child, except home school/in-house nanny or sitter and online-classes): School longitude
Type	Numeric
Measureme	Scale
Labeled Vali -99.00	Not Applicable

**school\_county**

Value

Standard Att Label	Student (adult or child, except home school/in-house nanny or sitter and online-classes): County corresponding to school location
Type	String
Measureme	Nominal
Valid Values -99	Not Applicable

**school\_town**

Value

Standard Att Label	Student (adult or child, except home school/in-house nanny or sitter and online-classes): Town corresponding to school location
Type	String
Measureme	Nominal
Valid Values -99	Not Applicable

## Codebook - Person File

**school\_bg\_geoid**

Value

Standard AttLabel	Student (adult or child, except home school/in-house nanny or sitter and online-classes): Block Group ID corresponding to school location
Type	String
Measurement	Nominal
Valid Values -99	Not Applicable

**workplace**

Value

Standard AttLabel	Employed or volunteer: Primary type of workplace
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
1	Usually the same location (outside home)
2	Workplace regularly varies (different offices or jobsites)
3	At home (telecommute or self-employed)
4	Drives for a living (e.g. bus driver, salesman)

**occupation**

Value

Standard AttLabel	Employed or volunteer: Primary occupation
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
1	Computer, Engineering, & Science
2	Construction & Extraction
3	Education, Legal, Community Service, Arts, & Media
4	Farming, Fishing, & Forestry
5	Healthcare Practitioners & Technical
6	Installation, Maintenance, & Repair
7	Management, Business, & Financial
8	Military
9	Office & Administrative Support
10	Production
11	Sales/ Sales-related
12	Service
13	Transportation & Material Moving
97	Other
98	Don't Know

**industry**

Value

Standard AttLabel	Employed or volunteer: Primary employment industry
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
1	Accommodation & Food Services
2	Administrative, Support, & Waste Management Services
3	Agriculture, Forestry, Fishing, & Hunting
4	Arts, Entertainment, & Recreation
5	Construction
6	Education Services
7	Finance & Insurance
8	Health Care & Social Assistance
9	Information
10	Management of Companies & Enterprises
11	Manufacturing
12	Military
13	Mining, Quarrying, & Oil/Gas Extraction
14	Other Services
15	Professional, Scientific, & Technical Services
16	Public Administration
17	Real Estate, Rental, & Leasing
18	Retail Trade
19	Transportation & Warehousing
20	Utilities
21	Wholesale Trade
97	Other
98	Don't Know

## Codebook - Person File

**commute\_freq**

Value

Standard AttLabel	If travels to fixed or varied workplace (i.e. workplace == 1 or workplace == 2): How often commute to primary workplace
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	6-7 days a week
2	5 days a week
3	4 days a week
4	3 days a week
5	2 days a week
6	1 day a week
7	Less than weekly

**commute\_mode**

Value

Standard AttLabel	If commutes: Typical commute mode
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	Walk/jog/wheelchair
2	Bicycle
3	Drive alone
4	Drive/Carpool with ONLY family/household member(s)
5	Carpool with at least one person NOT in household
6	Motorcycle/moped/scooter
7	Vanpool
9	Bus (public transit)
10	Train (any rail, subway, monorail)
11	Private shuttle bus
12	Paratransit
13	Taxi or other hired car service (e.g. Lyft, Uber)
97	Other

**work\_flex**

Value

Standard AttLabel	Employed or volunteer: Amount of flexibility in primary work schedule
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	No flexibility (always have to start at a fixed time, time may vary by day or shift)
2	Some flexibility (e.g. can start up to 30 minutes earlier/later)
3	Complete flexibility (e.g. can set own schedule)

**work\_address**

Value

Standard AttLabel	If goes to a fixed workplace: Primary workplace address
Type	String
Measureme	Nominal

**work\_lat**

Value

Standard AttLabel	If goes to a fixed workplace: Primary workplace latitude
Type	Numeric
Measureme	Scale
Labeled Val -99.00	Not Applicable

**work\_lng**

Value

Standard AttLabel	If goes to a fixed workplace: Primary workplace longitude
Type	Numeric
Measureme	Scale
Labeled Val -99.00	Not Applicable

**work\_county**

Value

Standard AttLabel	USE RECODED VERSION: If goes to a fixed workplace: County corresponding to primary workplace location
Type	String
Measureme	Nominal
Valid Values -99	Not Applicable



## Codebook - Person File

**work\_town**

Value

Standard AttLabel	USE RECODED VERSION: If goes to a fixed workplace: Town corresponding to primary workplace location
Type	String
Measurement	Nominal
Valid Values -99	Not Applicable

**work\_bg\_geoid**

Value

Standard AttLabel	USE RECODED VERSION: If goes to a fixed workplace: Block Group ID corresponding to primary workplace location
Type	String
Measurement	Nominal
Valid Values -99	Not Applicable

**diary\_start\_et**

Value

Standard AttLabel	Diary start time (ET)
Type	Numeric
Measurement	Scale

**diary\_end\_et**

Value

Standard AttLabel	Diary end time (ET)
Type	Numeric
Measurement	Scale

**diary\_duration**

Value

Standard AttLabel	Diary duration, minutes
Type	Numeric
Measurement	Scale

**person\_tripcount**

Value

Standard AttLabel	USE RECODED VERSION: Number of trips made
Type	Numeric
Measurement	Scale

**person\_tripcount\_10plus**

Value

Standard AttLabel	USE RECODED VERSION: Number of trips made, categories
Type	Numeric
Measurement	Nominal
Valid Values 0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10 or more trips

**diary\_proxy**

Value

Standard AttLabel	Respondent is represented by proxy
Type	Numeric
Measurement	Nominal
Valid Values 1	I am <name> and I am answering this survey
2	I am answering this survey for <name> and <name> IS here with me to provide answers
3	I am answering this survey for <name> and <name> is NOT here with me to provide answers

**copytrips\_confirm**

Value

Standard AttLabel	If copied trips available: Selected from available trips
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not selected
1	Selected

## Codebook - Person File

**trips\_first**

Value

Standard AttLabel	First copied trip was first trip of the day
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	Yes
2	No

**trips\_last**

Value

Standard AttLabel	Last copied trip was last trip of the day
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
1	Yes
2	No

**diary\_loc\_start**

Value

Standard AttLabel	USE RECODED VERSION: Where started travel day (at 3 AM)
Type	Numeric
Measureme	Nominal
Valid Values 1	Home
2	Work (Primary)
4	Another place, please specify:

**diary\_loc\_start\_other**

Value

Standard AttLabel	Where started travel day, other
Type	String
Measureme	Nominal

**diary\_loc\_end**

Value

Standard AttLabel	USE RECODED VERSION: Where ended travel day (at 3 AM)
Type	Numeric
Measureme	Nominal
Valid Values 1	Home
2	Work (Primary)
4	Another place, please specify:

**diary\_loc\_end\_other**

Value

Standard AttLabel	Where ended travel day, other
Type	String
Measureme	Nominal

**trips\_yesno**

Value

Standard AttLabel	USE RECODED VERSION: Made trips on travel day
Type	Numeric
Measureme	Nominal
Valid Values 1	Yes
2	No

**no\_travel\_dayoff**

Value

Standard AttLabel	No travel: Was not scheduled to work or took a vacation/personal day (if employed)
Type	Numeric
Measureme	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

## Codebook - Person File

**no\_travel\_telecommute**

Value

Standard Att Label	No travel: Worked from home for pay e.g. telecommuted or home-based job (if employed)
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**no\_travel\_workhomenoapay**

Value

Standard Att Label	No travel: Worked around the home (not for pay)
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**no\_travel\_kidsvacation**

Value

Standard Att Label	No travel: The kids were on school vacation/break
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**no\_travel\_notransport**

Value

Standard Att Label	No travel: Did not have available transportation (no car, no way to get to the bus, etc.)
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**no\_travel\_sick**

Value

Standard Att Label	No travel: Was sick or caring another person (child or family member) at home
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**no\_travel\_visitor**

Value

Standard Att Label	No travel: Was waiting for a delivery or visitor (e.g. cable installation)
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**no\_travel\_other**

Value

Standard Att Label	No travel: Other
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**added\_loop**

Value

Standard Att Label	Additional trips to report: Walk, bike trip (exercise, walk the dog, etc)
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

