California Statewide Travel Survey

Data Dictionary for Public Download Files
National Renewable Energy Laboratory (NREL)
Transportation Secure Data Center (TSDC)

TSDC Processing:

NREL accepts complete survey data sets that include the source data and the aggregated results of regional transportation surveys. The aggregated results of each study are cleansed of personally identifying information and made available for download along with the raw GPS speed traces used to validate survey responses. In addition to the survey results, all vehicle GPS data is fed through a processing routine developed at NREL to filter vehicle-speed traces, link vehicles to the street of travel, and add instantaneous grade/elevation.

Within this data dictionary, the survey-results-data definitions are documented as are the results from NREL processing. This document can be navigated using the navigation pane in Microsoft Word (*View –Show – Navigation Pane Checkbox*).

The NREL processing routine is a six-step process resulting in 350-plus variables indicating the type of roads used, drive-cycle characteristics that incorporate filtered speed and elevation, and trip-type classifications (i.e., home, work, school) when available.

The vehicle sample for the California Statewide Travel Survey includes 2,910 vehicles. Two of the vehicles were unable to complete processing, leaving 2,908 vehicles represented within the NREL-processed results.
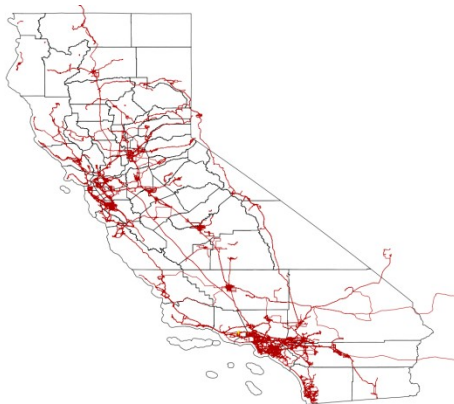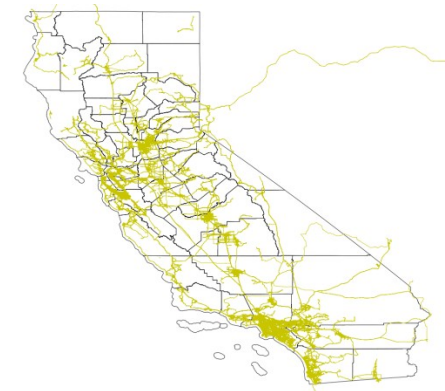
GPS Sample   OBD\GPS Sample

While the vehicle sample can be sub-divided into GPS and OBD\GPS sample groups, the vehicle sample is grouped together in the processed results. The OBD\GPS sample consists of 2,233 vehicles and the GPS sample consists of 677 vehicles.

Original Data Attributes:

Households:

This table contains the primary key for the database, which acts as the household identifier (sampno). Each household is given a sampno, and each person and vehicle are assigned an identifier unique to the household. Each row in the table is unique to a household and contains information regarding vehicle ownership and survey response.

Name	Data type	Comment
sampno	integer	Sample Number
recmode	integer	Recruit Mode: 1=CATI, 2=CAWI
retmode	integer	Retrieval Mode:1=CATI, 2=CAWI, 3=Mail Back (Data Entry)
incen	integer	Incentive Flag: 1=Yes, 2=No
ilang	integer	Interview Language: 1=ENGLISH, 2=SPANISH
ctfip	integer	Residential County: 06001=ALAMEDA,06003=ALPINE,06005=AMADOR,06007=BUTTE,06009=CALAVERAS,06011=COLUSA,06013=CONTRA COSTA,06015=DEL NORTE,06017=EL DORADO,,06019=FRESNO,06021=GLENN,06023=HUMBOLDT,06025=IMPERIAL,06027=INYO,06029=KERN,06031=KINGS,06033=LAKE,06035=LASSEN,06037=LOS ANGELES,06039=MADERA, 06041=MARIN,06043=MARIPOSA,06045=MENDOCINO,06047=MERCED,06049=MODOC,06051=MONO,06053=MONTEREY,06055=NAPA,06057=NEVADA,06059=ORANGE,06061=PLACER,06063=PLUMAS,06065=RIVERSIDE,06067=SACRAMENTO,06069=SAN BENITO,06071=SAN BERNARDINO,06073=SAN DIEGO,06075=SAN FRANCISCO,06077=SAN JOAQUIN,06079=SAN LUIS OBISPO,06081=SAN MATEO,06083=SANTA BARBARA,06085=SANTA CLARA,06087=SANTA CRUZ,06089=SHASTA,06091=SIERRA,06093=SISKIYOU,06095=SOLANO,06097=SONOMA,06099=STANISLAUS,06101=SUTTER,06103=TEHAMA,06105=TRINITY,06107=TULARE,06109=TUOLUMNE,06111=VENTURA,06113=YOLO,06115=YUBA
area	integer	MPO: 1=Alpine,2=Amador,3=AMBAG=Butte,5=Calaveras,6=Colusa,7=Del Norte,8=Fresno,9=Glenn,10=Humboldt,11=Inyo,12=Kern,13=Kings,14=Lake,15=Lassen,16=Madera,17=Mariposa,18=Mendocino,19=Merced,20=Modoc,21=Mono,22=MTC,23=Nevada,24=Plumas,25=SACOG,26=San Joaquin,27=San Luis Obispo,28=SANDAG,29=Santa Barbara,30=SCAG,31=Shasta,32=Sierra,33=Siskiyou,34=Stanislaus,35=Tehama,36=TMPO,37=Trinity,38=Tulare,39=Tuolumne
strata	integer	strata
stype	integer	Sample Type:1=Matched, 2=Unmatched
cec	integer	CEC sample flag: 1=CEC-DMV, 2=CEC-UC Davis
gtype	integer	GPS Sample:1=GPS SAMPLE, 2=Non-GPS SAMPLE,

		3=REFUSED or DQ from GPS
gflag	integer	GPS Type: 1=Wearable, 2=In-Vehicle, 3=In-Vehicle OBD
ribus	integer	Transit Use At Least Once Per Week: 1=Yes, 2=No, 8=DK, 9=RF
hhveh	integer	Number of Household Vehicle: RANGE: 0-15, 98=DK, 99=RF
hhbic	integer	Number of Household Bicycle: RANGE: 0-15, 98=DK, 99=RF
vehnew	integer	New vehicle: 1=Yes, 2=No, 8=DK, 9=RF
buyer1	integer	Buyer:1=Self/Respondent, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted Child/Stepchild/Son-in-law/Daughter-in-law, 8=Other relatives,9=No relation/Housemate/Roommate/Foster Child,98=DK,99=RF
buyer2	integer	Buyer:1=Self/Respondent, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted Child/Stepchild/Son-in-law/Daughter-in-law, 8=Other relatives,9=No relation/Housemate/Roommate/Foster Child,98=DK,99=RF
buyer3	integer	Buyer:1=Self/Respondent, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted Child/Stepchild/Son-in-law/Daughter-in-law, 8=Other relatives,9=No relation/Housemate/Roommate/Foster Child,98=DK,99=RF
buyer4	integer	Buyer:1=Self/Respondent, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted Child/Stepchild/Son-in-law/Daughter-in-law, 8=Other relatives,9=No relation/Housemate/Roommate/Foster Child,98=DK,99=RF
buyer5	integer	Buyer:1=Self/Respondent, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted Child/Stepchild/Son-in-law/Daughter-in-law, 8=Other relatives,9=No relation/Housemate/Roommate/Foster Child,98=DK,99=RF
buyer6	integer	Buyer:1=Self/Respondent, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted Child/Stepchild/Son-in-law/Daughter-in-law, 8=Other relatives,9=No relation/Housemate/Roommate/Foster Child,98=DK,99=RF
buyer7	integer	Buyer:1=Self/Respondent, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted Child/Stepchild/Son-in-law/Daughter-in-law, 8=Other relatives,9=No relation/Housemate/Roommate/Foster Child,98=DK,99=RF
buyer8	integer	Buyer:1=Self/Respondent, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted Child/Stepchild/Son-in-law/Daughter-in-law, 8=Other relatives,9=No relation/Housemate/Roommate/Foster Child,98=DK,99=RF
resty	integer	Residence Type: 01=Single family house not attached to any other house, 02=Single family house attached to one or more houses (townhouse, duplex, triplex) each with separate entry, 03=A mobile home,04=Building with 2-4 apartments/ condos / studios /rooms ,05=Building with 5-19 apartments/ condos / studios / rooms ,06=Building with 20 or more apartments/ condos / studios / rooms[NOTE TO INTERVIEWERS: includes dorms, etc.], 07=Boat, RV, Van, etc., 97=Other specify, 98=DK, 99=RF
o_resty	character varying(150)	Description of home
own	integer	Home Ownership:1=Own/Buying (Paying off Mortgage), 2=Rent ,7=Other, specify,8=DK,9=RF
o_own	character varying(150)	Home ownership-other
ten	integer	TENURE: RANGE: 1-97, 98=DK, 99=RF

prevcity	character varying(50)	Previous address city
prevstat	character varying(3)	Previous address state
prevzip	integer	Previous address zip code
phlns	integer	Number of land line phone: RANGE: 0-15,98=DK,99=RF
incom	integer	Household income: 1=$0 to $9,999, 2=$10,000 to $24,999, 3=$25,000 to $34,999, 4=$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 to $199,999, 9=$200,000 to $249,999, 10=$250,000 or more, 98=DK, 99=RF
hhsize	integer	Household Size: RANGE: 1-15, 98=DK, 99=RF
nonrelat	integer	Non-related Household Flag: 1=Yes
hhemp	integer	Number of Household Workers
hhstu	integer	Number of Household Students
hhlic	integer	Number of Household Driver License Holders
recdate	timestamp without time zone	Recruitment Date
assn	integer	Assigned Travel Date
dow	integer	Assigned Travel Day: 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursdays, 5=Friday, 6=Saturday, 7=Sunday
htrips	integer	Number of Household Trips on Travel Day
hcity	character varying(50)	Home city
hstat	character varying(2)	Home state
hzip	integer	Home zip
hxcord	character varying(7)	Home x-coordinate
hycord	character varying(7)	Home y-coordinate
hhnov1	integer	Reason of no possession of a vehicle1: 1=Do not need a car - can do what I need and want to without a motor vehicle, 2=Too expensive to buy, 3=Too expensive to maintain (gas/insurance/repairs), 4=Health/age related reasons, 5=Cannot get insurance, 6=Concerned about impact on environment, 7=Get rides from other people, 8=No place to park, 9=USE PUBLIC TRANSIT/CAR SHARE/BIKE/WALK - HHBIC, 10=NO DRIVERS LICENSE - HHBIC,11=CANNOT DRIVE - HHBIC, 12=OTHER - HHBIC, 98=DK,99=RF
hhnov2	integer	Reason of no possession of a vehicle2: 1=Do not need a car - can do what I need and want to without a motor vehicle, 2=Too expensive to buy, 3=Too expensive to maintain (gas/insurance/repairs), 4=Health/age related reasons, 5=Cannot get insurance, 6=Concerned about impact on environment, 7=Get rides from other people, 8=No place to park, 9=USE PUBLIC TRANSIT/CAR SHARE/BIKE/WALK - HHBIC, 10=NO DRIVERS LICENSE - HHBIC,11=CANNOT DRIVE - HHBIC, 12=OTHER - HHBIC, 98=DK,99=RF
hhnov3	integer	Reason of no possession of a vehicle3: 1=Do not need a car - can do what I need and want to without a motor vehicle, 2=Too expensive to buy, 3=Too expensive to maintain (gas/insurance/repairs), 4=Health/age related reasons, 5=Cannot get insurance, 6=Concerned about impact on environment, 7=Get rides from other people, 8=No place to

		park, 9=USE PUBLIC TRANSIT/CAR SHARE/BIKE/WALK - HHBIC, 10=NO DRIVERS LICENSE - HHBIC,11=CANNOT DRIVE - HHBIC, 12=OTHER - HHBIC, 98=DK,99=RF
hhnov4	integer	Reason of no possession of a vehicle4: 1=Do not need a car - can do what I need and want to without a motor vehicle, 2=Too expensive to buy, 3=Too expensive to maintain (gas/insurance/repairs), 4=Health/age related reasons, 5=Cannot get insurance, 6=Concerned about impact on environment, 7=Get rides from other people, 8=No place to park, 9=USE PUBLIC TRANSIT/CAR SHARE/BIKE/WALK - HHBIC, 10=NO DRIVERS LICENSE - HHBIC,11=CANNOT DRIVE - HHBIC, 12=OTHER - HHBIC, 98=DK,99=RF
hhnov5	integer	Reason of no possession of a vehicle5: 1=Do not need a car - can do what I need and want to without a motor vehicle, 2=Too expensive to buy, 3=Too expensive to maintain (gas/insurance/repairs), 4=Health/age related reasons, 5=Cannot get insurance, 6=Concerned about impact on environment, 7=Get rides from other people, 8=No place to park, 9=USE PUBLIC TRANSIT/CAR SHARE/BIKE/WALK - HHBIC, 10=NO DRIVER LICENSE HHBIC,11=CANNOT DRIVE - HHBIC, 12=OTHER - HHBIC, 98=DK,99=RF
hhnov6	integer	Reason of no possession of a vehicle6: 1=Do not need a car - can do what I need and want to without a motor vehicle, 2=Too expensive to buy, 3=Too expensive to maintain (gas/insurance/repairs), 4=Health/age related reasons, 5=Cannot get insurance, 6=Concerned about impact on environment, 7=Get rides from other people, 8=No place to park, 9=USE PUBLIC TRANSIT/CAR SHARE/BIKE/WALK - HHBIC, 10=NO DRIVERS LICENSE - HHBIC,11=CANNOT DRIVE - HHBIC, 12=OTHER - HHBIC, 98=DK,99=RF
hhnov7	integer	Reason of no possession of a vehicle7: 1=Do not need a car - can do what I need and want to without a motor vehicle, 2=Too expensive to buy, 3=Too expensive to maintain (gas/insurance/repairs), 4=Health/age related reasons, 5=Cannot get insurance, 6=Concerned about impact on environment, 7=Get rides from other people, 8=No place to park, 9=USE PUBLIC TRANSIT/CAR SHARE/BIKE/WALK - HHBIC, 10=NO DRIVERS LICENSE - HHBIC,11=CANNOT DRIVE - HHBIC, 12=OTHER - HHBIC, 98=DK,99=RF
hhnov8	integer	Reason of no possession of a vehicle8: 1=Do not need a car - can do what I need and want to without a motor vehicle, 2=Too expensive to buy, 3=Too expensive to maintain (gas/insurance/repairs), 4=Health/age related reasons, 5=Cannot get insurance, 6=Concerned about impact on environment, 7=Get rides from other people, 8=No place to park, 9=USE PUBLIC TRANSIT/CAR SHARE/BIKE/WALK - HHBIC, 10=NO DRIVERS LICENSE - HHBIC,11=CANNOT DRIVE - HHBIC, 12=OTHER - HHBIC, 98=DK,99=RF
vehop	integer	Number of operational household vehicle: RANGE: 0-15, 98=DK, 99=RF
vehpr	integer	Number of Vehicles with Power Outlet: RANGE: 0-15, 98=DK, 99=RF
vedte	integer	NUMBER OF NEWER VEHICLES WITH POWER OUTLET: RANGE: 0-15
futur	integer	Willingness to Participate in Future Study:1=YES, 2=NO

