Puget Sound Regional Council Smartphone Travel Survey: Lookup Table

Transportation Secure Data Center

Revised: 2016-12-05

Summary Statistics

Travel Diary	Households	389
	Persons	794
Vehicle GPS	Households	
	Vehicles	
	Days of Travel	
	GPS Frequency (Hz)	
Vehicle OBD	Households	
	Vehicles	
	Days of Travel	
	GPS Frequency (Hz)	
Wearable GPS	Households	
	Persons	547
	Days of Travel	1,509
	GPS Frequency (Hz)	1

Blank fields indicate data is not present for this study.

Survey Tables

survey_vehicles

The survey_vehicles table provides additional information for vehicles used in the study.

Name	Data Type	Comment
sampno	character varying	Unique household identifier
vehno	integer	Vehicle identifier
veh_year	integer	Vehicle year (1980 = 1980 or earlier)
veh_make	character varying	Vehicle make
veh_model*	character varying	Vehicle model
fuel_type	integer	Fuel type: 1 = Gas, 2 = Diesel, 3 = Hybrid, 4 = Flex fuel, 5 = Electric, 6 = Biofuel, 7 = Natural gas, 8 = Other
disability	integer	Vehicle has disability license plate or parking? 1 = No, 2 = Yes, 3 = Prefer not to answer
veh_purchyear	integer	Year vehicle was purchased/obtained (1980 = 1980 or earlier)

survey_travelday

The survey_travelday table provides additional travel information for a particular person aggregated by travel day.

Name	Data Type	Comment
sampno	character varying	Unique household identifier
perno	integer	Person identifier
day_num	integer	Travel day number (1 = First assigned travel day)
daily_survey_complete	integer	0 = Daily survey not completed, 1 = Daily survey completed
travel_date	date	Date that trip was taken.
missed_trips	integer	Number of missed trips reported for travel date.
num_trips	integer	Total number of trips on travel date (missed trips + recorded trips).
num_trips_rec	integer	Number of trips passively collected on travel date.
no_travel_reason	integer	If no travel, reason didnt travel: 1 = Did not need to travel, 2 = Unable to travel
no_need_vacation	integer	No need to travel, did not work/took vacation: 0 = Not selected, 1 = Selected
no_need_telecommute	integer	No need to travel, worked from home: 0 = Not selected, 1 = selected
no_need_workhomenopay	integer	No need to travel, worked around the home (not for pay): 0 = Not selected, 1 = Selected
no_need_kidvacation	integer	No need to travel, children on break from school/vacation: 0 = Not selected, 1 = Selected
no_need_other	integer	No need to travel, other: 0 = Not selected, 1 = Selected
unable_notransport	integer	Unable to travel, no available transport: 0 = Not selected, 1 = Selected
unable_health	integer	Unable to travel, sick: 0 = Not selected, 1 = Selected
unable_visitor	integer	Unable to travel, caring for household member or caring for/waiting for visitor: 0 = Not selected, 1 = Selected
unable_other	integer	Unable to travel, other: 0 = Not selected, 1 = Selected

survey_gpstrips

The "survey_gpstrips" table was provided by PSRC to provide additional context and information regarding trips in the study.

Name	Data Type	Comment
sampno	character varying	Unique household identifier
perno	integer	Person identifier
trip_num	integer	Trip number
travel_date	date	Date of trip
origin_lat*	double precision	Origin latitude
origin_lon*	double precision	Origin longitude
destination_lat*	double precision	Destination latitude
destination_lon*	double precision	Destination longitude
time_start	time without time zone	Trip start time

