Southern California Association of Governments Regional Travel Survey: Lookup Table

Transportation Secure Data Center

Revised: 2016-12-05

Summary Statistics

Travel Diary	Households	16,939
	Persons	40,376
Vehicle GPS	Households	459
	Vehicles	612
	Days of Travel	1,164
	GPS Frequency (Hz)	1
Vehicle OBD	Households	
	Vehicles	
	Days of Travel	
	GPS Frequency (Hz)	
Wearable GPS	Households	
	Persons	
	Days of Travel	
	GPS Frequency (Hz)	

Blank fields indicate data is not present for this study.

Survey Tables

survey_place

The survey_place table contains records of each place visited during the sample period. The place number is unique to each person.

Name	Data Type	Comment
sampno	numeric	Unique identification number of the household visiting the place
perno	smallint	Unique identification number of the person visiting the place
vehno	smallint	Unique identification number of the vehicle used if auto trip
dayno	smallint	The day the place was visited
plano	smallint	Unique identification number of the place
locno	numeric	Unique identification number of the location being visited
trp_act1	smallint	Primary trip purpose
trp_act2	smallint	Secondary trip purpose
trp_act3	smallint	Third trip purpose
trp_act4	smallint	Fourth trip purpose
place_type	smallint	Destination of the trip: 1- Home, 2- Primary school location, 3- Second school location, 4- Primary work place, 5- Second work place, 7- Other place, 9- Out of the travel study area

mode	smallint	Mode of transportation taken for the trips: 1- Walk, 2- Bicycle, 3- Drove, 4- Passenger in car/truck/van, 5- Local bus or community bus, 6- Express bus, 7- Metro blue line, 8- Metro green line, 9- Metro red line, 10- Commuter rail (Metrolink, Amtrak), 11- Dial-A-Ride/Paratransit, 12- School bus, 13- Greyhound bus, 14- Taxi/Shuttle Bus/Limousine, 15- Motorcycle/Moped, 97- Other, 99- DK/RF
othmode	character varying	Other mode type
vehavail	smallint	Indicates a vehicle has access to a vehicle: 1- Yes, 2- No, 8- DK, 9- RF
transrte	character varying	Route taken if public transportation was used
party	integer	The number of member in the traveling party
hh_mem	integer	The number of household members on the trip
pertp	character varying	The number of persons on the trip
nonhh	integer	The number of non-household persons on the trip
wlkbkdis	integer	Walking or biking distance (in blocks)
prk_cost	integer	The cost of parking for the trip
prk_unit	integer	Indicates the persons parking rate payment increment: 1- Daily, 2- Weekly, 3- Monthly, 4- Annually, 7- Other, 9- DK/RF
prk_mthd	double precision	Indicates the method of payment for parking: 0- Did not use any method to pay, 1- Cash, 2- Credit card, 3- Payroll deduction/employee pass, 4- Validated parking ticket, 7- Other, 9- DK/RF
fare	double precision	The fare paid if the trip used transit
faremthd	double precision	Indicates the fare payment method if the trip used public transportation: 1- Cash, 2- Credit card, 3- Bus/Train pass, 4- Transfer, 7- Other, 9- DK/RF
board	character varying	The location of the public transit origin
access	double precision	The method of transportation to the public transit stop: 1- Walk, 2- Drove car and parked, 3- Was dropped off, 4- Rode bike, 5- Transferred from another bus or train, 7- Other, 9- DK/RF
alght	character varying	The location of the public transit destination
egress	double precision	Indicates the egress or method of transportation following arrival, from bus/rail stops: 1- Walk, 2- Drove car and parked, 3- Was dropped off, 4- Rode bike, 5- Transferred from another bus or train, 7- Other, 9- DK/RF
systm	character varying	The transportation system used for the trip
arrive	integer	The arrival time of the trip
depart	integer	The departure time of the trip
trpdur	integer	Trip duration, calculated as the arrival time at place n minus the departure time from place n-1 (in minutes)
actdur	integer	Activity duration, calculated as the departure time from place n minus the arrival time at that same place n (in minutes)
spdflag	smallint	Flag to indicate the outcome of the speed check comparing reported travel times with the distance travelled
finwgt	smallint	Final data weight applied to the place
expwgt	smallint	Final expansion weight applied to the place
scag_oid	smallint	Original study sample ID
rectype	smallint	Identifies the type of record for the place. Contains multiple values indicating a linked trip (4) or an unlinked trip (9).
geom*	geometry	

survey_vehicles

The survey_vehicles table contains detailed vehicle information for the vehicles described in the survey portion of the study (a subset of the total vehicles in the study). Of the vehicle records described, a smaller portion also contain GPS travel data.