cmpld	integer	Complete Long Distance Log: 1=YES (COMPLETED), 2=NO (NOT COMPLETED), 3=DID NOT RECEIVE LOG, 8=DK, 9=RF
ldper1	integer	HH member who completed LD log: RANGE: 1-8, 98=DK, 99=RF
ldper2	integer	HH member who completed LD log: RANGE: 1-8, 98=DK, 99=RF
ldper3	integer	HH member who completed LD log: RANGE: 1-8, 98=DK, 99=RF
ldper4	integer	HH member who completed LD log: RANGE: 1-8, 98=DK, 99=RF
ldper5	integer	HH member who completed LD log: RANGE: 1-8, 98=DK, 99=RF
ldper6	integer	HH member who completed LD log: RANGE: 1-8, 98=DK, 99=RF
ldper7	integer	HH member who completed LD log: RANGE: 1-8, 98=DK, 99=RF
ldper8	integer	HH member who completed LD log: RANGE: 1-8, 98=DK, 99=RF
ldtrp	integer	Last eight weeks: 1=TRIPS TO REPORT, 2=NO LONG DISTANCE TRIPS, 8=DON'T KNOW , 9=REFUSE
ldflag	integer	Flag for household who reported LD trip: 1=Yes
hpflag	integer	Hispanic household flag 1=YES, 2=NO
hh_complete	integer	Household Complete Flag: 1=Complete (All household members reported travel), 2=Valid Partial Complete (Large HH in N-1 rule)
gps_complete	integer	Household Complete Flag:1=It was GPS assigned sample and completed GPS, 2=Valid Partial Complete (Large HH in N-1 rule)
hctract	integer	Home location census tract ID 2010
hprimarycity	character varying(50)	Home location city - primary city name
hstfip	integer	Home location state FIPS code
mtc_finalflag	integer	Flag for MTC region household
hhwgt	double precision	Final household weight
exphhwgt	double precision	Expanded final household weight
gps_mtc	integer	MTC GPS flag

Persons:

This table contains detailed information about each member of the surveyed households, including age, race, sex, employment, and other pertinent information. Each row in the table is unique to a person and references the household table.

Name	Data type	Comment
sampn	integer	Sample Number
perno	integer	Person Number
relat	integer	Relationship to Head of House: 1=Self, 2=Spouse/Partner, 3=Child/Daughter/Son/Adopted child/Stepchild/Son-in-law/Daughter-in-law, 4=Parent/Parent in-law/Step-Parent, 5=Brother or sister (stepbrother/stepsister),6=Grandparent, 7=Grandchild ,8=OTHER RELATIVE,9=NO RELATION/HOUSEMATE/ROOMMATE/FOSTER CHILD,99=RF
gend	integer	Gender: 1=MALE,2=FEMALE,9=RF
age	integer	Age: RANGE: 0-98, 99=99 years old or older, 998=DK, 999=RF
ageb	integer	Age if refused: 1=Younger than 16 or over 75, 2=Between 16 and 75, 8=DK, 9=RF
hisp	integer	HISPANIC OR LATINO: 1=YES, 2=NO,8=DK,9=RF
race1	integer	ETHNICITY OR RACE: 1=White, 2=Black or African American, 3=American Indian or Alaska Native, 4=Asian (Asian Indian, Japanese, Chinese, Korean, Filipino, Vietnamese), 5=Native Hawaiian or Pacific Islander (Guamanian, Samoan, Fijian), 97=Other, specify, 98=DK,99=RF
race2	integer	ETHNICITY OR RACE: 1=White, 2=Black or African American, 3=American Indian or Alaska Native, 4=Asian (Asian Indian, Japanese, Chinese, Korean, Filipino, Vietnamese), 5=Native Hawaiian or Pacific Islander (Guamanian, Samoan, Fijian), 97=Other, specify, 98=DK,99=RF
race3	integer	ETHNICITY OR RACE: 1=White, 2=Black or African American, 3=American Indian or Alaska Native, 4=Asian (Asian Indian, Japanese, Chinese, Korean, Filipino, Vietnamese), 5=Native Hawaiian or Pacific Islander (Guamanian, Samoan, Fijian), 97=Other, specify, 98=DK,99=RF
race4	integer	ETHNICITY OR RACE: 1=White, 2=Black or African American, 3=American Indian or Alaska Native, 4=Asian (Asian Indian, Japanese, Chinese, Korean, Filipino, Vietnamese), 5=Native Hawaiian or Pacific Islander (Guamanian, Samoan, Fijian), 97=Other, specify, 98=DK,99=RF
o_race	character varying(60)	ETHNICITY OR RACE, other
ntvty	integer	NATIVITY: 1=Yes, 2=No, 8=DK, 9=RF
cntry	integer	COUNTRY OF BIRTH: RANGE: 1900 - 2012, 9998=DK, 9999=RF

lic	integer	Valid license: 1=YES, 2=NO, 8=DK, 9=RF
userid	integer	Vehicle driven by Respondent: RANGE: 1-15, 98=DK, 99=RF
trans	integer	Transit pass: 1=YES, 2=NO, 8=DK, 9=RF
tptyp1	integer	Type of transit pass: 1=Bay Area Clipper Card CLIP, 2=San Diego Compass Card COMP, 3=TAP Card or EZ transit Pass MET, 4=Other local bus pass, 5=Other Express / Commuter bus pass, 6=Other Light Rail / Subway / Train / Streetcar pass, 7=Dial-a-ride/paratransit pass, 8=Ferry/boat pass, 97=Other, specify, 98=DK, 99=RF
tptyp2	integer	Type of transit pass: 1=Bay Area Clipper Card CLIP, 2=San Diego Compass Card COMP, 3=TAP Card or EZ transit Pass MET, 4=Other local bus pass, 5=Other Express / Commuter bus pass, 6=Other Light Rail / Subway / Train / Streetcar pass, 7=Dial-a-ride/paratransit pass, 8=Ferry/boat pass, 97=Other, specify, 98=DK, 99=RF
tptyp3	integer	Type of transit pass: 1=Bay Area Clipper Card CLIP, 2=San Diego Compass Card COMP, 3=TAP Card or EZ transit Pass MET, 4=Other local bus pass, 5=Other Express / Commuter bus pass, 6=Other Light Rail / Subway / Train / Streetcar pass, 7=Dial-a-ride/paratransit pass, 8=Ferry/boat pass, 97=Other, specify, 98=DK, 99=RF
tptyp4	integer	Type of transit pass: 1=Bay Area Clipper Card CLIP, 2=San Diego Compass Card COMP, 3=TAP Card or EZ transit Pass MET, 4=Other local bus pass, 5=Other Express / Commuter bus pass, 6=Other Light Rail / Subway / Train / Streetcar pass, 7=Dial-a-ride/paratransit pass, 8=Ferry/boat pass, 97=Other, specify, 98=DK, 99=RF
tptyp5	integer	Type of transit pass: 1=Bay Area Clipper Card CLIP, 2=San Diego Compass Card COMP, 3=TAP Card or EZ transit Pass MET, 4=Other local bus pass, 5=Other Express / Commuter bus pass, 6=Other Light Rail / Subway / Train / Streetcar pass, 7=Dial-a-ride/paratransit pass, 8=Ferry/boat pass, 97=Other, specify, 98=DK, 99=RF
tptyp6	integer	Type of transit pass: 1=Bay Area Clipper Card CLIP, 2=San Diego Compass Card COMP, 3=TAP Card or EZ transit Pass MET, 4=Other local bus pass, 5=Other Express / Commuter bus pass, 6=Other Light Rail / Subway / Train / Streetcar pass, 7=Dial-a-ride/paratransit pass, 8=Ferry/boat pass, 97=Other, specify, 98=DK, 99=RF
tptyp7	integer	Type of transit pass: 1=Bay Area Clipper Card CLIP, 2=San Diego Compass Card COMP, 3=TAP Card or EZ transit Pass MET, 4=Other local bus pass, 5=Other Express / Commuter bus pass, 6=Other Light Rail / Subway / Train / Streetcar pass, 7=Dial-a-ride/paratransit pass, 8=Ferry/boat pass, 97=Other, specify, 98=DK, 99=RF
o_tptyp	character varying(100)	Type of transit pass, other
clip1	integer	Type of Clipper Card: 1=CASH VALUE, 2=AC TRANSIT - ADULT 31-DAY LOCAL PASS, 3=AC TRANSIT - ADULT 31-DAY TRANSBAY PASS, 4=AC TRANSIT SENIOR/RTC LOCAL MONTHLY PASS, 5=AC TRANSIT - YOUTH 31-DAY LOCAL PASS, 6=BART - $48 HIGH VALUE DISCOUNT, 7=BART - $64 HIGH VALUE DISCOUNT CARD, 8=CALTRAIN ADULT

		MONTHLY PASS, 9=CALTRAIN ADULT MONTHLY AND MUNI PASS, 10=CALTRAIN ADULT 8-RIDE TICKET, 11=CALTRAIN ELIGIBLE DISCOUNT MONTHLY PASS, 12=CALTRAIN ELIGIBLE DISCOUNT 8-RIDE TICKET, 13=SF MUNI ADULT MUNI/BART FAST PASS, 14=SF MUNI - ADULT MUNI ONLY MONTHLY PASS, 15 =SF MUNI ADULT 10-RIDE BOOK, 16=SF MUNI SENIOR MONTHLY PASS, 17=SF MUNI DISABLED MONTHLY PASS, 18=SF MUNI YOUTH MONTHLY PASS, 19=SAMTRANS ADULT LOCAL MONTHLY PASS, 20=SAMTRANS ADULT LOCAL/SF MONTHLY PASS, 21=SAMTRANS ADULT EXPRESS MONTHLY PASS, 22=SAMTRANS ELIGIBLE DISCOUNT MONTHLY PASS, 23=SAMTRANS YOUTH MONTHLY PASS, 24=VTA ADULT MONTHLY PASS, 25=VTA EXPRESS ADULT MONTHLY PASS, 26= VTA SENIOR/RTC MONTHLY PASS, 27=VTA YOUTH MONTHLY PASS, 98=DK, 99=RF
clip2	integer	Type of Clipper Card: 1=CASH VALUE, 2=AC TRANSIT - ADULT 31-DAY LOCAL PASS, 3=AC TRANSIT - ADULT 31-DAY TRANSBAY PASS, 4=AC TRANSIT SENIOR/RTC LOCAL MONTHLY PASS, 5=AC TRANSIT - YOUTH 31-DAY LOCAL PASS, 6=BART - $48 HIGH VALUE DISCOUNT, 7=BART - $64 HIGH VALUE DISCOUNT CARD, 8=CALTRAIN ADULT MONTHLY PASS, 9=CALTRAIN ADULT MONTHLY AND MUNI PASS, 10=CALTRAIN ADULT 8-RIDE TICKET, 11=CALTRAIN ELIGIBLE DISCOUNT MONTHLY PASS, 12=CALTRAIN ELIGIBLE DISCOUNT 8-RIDE TICKET, 13=SF MUNI ADULT MUNI/BART FAST PASS, 14=SF MUNI - ADULT MUNI ONLY MONTHLY PASS, 15 =SF MUNI ADULT 10-RIDE BOOK, 16=SF MUNI SENIOR MONTHLY PASS, 17=SF MUNI DISABLED MONTHLY PASS, 18=SF MUNI YOUTH MONTHLY PASS, 19=SAMTRANS ADULT LOCAL MONTHLY PASS, 20=SAMTRANS ADULT LOCAL/SF MONTHLY PASS, 21=SAMTRANS ADULT EXPRESS MONTHLY PASS, 22=SAMTRANS ELIGIBLE DISCOUNT MONTHLY PASS, 23=SAMTRANS YOUTH MONTHLY PASS, 24=VTA ADULT MONTHLY PASS, 25=VTA EXPRESS ADULT MONTHLY PASS, 26= VTA SENIOR/RTC MONTHLY PASS, 27=VTA YOUTH MONTHLY PASS, 98=DK, 99=RF
clip3	integer	Type of Clipper Card: 1=CASH VALUE, 2=AC TRANSIT - ADULT 31-DAY LOCAL PASS, 3=AC TRANSIT - ADULT 31-DAY TRANSBAY PASS, 4=AC TRANSIT SENIOR/RTC LOCAL MONTHLY PASS, 5=AC TRANSIT - YOUTH 31-DAY LOCAL PASS, 6=BART - $48 HIGH VALUE DISCOUNT, 7=BART - $64 HIGH VALUE DISCOUNT CARD, 8=CALTRAIN ADULT MONTHLY PASS, 9=CALTRAIN ADULT MONTHLY AND MUNI PASS, 10=CALTRAIN ADULT 8-RIDE TICKET, 11=CALTRAIN ELIGIBLE DISCOUNT MONTHLY PASS, 12=CALTRAIN ELIGIBLE DISCOUNT 8-RIDE TICKET, 13=SF MUNI ADULT MUNI/BART FAST PASS, 14=SF MUNI - ADULT MUNI ONLY MONTHLY PASS, 15 =SF MUNI ADULT 10-RIDE BOOK, 16=SF MUNI SENIOR MONTHLY PASS, 17=SF MUNI DISABLED MONTHLY PASS, 18=SF MUNI YOUTH MONTHLY PASS, 19=SAMTRANS ADULT LOCAL MONTHLY PASS, 20=SAMTRANS ADULT LOCAL/SF MONTHLY PASS, 21=SAMTRANS ADULT EXPRESS MONTHLY PASS,