time_end	time without time zone	Trip end time
survey_time	timestamp without time zone	Time that survey was completed
survey_iscomplete	integer	Survey was completed: 0 = No survey completed for trip, 1 = Survey completed for trip, 2 = Trip derived due to distance gap in trip record (no survey was asked)
distance	double precision	Trip distance in miles
duration	integer	Trip duration in minutes
implied_speed_mph	integer	Trip speed in mph
origin_purpose	integer	Origin purpose: 1 = Home, 10 = Primary work, 11 = Related work, 12 = Work travel, 13 = Volunteer, 14 = Other work, 20 = Daycare, 21 = K-12, 22 = College, 23 = Other school, 30 = Grocery, 31 = Gas, 32 = Shopping, 33 = Errands, 34 = Medical, 35 = Other task, 40 = Restaurant, 41 = Exercise, 42 = Social, 43 = Entertainment, 44 = Religious/Civic, 45 = Travel, 50 = Drop off/Pick up, 51 Change travel mode, 99 Other
destination_purpose	integer	Origin purpose: 1 = Home, 10 = Primary work, 11 = Related work, 12 = Work travel, 13 = Volunteer, 14 = Other work, 20 = Daycare, 21 = K-12, 22 = College, 23 = Other school, 30 = Grocery, 31 = Gas, 32 = Shopping, 33 = Errands, 34 = Medical, 35 = Other task, 40 = Restaurant, 41 = Exercise, 42 = Social, 43 = Entertainment, 44 = Religious/Civic, 45 = Travel, 50 = Drop off/Pick up, 51 Change travel mode, 99 Other
num_nonhhtravelers	integer	Number of non-household members on trip: RANGE = 0-5, 6 = 6+ non-household members
num_hhtravelers	integer	Number of household members on trip: RANGE = 1-6, 7 = 7+ household members
num_tottravelers	integer	Total number of travelers on trip
mode	integer	Travel mode used for trip: 1 = Walk, 2 = Bike, 3 = Rental bike, 4 = Bikeshare bike, 5 = Other mode, 6 = HH vehicle 1, 7 = HH vehicle 2, 8 = HH vehicle 3, 9 = HH vehicle 4, 10 = HH vehicle 5, 11 = HH vehicle 6, 12 = HH vehicle 7, 13 = HH vehicle 8, 14 = HH vehicle 9, 15 = HH vehicle 10, 16 = Other HH vehicle, 17 = Rental car, 18 = Carshare, 19 = Taxi, 20 = Rideshare, 21 = Vanpool, 22 = Other auto, 23 = Public bus, 24 = School bus, 25 = Intercity bus, 26 = Shuttle bus, 27 = Paratransit, 28 = Other bus, 29 = Train, 30 = Subway, 31 = Airplane, 32 = Water taxi/ferry, 99 = 2+ modes chosen
mode1	integer	Used more than one travel mode, first travel mode: 1 = Walk, 2 = Bike, 3 = Rental bike, 4 = Bikeshare bike, 5 = Other mode, 6 = HH vehicle 1, 7 = HH vehicle 2, 8 = HH vehicle 3, 9 = HH vehicle 4, 10 = HH vehicle 5, 11 = HH vehicle 6, 12 = HH vehicle 7, 13 = HH vehicle 8, 14 = HH vehicle 9, 15 = HH vehicle 10, 16 = Other HH vehicle, 17 = Rental car, 18 = Carshare, 19 = Taxi, 20 = Rideshare, 21 = Vanpool, 22 = Other auto, 23 = Public bus, 24 = School bus, 25 = Intercity bus, 26 = Shuttle bus, 27 = Paratransit, 28 = Other bus, 29 = Train, 30 = Subway, 31 = Airplane, 32 = Water taxi/ferry, 99 = 2+ modes chosen
mode2	integer	Used more than one travel mode, second travel mode: 1 = Walk, 2 = Bike, 3 = Rental bike, 4 = Bikeshare bike, 5 = Other mode, 6 = HH vehicle 1, 7 = HH vehicle 2, 8 = HH vehicle 3, 9 = HH vehicle 4, 10 = HH vehicle 5, 11 = HH vehicle 6, 12 = HH vehicle 7, 13 = HH vehicle 8, 14 = HH vehicle 9, 15 = HH vehicle 10, 16 = Other HH vehicle, 17 = Rental car, 18 = Carshare, 19 = Taxi, 20 = Rideshare, 21 = Vanpool, 22 = Other auto, 23 = Public bus, 24 = School bus, 25 = Intercity bus, 26 = Shuttle bus, 27 = Paratransit, 28 = Other bus, 29 = Train, 30 = Subway, 31 = Airplane, 32 = Water taxi/ferry, 99 = 2+ modes chosen