Name	Data Type	Comment
sampno	numeric	Household identifier
vehno	smallint	Vehicle number
make	smallint	Vehicle make (see lookup_vehiclemake table)
veh_year	smallint	Vehicle year: RANGE: 1930-2013, 8888- DK, 9999- RF
body_type	smallint	Vehicle body type: 1- Auto, 2- Van, 3- RV, 4- Sport utility vehicle, 5- Pick-Up truck, 6- Other truck, 7- Motorcycle/Moped, 97- Other, 99- DK/RF
fuel	smallint	Fuel type: 1- Gasoline, 2- Diesel, 3- Electric/Electric battery, 7- Other (specify), 8- DK, 9- RF
own	smallint	Vehicle ownership: 1- Owned by a household member, 2- Owned by a person not in your household, 3- Leased, 8- DK, 9- RF
lease	smallint	Who leases the vehicle (If ownership=3)? (1- A household member, 2- An employer, 7- Someone else, 8- DK)
acquire	smallint	Year the vehicle was acquired
finwgt	double precision	Final data weight applied to the unlinked trips
expwgt	double precision	Final expansion weight applied to the unlinked trips
scag_oid	smallint	Original study sample identifier
rectype	smallint	Identifies the type of record (vehicle)- contains a single distinct value
geom*	geometry	Geometric point data

survey_linkedtrips

Using criteria provided by SCAG, NuStats conducted an initial reduction of the unlinked trip segment file to link or join trips into a higher order of purpose. This reduction was preliminary and was performed to allow for comparison of the current survey results to previous SCAG surveys. It is anticipated that further reduction will be necessary prior to modelling the linked trip data. This file contains the same travel variables as the place and unlinked trip segment file.

Name	Data Type	Comment
sampno	numeric	Unique identification number of the household
perno	smallint	Unique identification number of a person
vehno	smallint	Unique identification number of the vehicle used if auto trip
party	smallint	The number of members in the traveling party
dayno	smallint	The day the place was visited
tripno	smallint	An integer indicating the order the trip was recorded in
optype	smallint	The origin place type of the trip: 1- Home, 2- Primary school location, 3- Second school location, 4- Primary work place, 5- Second work place, 7- Other place, 9- Out of the travel study area
olocno	numeric	Unique identification number of the origin location for the trip

oact1	smallint	The primary trip purpose for the origin
oact2	smallint	The secondary trip purpose for the origin
oact3	smallint	The third trip purpose for the origin
oact4	smallint	The fourth trip purpose for the origin
depart	integer	The departure time of the trip
arrive	integer	The arrival time of the trip
dptype	smallint	The destination place type of the trip: 1- Home, 2- Primary school location, 3- Second school location, 4- Primary work place, 5- Second work place, 7- Other place, 9- Out of the travel study area
dlocno	numeric	Unique identification number of the destination location for the trip
trpdur	integer	Trip duration (in minutes)
dact1	smallint	The primary trip purpose for the destination
dact2	smallint	The secondary trip purpose for the destination
dact3	smallint	The third trip purpose for the destination
dact4	smallint	The fourth trip purpose for the destination
mode	smallint	Mode of transportation taken for the trips: 1- Walk, 2- Bicycle, 3- Drove, 4- Passenger in car/truck/van, 5- Local bus or community bus, 6- Express bus, 7- Metro blue line, 8- Metro green line, 9- Metro red line, 10- Commuter rail (Metrolink, Amtrak), 11- Dial-A-Ride/Paratransit, 12- School bus, 13- Greyhound bus, 14- Taxi/Shuttle Bus/Limousine, 15- Motorcycle/Moped, 97- Other, 99- DK/RF
vehavail	smallint	Indicates a person has access to a vehicle: 1- Yes, 2- No, 8- DK, 9- RF
transrte	character varying	Route taken if public transportation was used
hh_mem	smallint	The number of household members on the trip
pertp	character varying	The number of persons on the trip
nonhh	smallint	The number of non-household persons on the trip
wlkbkdis	smallint	Walking or biking distance (in blocks)
prk_cost	smallint	The cost of parking for the trip
prk_unit	smallint	Indicates the persons parking rate payment increment: 1- Daily, 2- Weekly, 3- Monthly, 4- Annually, 7- Other, 9- DK/RF
prk_mthd	smallint	Indicates the method of payment for parking: 0- Did not use any method to pay, 1- Cash, 2- Credit card, 3- Payroll deduction/employee pass, 4- Validated parking ticket, 7- Other, 9- DK/RF
fare	smallint	The fare paid if the trip used transit
faremthd	smallint	Indicates the fare payment method if the trip used public transportation: 1- Cash, 2- Credit card, 3- Bus/Train Pass, 4- Transfer, 7- Other, 9- DK/RF
arbus	smallint	The arrival bus route if public transportation used
depbus	smallint	The departure bus route if public transportation used
board	character varying	The location of the public transit origin
access	smallint	The method of transportation to the public transit stop: 1- Walk, 2- Drove car and parked, 3- Was dropped off, 4- Rode bike, 5- Transferred from another bus or train, 7- Other, 9- DK/RF
alght	character varying	The location of the public transit destination