## Codebook - Person File

**added\_quick**

Value

Standard Att Label	Additional trips to report: One or more short trips in the middle of other activities (e.g. a quick trip for lunch)
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**added\_stop**

Value

Standard Att Label	Additional trips to report: Stopped briefly on the way to somewhere else (e.g. for gas, at an ATM, at a drive-thru restaurant, etc.)
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**added\_dropoff**

Value

Standard Att Label	Additional trips to report: Dropped someone off on the way to somewhere else (e.g. spouse at a park and ride lot, child at a friend's house, etc.)
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**added\_other**

Value

Standard Att Label	Additional trips to report: Other type of trip
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**toll\_use\_travelday**

Value

Standard Att Label	Age 16+: Used toll road on travel day
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
1	Yes
2	No

**hov\_use\_travelday**

Value

Standard Att Label	Age 16+: Used HOV lane on travel day
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
1	Yes
2	No

**park\_pay\_use\_travelday**

Value

Standard Att Label	Age 16+: Paid for parking on travel day
Type	Numeric
Measurement	Nominal
Valid Values -99	Not Applicable
1	Yes
2	No

**typicalday**

Value

Standard Att Label	Typical travel day
Type	Numeric
Measurement	Nominal
Valid Values 1	Yes
2	No

## Codebook - Person File

**typicalday\_other**

Value

Standard Att Label	Typical travel day: other specify
Type	String
Measurement	Nominal

**comments**

Value

Standard Att Label	Optional: Participant comments
Type	String
Measurement	Nominal

**diary\_callcenter**

Value

Standard Att Label	Call center completed diary
Type	Numeric
Measurement	Nominal
Valid Values 0	No
1	Yes

**diary\_nonenglish**

Value

Standard Att Label	Flag: diary survey language (web browser)
Type	Numeric
Measurement	Nominal
Valid Values 0	No, English
1	Yes, non-english

**r\_age**

Value

Standard Att Label	Age variable used in the weighting analysis
Type	Numeric
Measurement	Nominal
Valid Values 1	Under 5 years
2	5-17 years
3	18-24 years
4	25-34 years
5	35-44 years
6	45-54 years
7	55-64 years
8	65-74 years
9	75-84 years
10	85 years or older

**r\_gender**

Value

Standard Att Label	Gender variable used in the weighting analysis
Type	Numeric
Measurement	Nominal
Valid Values 1	Male
2	Female

**r\_employment**

Value

Standard Att Label	Employment variable used in the weighting analysis
Type	Numeric
Measurement	Nominal
Valid Values 1	Employed
2	Not employed
3	Age less than 16

## Codebook - Person File

**r\_mode\_to\_work**

Value

Standard AttLabel	Mode to work variable used in the weighting analysis
Type	Numeric
Measureme	Nominal
Valid Values 1	Drove alone
2	Carpool or Vanpool
7	Bus or trolley bus
9	Subway or elevated railroad
12	Taxicab
13	Motorcycle
14	Bicycle
15	Walked
16	Other means
17	Worked at home
18	Unemployed
19	Age less than 16

**person\_tripcount\_recode**

Value

Standard AttLabel	Final Recoded Number of trips made
Type	Numeric
Measureme	Scale

**person\_tripcount\_10plus\_recode**

Value

Standard AttLabel	Final Recoded Number of trips made, categories
Type	Numeric
Measureme	Nominal
Valid Values 0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10 or more trips

**trips\_yesno\_recoded\_2**

Value

Standard AttLabel	Final Recoded Made trips on travel day after data processing was complete recoded
Type	Numeric
Measureme	Nominal
Valid Values 1	Yes
2	No
3	Yes - No trip records in the trip file

**diary\_loc\_start\_recode\_3**

Value

Standard AttLabel	Final Recoded Where started travel day recoded 3 (at 3 AM)
Type	Numeric
Measureme	Nominal
Valid Values 1	Home
2	Work (Primary)
3	Home other
4	Another place, please specify:

**diary\_loc\_end\_recode\_3**

Value

Standard AttLabel	Final Recoded Where ended travel day recoded 3 (at 3 AM)
Type	Numeric
Measureme	Nominal
Valid Values 1	Home
2	Work (Primary)
3	Home other
4	Another place, please specify:

## Codebook - Person File

**person\_tripcount\_linked**

Value

Standard Att Label	Number of trips made linked
Type	Numeric
Measurement	Scale

**person\_tripcount\_10plus\_linked**

Value

Standard Att Label	Number of trips made, categories linked
Type	Numeric
Measurement	Nominal
Valid Values 0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10 or more trips

**work\_county\_recode**

Value

Standard Att Label	Final Recoded If goes to a fixed workplace: County corresponding to primary workplace location
Type	String
Measurement	Nominal
Valid Values -99	Not Applicable

**work\_town\_recode**

Value

Standard Att Label	Final Recoded If goes to a fixed workplace: Town corresponding to primary workplace location
Type	String
Measurement	Nominal
Valid Values -99	Not Applicable

**work\_bg\_geoid\_recode**

Value

Standard Att Label	Final Recoded If goes to a fixed workplace: Block Group ID corresponding to primary workplace location
Type	String
Measurement	Nominal
Valid Values -99	Not Applicable

**final\_weights**

Value

Standard Att Label	Readjusted weights matching marginal distributions of household and person variables of interest
Type	Numeric
Measurement	Scale

## Codebook - Vehicle File

**hhid**

Value

Standard Att Label	Household ID
Type	Numeric
Measuremer	Scale

**segnum**

Value

Standard Att Label	Sample segment
Type	Numeric
Measuremer	Nominal
Valid Values 1	Segment 1: Over Sample, low response rate
2	Segment 2: Over Sample, medium response rate
3	Segment 3: Over Sample, high response rate
4	Segment 4: Regular Sample, low response rate
5	Segment 5: Regular Sample, medium response rate
6	Segment 6: Regular Sample, high response rate
99	Segment 99: Volunteers

**hh\_hts\_status**

Value

Standard Att Label	Household survey status
Type	Numeric
Measuremer	Nominal
Valid Values 0	Incomplete
1	Complete

**vehnum**

Value

Standard Att Label	Vehicle number
Type	Numeric
Measuremer	Nominal

**vehid**

Value

Standard Att Label	Vehicle ID (unique)
Type	String
Measuremer	Nominal

**year**

Value

Standard Att Label	Vehicle year
Type	Numeric
Measuremer	Scale
Labeled Val 1980	1980 or earlier

**make**

Value

Standard Att Label	Vehicle make
Type	String
Measuremer	Nominal

**model**

Value

Standard Att Label	Vehicle model
Type	String
Measuremer	Nominal



Codebook - Vehicle File

**tolltransp**

Value

Standard Att Label	Vehicle has a toll transponder
Type	Numeric
Measuremer	Nominal
Valid Values 1	No
2	Yes

**final\_weights**

Value

Standard Att Label	Readjusted weights matching marginal distributions of household and person variables of interest (modeled)
Type	Numeric
Measuremer	Scale

## Codebook - Unlinked Trip File

**hhid**

Value

Standard Att Label	Household ID
Type	Numeric
Measuremer	Scale

**personid**

Value

Standard Att Label	Person ID
Type	Numeric
Measuremer	Nominal

**tripid**

Value

Standard Att Label	Trip ID (unique)
Type	Numeric
Measuremer	Nominal

**trip\_num**

Value

Standard Att Label	Trip number
Type	Numeric
Measuremer	Scale

**segnum**

Value

Standard Att Label	Sample segment
Type	Numeric
Measuremer	Nominal
Valid Values 1	Segment 1: Over Sample, low response rate
2	Segment 2: Over Sample, medium response rate
3	Segment 3: Over Sample, high response rate
4	Segment 4: Regular Sample, low response rate
5	Segment 5: Regular Sample, medium response rate
6	Segment 6: Regular Sample, high response rate
99	Segment 99: Volunteers

**week**

Value

Standard Att Label	Week number of assigned travel date
Type	Numeric
Measuremer	Nominal

**traveldate**

Value

Standard Att Label	Assigned travel date
Type	String
Measuremer	Nominal

**person\_num**

Value

Standard Att Label	Person number
Type	Numeric
Measuremer	Nominal

**hh\_hts\_status**

Value

Standard Att Label	Household survey status
Type	Numeric
Measuremer	Nominal
Valid Values 0	Incomplete
1	Complete