mode3	integer	Used more than one travel mode, third travel mode: 1 = Walk, 2 = Bike, 3 = Rental bike, 4 = Bikeshare bike, 5 = Other mode, 6 = HH vehicle 1, 7 = HH vehicle 2, 8 = HH vehicle 3, 9 = HH vehicle 4, 10 = HH vehicle 5, 11 = HH vehicle 6, 12 = HH vehicle 7, 13 = HH vehicle 8, 14 = HH vehicle 9, 15 = HH vehicle 10, 16 = Other HH vehicle, 17 = Rental car, 18 = Carshare, 19 = Taxi, 20 = Rideshare, 21 = Vanpool, 22 = Other auto, 23 = Public bus, 24 = School bus, 25 = Intercity bus, 26 = Shuttle bus, 27 = Paratransit, 28 = Other bus, 29 = Train, 30 = Subway, 31 = Airplane, 32 = Water taxi/ferry, 99 = 2+ modes chosen
driver	integer	Auto mode in HH vehicle or other vehicle: 1 = Driver, 2 = Passenger, 3 = Both (switched during trip)
park	integer	Parking type: 1 = Home, 2 = Parking lot, 3 = Street parking, 4 = Park-and-ride lot, 5 = Didnt park, 6 = Other
park_pay	integer	Parking on street or in lot - paid for parking?: 1 = Free/no cost, 2 = Paid to park, 3 = DK
park_cost	double precision	Cost of parking (if applicable)
transit_faretype	integer	Transit, vanpool, airplane, or other mode - Fare payment method: 1 = Free, 2 = Used cash/tickets, 3 = Used pass, 4 = DK, 5 = Other
transit_pay	integer	Paid fare with cash/tickets - Paid for transit: 1 = Free/no cost, 2 = Paid, 3 = DK
transit_cost	double precision	Paid fare with cash/tickets - Cost of transit
taxi_paymethod	integer	Taxi or rideshare mode: How was the taxi fare paid?: 1 = Paid fare self, 2 = Employ paid fare, 3 = Split fare, 4 = Other person paid, 5 = Other
taxi_pay	integer	Self or employer paid taxi/rideshare - Paid for taxi fare: 1 = Free/no cost, 2 = Paid, 3 = DK
taxi_cost	double precision	Cost of taxi fare
member1	character varying	HH member 1 (perno = 1) was in travel party
member2	character varying	HH member 2 (perno = 2) was in travel party
member3	character varying	HH member 3 (perno = 3) was in travel party
member4	character varying	HH member 4 (perno = 4) was in travel party
member5	character varying	HH member 5 (perno = 5) was in travel party
member6	character varying	HH member 6 (perno = 6) was in travel party
member7	character varying	HH member 7 (perno = 7) was in travel party
member8	character varying	HH member 8 (perno = 8) was in travel party
error	integer	Error reported on trip: 1 = This was more than 1 trip (e.g. stopped for gas during trip), 2 = This was part of another trip (e.g. GPS cut out mid-trip), 3 = This was not a trip, 4 = Other error, 5 = Was not actually moving (not a real trip), 6 = Trip has wrong time
error_detail	character varying	Detail for error reported on trip
error_missed_stops	integer	Number of missed stops on trip
revised_at	timestamp without time zone	Last time the survey was revised
revised_count	integer	Number of times survey was revised
flag_split	integer	Trip was part of split trip: 0 = No flag, 1 = Yes
flag_merge	integer	Trip was merged from 2+ trips: 0 = No flag, 1 = Yes
flag_teleport	integer	Trip was derived due to ¿= 250 m gap in trip record: 0 = No flag, 1 = Yes
nonresp_trip	integer	Trip was derived for non-GPS participant: 0 = No, 1 = Yes
origin_geom*	geometry	Geometric point data of trip origin
destination_geom*	geometry	Geometric point data of trip destination

survey_households

The survey_households table contains detailed information about economic and demographic characteristics for study households. The table contains information taken directly from the Web survey in addition to data sampled from a grid-based spatial layer.