egress	smallint	Indicates the egress, or method of transportation following arrival, from bus/rail stops: 1- Walk, 2- Drove car and parked, 3- Was dropped off, 4- Rode Bike, 5- Transferred from another bus or train, 7- Other, 9- DK/RF
systm	character varying	The transportation system used for the trip
spdflag	smallint	Flag to indicate the outcome of the speed check comparing reported travel times with the distance travelled
newmode	smallint	Flag to indicate a new mode of transportation
moact	smallint	Activity duration, calculated as the departure time from place n minus the arrival time at that same place n (in minutes)- origin
mdact	smallint	Activity duration, calculated as the departure time from place n minus the arrival time at that same place n (in minutes)- destination
ttype	smallint	Transportation type: 1- Auto, 2- Van, 3- RV, 4- sports utility vehicle, 5- Pickup trip, 6- Other truck, 7- Motorcycle, 97- Other truck, 99- DK/RF
weekday	smallint	The trip occurred on a weekday: 1- Yes, 2- No
external	smallint	N/A
ageflag	smallint	1- Yes, 2- No
flg_driv	smallint	1- Yes, 2- No
flg_moto	smallint	1- Yes, 2- No
finwgt	double precision	Final data weight applied to the unlinked trips
expwgt	double precision	Final expansion weight applied to the unlinked trips
geom*	geometry	Geometric linestring

survey_unlinkedtrips

The survey_unlinkedtrips table contains records from trip segments which were not linked in the survey_linkedtrips table.

Name	Data Type	Comment
sampno	numeric	Unique identification number of the household
perno	smallint	Unique identification number of a person
vehno	smallint	Unique identification number of the vehicle used if auto trip
dayno	smallint	The day the place was visited
tripno	smallint	An integer indicating the order the trip was recorded in
dlocno	numeric	Unique identification number of the destination location for the trip
rectype	integer	Identifies the type of record (unlinked trip)- contains a single distinct value
dact1	smallint	The primary trip purpose for the destination
dact2	smallint	The secondary trip purpose for the destination
dact3	smallint	The third trip purpose for the destination
dact4	smallint	The fourth trip purpose for the destination
dptype	smallint	Destination place type of the trip: 1- Home, 2- Primary school location, 3- Second school location, 4- Primary work place, 5- Secondary work place, 7- Other place, 9- Out of the travel study area