		22=SAMTRANS ELIGIBLE DISCOUNT MONTHLY PASS, 23=SAMTRANS YOUTH MONTHLY PASS, 24=VTA ADULT MONTHLY PASS, 25=VTA EXPRESS ADULT MONTHLY PASS, 26= VTA SENIOR/RTC MONTHLY PASS, 27=VTA YOUTH MONTHLY PASS, 98=DK, 99=RF
comp	integer	Type of Compass Card: 1=REGIONAL MONTHLY PASS - ADULT, 2=REGIONAL MONTHLY PASS - YOUTH, 3=REGIONAL MONTHLY PASS SENIOR/DISABLED/MEDICARE, 4=PREMIUM EXPRESS MONTHLY PASS ADULT, 5=PREMIUM EXPRESS MONTHLY PASS YOUTH, 6=PREMIUM EXPRESS MONTHLY PASS SENIOR/DISABLED/MEDICARE,7=COASTER 1 ZONE MONTHLY PASS, 8=COASTER 2 ZONE MONTHLY PASS, 9=COASTER 3 ZONE MONTHLY PASS, 10=COASTER MONTHLY PASS - YOUTH, 11=COASTER MONTHLY PASS - SENIOR/DISABLED/MEDICARE, 12=SPRINTER/BREEZE MONTHLY PASS, 98=DK, 99=RF
met	integer	Type of TAP/EZ Pass Card: 1=30-DAY PASS, 2=7-DAY PASS, 3=EZ TRANSIT PASS, 4=FREEWAY EXPRESS STAMP, 5=TAP STORED VALUE, 98=DK, 99=RF
passtl	integer	Toll Pass: 1=Yes, 2=No, 8=DK, 9=RF
flex	integer	Car Sharing: 1=Yes, 2=No, 8=DK, 9=RF
emply	integer	Employed: 1=Yes, 2=No, 8=DK, 9=RF
wkstat	integer	Employment status: 1=Retired, 2=Disabled / On Disability Status, 3=Homemaker, 4= Unemployed but looking for work, 5=Unemployed and not looking for work, 6=Student, 7=Volunteer, 97=OTHER (specify), 98=DK, 99=RF
o_wkstat	character varying(150)	Employment status - Other
wloc	integer	Work Location: 1=Fixed, 2=Home, 3=No fixed workplace, varies, 8=DK, 9=RF
jobs	integer	How many jobs: RANGE: 0-15, 98=DK, 99=RF
wname	character varying(150)	Primary Work name
wcity	character varying(50)	Primary Work City
wzip	character varying(5)	Primary Work Zip
wstat	character varying(25)	Primary Work State NA=Not Applicable/Out of the country
wxst1	character varying(50)	Primary Work Cross Street1
wxst2	character varying(50)	Primary Work Cross Street2
wxcord	character varying(30)	Primary Work X-coordinates
wycord	character varying(30)	Primary Work Y-coordinates
wdays	integer	Days at Primary work RANGE: 1-7, 8=DK, 9=RF
wday1	integer	Work Days: 1=Monday, 2=Tuesday, 3=Wednesday , 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday,8=Monday - Friday, 98=DK, 99=RF
wday2	integer	Work Days: 1=Monday, 2=Tuesday, 3=Wednesday , 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday,8=Monday -

		Friday, 98=DK, 99=RF
wday3	integer	Work Days: 1=Monday, 2=Tuesday, 3=Wednesday , 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday,8=Monday - Friday, 98=DK, 99=RF
wday4	integer	Work Days: 1=Monday, 2=Tuesday, 3=Wednesday , 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday,8=Monday - Friday, 98=DK, 99=RF
wday5	integer	Work Days: 1=Monday, 2=Tuesday, 3=Wednesday , 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday,8=Monday - Friday, 98=DK, 99=RF
wday6	integer	Work Days: 1=Monday, 2=Tuesday, 3=Wednesday , 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday,8=Monday - Friday, 98=DK, 99=RF
wday7	integer	Work Days: 1=Monday, 2=Tuesday, 3=Wednesday , 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday,8=Monday - Friday, 98=DK, 99=RF
hours	integer	Hours work per week: RANGE: 1-150, 998=DK, 999=RF
wsched	integer	Flexible work schedule; 1=I have no flexibility in my work schedule, 2=I have some flexibility in my work schedule, 3=I'm pretty much free to adjust my schedule as I like, 8=DK, 9=RF
compr	integer	Flexible programs offered: 1=Yes, 2=No, 8=DK, 9=RF
wmode	integer	Work mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized, 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger,7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle, 11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit, 15=Local Bus, Rapid Bus, 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.), 17=Premium Bus (Metro Orange / Silver Line) ,18=School Bus, 19=Public Transit Shuttle (DASH, Emery Go Round, etc.), 20=AirBART / LAX FlyAway, 21=Dial-a-Ride / Paratransit (Access Services, etc.), 22=Amtrak Bus, 23=Other Bus, 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail, 29=Ferry / Boat, 99=RF
indus	integer	Industry: 11=Agriculture, Farming, Forestry, Fishing, Hunting, 21=Mining, Quarrying, Oil or Gas Drilling Company, 22=Utility Company, Sewage Treatment Facility, Utilities in General, 23=Construction, 31=Manufacturing, Including Bakery, Food Processor, Mill, Manufacturer, Machine Shop, Medical Biotechnology, 42=Wholesale Trade, 44=Retail Trade, Including Store, Shop, Dealer (E.G. Auto Dealer), 48=Transportation, Bus or Train Company, Airline, Postal Service, Warehouse or Storage, 51=Information, Including Publisher, Phone Company, Movie Company, Internet Company, Library, Data Processing, Computer Company, 52=Finance and Insurance such as Bank, Insurance Company, Credit Union, Finance Company, 53=Real Estate Company, Any Rental or Leasing Company Including Auto or Video Rental, 54=Professional Scientific or

		Technical Services, Including Law, Accounting, Design, Engineering, Consulting or Advertising, Firm or Company, and Veterinary Services, Management of Companies and Enterprises, 55=MANAGEMENT OF COMPANIES AND ENTERPRISES, 56=Administrative Support, Including Employment Agency, Travel Agency, Security Guard Company, Waste Management (Trash) Company, Remediation Services, 61=Educational Services, Including School, University, Training School, 62=Health Care and Social Assistance, Including Hospital, Doctors Office, Assisted Living Home, Day Care Center, 71=Arts, Entertainment and Recreation, Including Art Gallery, Museum, Theatre, Bowling Alley, Casino, 72=Accommodation or Food Services, Including Hotel, Restaurant, 81=Other Services (Except Public Administration) such as Auto Repair, Hair or Nail Salon, Barber Shop, Funeral Home, Labor Union, 92=Public Administration, such as Government Agency, City or County Department, Military ,97=Other, specify, 98=DK, 99=RF
o_indus	character varying(100)	Industry, Other
occup	integer	Occupation: 11=Management Occupations, such as President, CEO, Manager, Director, 13=Business and Financial Operations Occupants, such as Management Analyst, Research Analyst, Agent, Accountant, 15=Computer and Mathematical Occupations, such as Computer Programmer, Web Developer, Statistician, 17=Architecture and Engineering Occupations, such as Architect, Engineer, Drafter, Surveyor, 19=Life, Physical, and Social Science Occupations, such as Scientist, Survey Research, Psychologist, Science Technician,21=Community and Social Service Occupations, such as Counselor, Clergy, Social Worker, Probation Officer, 23=Legal Occupations, such as Lawyer, Law Clerk, Paralegal, 25=Education, Training and Library Occupations, such as Teacher, College Professor, Librarian, Teacher Assistant, 27=Arts, Design, Entertainment, Sports and Media Occupations, such as Professional Athlete, Writer, Camera Operator, 29=Healthcare Practitioners and Technical Occupations, including MD, RN, LVN, Dentist, Veterinarian, Licensed Technician, Therapist, 31=Healthcare Support Occupations, such as Health Aide, Nursing Assistant, Massage Therapist, 33=Protective Service Occupations, such as Correctional Officer, Police Officer, Firefighter, Security Guard, Crossing Guard, Security Screener, Lifeguard, 35=Food Preparation and Serving Related Occupations, such as Cook, Waiter/Waitress, Bartender, Food Server, Dishwasher, 37=Building and Grounds Cleaning and Maintenance Operations, such as Janitor, Maid, Housekeeper, Gardener, 39=Personal Care and Service Occupations, such as Hairdresser, Tour Guide, Childcare Worker, Card Dealer, 41=Sales and Related Occupations, such as Cashier, Sales Clerk, Sales Agent, Real Estate Broker, 43=Office and Administrative Support Occupations, such as Bank Teller, Office Clerk, Account Clerk, Postal Service Clerk, Data Entry

		Clerk, Secretary, Administrative Assistant, 45=Farming, Fishing, and Forestry Occupations, including Farmer, Field Worker, Animal Trainer/Breeder, 47=Construction and Extraction Occupations, including Electrician, Carpenter, Painter, Construction Equipment Operator, Miner, Driller, Explosive Worker, Etc., 49=Installation, Maintenance, and Repair Occupations, such as Repairer, Mechanic, Equipment Installer, 51=Production Occupations, such as Assembler, Baker, Machinist, Lab Technician (Medical, Dental, and Ophthalmic), Jeweler, 53=Transportation and Material Moving Occupations, such as Bus or Taxi Driver, Truck Driver, Crane Operator, Ship Loader, 55=Military Specific Occupations, 97=Other: (Specify), 98=DK, 99=RF
o_occup	character varying(100)	Occupation, Other
wloc2	integer	Work Location: 1=Fixed, 2=Home, 3=No fixed workplace, varies, 8=DK, 9=RF
wname2	character varying(150)	Secondary Work name
wcity2	character varying(50)	Secondary Work City
wzip2	character varying(5)	Secondary Work Zip
wxst2_1	character varying(50)	Secondary Work Cross Street1
wxst2_2	character varying(50)	Secondary Work Cross Street2
wstat2	character varying(15)	Secondary Work State: NA=Not Applicable/Out of the country
wdays2	integer	Days a secondary work: RANGE: 1-7, 8=DK, 9=RF
disab	integer	DISABILITY STATUS: 1=Yes, 2=No, 8=DK, 9=RF
dtype1	integer	Disability Type1:1=Hearing impaired/deaf (serious difficulty hearing), 2=Sight impaired/blind (includes difficulty seeing even when wearing glasses), 3=Cognitive impaired, such as serious difficulty concentrating, remembering or making decisions , 4=Balance or respiratory impairment, such as difficulty walking or climbing stairs with difficulty, 5=Difficulty dressing or bathing, 6=Difficulty doing errands alone, such as visiting a doctor's office or shopping, 97=Other, specify, 98=DK , 99=RF
dtype2	integer	Disability Type2:1=Hearing impaired/deaf (serious difficulty hearing), 2=Sight impaired/blind (includes difficulty seeing even when wearing glasses), 3=Cognitive impaired, such as serious difficulty concentrating, remembering or making decisions , 4=Balance or respiratory impairment, such as difficulty walking or climbing stairs with difficulty, 5=Difficulty dressing or bathing, 6=Difficulty doing errands alone, such as visiting a doctor's office or shopping, 97=Other, specify, 98=DK , 99=RF
dtype3	integer	Disability Type3:1=Hearing impaired/deaf (serious difficulty hearing), 2=Sight impaired/blind (includes difficulty seeing even when wearing glasses), 3=Cognitive impaired, such as serious difficulty concentrating, remembering or making decisions , 4=Balance or respiratory impairment, such as