## Codebook - Unlinked Trip File

**prepop**

Value

Standard Att Label	Trip was copied from other HH member
Type	Numeric
Measuremer	Nominal
Valid Values 0	Not selected
1	Selected

**o\_name**

Value

Standard Att Label	USE RECODED VERSION: Trip origin nickname
Type	String
Measuremer	Nominal

**d\_name**

Value

Standard Att Label	Trip destination nickname
Type	String
Measuremer	Nominal

**o\_address**

Value

Standard Att Label	USE RECODED VERSION: Trip origin address
Type	String
Measuremer	Nominal

**o\_lat**

Value

Standard Att Label	USE RECODED VERSION: Trip origin latitude
Type	Numeric
Measuremer	Scale

**o\_lng**

Value

Standard Att Label	USE RECODED VERSION: Trip origin longitude
Type	Numeric
Measuremer	Scale

**d\_address**

Value

Standard Att Label	USE RECODED VERSION: Trip destination address
Type	String
Measuremer	Nominal

**d\_lat**

Value

Standard Att Label	USE RECODED VERSION: Trip destination latitude
Type	Numeric
Measuremer	Scale

**d\_lng**

Value

Standard Att Label	USE RECODED VERSION: Trip destination longitude
Type	Numeric
Measuremer	Scale

**departure\_time**

Value

Standard Att Label	Trip departure time
Type	Numeric
Measuremer	Scale

## Codebook - Unlinked Trip File

**arrival\_time**

Value

Standard Att Label	Trip arrival time
Type	Numeric
Measuremer	Scale

**departure\_time\_hhmm**

Value

Standard Att Label	Trip departure time: hours and minutes
Type	String
Measuremer	Nominal

**arrival\_time\_hhmm**

Value

Standard Att Label	Trip arrival time: hours and minutes
Type	String
Measuremer	Nominal

**departure\_hour**

Value

Standard Att Label	Trip departure time: hour of day
Type	Numeric
Measuremer	Scale
Labeled Valu -1	Before 3:00 AM
3	3:00 - 3:55 AM
4	4:00 - 4:55 AM
5	5:00 - 5:55 AM
6	6:00 - 6:55 AM
7	7:00 - 7:55 AM
8	8:00 - 8:55 AM
9	9:00 - 9:55 AM
10	10:00 - 10:55 AM
11	11:00 - 11:55 AM
12	12:00 - 12:55 PM
13	1:00 - 1:55 PM
14	2:00 - 2:55 PM
15	3:00 - 3:55 PM
16	4:00 - 4:55 PM
17	5:00 - 5:55 PM
18	6:00 - 6:55 PM
19	7:00 - 7:55 PM
20	8:00 - 8:55 PM
21	9:00 - 9:55 PM
22	10:00 - 10:55 PM
23	11:00 - 11:55 PM
24	12:00 - 12:55 PM
25	1:00 - 1:55 AM (next day)
26	2:00 - 2:55 AM (next day)
27	After 3:00 AM (next day)

## Codebook - Unlinked Trip File

**arrival\_hour**

Value

Standard Att Label	Trip arrival time: hour of day
Type	Numeric
Measuremer	Scale
Labeled Valu -1	Before 3:00 AM
3	3:00 - 3:55 AM
4	4:00 - 4:55 AM
5	5:00 - 5:55 AM
6	6:00 - 6:55 AM
7	7:00 - 7:55 AM
8	8:00 - 8:55 AM
9	9:00 - 9:55 AM
10	10:00 - 10:55 AM
11	11:00 - 11:55 AM
12	12:00 - 12:55 PM
13	1:00 - 1:55 PM
14	2:00 - 2:55 PM
15	3:00 - 3:55 PM
16	4:00 - 4:55 PM
17	5:00 - 5:55 PM
18	6:00 - 6:55 PM
19	7:00 - 7:55 PM
20	8:00 - 8:55 PM
21	9:00 - 9:55 PM
22	10:00 - 10:55 PM
23	11:00 - 11:55 PM
24	12:00 - 12:55 PM
25	1:00 - 1:55 AM (next day)
26	2:00 - 2:55 AM (next day)
27	After 3:00 AM (next day)

**reported\_duration**

Value

Standard Att Label	Trip duration: minutes
Type	Numeric
Measuremer	Scale
Labeled Valu -99	Not Applicable; Either departed before 3AM or arrived at or after 3AM next day

**implied\_speed\_mph**

Value

Standard Att Label	Trip speed (miles per hour)
Type	Numeric
Measuremer	Scale

**travelers\_total**

Value

Standard Att Label	Total number of travelers on trip including self
Type	Numeric
Measuremer	Nominal

**travelers\_hh**

Value

Standard Att Label	Household members on trip including self
Type	Numeric
Measuremer	Nominal

## Codebook - Unlinked Trip File

**travelers\_nonhh**

Value

Standard Att Label	Non-household members on trip
Type	Numeric
Measuremer	Nominal
Valid Values 0	Nobody (0 people)
1	1 person
2	2 people
3	3 people
4	4 people
5	5 or more people

**o\_purpose**

Value

Standard Att Label	USE RECODED VERSION: Primary purpose at trip origin
Type	Numeric
Measuremer	Nominal
Valid Values 1	Go home
2	Go to primary workplace
3	Go to other work-related place
4	Attend school/class
5	Other school-related activity
6	Grocery shopping
7	Do other shopping (e.g. mall, hardware store)
8	Run errands (e.g. bank, haircut)
9	Go to restaurant/bar/get take-out
10	Drop off/pick up/accompany other person
11	Exercise (e.g. gym, walk, jog/run)
12	Family activity (e.g. child's game)
13	Medical visit (e.g. doctor, dentist)
14	Social (e.g. visit friends/relatives)
15	Leisure/entertainment (e.g. movies)
16	Religious/civic/volunteer
17	Vacation/holiday/traveling (e.g. hotel)
18	Change travel mode (e.g. wait for bus, change planes)
97	Other

**d\_purpose**

Value

Standard Att Label	USE RECODED VERSION: Primary purpose at trip destination
Type	Numeric
Measuremer	Nominal
Valid Values 1	Go home
2	Go to primary workplace
3	Go to other work-related place
4	Attend school/class
5	Other school-related activity
6	Grocery shopping
7	Do other shopping (e.g. mall, hardware store)
8	Run errands (e.g. bank, haircut)
9	Go to restaurant/bar/get take-out
10	Drop off/pick up/accompany other person
11	Exercise (e.g. gym, walk, jog/run)
12	Family activity (e.g. child's game)
13	Medical visit (e.g. doctor, dentist)
14	Social (e.g. visit friends/relatives)
15	Leisure/entertainment (e.g. movies)
16	Religious/civic/volunteer
17	Vacation/holiday/traveling (e.g. hotel)
18	Change travel mode (e.g. wait for bus, change planes)
97	Other

## Codebook - Unlinked Trip File

**d\_purpose\_other**

Value

Standard Att Label	Optional: primary purpose at trip destination: other specify:
Type	String
Measuremer	Nominal

**t\_purpose**

Value

Standard Att Label	USE RECODED VERSION: Overall trip purpose
Type	String
Measuremer	Nominal
Valid Values HBO	Home Based Other (home to/from any other purpose)
WBO	Work Based Other (work/work-related to/from any non-home purpose)
HBW	Home Based Work (home to/from work/work-related)
NWBO	Non Work Based Other (any non-home, non-work to/from any non-home, non-work)
HBSch	Home Based School (home to/from school/school-related)
HBSHp	Home Based Shopping (home to/from grocery/other shopping)

**mode**

Value

Standard Att Label	Main way traveled on trip
Type	Numeric
Measuremer	Nominal
Valid Values 1	Walk/jog/wheelchair
2	Bicycle
3	Vehicle in household
4	Other vehicle (e.g. rental, friend's car)
5	Regular taxi or hired car service
6	Ride-share taxi/car service (e.g. Uber, Lyft)
7	Vanpool
8	School bus
9	Public (city) bus
10	Train (e.g. Amtrak)
11	Shuttle (e.g. a hotel's, an airport's)
12	Paratransit
13	Commuter Rail (e.g. Metro North)
14	Subway
15	Intercity bus (e.g. Greyhound)
16	Ferry/water taxi/boat
17	Airplane/helicopter
97	Other