mode	smallint	Mode of transportation taken for the trips: 1- Walk, 2- Bicycle, 3- Drove, 4- Passenger in car/truck/van, 5- Local bus or community bus, 6- Express bus, 7- Metro blue line, 8- Metro green line, 9- Metro red line, 10- Commuter rail (Metrolink, Amtrak), 11- Dial-A-Ride/Paratransit, 12- School bus, 13- Greyhound bus, 14- Taxi/Shuttle Bus/Limousine, 15- Motorcycle/Moped, 97- Other, 99- DK/RF
vehavail	smallint	Indicates a vehicle has access to a vehicle: 1- Yes, 2- No, 8- DK, 9- RF
transrte	character varying	Route taken if public transportation was used
party	smallint	The number of member in the traveling party
hh_mem	smallint	The number of household members on the trip
pertp	character varying	The number of persons on the trip
nonhh	smallint	The number of non-household persons on the trip
wlkbkdis	smallint	Walking or biking distance (in blocks)
prk_cost	smallint	The cost of parking for the trip
prk_unit	smallint	Indicates the persons parking rate payment increment: 1- Daily, 2- Weekly, 3- Monthly, 4- Annually, 7- Other, 9- DK/RF
prk_mthd	smallint	Indicates the method of payment for parking: 0- Did not use any method to pay, 1- Cash, 2- Credit Card, 3- Payroll deduction/employee pass, 4- Validated parking ticket, 7- Other, 9- DK/RF
fare	smallint	The fare paid if the trip used transit
faremthd	smallint	Indicates the fare payment method if the trip used public transportation: 1- Cash, 2- Credit card, 3- Bus/Train pass, 4- Transfer, 7- Other, 9- DK/RF
board	character varying	The location of the public transit origin
access	smallint	The method of transportation to the public transit stop: 1- Walk, 2- drove car and parked, 3- Was dropped off, 4- Rode bike, 5- Transferred from another bus or train, 7- Other, 9- DK/RF
alght	character varying	The location of the public transit destination
egress	smallint	Indicates the egress, or method of transportation following arrival, from bus/rail stops: 1- Walk, 2- Drove car and parked, 3- Was dropped off, 4- Rode bike, 5- Transferred from another bus or train, 7- Other, 9- DK/RF
systm	character varying	The transportation system used for the trip
arrive	smallint	Arrival time of the trip
trpdur	integer	Trip duration, calculated as the arrival time at place n minus the departure time from place n-1 (in minutes)
actdur	integer	Activity duration, calculated as the departure time from place n minus the arrival time at that same place n (in minutes)
spdflag	smallint	Flag to indicate the outcome of the speed check comparing reported travel times with the distance travelled
olocno	numeric	Unique identification number of the origin location for the trip
oact1	smallint	Primary trip purpose for the origin
oact2	smallint	Secondary trip purpose for the origin
oact3	smallint	Third trip purpose for the origin
oact4	smallint	Fourth trip purpose for the origin
optype	smallint	The origin place type of the trip. Values include 1 = Home, 2 = Primary school location, 3 = Second school location, 4 = Primary work place, 5 = Second work place, 7 = Other Place, 9 = Out of the travel study area

depart	integer	Departure time of the trip
finwgt	double precision	Final data weight applied to the unlinked trips
expwgt	double precision	Final expansion weight applied to the unlinked trips

survey_locations

The survey_locations table is a spatial table including each address referenced during the course of the study. A unique location number is assigned and placed in the primary file. This unique location identifier links the survey_household and survey_person table to the corresponding location record contained within this table.

Name	Data Type	Comment
loctype	smallint	Identifies the type of location: 1- Home, 2- School, 3- Work: primary, 4- Work: secondary, 5- Trip
av_status	character varying	Flag to indicate the outcome of the geocoding process
rsa	smallint	Regional Statistical Area (RSA) of the location
tract*	numeric	Census tract associated with the latitude and longitude to the reported address
fips*	numeric	Unique identification number for the census tract
locno	numeric	Unique identification number of the location
fipstract*	numeric	Unique identification number for the census tract
x_coord*	double precision	Longitude coordinate
y_coord*	double precision	Latitude coordinate
rectype	smallint	Identifies the type of record (location)- contains a single distinct value (5)
geom*	geometry	The geometric reference information for the line interpreted using PostGIS

survey_households

The survey_households table includes data from households that participated in the travel survey (a subset of the total households that participated in the study). Of the total households that completed the travel survey, a smaller portion were included in a GPS sample.

Name	Data Type	Comment
sampno	numeric	Household identifier
locno	numeric	Unique identification number of the location the household is located in
sample_type	double precision	Identifies the sample type 1 through 5 (base, weekend, Caltrans, RSA, or mode user augment sample)
rectype	double precision	Identifies the type of record
home_county_id	double precision	County of residence
home_rsa	double precision	Regional statistical area (RSA) of residence
home_address*	double precision	Household address code used to links to address details in the location table