		difficulty walking or climbing stairs with difficulty, 5=Difficulty dressing or bathing, 6=Difficulty doing errands alone, such as visiting a doctor's office or shopping, 97=Other, specify, 98=DK , 99=RF
dtype4	integer	Disability Type4:1=Hearing impaired/deaf (serious difficulty hearing), 2=Sight impaired/blind (includes difficulty seeing even when wearing glasses), 3=Cognitive impaired, such as serious difficulty concentrating, remembering or making decisions , 4=Balance or respiratory impairment, such as difficulty walking or climbing stairs with difficulty, 5=Difficulty dressing or bathing, 6=Difficulty doing errands alone, such as visiting a doctor's office or shopping, 97=Other, specify, 98=DK , 99=RF
dtype5	integer	Disability Type5:1=Hearing impaired/deaf (serious difficulty hearing), 2=Sight impaired/blind (includes difficulty seeing even when wearing glasses), 3=Cognitive impaired, such as serious difficulty concentrating, remembering or making decisions , 4=Balance or respiratory impairment, such as difficulty walking or climbing stairs with difficulty, 5=Difficulty dressing or bathing, 6=Difficulty doing errands alone, such as visiting a doctor's office or shopping, 97=Other, specify, 98=DK , 99=RF
dtype6	integer	Disability Type6:1=Hearing impaired/deaf (serious difficulty hearing), 2=Sight impaired/blind (includes difficulty seeing even when wearing glasses), 3=Cognitive impaired, such as serious difficulty concentrating, remembering or making decisions , 4=Balance or respiratory impairment, such as difficulty walking or climbing stairs with difficulty, 5=Difficulty dressing or bathing, 6=Difficulty doing errands alone, such as visiting a doctor's office or shopping, 97=Other, specify, 98=DK , 99=RF
dtype7	integer	Disability Type7:1=Hearing impaired/deaf (serious difficulty hearing), 2=Sight impaired/blind (includes difficulty seeing even when wearing glasses), 3=Cognitive impaired, such as serious difficulty concentrating, remembering or making decisions , 4=Balance or respiratory impairment, such as difficulty walking or climbing stairs with difficulty, 5=Difficulty dressing or bathing, 6=Difficulty doing errands alone, such as visiting a doctor's office or shopping, 97=Other, specify, 98=DK , 99=RF
o_dtype	character varying(125)	Other, Disability Type
dslic	integer	Disabled license plate: 1=Yes, 2=No, 8=DK, 9=RF
edis	integer	Disabled transit registration: 1=Yes, 2=No, 8=DK, 9=RF
ttrip	integer	Transit trips used in past week: RANGE:0-50, 98=DK, 99=RF
trnsub	integer	Transit Subsidy: 1=Yes, 2=No, 8=DK, 9=RF
subamt	double precision	Subsidized amount
subunt	integer	fair unit: 1=Per Hour, 2=Per Day, 3=Per Week, 4=Per Month, 5=Per Semester,6=Per Year, 7=Other, specify, 8=DK, 9=RF
o_subunt	character varying(60)	Other, fair unit
wtrip	integer	Walk in the last week: RANGE: 0-50, 98=DK, 99=RF

btrip	integer	Bicycle in the last week: RANGE: 0-50, 98=DK, 99=RF
stude	integer	Student: 1=YES - Full Time, 2=YES - Part Time, 3=NO, 8=DK, 9=RF
schol	integer	School grade level attends "1=DAYCARE, 2=NURSERY SCHOOL, PRE-SCHOOL, 3=KINDERGARTEN TO GRADE 8, 4=GRADE 9 TO 12, 5=TECHNICAL/VOCATIONAL SCHOOL, 6=2-YEAR COLLEGE (COMMUNITY COLLEGE), 7=4-YEAR COLLEGE OR UNIVERSITY, 8=GRADUATE SCHOOL/PROFESSIONAL, 97=OTHER, SPECIFY, 98=DK 99=RF
o_schol	character varying(165)	School grade level attends. Other
sloc	integer	Home School: 1=Yes, 2=No, 8=DK, 9=RF
sonln	integer	Online School: 1=On campus only, 2=Online only, 3=Both on campus and online, 8=DK, 9=RF
presch	integer	Pre-school location "1=Home of a relative/family member, 2=Home of friend, 3=Private daycare center, 7=Other, specify, 8=DK, 9=RF
o_presch	character varying(30)	Pre-school location, other
sname	character varying(150)	School name
scity	character varying(50)	School City
szip	character varying(5)	School Zip
sxst1	character varying(50)	School Cross Streets
sxst2	character varying(50)	School Cross Streets
sstat	character varying(15)	School State NA=Not Applicable/Out of the country
sxcord	character varying(30)	School X-coordinates
sycord	character varying(30)	School Y-coordinates
smode	integer	School mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized, 5=Auto / Van / Truck Driver,6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle, 11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit, 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) ,18=School Bus ,19=Public Transit Shuttle (DASH, Emery Go Round, etc.) ,20=AirBART / LAX FlyAway, 21=Dial-a-Ride / Paratransit (Access Services, etc.),22=Amtrak Bus, 23=Other Bus, 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail, 29=Ferry / Boat, 99=RF

educa	integer	Level of education completed: 1=Not a high school graduate, 12 grade or less (THIS INCLUDES VERY YOUNG CHILDREN TOO), 2=High school graduate (high school diploma or GED), 3=Some college credit but no degree, 4=Associate or technical school degree, 5=Bachelor's or undergraduate degree, 6=Graduate degree (includes professional degree like MD, DDs, JD), 7=OTHER, SPECIFY, 8=DK, 9=RF
o_educa	character varying(150)	Level of education completed, other
intrv	integer	ARE YOU INTERVIEWING THIS PERSON: 1=YES, 2=NO
proxy	integer	WHICH PERSON SERVED AS PROXY
cmplg	integer	Did [NAME] complete the travel log?"1=YES [COMPLETED], 2=NO [NOT COMPLETED], 3=DID NOT RECEIVE MATERIALS, 8=DON'T KNOW, 9=REFUSED
hvlog	integer	Have diary to refer to: 1=Yes, 2=No, 9=Prefer not to answer
ptrips	integer	Person Trips
tollf	integer	Did you use a toll: 1=Yes Toll Road, 2=Yes Toll Bridge, 3=No, 8=Not sure, 9=Prefer to not answer
tollr1	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr2	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr3	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr4	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125)

		(San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr5	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr6	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr7	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr8	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr9	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County, 98= Not sure 99=Prefer to not answer
tollr10	integer	Toll Road: 1=I-580 Express Lanes (Alameda County), 2=I-680 Express Lanes (Alameda County), 3=91 Express Lanes (Orange and Riverside Counties), 4=San Joaquin Hills Toll Road (SR-73) (Orange County), 5=Foothill Toll Road (SR-241) (Orange County),6=Eastern (SR-241/SR-261/SR-133) Toll (Orange County), 7=Interstate 15 Express Lanes (San Diego County), 8=South Bay Expressway (SBX) (SR-125) (San Diego County), 9=17-Mile Drive (Monterey County,

		98= Not sure 99=Prefer to not answer
tollb1	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb2	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb3	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb4	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb5	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb6	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb7	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb8	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb9	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
tollb10	integer	Toll Bridge: 1=Antioch Bridge, 2=Benicia - Martinez Bridge, 3=Carquinez Bridge, 4=Dumbarton Bridge, 5=Golden Gate Bridge, 6=Richmond - San Rafael Bridge, 7=San Francisco - Oakland Bay Bridge, 8=San Mateo - Hayward Bridge, 98=Not sure, 99=Prefer not to answer
hovl	integer	HOV lane used "1=Yes, 2=No, 98=Not sure, 99=Prefer not to answer
nogowhy	integer	Why no trips on travel day: 1=Personally sick, 2=Vacation

		or personal day, 3=Caretaking sick kids,4=Caretaking sick other, 5=Homebound elderly or disabled, 6=Worked at home for pay, 7=Not scheduled to work, 8=Worked around home (not for pay), 9=No transportation available, 10=Out of California, 11=Weather, 12=No reason to travel, 97=Other, 98=Not sure, 99=Prefer to not answer
nogowhy_o	character varying(225)	Why no trips on travel day, other
incomplete	integer	Person Retrieval Incomplete Flag from Valid Partial Complete Household 1=Did not report travel
moto_trip	integer	1=Yes, has at least one moto-trip on travel day (MODE=5, 6, 7, 8, 10), 2=No, do not have moto-trip on travel day
wctfip	character varying(3)	Work location county FID code 2010
wctract	character varying(6)	Work location census tract ID 2010
sctfip	character varying(3)	School location county FID code 2010
sctract	character varying(6)	School location census tract ID 2010
wprimarycity	character varying(100)	Work location city - primary city name
wstfip	character varying(2)	Work location state FIPS code
w2primarycity	character varying(100)	Second work location city - primary city name
w2stfip	character varying(2)	Second work location state FIPS code
sprimarycity	character varying(100)	School location city - primary city name
sstfip	character varying(2)	School location state FIPS code
perwgt	double precision	Final person weight
expperwgt	double precision	Expanded final person weight

Activity:

For each place visited over the sample period, a description of up to three activities was collected. This table contains a row for each place a person visited over the duration of the study. Each person is identified using the household identifier (sampno) and the person identifier (perno). The place visited is identified using a place identifier (plano) unique to each person referencing the place table.

Name	Data type	Comment
sampno	integer	Household ID number
perno	integer	Person number
plano	integer	Place number
actno	integer	Activity number
actoth	integer	Did anyone else participate with you?: 1=Yes, with others, 2=No, I was alone, 8=Not sure , 9=Prefer to not answer
acthh	integer	Number of HH/family Members
actor	integer	Number of other relatives
actwk	integer	Number of people from your Work
actsc	integer	Number of people from your School
actrg	integer	Number of people from same rel/social org
actfr	integer	Number of Friends
actot	integer	Number of Other relations
apurp	integer	Purpose: 1= PERSONAL ACTIVITIES (SLEEPING, PERSONAL CARE, LEISURE, CHORES), 2=PREPARING MEALS/EATING, 3=HOSTING VISITORS/ENTERTAINING GUESTS, 4=EXERCISE (WITH OR WITHOUT EQUIPMENT)/PLAYING SPORTS, 5=STUDY / SCHOOLWORK,6=WORK FOR PAY AT HOME USING TELECOMMUNICATIONS EQUIPMENT, 7=USING COMPUTER/TELEPHONE/CELL OR SMART PHONE OR OTHER COMMUNICATIONS DEVICE FOR PERSONAL ACTIVITIES, 8=ALL OTHER ACTIVITIES AT MY HOME, 9=WORK/JOB DUTIES, 10=TRAINING, 11=MEALS AT WORK, 12=WORK-SPONSORED SOCIAL ACTIVITIES (HOLIDAY OR BIRTHDAY CELEBRATIONS, ETC), 13=NON-WORK RELATED ACTIVITIES (SOCIAL CLUBS, ETC), 14=EXERCISE/SPORTS, 15=VOLUNTEER WORK/ACTIVITIES, 16=ALL OTHER WORK-RELATED ACTIVITIES AT MY WORK, 17=IN SCHOOL/CLASSROOM/LABORATORY, 18=MEALS AT SCHOOL/COLLEGE, 19=AFTER SCHOOL OR NON-CLASS-RELATED SPORTS/PHYSICAL ACTIVITY, 20=ALL OTHER AFTER SCHOOL OR NON-CLASS RELATED ACTIVITIES (LIBRARY, BAND REHEARSAL, CLUBS, ETC) , 21=CHANGE TYPE OF TRANSPORTATION/TRANSFER (WALK TO BUS, WALK TO/FROM PARKED CAR), 22=PICKUP/DROP

		OFF PASSENGER(S), 23=DRIVE THROUGH MEALS (SNACKS, COFFEE, ETC.) [SHOW IF PTYPE <> 1 (HOME)], 24=DRIVE THROUGH OTHER (ATM, BANK) [SHOW IF PTYPE <> 1], 25=WORK-RELATED (MEETING, SALES CALL, DELIVERY), 26=SERVICE PRIVATE VEHICLE (GAS, OIL, LUBE, REPAIRS), 27=ROUTINE SHOPPING (GROCERIES, CLOTHING, CONVENIENCE STORE, HH MAINTENANCE), 28=SHOPPING FOR MAJOR PURCHASES OR SPECIALTY ITEMS (APPLIANCE, ELECTRONICS, NEW VEHICLE, MAJOR HH REPAIRS), 29=HOUSEHOLD ERRANDS (BANK, DRY CLEANING, ETC.), 30=PERSONAL BUSINESS (VISIT GOVERNMENT OFFICE, ATTORNEY, ACCOUNTANT), 31=EAT MEAL AT RESTAURANT/DINER, 32=HEALTH CARE (DOCTOR, DENTIST, EYE CARE, HIROPRACTOR, VETERINARIAN), 33=CIVIC/RELIGIOUS ACTIVITIES, 34=OUTDOOR EXERCISE (PLAYING SPORTS/JOGGING, BICYCLING, WALKING, WALKING THE DOG, ETC.), 35=INDOOR EXERCISE (GYM, YOGA, ETC.), 36=ENTERTAINMENT (MOVIES, WATCH SPORTS, ETC), 37=SOCIAL/VISIT FRIENDS/RELATIVES, 38=OTHER (SPECIFY) [NOTE: LISTED ON DIARY] (O_APURP),39=LOOP TRIP (FOR INTERVIEWER ONLY-NOT LISTED ON DIARY), 99=DONT KNOW/REFUSED
o_apurp	character varying(150)	Purpose, Other
stime	time without time zone	Start Time
etime	time without time zone	End Time
perwgt	double precision	Final person weight
experwgt	double precision	Expanded final person weight
tripno	integer	Unlinked trip id
tcf	double precision	Trip correction factor
tcfperwgt	double precision	Final trip weight
exptcfperwgtt	double precision	Expanded final trip weight

Place:

This table is a record of each place visited during the sample period. The place identifier is unique to a person, and a vehicle identifier is included to identify the vehicle used to travel to the place.