**mode\_category**

Value

Standard Att Label	Main way traveled on trip, aggregated
Type	Numeric
Measuremer	Nominal
Valid Values 1	SOV (single-occupant vehicle)
2	Family carpool (HH or Other vehicle, only HH members in travel party)
3	Other carpool (HH or Other vehicle, includes at least one non-HH member)
4	Walk or Bike
5	Taxi (traditional or rideshare)
6	Public transit (bus, train, paratransit, commuter rail, subway, intercity bus)
97	Other (vanpool, school bus, shuttle, ferry/boat, airplane, other)

## Codebook - Unlinked Trip File

**mode\_hhauto**

Value

Standard Att Label	HH or Other Vehicle: Vehicle used
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	HH vehicle 1
2	HH vehicle 2
3	HH vehicle 3
4	HH vehicle 4
5	HH vehicle 5
6	HH vehicle 6
7	HH vehicle 7
8	HH vehicle 8
9	HH vehicle 9
10	HH vehicle 10
11	Rental car
12	Car from work
13	Friend/relative's car
14	Carshare vehicle (e.g. Car2Go)
15	Motorcycle/moped/scooter

**driver**

Value

Standard Att Label	HH or Other Vehicle, or Vanpool: If age 16+ and licensed travel party > 1: Was driver or passenger on trip
Type	Numeric
Measuremer	Nominal
Valid Values 1	Driver
2	Passenger
3	Both (switched drivers during trip)

**hov\_use**

Value

Standard Att Label	HH or Other vehicle, Vanpool, Taxi or Rideshare: If ever uses HOV and travel party > 1: Used HOV lane on trip
Type	Numeric
Measuremer	Nominal
Valid Values 1	Yes
2	No

**tollroad\_use**

Value

Standard Att Label	HH or Other vehicle, Vanpool, Taxi or Rideshare: If ever uses toll road: Toll road used on trip
Type	Numeric
Measuremer	Nominal
Valid Values 1	Yes
2	No

**tollroad\_cost**

Value

Standard Att Label	If used toll road for this trip: Toll road cost for trip (dollars)
Type	Numeric
Measuremer	Scale
Labeled Val. -99	Not Applicable

**tollroad\_cost\_dk**

Value

Standard Att Label	Toll road cost for trip: don't know
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected



## Codebook - Unlinked Trip File

**park\_loc**

Value

Standard Att Label	HH or Other vehicle, or Vanpool: If age 16+: Parking location at destination
Type	Numeric
Measuremer	Nominal
Valid Values 1	Own driveway/garage
2	Someone else's driveway
3	Parking lot/garage at destination (within 2 blocks)
4	Parking lot/garage 2+ blocks away from destination
5	On street parking at destination (within 2 blocks)
6	On street parking 2+ blocks away from destination
7	Park & ride lot
8	Didn't park (waited, drop-off, drive-thru)
9	Other

**park\_pay**

Value

Standard Att Label	Parked on street or in a lot/garage: If ever pays for parking: How paid for parking at destination
Type	Numeric
Measuremer	Nominal
Valid Values 1	No, parking was free
2	Yes, with cash/tickets
3	Yes, with parking pass
4	No, another person paid or was reimbursed
5	Not sure/don't remember

**park\_cost**

Value

Standard Att Label	If paid with cash/tickets: Cost of parking at destination (dollars)
Type	Numeric
Measuremer	Scale
Labeled Val -99	Not Applicable

**park\_cost\_dk**

Value

Standard Att Label	Parking cost for trip: don't know
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**taxi\_cost**

Value

Standard Att Label	Taxi or Rideshare: Cost of taxi for trip (dollars)
Type	Numeric
Measuremer	Scale
Labeled Val -99	Not Applicable

**taxi\_cost\_dk**

Value

Standard Att Label	Cost of taxi for trip: don't know
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

## Codebook - Unlinked Trip File

**transit\_access**

Value

Standard Att Label	Public Bus, Commuter Rail, Subway, Train or Intercity Bus: Transit access mode
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	Walked or jogged
2	Rode a bike
3	Drove and parked a car
4	Got dropped off
5	Took a taxi/ride-share (e.g. Uber, Lyft)
6	Transferred from other transit
7	Was already at the destination
8	Other

**transit\_egress**

Value

Standard Att Label	Public Bus, Commuter Rail, Subway, Train or Intercity Bus: Transit egress mode
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	Walked or jogged
2	Rode a bike
3	Drove a parked car
4	Got picked up
5	Took a taxi /ride-share (e.g. Uber, Lyft)
6	Transferred to other transit
7	Was already at the destination
8	Other

**transit\_pay**

Value

Standard Att Label	Public Bus, Commuter Rail, Subway, Train or Intercity Bus: How paid for transit on trip
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	Free (no cost)
2	Cash or ticket(s)
3	Stored value card
4	Used pass (any type)
5	Not sure/don't remember
6	Other

**transit\_cost**

Value

Standard Att Label	Public Bus, Commuter Rail, Subway, Train or Intercity Bus: Cost of transit for trip (dollars)
Type	Numeric
Measuremer	Scale
Labeled Val. -99	Not Applicable

**transit\_cost\_dk**

Value

Standard Att Label	Cost of transit for trip: don't know
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

## Codebook - Unlinked Trip File

**transit\_system\_1**

Value

Standard Att Label	First transit system used
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	CT Transit: Hartford
2	CT Transit: Stamford
3	CT Transit: New Britain
4	CT Transit: New Haven
5	CT Transit: Waterbury
6	CT Transit: Bristol
7	CT Transit: Meriden
8	CT Transit: Wallingford
9	CT Transit: CTFastrak
10	CT Transit: Hartford Express
11	Norwalk Transit District
12	Greater Bridgeport Transit
13	Housatonic Area Regional Transit
14	Northwestern CT Transit District
15	Valley Transit District
16	Milford Transit District
17	Middletown Area Transit
18	Estuary Transit District
19	Southeast Area Transit (SEAT)
20	Windham Region Transit District
21	Northeastern Connecticut Transit District
22	iBUS Express
23	Post Road Stages
24	Greyhound
25	Peter Pan
26	Dattco
27	Kelly Transit
28	CT Rides
29	Other Dial -A -Ride services
30	Amtrak
31	Metro North
32	Shoreline East
33	Long Island Rail Road
34	MTA Subway
35	NJ Transit Rail
36	Other

## Codebook - Unlinked Trip File

**transit\_system\_2**

Value

Standard Att Label	Second transit system used
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	CT Transit: Hartford
2	CT Transit: Stamford
3	CT Transit: New Britain
4	CT Transit: New Haven
5	CT Transit: Waterbury
6	CT Transit: Bristol
7	CT Transit: Meriden
8	CT Transit: Wallingford
9	CT Transit: CTFastrak
10	CT Transit: Hartford Express
11	Norwalk Transit District
12	Greater Bridgeport Transit
13	Housatonic Area Regional Transit
14	Northwestern CT Transit District
15	Valley Transit District
16	Milford Transit District
17	Middletown Area Transit
18	Estuary Transit District
19	Southeast Area Transit (SEAT)
20	Windham Region Transit District
21	Northeastern Connecticut Transit District
22	iBUS Express
23	Post Road Stages
24	Greyhound
25	Peter Pan
26	Dattco
27	Kelly Transit
28	CT Rides
29	Other Dial -A -Ride services
30	Amtrak
31	Metro North
32	Shoreline East
33	Long Island Rail Road
34	MTA Subway
35	NJ Transit Rail
36	Other

## Codebook - Unlinked Trip File

## transit\_system\_3

Value

Standard Att Label	Third transit system used
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	CT Transit: Hartford
2	CT Transit: Stamford
3	CT Transit: New Britain
4	CT Transit: New Haven
5	CT Transit: Waterbury
6	CT Transit: Bristol
7	CT Transit: Meriden
8	CT Transit: Wallingford
9	CT Transit: CTFastrak
10	CT Transit: Hartford Express
11	Norwalk Transit District
12	Greater Bridgeport Transit
13	Housatonic Area Regional Transit
14	Northwestern CT Transit District
15	Valley Transit District
16	Milford Transit District
17	Middletown Area Transit
18	Estuary Transit District
19	Southeast Area Transit (SEAT)
20	Windham Region Transit District
21	Northeastern Connecticut Transit District
22	iBUS Express
23	Post Road Stages
24	Greyhound
25	Peter Pan
26	Dattco
27	Kelly Transit
28	CT Rides
29	Other Dial -A -Ride services
30	Amtrak
31	Metro North
32	Shoreline East
33	Long Island Rail Road
34	MTA Subway
35	NJ Transit Rail
36	Other