Name	Data Type	Comment
sampno	character varying	Unique household identifier
travdate_first	date	First assigned travel date
travdate_last	date	Last assigned travel date
hhnumtrips_per	integer	HH number of trips during travel period (includes passively collected, derived, and reported missed trips)
hhnumtrips_day1	integer	HH number of trips for travel day 1 (includes passively collected, derived, and reported missed trips)
hhnumtrips_day2	integer	HH number of trips for travel day 2 (includes passively collected, derived, and reported missed trips)
hhnumtrips_day3	integer	HH number of trips for travel day 3 (includes passively collected, derived, and reported missed trips)
vehicle_count	integer	Number of vehicles per household: 0-9, 10 = 10+
hhsize	integer	Number of persons per household: 1-11, 12 = 12+
num_adults	integer	Number of adults (age 18+) per household: 1-7
num_child	integer	Number of children (under age 18) per household: 0-7
num_invited	integer	Number of household members invited to download rMove
num_partic	integer	Number of GPS particpants in household who activated rMove
hh_income_detailed	integer	1 = Under $10000, 2 = $10000-$24999, 3 = $25000-$34999, 4 = $35000-$49999, 5 = $50000-$74999, 6 = $75000-$99999, 7 = $100000-$149999, 8 = $150000-$199999, 9 = $200000-$249999, 10 = $250000+, 98 = Prefer not to answer
hh_income_followup	integer	Followup offered the option of reporting a broad income category: 1 = Under $25000, 2 = $25000-$49999, 3 = $50000-$74999, 4 = $75000-$99999, 5 = $100000+, 98 = Prefer not to answer
hh_income_broad	integer	Broad income categories: 1 = Under $25000, 2 = $25000-$49999, 3 = $50000-$74999, 4 = $75000-$99999, 5 = $100000+, 98 = Prefer not to answer
msg_hh_address*	character varying	Sample provider home address
msg_hh_lat*	double precision	Sample provider home latitude
msg_hh_lon*	double precision	Sample provider home longitude
rep_hh_address*	character varying	Reported home address
rep_hh_lat*	double precision	Reported home latitude
rep_hh_lon*	double precision	Reported home longitude
res_months	integer	Months per year live in residence where survey invitation was received: 1 = 12 months (live year long), 2 = 9-11 months, 3 = 6-8 months, 4 = 3-5 months, 5 = less than 3 months
res_dur	integer	Current residence duration: 1 = less than 1 year, 2 = 1-2 years, 3 = 2-3 years, 4 = 3-5 years, 5 = 5-10 years, 6 = 10-20 years, 7 = 20+ years
rent_own	integer	Resident tenure status: 1 = Own/buying (paying mortgage), 2 = Rent, 3 = Provided by job or military, 4 = Other, 5 = Prefer not to answer

res_type	integer	Type of residence: 1 = Single-family house (detached house), 2 = Townhouse (attached house), 3 = Multi-family house (3 or fewer apartments), 4 = Building with 3 or fewer apartments/condos, 5 = Building with 4+ apartments/condos, 6 = Mobile home/trailer, 7 = Dorm or institutional housing, 8 = Other (boat, RV, van, etc.)
res_factors_hhchange	integer	How important when chose current home - A change in family size or marital/partner status: 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
res_factors_afford	integer	How important when chose current home - Affordability: 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
res_factors_school	integer	How important when chose current home - Quality of schools (K-12): 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
res_factors_walk	integer	How important when chose current home - Having a walkable neighborhood & being near local activities: 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
res_factors_space	integer	How important when chose current home - Having space & separation from others: 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
res_factors_closefam	integer	How important when chose current home - Being close to family or friends: 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
res_factors_transit	integer	How important when chose current home - Being close to public transit: 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
res_factors_hwy	integer	How important when chose current home - Being close to the highway: 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
res_factors_30min	integer	How important when chose current home - Being within 30-min commute to work: 1 = Very unimportant, 2 = Somewhat important, 3 = Neither, 4 = Somewhat important, 5 = Very important
prev_rent_own	integer	Tenure status of previous home for those that have moved in the past 5 years: 1 = Owned/paid mortgage, 2 = Rented, 3 = Provided by job or military, 4 = Other, 5 = Prefer not to answer
prev_res_type	integer	Residence type of previous home for those that have moved in the past 5 years: 1 = Single-family house (detached house), 2 = Townhouse (attached house), 3 = Multi-family house (3 or fewer apartments), 4 = Building with 3 or less apartments/condos, 5 = Building with 4+ apartments/condos, 6 = Mobile home/trailer, 7 = Dorm or institutional housing, 8 = Other (boat, RV, van, etc.)
prev_home_wa	integer	Previous home in the state of WA for those that have moved in the past 5 years? 1 = Yes, 2 = No
prev_home_loc_address*	character varying	Address of previous home in WA for those that have moved in the past 5 years
prev_home_lat*	double precision	Latitude of previous home in WA for those that have moved in the past 5 years
prev_home_lon*	double precision	Longitude of previous home in WA for those that have moved in the past 5 years
prev_home_loc_city	character varying	City/town of previous home not in WA for those that have moved in the past 5 years