home_size	double precision	Number of household members
phone_line_count	double precision	Number of household telephone lines
fmlin	double precision	Fax or modem (If no_phlns¿1)
phone_service	double precision	Without phone service in past 12 months: if income¡$50k or refused (values include 1- Yes, 2- No, 8- DK, 9- RF)
length	double precision	How long without service: if nophn=1 (values include 1- less than 1 month, 2- 1 month to less than 1 year, 3- 1 year or longer, 8- DK
mode1	smallint	Mode of transportation used in past 7 days by any household member (response 1): 0 - None, 1 - Park-n-Ride to Metrorail, 2- Park-n-Ride to express bus, 3- Metrolink, 4- Toll road, 5- Metrorail (red, green, and blue), 6- Express bus, 7- Local or community bus, 9- DK/RF
mode2	smallint	Mode of transportation used in past 7 days by any household member (response 2): 0 - None, 1 - Park-n-Ride to Metrorail, 2- Park-n-Ride to express bus, 3- Metrolink, 4- Toll road, 5- Metrorail (red, green, and blue), 6- Express bus, 7- Local or community bus, 9- DK/RF
mode3	smallint	Mode of transportation used in past 7 days by any household member (response 3): 0 - None, 1 - Park-n-Ride to Metrorail, 2- Park-n-Ride to express bus, 3- Metrolink, 4- Toll road, 5- Metrorail (red, green, and blue), 6- Express bus, 7- Local or community bus, 9- DK/RF
mode4	smallint	Mode of transportation used in past 7 days by any household member (response 4): 0 - None, 1 - Park-n-Ride to Metrorail, 2- Park-n-Ride to express bus, 3- Metrolink, 4- Toll road, 5- Metrorail (red, green, and blue), 6- Express bus, 7- Local or community bus, 9- DK/RF
vehicle_count	double precision	Number of household vehicles
visitors	double precision	Overnight visitors (flag for whether there were overnight visitors): 1- Yes, 2- No, 9- DK/RF
visitor_count	double precision	How many visitors: RANGE: 0-8, 9 = DK/RF
bike_count	double precision	Number of household bicycles: RANGE: 0-15, 98=DK, 99=RF
residence_type	smallint	Residence type: 1- Single-family detached house, 2- Single-family attached house (duplex/townhouse/rowhouse), 3- Apartment or condo, 4- Mobile home or trailer, 5- Boat/RV/Van, 6- Dorm Room/Fraternity/Sorority house, 97- Some other type of housing, -7=RF, -8=DK
residence_type_other	character varying	Other type of dwelling (if residence type=other, specify)
own	smallint	Owner/Renter status: 1- Own/Buying, 2- Rent, 7- Other, 8- DK, 9- RF
tenure	double precision	Months live at home location: RANGE: 0-97, 98- DK, 99- RF
lang1	smallint	Language(s) spoken in the home (response 1): 1- English, 2- Spanish, 3- Tagalog, 4- Chinese (Mandarin/Cantonese), 5- Japanese, 6- Vietnamese, 7- Cambodian, 8- Korean, 97- Other, 98- DK
lang2	smallint	Language(s) spoken in the home (response 2): 1- English, 2- Spanish, 3- Tagalog, 4- Chinese (Mandarin/Cantonese), 5- Japanese, 6- Vietnamese, 7- Cambodian, 8- Korean, 97- Other, 98- DK
lang3	smallint	Language(s) spoken in the home (response 3): 1- English, 2- Spanish, 3- Tagalog, 4- Chinese (Mandarin/Cantonese), 5- Japanese, 6- Vietnamese, 7- Cambodian, 8- Korean, 97- Other, 98- DK
income_cat	smallint	Household income category: 1- Above $50K, 2- Below $50K, 9 DK/RF

income	smallint	Total 2000 annual household income: 1- Less than $10,000, 2- $10,000 to $24,999, 3- $25,000 to $34,9994- $35,000 to $49,999, 5- $50,000 to $74,999, 6- $75,000 to $99,999, 7- $100,000 to $149,999, 8- $150,000 or More, 9- DK/RF
equip1	smallint	Equipment used in home (response 1): 0- None, 1- Portable cellular telephone, 2- Fax machine, 3- Desktop or laptop computer, 4- Web TV, 5- Answering machine/voice mail, 6- Caller ID, 7- Call blocking, 8- Internet, 9- RF
equip2	smallint	Equipment used in home (response 2): 0- None, 1- Portable cellular telephone, 2- Fax machine, 3- Desktop or laptop computer, 4- Web TV, 5- Answering machine/voice mail, 6- Caller ID, 7- Call blocking, 8- Internet, 9- RF
equip3	smallint	Equipment used in home (response 3): 0- None, 1- Portable cellular telephone, 2- Fax machine, 3- Desktop or laptop computer, 4- Web TV, 5- Answering machine/voice mail, 6- Caller ID, 7- Call blocking, 8- Internet, 9- RF
equip4	smallint	Equipment used in home (response 4): 0- None, 1- Portable cellular telephone, 2- Fax machine, 3- Desktop or laptop computer, 4- Web TV, 5- Answering machine/voice mail, 6- Caller ID, 7- Call blocking, 8- Internet, 9- RF
equip5	smallint	Equipment used in home (response 5): 0- None, 1- Portable cellular telephone, 2- Fax machine, 3- Desktop or laptop computer, 4- Web TV, 5- Answering machine/voice mail, 6- Caller ID, 7- Call blocking, 8- Internet, 9- RF
equip6	smallint	Equipment used in home (response 6): 0- None, 1- Portable cellular telephone, 2- Fax machine, 3- Desktop or laptop computer, 4- Web TV, 5- Answering machine/voice mail, 6- Caller ID, 7- Call blocking, 8- Internet, 9- RF
equip7	smallint	Equipment used in home (response 7): 0- None, 1- Portable cellular telephone, 2- Fax machine, 3- Desktop or laptop computer, 4- Web TV, 5- Answering machine/voice mail, 6- Caller ID, 7- Call blocking, 8- Internet, 9- RF
equip8	smallint	Equipment used in home (response 8): 0- None, 1- Portable cellular telephone, 2- Fax machine, 3- Desktop or laptop computer, 4- Web TV, 5- Answering machine/voice mail, 6- Caller ID, 7- Call blocking, 8- Internet, 9- RF
gps_sample	double precision	Administrative variable to indicate that the household has GPS data
phase	double precision	Data collection phase
day1	double precision	Day of week HHTRIPSD1 occurred
day2	double precision	Day of week HHTRIPSD2 occurred
trip_count_day1	double precision	Sum of the number of trips made by the household on day 1 (if the household reported zero trips, there will only be a place 1 record for each household member in the place file)
trip_count_day2	double precision	Sum of the number of trips made by the household on day 2 (if the household reported zero trips, there will only be a place 1 record for each household member in the place file)
worker_count	double precision	Number of household workers (summed from the person file for all cases with emply=1 for a given sample number)
student_count	double precision	Number of household students (summed from the person file for all cases with stud=1 for a given sample number)
mtrips	double precision	Flag to indicate that the household was a partial complete (criteria included household size ¿3 and only 1 household member did not report data)
move	double precision	Indicates household moved: 1- Yes, 0- No (no documentation is available for this attribute, only 6 households from the approximately 17,000 surveyed moved)