## Codebook - Unlinked Trip File

**transit\_system\_4**

Value

Standard Att Label	Fourth transit system used
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	CT Transit: Hartford
2	CT Transit: Stamford
3	CT Transit: New Britain
4	CT Transit: New Haven
5	CT Transit: Waterbury
6	CT Transit: Bristol
7	CT Transit: Meriden
8	CT Transit: Wallingford
9	CT Transit: CTFastrak
10	CT Transit: Hartford Express
11	Norwalk Transit District
12	Greater Bridgeport Transit
13	Housatonic Area Regional Transit
14	Northwestern CT Transit District
15	Valley Transit District
16	Milford Transit District
17	Middletown Area Transit
18	Estuary Transit District
19	Southeast Area Transit (SEAT)
20	Windham Region Transit District
21	Northeastern Connecticut Transit District
22	iBUS Express
23	Post Road Stages
24	Greyhound
25	Peter Pan
26	Dattco
27	Kelly Transit
28	CT Rides
29	Other Dial -A -Ride services
30	Amtrak
31	Metro North
32	Shoreline East
33	Long Island Rail Road
34	MTA Subway
35	NJ Transit Rail
36	Other

**transit\_line\_1**

Value

Standard Att Label	First transit route/line used
Type	Numeric
Measuremer	Scale

**transit\_line\_2**

Value

Standard Att Label	Second transit route/line used
Type	Numeric
Measuremer	Scale

**transit\_line\_3**

Value

Standard Att Label	Third transit route/line used
Type	Numeric
Measuremer	Scale

## Codebook - Unlinked Trip File

**transit\_line\_4**

Value

Standard Att Label	Fourth transit route/line used
Type	Numeric
Measuremer	Scale

**transit\_transfers**

Value

Standard Att Label	Count of transit transfers made (derived)
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable

**gdistance**

Value

Standard Att Label	Driving distance (miles) from origin to destination (Google estimate)
Type	Numeric
Measuremer	Scale

**gdistance\_bins**

Value

Standard Att Label	Driving distance (miles) from origin to destination (Google estimate) (derived 10 mile increments)
Type	Numeric
Measuremer	Scale
Labeled Valu -1	0 miles
0	0 - 10 miles
10	10 - 20 miles
20	20 - 30 miles
30	30 - 40 miles
40	40 - 50 miles
50	50 - 60 miles
60	60 - 70 miles
70	70 - 80 miles
80	80 - 90 miles
90	90 - 100 miles
100	100 miles or more

**gduration**

Value

Standard Att Label	Driving travel time (minutes) from origin to destination (Google estimate)
Type	Numeric
Measuremer	Scale

**gduration\_bins**

Value

Standard Att Label	Driving travel time (minutes) from origin to destination (Google estimate) (derived 10 minute increments)
Type	Numeric
Measuremer	Scale
Labeled Valu -1	0 minutes
0	1 - 10 minutes
10	10 - 20 minutes
20	20 - 30 minutes
30	30 - 40 minutes
40	40 - 50 minutes
50	50 - 60 minutes
60	60 - 70 minutes
70	70 - 80 minutes
80	80 - 90 minutes
90	90 - 100 minutes
100	100 minutes or more

## Codebook - Unlinked Trip File

**hhmember1**

Value

Standard Att Label	Household member 1 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values 0	Not Selected
1	Selected

**hhmember2**

Value

Standard Att Label	Household member 2 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember3**

Value

Standard Att Label	Household member 3 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember4**

Value

Standard Att Label	Household member 4 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember5**

Value

Standard Att Label	Household member 5 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember6**

Value

Standard Att Label	Household member 6 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember7**

Value

Standard Att Label	Household member 7 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected



## Codebook - Unlinked Trip File

**hhmember8**

Value

Standard Att Label	Household member 8 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember9**

Value

Standard Att Label	Household member 9 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmembertnone**

Value

Standard Att Label	If household size > 1: No household member was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	No
1	Yes

**o\_name\_recode**

Value

Standard Att Label	Final Recoded Trip origin nickname
Type	String
Measuremer	Nominal

**o\_address\_recode\_2**

Value

Standard Att Label	Final Recoded Trip origin address
Type	String
Measuremer	Nominal

**o\_lat\_recode\_2**

Value

Standard Att Label	Final Recoded Trip origin latitude
Type	Numeric
Measuremer	Scale

**o\_lng\_recode\_2**

Value

Standard Att Label	Final Recoded Trip origin longitude
Type	Numeric
Measuremer	Scale

**d\_address\_recode**

Value

Standard Att Label	Final Recoded Trip destination address
Type	String
Measuremer	Nominal

**d\_lat\_recode**

Value

Standard Att Label	Final Recoded Trip destination latitude
Type	Numeric
Measuremer	Scale

## Codebook - Unlinked Trip File

**d\_lng\_recode**

Value

Standard Att Label	Final Recoded Trip destination longitude
Type	Numeric
Measuremer	Scale

**o\_purpose\_recode\_3**

Value

Standard Att Label	Final Recoded Primary purpose at trip origin
Type	Numeric
Measuremer	Nominal
Valid Values 1	Go home
2	Go to primary workplace
3	Go to other work-related place
4	Attend school/class
5	Other school-related activity
6	Grocery shopping
7	Do other shopping (e.g. mall, hardware store)
8	Run errands (e.g. bank, haircut)
9	Go to restaurant/bar/get take-out
10	Drop off/pick up/accompany other person
11	Exercise (e.g. gym, walk, jog/run)
12	Family activity (e.g. child's game)
13	Medical visit (e.g. doctor, dentist)
14	Social (e.g. visit friends/relatives)
15	Leisure/entertainment (e.g. movies)
16	Religious/civic/volunteer
17	Vacation/holiday/traveling (e.g. hotel)
18	Change travel mode (e.g. wait for bus, change planes)
19	Home other
20	Go to airport/switch airport
97	Other

**d\_purpose\_recode\_3**

Value

Standard Att Label	Final Recoded Primary purpose at trip destination
Type	Numeric
Measuremer	Nominal
Valid Values 1	Go home
2	Go to primary workplace
3	Go to other work-related place
4	Attend school/class
5	Other school-related activity
6	Grocery shopping
7	Do other shopping (e.g. mall, hardware store)
8	Run errands (e.g. bank, haircut)
9	Go to restaurant/bar/get take-out
10	Drop off/pick up/accompany other person
11	Exercise (e.g. gym, walk, jog/run)
12	Family activity (e.g. child's game)
13	Medical visit (e.g. doctor, dentist)
14	Social (e.g. visit friends/relatives)
15	Leisure/entertainment (e.g. movies)
16	Religious/civic/volunteer
17	Vacation/holiday/traveling (e.g. hotel)
18	Change travel mode (e.g. wait for bus, change planes)
19	Home other
20	Go to airport/switch airport
97	Other

## Codebook - Unlinked Trip File

**t\_purpose\_recode\_2**

Value

Standard Att Label	Final Recoded Overall trip purpose
Type	String
Measuremer	Nominal
Valid Values WB	Work Based (work/work related to any/from any non-home purpose)
HH	Home Based Home (home to/from home loop trip)
WW	Work Based Work (primary workplace to/from primary workplace loop trip)
NHB	Non Home Based (any non-home, non-work to/from any non-home, non work)
HBO	Home Based Other (home to/from any other purpose)
HBW	Home Based Work (home to/from work/work-related)
HBSoc	Home Based Social Recreation (home to/from social recreation activity)
HBEsc	Home Based Escorting (home to/from drop off/pick up/accompany other person)
HBSch	Home Based School (home to/from school/other school related)
HHOth	Home Based Home Other (home to/from home other)
HBMel	Home Based Meal (home to/from restaurant/bar/get take-out)
HBSHp	Home Based Shopping (home to/from grocery shopping/other shopping)
HBPer	Home Based Personal Business (home to/from personal business)