prev_home_loc_st	integer	State of previous home not in WA for those that have moved in the past 5 years: 1 = Alabama, 2 = Alaska, 3 = Arizona, 4 = Arkansas, 5 = California, 6 = Colorado, 7 = Connecticut, 8 = Delaware, 9 = Florida, 10 = Georgia, 11 = Hawaii, 12 = Idaho, 13 = Illinois, 14 = Indiana, 15 = Iowa, 16 = Kansas, 17 = Kentucky, 18 = Louisiana, 19 = Maine, 20 = Maryland, 21 = Massachusetts, 22 = Michigan, 23 = Minnesota, 24 = Mississippi, 25 = Missouri, 26 = Montana, 27 = Nebraska, 28 = Nevada, 29 = New Hampshire, 30 = New Jersey, 31 = New Mexico, 32 = New York, 33 = North Carolina, 34 = North Dakota, 35 = Ohio, 36 = Oklahoma, 37 = Oregon, 38 = Pennsylvania, 39 = Puerto Rico, 40 = Rhode Island, 41 = South Carolina, 42 = South Dakota, 43 = Tennessee, 44 = Texas, 45 = Utah, 46 = Vermont, 47 = Virginia, 49 = West Virginia, 50 = Wisconsin, 51 = Wyoming, 52 = Washington D.C./District of Columbia
prev_home_loc_zip	integer	ZIP code of previous home not in WA for those that have moved in the past 5 years
prev_home_loc_x	integer	Previous home outside of U.S. (for those that have moved in the past 5 years)? 0 = No, 1 = Yes
start_time_hhinfo	timestamp without time zone	Time started recruit survey
end_time_hhinfo	timestamp without time zone	Time finished recruit survey
hh_info_dur	integer	Recruit survey duration (derived in minutes)
call_center	integer	Call center completed recruit survey (derived)? 0 = No, 1 = Yes
ismobile	character varying	Recruit survey taken on a mobile device?
foreign_lang	integer	HH used one of the following: Google Translate, non-English web browser language, call center in Spanish, called PSRC language line (derived): 0 = No, 1 = Yes
msg_hh_geom*	geometry	Sample provider home geometric data point
rep_hh_geom*	geometry	Reported home geometric data points
prev_hh_geom*	geometry	Previous home geometric data points

survey_person

The survey_person table contains personal information from the persons (adults & children) who both participated & failed to participate in the GPS portion of the study.

Name	Data Type	Comment
sampno	character varying	Unique household identifier
perno	integer	Person identifier (within household)
gps_invited	integer	Invited to be GPS participant? 0 = No, 1 = Yes
gps_participant	integer	GPS participant (activated rMove)? 0 = No, 1 = Yes
person_status timestamp without time zone	integer Date & time rMove was activated on device	Person completion status (derived): 1 = No GPS data, 2 = ¡66activated_at
relationship	integer	Relationship to primary respondent: 0 = Self, 1 = Husband/Wife/Partner, 2 = Son/Daughter/In-law, 3 = Mother/Father/In-law, 4 = Brother/Sister/In-law, 5 = Other relative, 6 = Roomate/Friend, 7 = Household help, 8 = Other
gender	integer	Gender: 1 = Male, 2 = Female