finwgt	double precision	Final data weight applied to the households
expwgt	double precision	Final expansion weight applied to the household
fipstract*	numeric	Unique identification number of the census tract the household is located in
geom*	geometry	Geometric point where location= home

survey_person

The survey_person table contains one record for each study participant. Demographic information for each person is included.

Name	Data Type	Comment
sampno	numeric	Unique identification number of the household
perno	smallint	Unique identification number of a person
w1_addr*	numeric	Work 1: Reference number
w2_addr*	numeric	Work 2: Reference number
s1_addr*	numeric	School 1: Reference number
age*	smallint	Age: 1 = 0-9, 2 = 10-19, 3 = 20-29, 4 = 30-39, 5 = 40-49, 6 = 50-59, 7 = 60-69, 8= 70-79, 9 = 80-89, 10 = 90-99, 99= 99+, 998 = DK, 999 = RF (Column only available in web download).
nrel_agebin	integer	NREL derived age bins for public distribution: 1= ¡16 YO, 2= 16-25 YO, 3= 26-35 YO, 4= 36-45 YO, 5= 46-55 YO, 6= 56-65 YO, 7= 66-79 YO, 8= 80+ YO, 998= DK, 999= RF
gender	smallint	Gender of person: 1- Male, 2- Female, 9- RF
driver_license	smallint	Indicates the person has a valid drives license: 1- Yes, 2- No, 8- DK, 9- RF
resp	smallint	Flag indicating main household respondent: 1- Yes, 2- No
relation	smallint	Relationship to respondent: 1- Self, 2- Spouse/Partner, 3- Son/Daughter, 4- Mother/Father/Mother in-law/father in-law, 5- Other relative, 6- Live-in help, 7- Not related, 9- DK/RF
employment	smallint	Indicates the persons employment status: 1- Yes, 2- No, 9- DK/RF
primact	smallint	Indicates the persons life status (if age ¿ 15 and emply = 2 or 9): 1- Retired, 2- Disability status, 3- Homemaker, 4 - Unemployed, 7- Other, 9- DK/RF
race	smallint	Indicates the persons ethnicity: 1- White/Not Hispanic, 2- Hispanic, 3- African American, 4- Asian/Pacific Islander, 7- Other, 9- DK/RF
disabled	smallint	Indicates the person disability status: 1- Yes, 2- No, 9- DK/RF
disability	smallint	Type of disability (If disab = 1): 1- None, 2- Difficulty standing/walking/climbing stairs, 3- Visually impaired/blind, 4- Hearing impaired/deaf, 5- Wheelchair, 6- Require cane/walker, 7- Other (specify), 9- DK/RF
education	smallint	Indicates the persons level of education: 1- 11th grade or Less, 2- High school graduate, 3- 2 years of college/associates degree, 4- 4 years of college/Bachelors degree, 5- Post-Graduate, 7- Other, 9- DK/RF
student	smallint	Indicates the person is a student: 1- Yes, 2- No, 8- DK, 9- RF
school_level	smallint	Type of school if person is a student (student=1): 1- Daycare/Pre-School, 2- K-6th grade, 3- 7th-12th grade, 4- Trade/Technical, 5- College undergraduate studies, 6- College graduate studies, 7- Other, 9- DK/RF