**valid\_linked\_trip\_recode**

Value

Standard Att Label	Final Recoded Indicator of whether the trip is part of a linked trip
Type	Numeric
Measuremer	Nominal
Valid Values 0	Unlinked
1	Linked

**linked\_tripid\_recode**

Value

Standard Att Label	Final Recoded Corresponding linked trip ID (unique)
Type	Numeric
Measuremer	Scale

**linked\_trip\_index\_recode**

Value

Standard Att Label	Final Recoded linked trip index
Type	Numeric
Measuremer	Nominal

**how\_linked\_recode**

Value

Standard Att Label	Final Recoded how trip got linked
Type	Numeric
Measuremer	Nominal
Valid Values 0	Not Linked
1	Linked by Change Mode Heuristic
2	Linked by Same Purpose Heuristic

**origin\_county**

Value

Standard Att Label	Trip origin: County corresponding to recoded origin location
Type	String
Measuremer	Nominal

**origin\_town**

Value

Standard Att Label	Trip origin: Town corresponding to recoded origin location
Type	String
Measuremer	Nominal

Codebook - Unlinked Trip File

**origin\_bg\_geoid**

Value

Standard Att Label	Trip origin: Block Group ID corresponding to recoded origin location
Type	String
Measuremer	Nominal

**destination\_county\_recode**

Value

Standard Att Label	Trip destination: County corresponding to recoded destination location
Type	String
Measuremer	Nominal

**destination\_town\_recode**

Value

Standard Att Label	Trip destination: Town corresponding to recoded destination location
Type	String
Measuremer	Nominal

**destination\_bg\_geoid\_recode**

Value

Standard Att Label	Trip destination: Block Group ID corresponding to recoded destination location
Type	String
Measuremer	Nominal

**final\_weights**

Value

Standard Att Label	Readjusted weights matching marginal distributions of household and person variables of interest
Type	Numeric
Measuremer	Scale

## Codebook - Linked Trip File

**hhid**

Value

Standard Att Label	Household ID
Type	Numeric
Measuremer	Scale

**personid**

Value

Standard Att Label	Person ID
Type	Numeric
Measuremer	Nominal

**linked\_tripid**

Value

Standard Att Label	Linked trip ID (Unique)
Type	Numeric
Measuremer	Nominal

**trip\_num**

Value

Standard Att Label	Trip number of the first unlinked trip that is part of the trip chain
Type	Numeric
Measuremer	Scale

**segnum**

Value

Standard Att Label	Sample segment
Type	Numeric
Measuremer	Nominal
Valid Values 1	Segment 1: Over Sample, low response rate
2	Segment 2: Over Sample, medium response rate
3	Segment 3: Over Sample, high response rate
4	Segment 4: Regular Sample, low response rate
5	Segment 5: Regular Sample, medium response rate
6	Segment 6: Regular Sample, high response rate
99	Segment 99: Volunteers

**week**

Value

Standard Att Label	Week number of assigned travel date
Type	Numeric
Measuremer	Nominal

**traveldate**

Value

Standard Att Label	Assigned travel date
Type	String
Measuremer	Nominal

**person\_num**

Value

Standard Att Label	Person number
Type	Numeric
Measuremer	Nominal

**hh\_hts\_status**

Value

Standard Att Label	Household survey status
Type	Numeric
Measuremer	Nominal
Valid Values 0	Incomplete
1	Complete

## Codebook - Linked Trip File

**valid\_linked\_trip**

Value

Standard Att Label	Indicator of whether the trip is part of a linked trip
Type	Numeric
Measuremer	Nominal
Valid Values 0	Not Linked
1	Linked

**linked\_trip\_index**

Value

Standard Att Label	Linked trip index
Type	Numeric
Measuremer	Nominal

**how\_linked**

Value

Standard Att Label	How trip got linked
Type	Numeric
Measuremer	Nominal
Valid Values 0	Not Linked
1	Linked by Change Mode Heuristic
2	Linked by Same Purpose Heuristic

**count\_of\_legs**

Value

Standard Att Label	Count of legs
Type	Numeric
Measuremer	Nominal
Valid Values 1	Unlinked Trip
2	Linked Trip with 2 Legs
3	Linked Trip with 3 Legs
4	Linked Trip with 4 Legs
5	Linked Trip with 5 Legs
6	Linked Trip with 6 Legs
7	Linked Trip with 7 Legs

**o\_name\_across\_legs\_string**

Value

Standard Att Label	"Linked" Trip origin nickname, concatenated)
Type	String
Measuremer	Nominal

**d\_name\_across\_legs\_string**

Value

Standard Att Label	"Linked" Trip destination nickname, concatenated
Type	String
Measuremer	Nominal

## Codebook - Linked Trip File

**d\_purpose\_across\_legs\_string**

Value

Standard Att Label	Primary purpose at "linked" trip destination, concatenated
Type	String
Measuremer	Nominal
Valid Values 1	Go home
2	Go to primary workplace
3	Go to other work-related place
4	Attend school/class
5	Other school-related activity
6	Grocery shopping
7	Do other shopping (e.g. mall, hardware store)
8	Run errands (e.g. bank, haircut)
9	Go to restaurant/bar/get take-out
10	Drop off/pick up/accompany other person
20	Go to airport/switch airport
11	Exercise (e.g. gym, walk, jog/run)
12	Family activity (e.g. child's game)
13	Medical visit (e.g. doctor, dentist)
14	Social (e.g. visit friends/relatives)
15	Leisure/entertainment (e.g. movies)
16	Religious/civic/volunteer
17	Vacation/holiday/traveling (e.g. hotel)
97	Other
18	Change travel mode (e.g. wait for bus, change planes)
19	Home other

**o\_name\_recode\_linked**

Value

Standard Att Label	Trip origin nickname
Type	String
Measuremer	Nominal

**o\_address\_recode\_2\_linked**

Value

Standard Att Label	Trip origin address
Type	String
Measuremer	Nominal

**o\_lat\_recode\_2\_linked**

Value

Standard Att Label	Trip origin latitude
Type	Numeric
Measuremer	Scale

**o\_lng\_recode\_2\_linked**

Value

Standard Att Label	Trip origin longitude
Type	Numeric
Measuremer	Scale

**origin\_county\_linked**

Value

Standard Att Label	Trip origin: County corresponding to origin location
Type	String
Measuremer	Nominal

**origin\_town\_linked**

Value

Standard Att Label	Trip origin: Town corresponding to origin location
Type	String
Measuremer	Nominal

## Codebook - Linked Trip File

**origin\_bg\_geoid\_linked**

Value

Standard Att Label	Trip origin: Block Group ID corresponding to origin location
Type	String
Measuremer	Nominal

**d\_name\_linked**

Value

Standard Att Label	Trip destination nickname
Type	String
Measuremer	Nominal

**d\_address\_recode\_linked**

Value

Standard Att Label	Trip destination address
Type	String
Measuremer	Nominal

**d\_lat\_recode\_linked**

Value

Standard Att Label	Trip destination latitude
Type	Numeric
Measuremer	Scale

**d\_lng\_recode\_linked**

Value

Standard Att Label	Trip destination longitude
Type	Numeric
Measuremer	Scale

**destination\_county\_recode\_linked**

Value

Standard Att Label	Trip destination: County corresponding to destination location
Type	String
Measuremer	Nominal

**destination\_town\_recode\_linked**

Value

Standard Att Label	Trip destination: Town corresponding to destination location
Type	String
Measuremer	Nominal

**destination\_bg\_geoid\_recode\_linked**

Value

Standard Att Label	Trip destination: Block Group ID corresponding to destination location
Type	String
Measuremer	Nominal

**departure\_time\_linked**

Value

Standard Att Label	Trip departure time
Type	Numeric
Measuremer	Scale

**arrival\_time\_linked**

Value

Standard Att Label	Trip arrival time
Type	Numeric
Measuremer	Scale



## Codebook - Linked Trip File

**departure\_time\_hhmm\_linked**

Value

Standard Att Label	Trip departure time: hours and minutes
Type	String
Measuremer	Nominal

**arrival\_time\_hhmm\_linked**

Value

Standard Att Label	Trip arrival time: hours and minutes
Type	String
Measuremer	Nominal