Name	Data type	Comment
sampn	integer	Sample number
perno	integer	Person number
plano	integer	Place number
tottr	integer	Total People traveling on trip
hhmem	integer	Number of household members on trip
per1	integer	Person number on trip
per2	integer	Person number on trip
per3	integer	Person number on trip
per4	integer	Person number on trip
per5	integer	Person number on trip
nonhh	integer	Number of non-household members traveling together
mode	integer	Mode of trip
vehno	integer	Household vehicle number used on trip
dygov	integer	Get out of vehicle
prkty	integer	Parking location type
o_prkty	character varying(155)	Parking location type, other
pxstr	character varying(155)	Parking location address
prkmin	integer	Time(Mins) walking from Park to destination
paypk	integer	Pay to park
pkamt	character varying(15)	Parking amount
pkunt	integer	Parking unit
prkhw	integer	How did you pay f or parking
o_prkhw	character varying(35)	How did you pay f or parking, other
empark	character varying(8)	Parking cost not reimbursed by employer
transys	integer	Transit system
o_transys	character varying(255)	Transit system, other
route	character varying(55)	Transit Route
actcnt	integer	Number of activities
arr_hr	integer	Arrival time- hour
arr_min	integer	Arrival time - minute
dep_hr	integer	Departure time - hour
dep_min	integer	Departure time - minute
tripdur	integer	Travel time to place in minutes
actdur	integer	Activity duration at place in minutes
pname	character varying(255)	Place Name
city	character varying(55)	City
state	character varying(25)	State
zip	character varying(25)	Zip
xcord	character varying(25)	X-coordinate
ycord	character varying(25)	Y-coordinate

tripdistance	double precision	Route Distance
tripdistanceflag	double precision	Route Distance 1= Missing; Note: 2360 trip places have missing trip distance. It happened when Google failed to generate a route between the places or the client-side Java script failed to save the route back to the server.
airtripdistance	double precision	Travel distance (air distance)
ctfip	character varying(55)	Trip location county FID code 2010
tract	character varying(55)	Trip location census tract ID 2010
pprimarycity	character varying(55)	Trip place location city - primary city name
pstfip	character varying(55)	Trip place location state fips code
perwgt	double precision	Final person weight
expperwgt	double precision	Expanded final person weight
tripno	integer	Unlinked trip id
tcf	double precision	Trip correction factor
tcfperwgt	double precision	Final trip weight
exptcfperwgt	double precision	Expanded final trip weight

Vehicles:

This table contains the household respondent's vehicle ownership information. Included in this table are the vehicles a household owns.

Name	Data type	Comment
sampn	integer	Sample Number
vehno	integer	Vehicle number
year	integer	Year of vehicle: RANGE: 1930-2013, 9998=DK, 9999=RF
make	integer	Vehicle make: 11=ACURA, 12=AUDI, 13=BMW, 57=BUELL, 14=BUICK, 15=CADILLAC, 16=CHEVROLET, 17=CHRYSLER, 18=DAEWOO, 19=DODGE, 58=DUCATI, 20=FORD, 21=GEO, 22=GMC, 23=HARLEY DAVIDSON, 24=HONDA, 25=HUMMER, 26=HYUNDAI, 27=INFINITI, 28=ISUZU, 29=JAGUAR, 30=JEEP, 31=KAWASAKI, 32=KIA, 44=LAND ROVER, 33=LEXUS, 34=LINCOLN, 35=MAZDA, 36=MERCEDES, 37=MERCURY, 54=MINI, 38=MITSUBISHI, 39=NISSAN, 40=OLDSMOBILE, 41=PLYMOUTH, 42=PONTIAC, 43=PORSCHE, 55=RAM, 45=SAAB, 46=SATURN, 47=SCION, 56=SMART, 48=SUBARU, 49=SUZUKI, 50=TOYOTA, 59=TRIUMPH, 51=VOLKSWAGEN, 52=VOLVO ,53=YAMAHA , 97=OTHER, SPECIFY, 98=DK, 99=RF
o_make	character varying(150)	Other, Vehicle make
model	character varying(75)	Vehicle model
series	character varying(12)	Series: 000000=No Series, 999997=Other Specify, 999998=DK, 999999=RF, [REFER TO SERIES TAB FOR CODE LIST]
o_series	character	Other, Series

		varying(150)	
body	integer	Body type: 1=SEDAN (4-door), 2=SUV, 3=PICK-UP TRUCK, 4=COUPE (2-door), 5=CONVERTIBLE , 6=HATCHBACK, 7=WAGON, 8=MINIVAN , 9=VAN , 10=OTHER KIND OF TRUCK, 11=RECREATIONAL VEHICLE, 12=MOTORCYCLE, 3=MOPED/SCOOTER (e.g. VESPA), 97=OTHER, SPECIFY (WATERCRAFT, CROSSOVER, ETC), 98=DK ,99=RF
o_body	character varying(150)	Other, Body type
fuelt1	integer	Fuel type: 1=Gasoline, 2=Diesel, 3=Electric/Electric Battery, 4=CNG - Natural Gas , 5=Biofuel, Ethanol, Biodiesel, 7=Other (specify),8=DK, 9=RF
fuelt2	integer	Fuel type: 1=Gasoline, 2=Diesel, 3=Electric/Electric Battery, 4=CNG - Natural Gas , 5=Biofuel, Ethanol, Biodiesel, 7=Other (specify),8=DK, 9=RF
fuelt3	integer	Fuel type: 1=Gasoline, 2=Diesel, 3=Electric/Electric Battery, 4=CNG - Natural Gas , 5=Biofuel, Ethanol, Biodiesel, 7=Other (specify),8=DK, 9=RF
fuelt4	integer	Fuel type: 1=Gasoline, 2=Diesel, 3=Electric/Electric Battery, 4=CNG - Natural Gas , 5=Biofuel, Ethanol, Biodiesel, 7=Other (specify),8=DK, 9=RF
fuelt5	integer	Fuel type: 1=Gasoline, 2=Diesel, 3=Electric/Electric Battery, 4=CNG - Natural Gas , 5=Biofuel, Ethanol, Biodiesel, 7=Other (specify),8=DK, 9=RF
fuelt6	integer	Fuel type: 1=Gasoline, 2=Diesel, 3=Electric/Electric Battery, 4=CNG - Natural Gas , 5=Biofuel, Ethanol, Biodiesel, 7=Other (specify),8=DK, 9=RF
o_fuelt	character varying(150)	Other, Fuel type
ciglt	integer	Working power outlet: 1=Yes, 2=No, 8=DK , 9=RF
vehaq	integer	Vehicle acquired: 1=New, 2=Used, 8=DK , 9=RF
vehown	integer	Vehicle ownership: 1=Owned by household member, 2=Leased by household member, 3=Owned or leased by employer/company, 4=Owned or leased by person not living in household , 7=Other,8=DK, 9=RF
o_vehown	character varying(150)	Other, Vehicle ownership
vehins	integer	Vehicle insurance: 1=Yes, 2=No, 8=DK, 9=RF
vehobd	integer	Vehicle devices: 1=Yes, 2=No, 8=DK, 9=RF
vehtrn	integer	Vehicle Transmission: 1=Automatic, 2=Manual, 3=BOTH AUTOMATIC AND MANUAL OPTIONS (e.g. Tiptronic), 8=Don't Know,9=Refuse
vehdrt	integer	Power train: 1=Front wheel drive, 2=Rear-wheel drive 3=Four-wheel drive (all-wheel drive), 7=Other, 8=Not sure, 9=Prefer to not answer
o_vehdrt	character varying(150)	Power train, other
vehcyl	integer	Cylinders: 1=Two, 2=Four, 3=Five, 4=Six, 5=Eight, 6=Ten, 7=Twelve, 97=OTHER: SPECIFY, 98=DONT KNOW, 99=REFUSE
o_vehcyl	character varying(150)	Cylinders, other
vehout	integer	Electrical outlet: RANGE: 1- 8999, 9000=NO OUTLET,

		9998=DONT KNOW, 9999=REFUSE
vehvlt	integer	Outlet volts: 1=Standard 110 volt (OUTLET FOR SMALL APPLIANCES, LAMPS, ETC), 2=220 volt (ROUND OUTLET FOR LARGE APPLIANCES SUCH AS WASHING MACHINES, DRYERS, REFRIGERATORS), 8=DONT KNOW, 9=REFUSE
veht	integer	Vehicle Type: 1 =Hybrid Vehicle (GO TO FUELT [PROG: SHOW ALL]), 2 =Gasoline Only Vehicle (AUTO FILL FUELT=1), 3 =Diesel Only Vehicle (GO TO FUELT [PROG: SHOW ONLY CHOICES 2 & 5]), 4 =Plug In Hybrid Electric Vehicle (GO TO FUELT [PROG: SHOW ALL]), 5 =CNG (AUTO FILL FUELT=4), 6= Electric Only (AUTO FILL FUELT=3), 7=OTHER (GO TO FUELT [PROG: SHOW ALL]), 9= Don't Know / Refused
cntv	integer	Vehicle used on travel day: 1=Used, 2=Not used
wycntv	integer	Reason why not: 1=Did not travel on travel day, 2=Vehicle not needed, 3=Prefer to use transit, 4=Used bicycle, 5=Prefer to walk, 6=Vehicle not working/in shop, 7=Travelled with others, 8=Wanted to help the environment, 9=Parking cost too high, 10=Fuel costs too high, 11=Short trip, 12=Long trip, 97=Other (specify) (O_WYCNTV), 98 DONT KNOW, 99 REFUSE
o_wycntv	character varying(255)	Other, Reason why not
hhwgt	double precision	Final household weight
exphhwgt	double precision	Expanded final household weight

Long-Distance Trips:

During part of the study, respondents were asked to record (in a long-distance log) the long-distance, inter-regional household trips that occurred in the prior eight weeks. The results of the survey are included in this table, and the census geography identifiers of the locations visited are recorded for each trip.

Name	Data type	Comment
sampn	integer	sample number
ldno	integer	Long distance trip number
lddat	character varying(15)	Date
ldorg	integer	Origin: 1=Home, 2=Primary job, 3=School, 4=Second Job, 7=Other, specify address, 8=Don't know, 9=Refuse
ldopnm	character varying(150)	Origin Place Name
ldocity	character varying(50)	Origin City
ldozip	character varying(15)	Origin Zip code
ldost	character varying(50)	Origin State
ldocntr	character	Origin Country

	varying(50)	
ldoxcord	character varying(25)	Origin X-coordinate
ldoycord	character varying(25)	Origin Y-coordinate
lddpnm	character varying(150)	Destination Place Name
lddcity	character varying(75)	Destination City
lddzip	character varying(10)	Destination Zip code
lddst	character varying(75)	Destination State
lddcntr	character varying(50)	Destination Country
lddxcord	character varying(25)	Destination X-coordinate
lddycord	character varying(25)	Destination Y-coordinate
ldtpurp	integer	Long distance Trip Purpose: 1=Going to work, 2=Business (work-related meeting/convention/seminar, 3=Combined business and pleasure, 4=School -related activity, 5=Visit friends/family/relatives, 6=Medical, 7=Vacation/sightseeing, ,8=Outdoor recreation (sports, fishing, hunting, camping, boating, etc.), 9=Entertainment (theater, concert, sports event, gambling, etc.), 10=Personal Business (e.g. shopping), 11=Drive someone else, 12=Return home, 97=Other (specify), 98=Don't know, 99=Refuse
o_ldtpupr	character varying(120)	Long distance Trip Purpose, other
ldwho	integer	People on trip: RANGE: 0-25, 98=Don't Know, 99=Refused
ldmhh	integer	Household members on trip: RANGE: 0-8, 98=Don't Know, 99=Refused
ldini1	integer	Person who made trip1
ldini2	integer	Person who made trip2
ldini3	integer	Person who made trip3
ldini4	integer	Person who made trip4
ldini5	integer	Person who made trip5
ldini6	integer	Person who made trip6
ldini7	integer	Person who made trip7
ldini8	integer	Person who made trip8
ldmode1	integer	Long distance Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus ,

		19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
ldmode2	integer	Long distance Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
ldmode3	integer	Long distance Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
ldmode4	integer	Long distance Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van /

		Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
maxdate	integer	Latest LD Trip Flag: 0=No, 1=Yes
ldtim	character varying(15)	Time start
lddppnm	character varying(150)	Departure Place Name
lddpmode1	integer	Departure Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
lddpmode2	integer	Departure Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus ,

		19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
lddpmode3	integer	Departure Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
lddpmode4	integer	Departure Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
ldarpnm	character varying(150)	Arrival Place Name
ldarmode1	integer	Arrival Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility

		Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
ldarmode2	integer	Arrival Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
ldarmode3	integer	Arrival Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus ,

		23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
ldarmode4	integer	Arrival Mode: 1=Walk, 2=Bike, 3=Wheelchair / Mobility Scooter, 4=Other Non-Motorized (please specify), 5=Auto / Van / Truck Driver, 6=Auto / Van / Truck Passenger, 7=Carpool / Vanpool, 8=Motorcycle / Scooter / Moped, 9=Taxi / Hired Car / Limo, 10=Rental Car/Vehicle,11=Private shuttle (SuperShuttle, employer, hotel, etc.), 12=Greyhound Bus, 13=Plane, 14=Other Private Transit (please specify), 15=Local Bus, Rapid Bus , 16=Express Bus / Commuter Bus (AC Transbay, Golden Gate Transit, etc.) , 17=Premium Bus (Metro Orange / Silver Line) , 18=School Bus , 19=Public Transit Shuttle (DASH, Emery Go Round, etc.) , 20=AirBART / LAX FlyAway , 21=Dial-a-Ride / Paratransit (Access Services, etc.) , 22=Amtrak Bus , 23=Other Bus (write code and specify) , 24=BART, Metro Red / Purple Line, 25=ACE, Amtrak, Caltrain, Coaster, Metrolink, 26=Metro Blue / Green / Gold Line, Muni Metro, Sacramento Light Rail, San Diego Sprinter / Trolley / Orange/Blue/Green, VTA Light Rail, 27=Street Car / Cable Car, 28=Other Rail (please specify) , 29=Ferry / Boat, 99=DK/RF
ldoctfip	character varying(10)	Long distance trip origin location county FID code 2010
ldoctract	character varying(10)	Long distance trip origin location census tract ID 2010
lddctfip	character varying(10)	Long distance trip destination location county FID code 2010
lddctract	character varying(10)	Long distance trip destination location census tract ID 2010
returnhometrip flag	integer	Return Home Trip Flag: 1=Return Home Trip
ldoprimarycity	character varying(100)	Long Distance Trip Origin City - Primary City Name
ldostfip	character varying(10)	Long Distance Trip Origin State Fips
lddprimarycity	character varying(100)	Long Distance Trip Destination City - Primary City Name
lddstfip	character varying(10)	Long Distance Trip Origin State Fips

Processed-Data Attributes:

The attributes documented include all attributes available within the controlled-access area. Some attributes are not publicly available, including any reference to census geographies, spatial data (geometry columns), and the data appended to the speed profile (elevation, grade, functional class, speed category). While spatial detail is removed, it is summarized in the results tables.