school_location	smallint	School location: 1- Home, 2- School location outside the home, 9- DK/RF
school_days	smallint	Number of days spent at school in a week
job_count	smallint	Number of jobs the person holds (if emply =1)
empl_type	smallint	Business type or the economic sector the person is employed in (values indicate the 2 digit NAICS economic sector code)
occupation	smallint	The occupation of the person: 1- Executive/Admin/Managerial, 2- Professional specialty, 3- Technicians or related support, 4- Sales, 5- Administrative support/clerical, 6- Private household, 7- Protective services, 8- Service, except protective and household, 9- Farming/Forestry/Fishing, 10- Precision/Production/Craft/Repair, 11- Machine Operator/Assembler/Inspector, 12- Transportation/Material moving, 13- Handler/Equipment cleaner/helper/laborer, 97- Other, 98- DK, 99- RF
empl_hours	smallint	Total number of hours worked per week at main job
empl_ftpt	smallint	Indicates the person is employed either full-time or part-time: 1- Full-time, 2- Part-time status, 9- DK/RF
empl_fixed	smallint	Indicates the persons work hours are fixed: 1- Fixed, 2- Varies, 9- DK/RF
empl_sit	smallint	Describes situation (if hrvr1=2): 1- Hours vary at my choice, 2- Hours allowed to vary within fixed limits, 3- Fixed starting time, but variable ending time, 4- Fixed hours, but different hours on different days, 5- Variable depending on work, 7- Other, 9- DK/RF
empl_location	smallint	Indicates the persons job location: 1- Home, 2- Fixed address, 3- No fixed address (e.g. Traveling salesman, repairman, etc.), 9- DK/RF
commute_mode	smallint	Indicates persons usual mode of transportation to work: 1- Drive alone, 2- Auto, van-shared ride: 2+ persons, 3- Public transit, 4- Walk, 5- Bike, 9- DK/RF
empl_veh_req	smallint	Indicates the employer requires a vehicle: 1- Yes, 2- No, 9- DK/RF
empl_free_park	smallint	Indicates the persons place of employment provides free parking: 1- Yes, 2- No, 9- DK/RF
empl_pays_park	smallint	Indicates the persons place of employment pays for person parking fees: 1- Yes, 2- No, 9- DK/RF
park_amt	smallint	Amount person pays for parking
park_rate	smallint	Indicates the persons parking rate payment increment: 1- Daily, 2- Weekly, 3- Monthly, 4- Annually, 7- Other, 9- DK/RF
empl_sec_park	smallint	Indicates the person pays for parking at work: 1- Yes, 2- No, 9- DK/RF
empt1	smallint	Indicates the person place of employment pays for public transportation costs: 1- Yes, 2- No, 9- DK/RF
empt2	smallint	Indicates the person uses public transportation: 1- Yes, 2- No, 9- DK/RF
buspay	smallint	Amount person pays in public transportation cost
bpayunit	smallint	Indicates the persons transit pass rate payment increment: 1- Daily, 2- Weekly, 3- Monthly, 4- Annually, 7- Other, 9- DK/RF
empl_type2	smallint	The business type or the economic sector the person is employed in (values indicate the 2 digit NAICS economic sector code)

occupation_sec	smallint	The occupation of the person: 1- Executive/Admin/Managerial, 2- Professional specialty, 3- Technicians or related support, 4- Sales, 5- Administrative support/clerical, 6- Private household, 7- Protective services, 8- Service, except protective and household, 9- Farming/Forestry/Fishing, 10- Precision/Production/Craft/Repair, 11- Machine operator/assembler/inspector, 12- Transportation/Material moving, 13- Handler/Equipment cleaner/helper/laborer, 97- Other, 98- DK, 99- RF
empl_sec_hours	smallint	Total number of hours worked per week at second job
empl_sec_location	smallint	Indicates the persons job location: 1- Home, 2- Fixed address, 3- No fixed address (e.g. traveling salesman, repairman, etc.), 9- DK/RF
nogo	smallint	Did respondent travel on travel day? (1- Yes, 2- No, 3- Trips not collected - valid partial)
usediary	smallint	Did respondent use a travel diary? (1- Yes, 2- No, 9- DK/RF)
proxy	smallint	Household spokesperson responded
ptripsd1	smallint	The persons total number of trips on day 1
ptripsd2	smallint	The persons total number of trips on day 2
wknd	smallint	Did respondent provide a weekend sample? (1- Yes, 2- No, 9- DK/RF)
d2usedia	smallint	Did respondent use a travel diary on day 2? (1- Yes, 2- No, 9- DK/RF)
d2proxy	smallint	Household spokesperson responded on day 2
finwgt	double precision	Final data weight applied to the person
expwgt	double precision	Final expansion weight applied to the person
county	smallint	The persons county of residence
scag_oid	smallint	original study sample ID
rectype	smallint	Identifies the type of record (person): contains a single distinct value (2)
geom*	geometry	Geometric point data (WGS 4326)