**departure\_hour\_linked**

Value

Standard Att Label	Trip departure time: hour of day
Type	Numeric
Measuremer	Scale
Labeled Valu -1	Before 3:00 AM
3	3:00 - 3:55 AM
4	4:00 - 4:55 AM
5	5:00 - 5:55 AM
6	6:00 - 6:55 AM
7	7:00 - 7:55 AM
8	8:00 - 8:55 AM
9	9:00 - 9:55 AM
10	10:00 - 10:55 AM
11	11:00 - 11:55 AM
12	12:00 - 12:55 PM
13	1:00 - 1:55 PM
14	2:00 - 2:55 PM
15	3:00 - 3:55 PM
16	4:00 - 4:55 PM
17	5:00 - 5:55 PM
18	6:00 - 6:55 PM
19	7:00 - 7:55 PM
20	8:00 - 8:55 PM
21	9:00 - 9:55 PM
22	10:00 - 10:55 PM
23	11:00 - 11:55 PM
24	12:00 - 12:55 PM
25	1:00 - 1:55 AM (next day)
26	2:00 - 2:55 AM (next day)
27	After 3:00 AM (next day)

## Codebook - Linked Trip File

**arrival\_hour\_linked**

Value

Standard Att Label	Trip arrival time: hour of day
Type	Numeric
Measuremer	Scale
Labeled Valu -1	Before 3:00 AM
3	3:00 - 3:55 AM
4	4:00 - 4:55 AM
5	5:00 - 5:55 AM
6	6:00 - 6:55 AM
7	7:00 - 7:55 AM
8	8:00 - 8:55 AM
9	9:00 - 9:55 AM
10	10:00 - 10:55 AM
11	11:00 - 11:55 AM
12	12:00 - 12:55 PM
13	1:00 - 1:55 PM
14	2:00 - 2:55 PM
15	3:00 - 3:55 PM
16	4:00 - 4:55 PM
17	5:00 - 5:55 PM
18	6:00 - 6:55 PM
19	7:00 - 7:55 PM
20	8:00 - 8:55 PM
21	9:00 - 9:55 PM
22	10:00 - 10:55 PM
23	11:00 - 11:55 PM
24	12:00 - 12:55 PM
25	1:00 - 1:55 AM (next day)
26	2:00 - 2:55 AM (next day)
27	After 3:00 AM (next day)

**reported\_duration\_linked**

Value

Standard Att Label	Trip duration: minutes (obtained by aggregating the reported durations across all trip legs)
Type	Numeric
Measuremer	Scale
Labeled Val -99	Not Applicable; Either departed before 3AM or arrived at or after 3AM next day

**reported\_duration\_linked\_recode**

Value

Standard Att Label	Final Recoded trip duration: minutes (obtained by taking the difference between arrival time and departure time)
Type	Numeric
Measuremer	Scale
Labeled Val -99	Not Applicable; Either departed before 3AM or arrived at or after 3AM next day

**travelers\_total\_linked**

Value

Standard Att Label	Total number of travelers on trip including self
Type	Numeric
Measuremer	Nominal

**travelers\_hh\_linked**

Value

Standard Att Label	Household members on trip including self
Type	Numeric
Measuremer	Nominal

## Codebook - Linked Trip File

**travelers\_nonhh\_linked**

Value

Standard Att Label	Non-household members on trip
Type	Numeric
Measuremer	Nominal
Valid Values 0	Nobody (0 people)
1	1 person
2	2 people
3	3 people
4	4 people
5	5 or more people

**o\_purpose\_recode\_3\_linked**

Value

Standard Att Label	Primary purpose at trip origin
Type	Numeric
Measuremer	Nominal
Valid Values 1	Go home
2	Go to primary workplace
3	Go to other work-related place
4	Attend school/class
5	Other school-related activity
6	Grocery shopping
7	Do other shopping (e.g. mall, hardware store)
8	Run errands (e.g. bank, haircut)
9	Go to restaurant/bar/get take-out
10	Drop off/pick up/accompany other person
11	Exercise (e.g. gym, walk, jog/run)
12	Family activity (e.g. child's game)
13	Medical visit (e.g. doctor, dentist)
14	Social (e.g. visit friends/relatives)
15	Leisure/entertainment (e.g. movies)
16	Religious/civic/volunteer
17	Vacation/holiday/traveling (e.g. hotel)
18	Change travel mode (e.g. wait for bus, change planes)
19	Home other
20	Go to airport/switch airport
97	Other

## Codebook - Linked Trip File

**d\_purpose\_recode\_3\_linked**

Value

Standard Att Label	Primary purpose at trip destination
Type	Numeric
Measureme	Nominal
Valid Values 1	Go home
2	Go to primary workplace
3	Go to other work-related place
4	Attend school/class
5	Other school-related activity
6	Grocery shopping
7	Do other shopping (e.g. mall, hardware store)
8	Run errands (e.g. bank, haircut)
9	Go to restaurant/bar/get take-out
10	Drop off/pick up/accompany other person
11	Exercise (e.g. gym, walk, jog/run)
12	Family activity (e.g. child's game)
13	Medical visit (e.g. doctor, dentist)
14	Social (e.g. visit friends/relatives)
15	Leisure/entertainment (e.g. movies)
16	Religious/civic/volunteer
17	Vacation/holiday/traveling (e.g. hotel)
18	Change travel mode (e.g. wait for bus, change planes)
19	Home other
20	Go to airport/switch airport
97	Other

**t\_purpose\_recode\_linked**

Value

Standard Att Label	Overall trip purpose
Type	String
Measureme	Nominal
Valid Values WB	Work Based (work/work related to any/from any non-home purpose)
HH	Home Based Home (home to/from home loop trip)
WW	Work Based Work (primary workplace to/from primary workplace loop trip)
NHB	Non Home Based (any non-home, non-work to/from any non-home, non work)
HBO	Home Based Other (home to/from any other purpose)
HBW	Home Based Work (home to/from work/work-related)
HBSoc	Home Based Social Recreation (home to/from social recreation activity)
HBEsc	Home Based Escorting (home to/from drop off/pick up/accompany other person)
HBSch	Home Based School (home to/from school/other school related)
HHOth	Home Based Home Other (home to/from home other)
HBMel	Home Based Meal (home to/from restaurant/bar/get take-out)
HBShp	Home Based Shopping (home to/from grocery shopping/other shopping)
HBPer	Home Based Personal Business (home to/from personal business)

## Codebook - Linked Trip File

**primary\_mode\_linked**

Value

Standard Att Label	Main way traveled on trip	
Type	Numeric	
Measuremer	Nominal	
Valid Values	1	Walk/jog/wheelchair
	2	Bicycle
	3	Vehicle in household
	4	Other vehicle (e.g. rental, friend's car)
	5	Regular taxi or hired car service
	6	Ride-share taxi/car service (e.g. Uber, Lyft)
	7	Vanpool
	8	School bus
	9	Public (city) bus
	10	Train (e.g. Amtrak)
	11	Shuttle (e.g. a hotel's, an airport's)
	12	Paratransit
	13	Commuter Rail (e.g. Metro North)
	14	Subway
	15	Intercity bus (e.g. Greyhound)
	16	Ferry/water taxi/boat
	17	Airplane/helicopter
	97	Other

**primary\_mode\_category\_linked**

Value

Standard Att Label	USE RECODED VERSION: Main way traveled on trip, aggregated	
Type	Numeric	
Measuremer	Nominal	
Valid Values	1	SOV (single-occupant vehicle)
	2	Family carpool (HH or Other vehicle, only HH members in travel party)
	3	Other carpool (HH or Other vehicle, includes at least one non-HH member)
	4	Walk or Bike
	5	Taxi (traditional or rideshare)
	6	Public transit (bus, train, paratransit, commuter rail, subway, intercity bus)
	97	Other (vanpool, school bus, shuttle, ferry/boat, airplane, other)

**mode\_across\_legs\_string**

Value

Standard Att Label	Main way traveled on "linked" trip, concatenated	
Type	String	
Measuremer	Nominal	
Valid Values	1	Walk/jog/wheelchair
	2	Bicycle
	3	Vehicle in household
	4	Other vehicle (e.g. rental, friend's car)
	5	Regular taxi or hired car service
	6	Ride-share taxi/car service (e.g. Uber, Lyft)
	7	Vanpool
	8	School bus
	9	Public (city) bus
	10	Train (e.g. Amtrak)
	11	Shuttle (e.g. a hotel's, an airport's)
	12	Paratransit
	13	Commuter Rail (e.g. Metro North)
	14	Subway
	15	Intercity bus (e.g. Greyhound)
	16	Ferry/water taxi/boat
	17	Airplane/helicopter
	97	Other