Vehicles:

This table contains the unique vehicle identifier assigned by NREL along with the original vehicle identifier from the study. This table acts as a crosswalk between the original vehicle GPS data and the original study. Included with the identifiers are the make, mode, year, and fuel type for each vehicle. Appended to the table is the home location of the vehicle (when known).

Name	Data type	Comment
vid	Integer	Unique NREL vehicle identifier
did	integer	Unique deployment identifier
pid	integer	Unique data provider identifier
og_vid1	character varying(12)	The original studies vehicle identifier
og_vid2	character varying(5)	The original studies vehicle identifier when multiple values are used
year	integer	The model year of the vehicle
type	character varying(35)	The type of vehicle (sedan, SUV, ...), non-standard across deployments
make	character varying(35)	The make of the vehicle
model	character varying(35)	The model of the vehicle
fuel	character varying(35)	The fuel type of the vehicle
geom	geometry	Point geometry representing the home location of the vehicle

Points:

This table is a processed version of the speed and time profile. The additional data channels appended during NREL processing are not provided in the public-access area, but are summarized in the results for vehicle, days, and trips.

Name	Data type	Comment
vid	integer	Unique NREL vehicle identifier
local_ts	timestamp without time zone	The timestamp specific to the time zone the point was recorded

rel_ts	double precision	The number of seconds from the first recorded point for the vehicle
speed	double precision	Vehicle Speed (MPH)
elev	double precision	Elevation from USGS DEM lookup, and NREL elevation processing (ft)
grade	double precision	Instantaneous grade of the vehicle using the processed elevation value (*100 to get percent)
func_class	integer	The functional classification of the matched street link
speed_cat	integer	The speed category of the matched street link
geom	geometry	POINT Geometry representing the Longitude/Latitude recorded by the vehicle

Results Vehicle:

This table contains drive-cycle calculations and road-use statistics using the full vehicle sample. Also included in the table are counts of the trips starting and leaving at the home/work/school locations.

Name	Data type	Comment
vid	integer	Unique NREL vehicle identifier
did	integer	Unique deployment identifier
day_count	integer	The count of days occurring for the vehicles sample duration
trip_count	integer	The count of trips occurring for the vehicles sample duration
mt_count	integer	The count of micro-trips occurring for the vehicles sample duration
start_ts	timestamp without time zone	The local timestamp of the first recorded point for the vehicle
end_ts	timestamp without time zone	The local timestamp of the last recorded point for the vehicle
start_rts	double precision	Seconds from first recorded timestamp for the vehicle, first point recorded
end_rts	double precision	Seconds from first recorded timestamp for the vehicle, last point recorded
absolute_time _duration_hrs	double precision	Absolute time duration in hours. This is calculated on the total number of samples collected and independent of real time duration.
speed_data_d uration_hrs	double precision	Total number of hours of data collected. Includes zero speed components.
driving_data_ duration_hrs	double precision	Duration of collected data while vehicle is in motion. Does not include zero speed time.
non_recorded _time_hrs	double precision	Total number of hours which were not recorded by the device. Calculated as the difference between the real time duration of the data and the collected data duration.
collected_vs_ real_time_rati o	double precision	Ratio of collected sample duration to real time duration
mean_estimat ed_sampling_ rate_hz	double precision	Computed sampling rate based on average time gap observed between samples in collected data

max_gap_bet ween_sample s_s	double precision	Maximum time gap observed between samples in collected data
min_gap_bet ween_sample s_s	double precision	Minimum time gap observed between sampled in collected data
mean_gap_be tween_sampl es_s	double precision	Average time gap observed between sampled in collected data
median_gap_ between_sam ples_s	double precision	Median time gap observed between sampled in collected data
std_gap_betw een_samples_ s	double precision	Standard deviation of time gaps between samples observed in collected data
var_gap_betw een_samples_ s	double precision	Variance of time gaps observed in collected data
gap_25th_per centile_s	double precision	Twenty Fifth percentile time gap between samples observed in collected data
gap_75th_per centile_s	double precision	Seventy Fifth percentile time gap between samples observed in collected data
gap_inter_qu artile_range_ s	double precision	Inter Quartile Range for distribution of time gaps between samples observed in collected data
gap_median_ absolute_devi ation_s	double precision	Median Absolute Deviation for distribution of time gaps between samples observed in collected data
median_estim ated_samplin g_rate_hz	double precision	Estimated sampling rate based on median time gap observed between samples in collected data
max_speed	double precision	Maximum observed driving speed
total_average _speed	double precision	Average speed over cycle including zero speed components
total_median _speed	double precision	Median of all observed speed data. Includes zero speed components
total_root_me an_cubed_sp eed	double precision	Root mean cubed value of all observed speed data. Includes zero speed components.
total_speed_v ariance	double precision	Variance of all observed speed values. Includes zero speed components.
total_speed_s tandard_devi ation	double precision	Standard deviation of all observed speed values. Includes zero speed components.
total_speed_v elocity_ratio	double precision	Total vehicle speed velocity ratio
total_speed_2 5th_percentil e	double precision	25th percentile value for speed distribution. Includes zero speed components.
total_speed_7 5th_percentil e	double precision	75th percentile value for all observed speed points. Includes zero speed components.
total_speed_i nter_quartile _range	double precision	Inter quartile range for distribution including all observed speed points. Includes zero speed components.

total_speed_ median_absol ute_deviation	double precision	Median absolute deviation of all observed speed values. Includes zero speed components.
driving_avera ge_speed	double precision	Average driving speed over cycle. Does not include any zero speed components.
driving_media n_speed	double precision	Median driving speed over cycle. Does not include any zero speed components.
driving_root_ mean_cubed_ speed	double precision	The square root of the mean driving speed cubed
driving_speed _variance	double precision	Variance of observed driving speed. Does not include zero speed components.
driving_speed _standard_de viation	double precision	Standard deviation of driving speed distribution. Does not include zero speed components.
driving_speed _velocity_rati o	double precision	Ratio of root mean cubed speed to mean total speed
driving_speed _25th_percen tile	double precision	The 25th percentile for driving speed distribution
driving_speed _75th_percen tile	double precision	75th percentile value for driving speed distribution. Does not include zero speed components.
driving_speed _inter_quartil e_range	double precision	Inter quartile range of observed driving speed distribution. Does not include zero speed components.
driving_speed _median_abs olute_deviatio n	double precision	Median absolute deviation of observed driving speeds. Does not include zero speed components.
zero_seconds	double precision	Number of seconds at zero speed
zero_five_sec onds	double precision	Total time spent at speeds between zero and five miles per hour
five_ten_seco nds	double precision	Total time observed at speeds between five and ten miles per hour
ten_fifteen_s econds	double precision	Number of seconds spent at speeds between ten and fifteen miles per hour
fifteen_twent y_seconds	double precision	Total amount of time observed at speeds between fifteen and twenty miles per hour
twenty_twent y_five_second s	double precision	Total time spent at speeds between twenty and twenty five miles per hour
twenty_five_t hirty_seconds	double precision	Total time spent at speeds between twenty five and thirty miles per hour
thirty_thirty_f ive_seconds	double precision	Total time spent at speeds between thirty and thirty five miles per hour
thirty_five_fo urty_seconds	double precision	Total amount of time spent at speeds between thirty five and forty miles per hour
fourty_fourty _five_seconds	double precision	Total amount of time at speeds between forty and forty five miles per hour
fourty_five_fif ty_seconds	double precision	Number of seconds spent between forty five and fifty miles per hour vehicle speed
fifty_fifty_five _seconds	double precision	Total amount of time observed at speeds between fifty and fifty five miles per hour

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fifty_five_sixty_seconds	double precision	Total time spent at speeds between fifty five and sixty miles per hour
sixty_sixty_five_seconds	double precision	Total amount of time spent at speeds between sixty and sixty five miles per hour
sixty_five_seventy_seconds	double precision	Total amount of time observed at speeds between sixty five and seventy miles per hour
seventy_seventy_five_seconds	double precision	Total time observed at speeds between seventy and seventy five miles per hour
seventy_five_plus_seconds	double precision	Total amount of time spent at speeds in excess of seventy five miles per hour
driving_time_seconds	double precision	Total time spent while vehicle is in motion. Does not include zero speed time.
percent_zero	double precision	Percent of total time spent and zero speed
percent_zero_five	double precision	Percent of total time spent at speeds between zero and five miles per hour
percent_five_ten	double precision	Percent of total time spent at speeds between five and ten miles per hour
percent_ten_fifteen	double precision	Percent of total time spent at speeds between ten and fifteen miles per hour
percent_fifteen_twenty	double precision	Percent of total time spent at speeds between fifteen and twenty miles per hour
percent_twenty_twenty_five	double precision	Percent of total time spent at speeds between twenty and twenty five miles per hour
percent_twenty_five_thirty	double precision	Percent of total time spent at speeds between thirty and thirty five miles per hour
percent_thirty_thirty_five	double precision	Percent of total time spent at speeds between thirty and thirty five miles per hour
percent_thirty_five_fourty	double precision	Percent of total time spent at speeds between thirty five and forty miles per hour
percent_fourty_fourty_five	double precision	Percent of total time spent at speeds between forty and forty five miles per hour
percent_fourty_five_fifty	double precision	Percent of time spent at speeds between forty five and fifty miles per hour
percent_fifty_fifty_five	double precision	Percent of total time spent at speeds between fifty and fifty five miles per hour
percent_fifty_five_sixty	double precision	Percent of time at speeds between fifty five and sixty miles per hour
percent_sixty_sixty_five	double precision	Percent of total time spent at speeds between sixty and sixty five miles per hour
percent_sixty_five_seventy	double precision	Percent of time at speeds between sixty five and seventy miles per hour
percent_seventy_seventy_five	double precision	Percent of total time observed at speeds between seventy and seventy five miles per hour
percent_seventy_five_plus	double precision	Percent of total time spent at speeds in excess of seventy five miles per hour
percent_distance_zero_five	double precision	Percent of total distance traveled at speeds between zero and five miles per hour
percent_distance_twenty_twenty_five	double precision	Percent of total distance traveled at speeds between twenty and twenty five miles per hour

percent_distance_twenty_five_thirty	double precision	Percent of total distance traveled at speeds between twenty five and thirty miles per hour
percent_distance_total	double precision	Total percentage of distance traveled at all speeds in cycle. Will always sum to 100%.
percent_distance_thirty_thirty_five	double precision	Percent of distance traveled at speeds between thirty and thirty five miles per hour
percent_distance_thirty_five_fourty	double precision	Percent of total miles traveled at speeds between thirty five and forty miles per hour
percent_distance_ten_fifteen	double precision	Percent of total distance traveled at speeds between ten and fifteen miles per hour
percent_distance_sixty_sixty_five	double precision	Percent of total distance traveled at speeds between sixty and sixty five miles per hour
percent_distance_sixty_five_seventy	double precision	Percent of total distance traveled at speeds between sixty five and seventy miles per hour
percent_distance_seventy_seventy_five	double precision	Percent of total distance traveled at speeds between seventy and seventy five miles per hour
percent_distance_seventy_five_plus	double precision	Percent of total distance traveled at speeds in excess of seventy five miles per hour
percent_distance_fourty_fourty_five	double precision	Percent of total distance traveled at speeds between fort and forty five miles per hour
percent_distance_fourty_five_fifty	double precision	Percent of total distance traveled at speeds between forty five and fifty miles per hour
percent_distance_five_ten	double precision	Percent of total distance traveled between five and ten miles per hour
percent_distance_fifty_five_sixty	double precision	Percent of total distance traveled at speeds between fifty five and sixty miles per hour
percent_distance_fifty_fifty_five	double precision	Percent of total distance traveled at speeds between fifty and fifty five miles per hour
percent_distance_fifteen_twenty	double precision	Percent of total distance traveled at speeds between fifteen and twenty miles per hour
percent_total	double precision	Total time spent at all speeds in cycle. Will always add up to 100%.
distance_zero_five	double precision	Total distance traveled in miles at speeds between zero and five miles per hour
distance_five_ten	double precision	Total distance traveled in miles at speeds between five and ten miles per hour
distance_ten_fifteen	double precision	Total distance traveled in miles at speeds between ten and fifteen miles per hour
distance_fifteen_twenty	double precision	Total distance traveled in miles at speeds between fifteen and twenty miles per hour
distance_twenty_twenty_fi	double precision	Total distance traveled in miles at speeds between twenty and twenty five miles per hour

ve		
distance_twe nty_five_thirt y	double precision	Total distance traveled in miles at speeds between twenty five and thirty miles per hour
distance_thirt y_thirty_five	double precision	Total number of miles traveled at speeds between thirty and thirty five miles per hour
distance_thirt y_five_fourty	double precision	Total distance traveled in miles at speeds between thirty five and forty miles per hour
distance_four ty_fourty_five	double precision	Total number of miles traveled at speeds between forty and forty five miles per hour
distance_four ty_five_fifty	double precision	Total number of miles traveled between forty five and fifty miles per hour
distance_fifty _fifty_five	double precision	Total number of miles traveled between fifty and fifty five miles per hour
distance_fifty _five_sixty	double precision	Total distance traveled in miles at speeds between fifty five and sixty miles per hour
distance_sixt y_sixty_five	double precision	Distance in miles traveled at speed from sixty to sixty five mph
distance_sixt y_five_sevent y	double precision	Total number of miles traveled between sixty five and seventy miles per hour
distance_seve nty_seventy_f ive	double precision	Total distance traveled in miles as speeds between seventy and seventy five miles per hour
distance_seve nty_five_plus	double precision	Distance in miles traveled at speeds in excess of 75 mph
distance_total	double precision	Total distance traveled in miles
total_number _of_accelerati on_events	double precision	Total number of observed acceleration events
total_number _of_decelerati on_events	double precision	Total number of observed acceleration events
acceleration_ events_per_m ile	double precision	Number of acceleration events observed per mile of distance traveled
deceleration_ events_per_m ile	double precision	Number of deceleration events observed per mile of distance traveled
max_accelera tion_ft_per_s econd_square d	double precision	Maximum acceleration rate in ft per second squared
max_decelera tion_ft_per_s econd_square d	double precision	Maximum deceleration in ft per second squared
average_accel eration_ft_pe r_second_squ ared	double precision	Average acceleration rate in ft per second squared
average_dece leration_ft_pe r_second_squ ared	double precision	Average deceleration in ft per second squared