age_bin	integer	Age: 1 = Under 5, 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+
employment	integer	Employment status: 1 = Employed full-time (paid), 2 = Employed part-time (paid), 3 = Self-employed, 4 = Unpaid volunteer or intern, 5 = Homemaker, 6 = Retired, 7 = Not currently employed
num_jobs	integer	Number of jobs: 0-4, 5 = 5+ jobs
student	integer	Student status: 1 = Not a student, 2 = Full-time student (high school, college, graduate, or professional school), 3 = Part-time student (college, graduate, or professional school), 4 = Vocational/technical student
school	integer	Type of school attended: 1 = Daycare, 2 = Pre-school, 3 = K-12 public or private school, 4 = K-12 home school, 5 = College, graduate, or professional school, 6 = Vocational/technical school, 7 = Other, 8 = None
education	integer	Educational attainment: 1 = Less than high school, 2 = High school graduate, 3 = Some college, 4 = Vocational/technical training, 5 = Associates degree, 6 = Bachelors degree, 7 = Graduate/Post-graduate degree
smartphone	integer	Has smartphone? 1 = Yes, 2 = Not yet, but plan to get one in 2015, 3 = No & I dont plan to get one
license	integer	Has a valid drivers license? 1 = Yes, 2 = No
vehicle	integer	Vehicle used most often: 1-9, 97 = carshare vehicle (Zipcar, Car2Go, RelayRides, etc.), 98 = Other vehicle, 99 = None
tollfreq	integer	How often travel on toll road/bridge in Puget Sound region? 1 = 5-7 days/wk, 2 = 2-4 days/wk, 3 = 1 day/wk, 4 = a few times per month, 5 = Less than monthly, 6 = Never, 7 = NA
incentive_type	integer	Incentive type chosen if completed
smartphone_type_rep	integer	Reported smartphone system & type: 1 = Android (e.g. Samsung, Google, HTC, etc.), 2 = Apple iOS, 3 = RIM Blackberry (not eligible), 4 = Other (not eligible)
smartphone_dr_rep	integer	Reported Android model: 1 = Samsung Galaxy S4, 2 = Samsung Galaxy S3, 3 = Samsung Galaxy, 4 = Samsung Galaxy Note 3, 5 = Samsung Galaxy Note 2, 6 = Google Nexus 5, 7 = Google Nexus 4, 8 = HTC One, 9 = HTC Evo, 10 = LG Optimus, 11 = Motorola Moto X, 12 = Motorola Droid, 13 = Sony Xperia M, 16 = Samsung Galaxy S5, 17 = Samsung Galaxy Note 4, 18 = Motorola Moto G, 97 = Other, 98 = DK
smartphone_ip_rep	integer	Reported iPhone model: 1 = iPhone 5S, 2 = iPhone 5C, 3 = iPhone 5, 4 = iPhone 4S, 5 = iPhone 4 (not eligible), 6 = iPhone 3GS (not eligible), 7 = iPhone 3G (not eligible), 8 = iPhone 1 (not eligible), 11 = iPhone 6/6+, 97 = Other (not eligible), 98 = DK (not eligible)
smartphone_type	character varying	Smartphone used for GPS study (metadata)
num_trips_per	integer	Number of trips for travel period (includes passively recorded, derived, and missed trips)
num_trips_day1	integer	Number of trips taken on travel day 1 (includes passively recorded, derived, and missed trips)
num_trips_day2	integer	Number of trips taken on travel day 2 (includes passively recorded, derived, and missed trips)
num_trips_day3	integer	Number of trips taken on travel day 3 (includes passively recorded, derived, and missed trips)
num_dailies	integer	Number of daily surveys completed (derived)
num_trips_missed	integer	Number of trips reported missing from GPS record (derived)
activated_late	integer	First activated device after 8 AM on first travel date: 0 = No flag, 1 = flag

Wearable Tables

w_points

The w_points table contains all valid GPS points (associated with GPS trips) collected by the sampled households during the assigned travel period. For public download, the w_points data is segregated by person and available in the sorted_by_person.zip file. Thus, the w_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	character varying	Household identifier
perno	smallint	Person identifier
time_local	timestamp without time zone	Local timestamp
latitude*	double precision	Latitude of point
longitude*	double precision	Longitude of point
accuracy	integer	Meters of location accuracy (lower values = greater accuracy)
heading	double precision	Compass direction of travel in degrees (Values from 0 to 359)
gpsspeed	double precision	GPS speed (in MPH)
geom*	geometry	

Sorted by Person Tables

gps_points

The w_points table contains all valid GPS points (associated with GPS trips) collected by the sampled households during the assigned travel period. For public download, the w_points data is segregated by person and available in the sorted_by_person.zip file. Thus, the w_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	character varying	Household identifier
perno	smallint	Person identifier
time_local	timestamp without time zone	Local timestamp
accuracy	integer	Meters of location accuracy (lower values = greater accuracy)
heading	double precision	Compass direction of travel in degrees (Values from 0 to 359)
gpsspeed	double precision	GPS speed (in MPH)

* 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.