Texas Department of Transportation Regional Travel Surveys: Lookup Table

Transportation Secure Data Center

Revised: 2016-12-07

Vehicle Tables

v_points

The "v_gpstrips" table contains triplevel information for each valid GPS trip detected in the GPS point data collected by the sampled households during the assigned travel day.

Name	Data Type	Comment
sampno	numeric	Txdot unique vehicle identiefier
latitude*	double precision	Latitude recorded by GPS
longitude*	double precision	Longitude recorded by GPS
time_local	timestamp without time zone	Local timestamp
gpsspeed	double precision	vehicle speed (mph)
altitude	double precision	Altitude (m.)
geom*	geometry	Geometric linestring
vehno	smallint	Vehicle identifier

v_vehicles

The "v_points" table contains point data from vehicles involved in the study. All higher-letables (households, persons, trips, etc) are derived from point tables. For public download, the "v_points" data is segregated by vehicle and available in the sorted_by_vehicle.zip file. This decision was made to better organize the data and manage file sizes.

Name	Data Type	Comment
sampno	numeric	Original study's vehicle identifier for each vehicle (one vehicle per household)
vehno	smallint	Household vehicle number
v_yr	smallint	Model year of the vehicle
v_make	character varying	Make of the vehicle
v_model*	character varying	Model of the vehicle
od_start	double precision	Odometr Start
od_end	double precision	Odometer End
dt_start	timestamp without time zone	DateCollection Began
dt_end	timestamp without time zone	DateCollection End

Sorted by Vehicle Tables

gps_points

The gps_points table contains an unfiltered second-by-second GPS speed profile for a given vehicle in the study (represented by "sampno_vehno").

Name	Data Type	Comment
sampno	numeric(7,0)	Unique household identifier
vehno	smallint	Unique vehicle identifier
gpstripid	integer	Trip identifier
localid	integer	Total number of points registered at that time
time_local	timestamp without timezone	Local timestamp
gpsspeed	double precision	GPS speed at that time (in MPH)

gps_trips

The "gps_trips" table contains trip results for a specific vehicle in the vehicle GPS subsample. The table also contains trip summary information derived from GPS data.

Name	Data Type	Comment
sampno	numeric(7,0)	Unique household identifier
perno	smallint	Unique person identifier
gpstripid	integer	Trip number within file
gpstravdayid	integer	Travel day within travel period (1- Sunday, 7- Saturday)
gpstravdaytripid	smallint	Trip number within travel day (restarts at 1 each day)
start_time	timestamp without time zone	Local date and time of trip start
end_time	timestamp without time zone	Local date and time of trip end
duration_min	double precision	Duration of trip in minutes
distance_miles	double precision	Distance covered during trip in miles
avg_speed_mph	double precision	Average speed (in MPH)
max_speed_mph	double precision	Maximum speed (in MPH)
destination_distfromlast	double precision	Distance between previous trip destination and current trip origin (in meters)
region_type	integer	Destination region defined by client area (1-Internal origin: internal destination, 2-Internal origin: external destination, 3- External origin: internal destination, 4- External origin: external destination)
workrelated	smallint	1- trip suspected to be work related, 0- Otherwise
nontransport	smallint	1- Trip suspected to be a non-transportation trip, 0- Otherwise
onsite	smallint	1- Trip appears to be within boundaries of a single location, 0- Otherwise
looptrip	smallint	1- Trip starts and ends at same location, 0- Otherwise
origin_loc_type		Home, work, school, other (based on proximity to geocoded home, work, or school location)
destination_loc_type	smallint	Home, work, school, other (based on proximity to geocoded home, work, or school location)

vehicle

The "vehicle" table provides trip summary data for a specific vehicle (represented by "sampno_vehno").

Name	Data Type	Comment
sampno	numeric(7,0)	Household identifier
vehno	smallint	Vehicle identifier
diarytripsday1	smallint	Number of all diary trips reported on day 1
gpstripsday1	smallint	Number of GPS trips collected on day 1 of deployment period
gpstripsday2	smallint	Number of GPS trips collected on day 2 of deployment period
gpstripsday3	smallint	Number of GPS trips collected on day 3 of deployment period
gpstripsday4	smallint	Number of GPS trips collected on day 4 of deployment period
gpstripsday5	smallint	Number of GPS trips collected on day 5 of deployment period
gpstripsday6	smallint	Number of GPS trips collected on day 6 of deployment period
gpstripsday7	smallint	Number of GPS trips collected on day 7 of deployment period
totalgpstrips	smallint	Number of GPS trips collected during 7-day deployment period

 * 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.