median_accel eration_ft_pe r_second_squ ared	double precision	Median acceleration rate in ft per second squared
median_decel eration_ft_pe r_second_squ ared	double precision	Median deceleration rate in ft per second squared
std_accelerati on_ft_per_sec ond_squared	double precision	Standard deviation of acceleration in ft per second squared
std_decelerati on_ft_per_sec ond_squared	double precision	Standard deviation of observed deceleration in ft per second squared
var_accelerati on_ft_per_sec ond_squared	double precision	Variance of observed acceleration rate distribution in ft per second squared
var_decelerati on_ft_per_sec ond_squared	double precision	Variance of observed deceleration in ft per second squared
acceleration_ 25th_percenti le_ft_per_sec ond_squared	double precision	25th percentile for acceleration distribution. Value in ft per second squared.
deceleration_ 25th_percenti le_ft_per_sec ond_squared	double precision	25th percentile value for deceleration rate distribution in ft per second squared
acceleration_ 75th_percenti le_ft_per_sec ond_squared	double precision	75th percentile value for observed acceleration rate distribution in ft per second squared
deceleration_ 75th_percenti le_ft_per_sec ond_squared	double precision	75th percentile value for deceleration rate in ft per second squared
acceleration_i nter_quartile _range_ft_per _second_squa red	double precision	Inter quartile range of acceleration in ft per second squared
deceleration_i nter_quartile _range_ft_per _second_squa red	double precision	Inter quartile range for deceleration distribution
acceleration_ median_absol ute_deviation _ft_per_secon d_squared	double precision	Median absolute deviation of acceleration
deceleration_ median_absol ute_deviation _ft_per_secon	double precision	Median absolute deviation of deceleration rate distribution in ft per second squared

d_squared		
cumulative_acceleration_duration	double precision	Total time spent accelerating
cumulative_deceleration_duration	double precision	Sum of time spent decelerating
cumulative_acceleration_cycle_duration_percent	double precision	Percent of total time spent accelerating
cumulative_deceleration_cycle_duration_percent	double precision	Percent of total time spent decelerating
absolute_time_cumulative_acceleration_duration	double precision	Sum of total time spent accelerating
absolute_time_cumulative_deceleration_duration	double precision	Sum of time spent decelerating
absolute_time_cumulative_acceleration_cycle_duration_percent	double precision	Percent of total time spent accelerating
absolute_time_cumulative_deceleration_cycle_duration_percent	double precision	Percent of total time spent decelerating
average_acceleration_event_duration	double precision	Average duration of observed acceleration events
average_deceleration_event_duration	double precision	Average duration of observed deceleration events
min_acceleration_event_duration	double precision	Minimum duration observed for an acceleration event
min_deceleration_event_duration	double precision	Minimum observed duration for deceleration event
max_acceleration_event_duration	double precision	Maximum duration of observed acceleration events
max_deceleration_event_duration	double precision	Maximum duration of observed deceleration events
std_acceleration_event_duration	double precision	Standard deviation of acceleration event duration distribution
std_decelerati	double precision	Standard deviation of deceleration event duration

on_event_dur ation		distribution
var_accelerati on_event_dur ation	double precision	Variance of acceleration event durations
var_decelerati on_event_dur ation	double precision	Variance of deceleration event duration distribution
median_accel eration_event _duration	double precision	Median duration of all observed acceleration events
median_decel eration_event _duration	double precision	Median observed duration of deceleration events
acceleration_ event_duratio n_25th_perce ntile	double precision	The 25th percentile value for acceleration event durations
deceleration_ event_duratio n_25th_perce ntile	double precision	The 25th percentile value for deceleration event durations
acceleration_ event_duratio n_75th_perce ntile	double precision	75th percentile value for acceleration event duration distribution
deceleration_ event_duratio n_75th_perce ntile	double precision	75th percentile value for deceleration event duration distribution
acceleration_ event_duratio n_inter_quart ile_range	double precision	Inter quartile range for acceleration event duration distribution
deceleration_ event_duratio n_inter_quart ile_range	double precision	Inter quartile range for distribution of deceleration event durations
acceleration_ event_duratio n_median_ab solute_deviati on	double precision	Median absolute deviation of acceleration event duration distribution
deceleration_ event_duratio n_median_ab solute_deviati on	double precision	Median absolute deviation of deceleration event duration distribution
total_stops	double precision	Number of observed stops
stops_0_30	double precision	Number of stops with dwell times between zero and thirty seconds
stops_30_60	double precision	Number of stops with dwell times between thirty and sixty seconds
stops_60_plu s	double precision	Number of stops with dwell times in excess of 60 seconds

stops_300_plus	double precision	Number of stops observed with dwell times in excess of 300 seconds
stops_1800_plus	double precision	Number of stops with durations in excess of 30 minutes
stops_3600_plus	double precision	Number of stops with dwell times in excess of 3600 seconds
stops_per_mile	double precision	Number of observed stops per miles traveled
average_stop_duration	double precision	Average duration of all stops observed
min_stop_duration	double precision	Minimum stop dwell time observed
max_stop_duration	double precision	Maximum dwell time observed while stopped
median_stop_duration	double precision	Median dwell time of observed stops
mean_stop_duration	double precision	Mean observed stop dwell time
std_stop_duration	double precision	Standard deviation of stop dwell times
var_stop_duration	double precision	Variance of observed stop dwell times
stop_duration_25th_percentile	double precision	25th percentile value for stop dwell time distribution
stop_duration_75th_percentile	double precision	75th percentile value for stop dwell time distribution
stop_duration_inter_quartile_range	double precision	Inter quartile range for stop duration distribution
stop_duration_median_absolute_deviation	double precision	Median absolute deviation of observed stop dwell times
max_elevation	double precision	Maximum observed elevation
min_elevation	double precision	Minimum observed elevation
mean_elevation	double precision	Mean elevation observed
median_elevation	double precision	Median elevation observed
std_of_elevation	double precision	Standard deviation of elevation
var_of_elevation	double precision	Variance of elevation data records
elevation_25th_percentile	double precision	25th percentile value for elevation distribution
elevation_75th_percentile	double precision	75th percentile value for elevation distribution
elevation_inter_quartile_range	double precision	Inter quartile range for elevation distribution
elevation_me	double precision	Median absolute deviation of elevation distribution

dian_absolute_deviation		
delta_elevation	double precision	Net elevation change observed. Calculated as final elevation record minus initial elevation record.
delta_elevation_cumulative	double precision	Net total elevation change. Sum of all elevation change records.
absolute_delta_elevation_cumulative	double precision	Cumulative absolute change in elevation. Sum of absolute value of differential elevation changes observed.
total_elevation_gained	double precision	Sum of total elevation gained
total_elevation_lost	double precision	Sum of elevation lost
average_absolute_elevation_rate_change	double precision	Average rate of elevation change regardless of sign
max_climbing_rate	double precision	Maximum observed climbing rate
average_climbing_rate	double precision	Average climbing rate of vehicle
median_climbing_rate	double precision	Median observed climbing rate
max_descending_rate	double precision	Maximum observed descending rate
average_descending_rate	double precision	Average observed descending rate
median_descending_rate	double precision	Median descending rate observed
climbing_rate_25th_percentile	double precision	25th percentile value for observed climbing rate distribution
descending_rate_25th_percentile	double precision	25th percentile value for descending rate distribution
climbing_rate_75th_percentile	double precision	75th percentile value for climbing rate distribution
descending_rate_75th_percentile	double precision	75th percentile value for descending rate distribution
climbing_rate_inter_quartile_range	double precision	Inter quartile range for climbing rate distribution
descending_rate_inter_quartile_range	double precision	Inter quartile range for descending vehicle rate
climbing_rate_median_absolute_deviation	double precision	Median absolute deviation of vehicle climbing rate
descending_rate_median_absolute_deviation	double precision	Median absolute deviation of descending rate distribution
max_road_gr	double precision	Maximum observed road grade

ade		
min_road_grade	double precision	Minimum road grade observed
mean_road_grade	double precision	Mean observed road grade
median_road_grade	double precision	Median observed road grade
std_of_road_grade	double precision	Standard deviation of observed road grade
var_of_road_grade	double precision	Variance of road grade observed
road_grade_25th_percentile	double precision	25th percentile value for road grade distribution
road_grade_75th_percentile	double precision	75th percentile value for observed road grade distribution
road_grade_inter_quartile_range	double precision	Inter quartile range for observed road grade distribution
road_grade_median_absolute_deviation	double precision	Median absolute deviation for road grade distribution
maximum_kinetic_power_density_demand	double precision	Maximum demanded kinetic power density
total_kinetic_power_density_demand	double precision	Sum of demanded kinetic power density
average_kinetic_power_density_demand	double precision	Average demanded kinetic power density
variance_kinetic_power_density_demand	double precision	Variance of kinetic power density demanded
standard_deivation_kinetic_power_density_demand	double precision	Standard deviation of demanded kinetic power density
maximum_kinetic_power_density_regen	double precision	The maximum single sample regenerative kinetic power density
total_kinetic_power_density_regen	double precision	The sum of regenerative kinetic power density observed
average_kinetic_power_density_regen	double precision	Average regenerative kinetic power density
variance_kinetic_power_density_regen	double precision	Variance of regenerative kinetic power density
standard_deivation_kinetic_power_densit	double precision	Standard deviation of regenerative kinetic power density

y_regen		
maximum_potential_power_density_demand	double precision	Maximum demanded potential power density
total_potential_power_density_demand	double precision	The sum of demanded potential power density
average_potential_power_density_demand	double precision	Average demanded potential power density
variance_potential_power_density_demand	double precision	Variance of demanded potential power density
standard_deivation_potential_power_density_demand	double precision	Standard deviation of the demanded potential power density
maximum_potential_power_density_regen	double precision	Maximum regenerative potential power density
total_potential_power_density_regen	double precision	Sum of regenerative potential power density
average_potential_power_density_regen	double precision	Average regenerative potential power density
variance_potential_power_density_regen	double precision	Variance of observed regenerative potential power density
standard_deivation_potential_power_density_regen	double precision	Standard deviation of regenerative potential power density
maximum_aerodynamic_power_density_demand	double precision	Maximum demanded aerodynamic power density
total_aerodynamic_power_density_demand	double precision	The sum of demanded aerodynamic power density
average_aerodynamic_power_density_demand	double precision	Average demanded aerodynamic power density
variance_aerodynamic_power_density_demand	double precision	Variance of demanded aerodynamic power density
standard_deivation_aerody	double precision	Standard deviation of demanded aerodynamic power density

namic_power _density_dem and		
maximum_aer odynamic_po wer_density_ regen	double precision	Maximum regenerative aerodynamic power density
total_aerodyn amic_power_ density_regen	double precision	Sum of regenerative aerodynamic power density
average_aero dynamic_pow er_density_re gen	double precision	Average regenerative power density from aerodynamics
variance_aero dynamic_pow er_density_re gen	double precision	Variance of regenerative aerodynamic power density
standard_deiv ation_aerody namic_power _density_rege n	double precision	Standard deviation of regenerative aerodynamic power density
maximum_rol ling_power_d ensity_deman d	double precision	Maximum demanded rolling power density
total_rolling_ power_densit y_demand	double precision	The sum of demanded rolling power density
average_rolli ng_power_de nsity_demand	double precision	Average demanded rolling power density
variance_rolli ng_power_de nsity_demand	double precision	Variance of demanded rolling power density
standard_deiv ation_rolling_ power_densit y_demand	double precision	Standard deviation of power density demand from rolling resistance
maximum_rol ling_power_d ensity_regen	double precision	Maximum regenerative rolling power density
total_rolling_ power_densit y_regen	double precision	Sum of regenerative rolling power density
average_rolli ng_power_de nsity_regen	double precision	Average regenerative rolling power density
variance_rolli ng_power_de nsity_regen	double precision	Variance of regenerative rolling power density
standard_deiv ation_rolling_ power_densit	double precision	Standard deviation of regenerative rolling power density

y_regen		
maximum_instantaneous_potential_energy_density	double precision	Maximum potential energy density
average_instantaneous_potential_energy_density	double precision	Average potential energy density
cumulative_instanteous_potential_energy_density	double precision	Sum of potential energy density
maximum_instantaneous_kinetic_energy_density	double precision	Maximum single sample kinetic energy density
average_instantaneous_kinetic_energy_density	double precision	Average kinetic energy density
cumulative_instanteous_kinetic_energy_density	double precision	Sum of kinetic energy density
maximum_instantaneous_aerodynamic_energy_density	double precision	The maximum single sample aerodynamic energy density
average_instantaneous_aerodynamic_energy_density	double precision	Average single sample aerodynamic energy density
cumulative_instanteous_aerodynamic_energy_density	double precision	Sum of aerodynamic energy density
maximum_instantaneous_rolling_energy_density	double precision	Maximum rolling energy density
average_instantaneous_rolling_energy_density	double precision	Average rolling energy density
cumulative_instanteous_rolling_energy_density	double precision	Sum of rolling energy density
characteristic_acceleration	double precision	Characteristic Acceleration
characteristic_deceleration	double precision	Characteristic Deceleration – Energy while decelerating
aerodynamic_	double precision	Aerodynamic Speed