## Codebook - Linked Trip File

**mode\_hhauto\_linked**

Value

Standard Att Label	HH or Other Vehicle: Vehicle used
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	HH vehicle 1
2	HH vehicle 2
3	HH vehicle 3
4	HH vehicle 4
5	HH vehicle 5
6	HH vehicle 6
7	HH vehicle 7
8	HH vehicle 8
9	HH vehicle 9
10	HH vehicle 10
11	Rental car
12	Car from work
13	Friend/relative's car
14	Carshare vehicle (e.g. Car2Go)
15	Motorcycle/moped/scooter

**driver\_linked**

Value

Standard Att Label	HH or Other Vehicle, or Vanpool: If age 16+ and licensed travel party > 1: Was driver or passenger on trip
Type	Numeric
Measuremer	Nominal
Valid Values 1	Driver
2	Passenger
3	Both (switched drivers during trip)

**hov\_use\_linked**

Value

Standard Att Label	HH or Other vehicle, Vanpool, Taxi or Rideshare: If ever uses HOV and travel party > 1: Used HOV lane on trip
Type	Numeric
Measuremer	Nominal
Valid Values 1	Yes
2	No

**tollroad\_use\_linked**

Value

Standard Att Label	HH or Other vehicle, Vanpool, Taxi or Rideshare: If ever uses toll road: Toll road used on trip
Type	Numeric
Measuremer	Nominal
Valid Values 1	Yes
2	No

**tollroad\_cost\_linked**

Value

Standard Att Label	If used toll road for this trip: Toll road cost for trip (dollars)
Type	Numeric
Measuremer	Scale
Labeled Val. -99	Not Applicable

**tollroad\_cost\_dk\_linked**

Value

Standard Att Label	Toll road cost for trip: don't know
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not selected
1	Selected

## Codebook - Linked Trip File

**park\_loc\_linked**

Value

Standard Att Label	HH or Other vehicle, or Vanpool: If age 16+: Parking location at destination
Type	Numeric
Measuremer	Nominal
Valid Values 1	Own driveway/garage
2	Someone else's driveway
3	Parking lot/garage at destination (within 2 blocks)
4	Parking lot/garage 2+ blocks away from destination
5	On street parking at destination (within 2 blocks)
6	On street parking 2+ blocks away from destination
7	Park & ride lot
8	Didn't park (waited, drop-off, drive-thru)
9	Other

**park\_pay\_linked**

Value

Standard Att Label	Parked on street or in a lot/garage: If ever pays for parking: How paid for parking at destination
Type	Numeric
Measuremer	Nominal
Valid Values 1	No, parking was free
2	Yes, with cash/tickets
3	Yes, with parking pass
4	No, another person paid or was reimbursed
5	Not sure/don't remember

**park\_cost\_linked**

Value

Standard Att Label	If paid with cash/tickets: Cost of parking at destination (dollars)
Type	Numeric
Measuremer	Scale
Labeled Val -99	Not Applicable

**park\_cost\_dk\_linked**

Value

Standard Att Label	Parking cost for trip: don't know
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not selected
1	Selected

**taxi\_cost\_linked**

Value

Standard Att Label	Taxi or Rideshare: Cost of taxi for trip (dollars)
Type	Numeric
Measuremer	Scale
Labeled Val -99	Not Applicable
0	Not Selected
1	Selected

**taxi\_cost\_dk\_linked**

Value

Standard Att Label	Cost of taxi for trip: don't know
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not selected
1	Selected

## Codebook - Linked Trip File

**transit\_access\_linked**

Value

Standard Att Label	Public Bus, Commuter Rail, Subway, Train or Intercity Bus: Transit access mode
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	Walked or jogged/ Rode a bike
2	Drove and parked a car/ Got dropped off
5	Took a taxi/ Ride share (e.g. Uber, Lyft)
6	Transferred from other transit
7	Was already at destination
8	Other

**transit\_egress\_linked**

Value

Standard Att Label	Public Bus, Commuter Rail, Subway, Train or Intercity Bus: Transit egress mode
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	Walked or jogged/ Rode a bike
2	Drove and parked a car/ Got dropped off
5	Took a taxi/ Ride share (e.g. Uber, Lyft)
6	Transferred from other transit
7	Was already at destination
8	Other

**transit\_pay\_linked**

Value

Standard Att Label	USE RECODED VERSION: Public Bus, Commuter Rail, Subway, Train or Intercity Bus: How paid for transit on trip
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	Unlinked Trip: Free (no cost)
2	Unlinked Trip: Cash or ticket(s)
3	Unlinked Trip: Stored value card
4	Unlinked Trip: Used pass (any type)
5	Unlinked Trip: Not sure/don't remember
6	Unlinked Trip: Other
888	Linked Trip: Did not pay
999	Linked Trip: Paid

**transit\_cost\_linked**

Value

Standard Att Label	Public Bus, Commuter Rail, Subway, Train or Intercity Bus: Cost of transit for trip (dollars)
Type	Numeric
Measuremer	Scale
Labeled Val. -99	Not Applicable

**transit\_cost\_dk\_linked**

Value

Standard Att Label	Cost of transit for trip: don't know
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not selected
1	Selected



## Codebook - Linked Trip File

**transit\_transfers\_linked**

Value

Standard Att Label	Count of transit transfers made
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable

**transit\_system\_linked**

Value

Standard Att Label	transit system used, concatenated
Type	String
Measuremer	Nominal
Valid Values -99	Not Applicable

**transit\_line\_linked**

Value

Standard Att Label	transit line used, concatenated
Type	String
Measuremer	Nominal
Valid Values -99	Not Applicable

**gdistance\_linked**

Value

Standard Att Label	Driving distance (miles) from origin to destination (Google estimate)
Type	Numeric
Measuremer	Scale

**gduration\_linked**

Value

Standard Att Label	Driving travel time (minutes) from origin to destination (Google estimate)
Type	Numeric
Measuremer	Scale

**hhmemberrnone\_linked**

Value

Standard Att Label	If household size > 1: No household member was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	No
1	Yes

**hhmember1\_linked**

Value

Standard Att Label	Household member 1 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values 0	Not Selected
1	Selected

**hhmember2\_linked**

Value

Standard Att Label	Household member 2 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

## Codebook - Linked Trip File

**hhmember3\_linked**

Value

Standard Att Label	Household member 3 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember4\_linked**

Value

Standard Att Label	Household member 4 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember5\_linked**

Value

Standard Att Label	Household member 5 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember6\_linked**

Value

Standard Att Label	Household member 6 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember7\_linked**

Value

Standard Att Label	Household member 7 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**hhmember8\_linked**

Value

Standard Att Label	Household member 8 was in the travel party
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
0	Not Selected
1	Selected

**final\_weights**

Value

Standard Att Label	Readjusted weights matching marginal distributions of household and person variables of interest (modeled)
Type	Numeric
Measuremer	Scale

## Codebook - Linked Trip File

**tourid**

Value

Standard Att Label	Tour ID (Unique)
Type	Numeric
Measuremer	Nominal

**transit\_pay\_linked\_recode**

Value

Standard Att Label	Final Recoded Public Bus, Commuter Rail, Subway, Train or Intercity Bus: How paid for transit on trip
Type	Numeric
Measuremer	Nominal
Valid Values -99	Not Applicable
1	Did not pay
2	Paid

**primary\_mode\_category\_linked\_recode**

Value

Standard Att Label	Final Recoded Main way traveled on trip, aggregated
Type	Numeric
Measuremer	Nominal
Valid Values 1	SOV (single-occupant vehicle)
2	Family carpool (HH or Other vehicle, only HH members in travel party)
3	Other carpool (HH or Other vehicle, includes at least one non-HH member)
4	Walk or Bike
5	Taxi (traditional or rideshare)
6	Public transit (bus, train, paratransit, commuter rail, subway, intercity bus)
97	Other (vanpool, school bus, shuttle, ferry/boat, airplane, other)