Vehicle Tables

v_vehicles

The v_vehicles table is an NREL generated table that establishes a vehicles primary key (sampno + vehno).

Name	Data Type	Comment
sampno	numeric	Household identifier
vehno	smallint	Vehicle number (per household)
veh_make	smallint	Vehicle make
veh_year	smallint	Vehicle year
body_type	smallint	Vehicle body type
fuel_type	smallint	Vehicle fuel type
ownership	smallint	NA
lease	smallint	NA

expwgt	double precision	NA
scag_oid	smallint	NA
rectype	smallint	NA
geom*	geometry	Geometric point data

v_households

The v_households table is an NREL-generated table that is used to establish a householdkey.

Name	Data Type	Comment
sampno	numeric	Household identifier
vehicle_count	bigint	Total number of vehicles reported for household
geom*	geometry	Point grabbed from place table where place name = home

v_points

The v_points table contains all valid GPS points (associated with GPS trips) collected by the sampled vehicle GPS households during the assigned travel day. All higher level tables (households, persons, trips, etc.) are derived from points tables. For public download, the v_points data is segregated by vehicle and available in the sorted_by_vehicle.zip file. Thus, the v_points table is not available in the full_survey.zip download. This decision was made to better organize the data and manage file sizes.

Name	Data Type	Comment
sampno	numeric	Unique household identifier
vehno	smallint	Original study vehicle identifier
local_id	integer	Point index within original file
latitude*	double precision	Latitude recorded by the GPS device
longitude*	double precision	Longitude recorded by the GPS device
gpsspeed	double precision	GPS speed (in MPH)
time_local	timestamp without time zone	Local timestamp
flag	integer	N/A
chain_seq	integer	Chain sequence
trip_seq	integer	Trip sequence
geom*	geometry	Geometric point data

Sorted by Vehicle Tables

gps_points

The v_points table contains all valid GPS points (associated with GPS trips) collected by the sampled vehicle GPS households during the assigned travel day. All higher level tables (households, persons, trips, etc.) are derived from points tables. For public download, the v_points data is segregated by vehicle and available in the sorted_by_vehicle.zip file. Thus, the v_points table is not available in the full_survey.zip download. This decision was made to better organize the data and manage file sizes.

Name	Data Type	Comment
sampno	numeric	Unique household identifier
vehno	smallint	Original study vehicle identifier
local_id	integer	Point index within original file
gpsspeed	double precision	GPS speed (in MPH)
time_local	timestamp without time zone	Local timestamp
flag	integer	N/A
chain_seq	integer	Chain sequence
trip_seq	integer	Trip sequence

gps_households

The v_households table is an NREL-generated table that is used to establish a householdkey.

Name	Data Type	Comment
sampno	numeric	Household identifier
vehicle_count	bigint	Total number of vehicles reported for household

gps_vehicles

The v_vehicles table is an NREL generated table that establishes a vehicles primary key (sampno + vehno).

Name	Data Type	Comment
sampno	numeric	Household identifier
vehno	smallint	Vehicle number (per household)
veh_make	smallint	Vehicle make
veh_year	smallint	Vehicle year
body_type	smallint	Vehicle body type
fuel_type	smallint	Vehicle fuel type
ownership	smallint	NA
lease	smallint	NA
expwgt	double precision	NA
scag_oid	smallint	NA
rectype	smallint	NA

* Indicates that the column has been redacted from cleansed data sets available at www.nrel.gov/tsdc. It has been determined that the column contains sensitive data that must be viewed within the TSDC's secure portal environment.

Note: When necessary, a series of lookup tables was provided in the database to identify the meanings of certain integer-represented responses to survey questions.

How to Cite the TSDC:

If you use TSDC data in a publication, please send a notification to **tsdc@nrel.gov** and include a citation that is consistent with the following format in your publication:

"Transportation Secure Data Center" (2016). National Renewable Energy Laboratory. |*Date TSDC data was accessed*|. www.nrel.gov/tsdc.