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speed		
kinetic_intensity	double precision	Kinetic Intensity
ca_standard	double precision	Characteristic Acceleration reported in standard units
cd_standard	double precision	Characteristic Deceleration reported in standard units
as_standard	double precision	Aerodynamic Speed reported in standard units
ki_standard	double precision	Kinetic Intensity reported in standard units
group_ttl_distance	double precision	Distance for all points recorded in the sequence, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
group_ttl_mean_speed	double precision	Mean speed of all non-zero speed points recorded in the sequence
group_ttl_std_speed	double precision	Standard deviation of all non-zero speed points recorded in the sequence
group_ttl_ttl	integer	Total point count recorded for the sequence
group_ttl_zero_speed	double precision	Total point count of all zero speed point recorded in the sequence
matched_ttl_distance	double precision	Distance for all points matched to streets; calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
matched_ttl_mean_speed	double precision	Mean speed of all non-zero speed points recorded matched to streets
matched_ttl_std_speed	double precision	Standard deviation of all non-zero speed points recorded matched to streets
matched_ttl_ttl	integer	Total point count recorded matched to streets
matched_ttl_zero_speed	integer	Total point count of all zero speed point recorded matched to streets
non_matched_ttl_distance	double precision	Distance for all points not matched to streets; calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
non_matched_ttl_mean_speed	double precision	Mean speed of all non-zero speed points recorded not matched to streets
non_matched_ttl_std_speed	double precision	Standard deviation of all non-zero speed points recorded not matched to streets
non_matched_ttl_ttl	double precision	Total point count recorded not matched to streets
non_matched_ttl_zero_speed	integer	Total point count of all zero speed point recorded not matched to streets
func_1_distance	double precision	Distance for all points in recorded on functional class 1 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_1_mean_speed	double precision	Mean speed of all non-zero speed points recorded on functional class 1 streets
func_1_std_speed	double precision	Standard deviation of all non-zero speed points recorded on functional class 1 streets
func_1_ttl	integer	Total point count recorded on functional class 1 streets
func_1_zero_speed	integer	Total point count of all zero speed point on functional class 1 streets
func_2_distan	double precision	Distance for all points in recorded on functional class 2

ce		streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_2_mean _speed	double precision	Mean speed of all non-zero speed points recorded on functional class 2 streets
func_2_std_s peed	double precision	Standard deviation of all non-zero speed points recorded on functional class 2 streets
func_2_ttl	integer	Total point count recorded on functional class 2 streets
func_2_zero_ speed	integer	Total point count of all zero speed point on functional class 2 streets
func_3_distan ce	double precision	Distance for all points in recorded on functional class 3 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_3_mean _speed	double precision	Mean speed of all non-zero speed points recorded on functional class 3 streets
func_3_std_s peed	double precision	Standard deviation of all non-zero speed points recorded on functional class 3 streets
func_3_ttl	integer	Total point count recorded on functional class 3 streets
func_3_zero_ speed	integer	Total point count of all zero speed point recorded on functional class 3 streets
func_4_distan ce	double precision	Distance for all points in recorded on functional class 4 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_4_mean _speed	double precision	Mean speed of all non-zero speed points recorded on functional class 4 streets
func_4_std_s peed	double precision	Standard deviation of all non-zero speed points recorded on functional class 4 streets
func_4_ttl	integer	Total point count recorded on functional class 4 streets
func_4_zero_ speed	integer	Total point count of all zero speed point recorded on functional class 4 streets
func_5_distan ce	double precision	Distance for all points in recorded on functional class 5 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_5_mean _speed	double precision	Mean speed of all non-zero speed points recorded on functional class 5 streets
func_5_std_s peed	double precision	Standard deviation of all non-zero speed points recorded on functional class 5 streets
func_5_ttl	integer	Total point count recorded on functional class 5 streets
func_5_zero_ speed	integer	Total point count of all zero speed point recorded on functional class 5 streets
spd_cat_1_di stance	double precision	Distance for all points in recorded on speed category 1 streets (80 mph + speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_1_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_1_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_1_ttl	integer	Total point count recorded on speed category 1 streets(80 mph + speed limit)

spd_cat_1_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_2_di stance	double precision	Distance for all points in recorded on speed category 2 streets (70 - 80 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_2_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_2_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_2_ttl	integer	Total point count recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_2_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_3_di stance	double precision	Distance for all points in recorded on speed category 3 streets (60 - 70 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_3_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_ttl	integer	Total point count recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_4_di stance	double precision	Distance for all points in recorded on speed category 4 streets (50 - 60 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_4_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_ttl	integer	Total point count recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_5_di stance	double precision	Distance for all points in recorded on speed category 5 streets (40 - 50 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_5_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_ttl	integer	Total point count recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_6_di	double precision	Distance for all points in recorded on speed category 6

stance		streets (30 - 40 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_6_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_6_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_6_ttl	integer	Total point count recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_6_zero_speed	integer	Total point count of all zero speed point recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_7_distance	double precision	Distance for all points in recorded on speed category 7 streets (20 - 30 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_7_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 7 streets
spd_cat_7_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 7 streets
spd_cat_7_ttl	integer	Total point count recorded on speed category 7 streets
spd_cat_7_zero_speed	integer	Total point count of all zero speed point recorded on speed category 7 streets
spd_cat_8_distance	double precision	Distance for all points in recorded on speed category 8 streets (10 - 20 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_8_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 8 streets
spd_cat_8_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 8 streets
spd_cat_8_ttl	integer	Total point count recorded on speed category 8 streets
spd_cat_8_zero_speed	integer	Total point count of all zero speed point recorded on speed category 8 streets
trips_from_home	integer	The count of trips where the start location of the trip was within approximately 1000 feet of the home location. Null if not known or Not Applicable.
trips_to_home	integer	The count of trips where the end location of the trip was within approximately 1000 feet of the home location. Null if not known or Not Applicable.
trips_from_work	integer	The count of trips where the start location of the trip was within approximately 1000 feet of the work location. Null if not known or Not Applicable.
trips_to_work	integer	The count of trips where the end location of the trip was within approximately 1000 feet of the work location. Null if not known or Not Applicable.
trips_from_school	integer	The count of trips where the start location of the trip was within approximately 1000 feet of the school location. Null if not known or Not Applicable.
trips_to_school	integer	The count of trips where the end location of the trip was within approximately 1000 feet of the school location. Null if not known or Not Applicable.
geom	geometry	LINESTRING Geometry representing the path of travel over the sequence duration

Results Days:

This table contains drive-cycle calculations and road-use statistics for each vehicle day. Also included within the table are counts of the trips starting and leaving at the home/work/school locations and an indicator of if the day ended and began at the home location.

Name	Data type	Comment
vid	integer	Unique NREL vehicle identifier
did	integer	Unique deployment identifier
day_id	integer	Day identifier ordered start to end, unique to vehicle
trip_count	integer	The count of trips occurring for the vehicle day
mt_count	integer	The count of micro-trips occurring for the vehicle day
start_ts	timestamp without time zone	The local timestamp of the first recorded point for the day
end_ts	timestamp without time zone	The local timestamp of the last recorded point for the day
start_rts	double precision	Seconds from first recorded timestamp for the vehicle when the day began
end_rts	double precision	Seconds from first recorded timestamp for the vehicle when the day ended
absolute_time _duration_hrs	double precision	Absolute time duration in hours. This is calculated on the total number of samples collected and independent of real time duration.
speed_data_d uration_hrs	double precision	Total number of hours of data collected. Includes zero speed components.
driving_data_ duration_hrs	double precision	Duration of collected data while vehicle is in motion. Does not include zero speed time.
non_recorded _time_hrs	double precision	Total number of hours which were not recorded by the device. Calculated as the difference between the real time duration of the data and the collected data duration.
collected_vs_ real_time_rati o	double precision	Ratio of collected sample duration to real time duration
mean_estimat ed_sampling_ rate_hz	double precision	Computed sampling rate based on average time gap observed between samples in collected data
max_gap_bet ween_sample s_s	double precision	Maximum time gap observed between samples in collected data
min_gap_bet ween_sample s_s	double precision	Minimum time gap observed between sampled in collected data
mean_gap_be tween_sampl	double precision	Average time gap observed between sampled in collected data

es_s		
median_gap_ between_sam ples_s	double precision	Median time gap observed between sampled in collected data
std_gap_betw een_samples_ s	double precision	Standard deviation of time gaps between samples observed in collected data
var_gap_betw een_samples_ s	double precision	Variance of time gaps observed in collected data
gap_25th_per centile_s	double precision	Twenty Fifth percentile time gap between samples observed in collected data
gap_75th_per centile_s	double precision	Seventy Fifth percentile time gap between samples observed in collected data
gap_inter_qu artile_range_ s	double precision	Inter Quartile Range for distribution of time gaps between samples observed in collected data
gap_median_ absolute_devi ation_s	double precision	Median Absolute Deviation for distribution of time gaps between samples observed in collected data
median_estim ated_samplin g_rate_hz	double precision	Estimated sampling rate based on median time gap observed between samples in collected data
max_speed	double precision	Maximum observed driving speed
total_average _speed	double precision	Average speed over cycle including zero speed components
total_median _speed	double precision	Median of all observed speed data. Includes zero speed components
total_root_me an_cubed_sp eed	double precision	Root mean cubed value of all observed speed data. Includes zero speed components
total_speed_v ariance	double precision	Variance of all observed speed values. Includes zero speed components.
total_speed_s tandard_devi ation	double precision	Standard deviation of all observed speed values. Includes zero speed components.
total_speed_v elocity_ratio	double precision	Total vehicle speed velocity ratio
total_speed_2 5th_percentil e	double precision	25th percentile value for speed distribution. Includes zero speed components.
total_speed_7 5th_percentil e	double precision	75th percentile value for all observed speed points. Includes zero speed components.
total_speed_i nter_quartile _range	double precision	Inter quartile range for distribution including all observed speed points. Includes zero speed components.
total_speed_ median_absol ute_deviation	double precision	Median absolute deviation of all observed speed values. Includes zero speed components.
driving_avera ge_speed	double precision	Average driving speed over cycle. Does not include any zero speed components.
driving_media n_speed	double precision	Median driving speed over cycle. Does not include any zero speed components.
driving_root_	double precision	The square root of the mean driving speed cubed

mean_cubed_ speed		
driving_speed _variance	double precision	Variance of observed driving speed. Does not include zero speed components.
driving_speed _standard_de viation	double precision	Standard deviation of driving speed distribution. Does not include zero speed components.
driving_speed _velocity_rati o	double precision	Ratio of root mean cubed speed to mean total speed
driving_speed _25th_percen tile	double precision	The 25th percentile for driving speed distribution
driving_speed _75th_percen tile	double precision	75th percentile value for driving speed distribution. Does not include zero speed components.
driving_speed _inter_quartil e_range	double precision	Inter quartile range of observed driving speed distribution. Does not include zero speed components.
driving_speed _median_abs olute_deviatio n	double precision	Median absolute deviation of observed driving speeds. Does not include zero speed components.
zero_seconds	double precision	Number of seconds at zero speed
zero_five_sec onds	double precision	Total time spent at speeds between zero and five miles per hour
five_ten_seco nds	double precision	Total time observed at speeds between five and ten miles per hour
ten_fifteen_s econds	double precision	Number of seconds spent at speeds between ten and fifteen miles per hour
fifteen_twent y_seconds	double precision	Total amount of time observed at speeds between fifteen and twenty miles per hour
twenty_twent y_five_second s	double precision	Total time spent at speeds between twenty and twenty five miles per hour
twenty_five_t hirty_seconds	double precision	Total time spent at speeds between twenty five and thirty miles per hour
thirty_thirty_f ive_seconds	double precision	Total time spent at speeds between thirty and thirty five miles per hour
thirty_five_fo urty_seconds	double precision	Total amount of time spent at speeds between thirty five and forty miles per hour
fourty_fourty _five_seconds	double precision	Total amount of time at speeds between forty and forty five miles per hour
fourty_five_fif ty_seconds	double precision	Number of seconds spent between forty five and fifty miles per hour vehicle speed
fifty_fifty_five _seconds	double precision	Total amount of time observed at speeds between fifty and fifty five miles per hour
fifty_five_sixt y_seconds	double precision	Total time spent at speeds between fifty five and sixty miles per hour
sixty_sixty_fi ve_seconds	double precision	Total amount of time spent at speeds between sixty and sixty five miles per hour
sixty_five_se venty_second s	double precision	Total amount of time observed at speeds between sixty five and seventy miles per hour
seventy_seve	double precision	Total time observed at speeds between seventy and

nty_five_seco nds		seventy five miles per hour
seventy_five_ plus_seconds	double precision	Total amount of time spent at speeds in excess of seventy five miles per hour
driving_time_ seconds	double precision	Total time spent while vehicle is in motion. Does not include zero speed time.
percent_zero	double precision	Percent of total time spent and zero speed
percent_zero _five	double precision	Percent of total time spent at speeds between zero and five miles per hour
percent_five_ ten	double precision	Percent of total time spent at speeds between five and ten miles per hour
percent_ten_f ifteen	double precision	Percent of total time spent at speeds between ten and fifteen miles per hour
percent_fiftee n_twenty	double precision	Percent of total time spent at speeds between fifteen and twenty miles per hour
percent_twen ty_twenty_fiv e	double precision	Percent of total time spent at speeds between twenty and twenty five miles per hour
percent_twen ty_five_thirty	double precision	Percent of total time spent at speeds between thirty and thirty five miles per hour
percent_thirty _thirty_five	double precision	Percent of total time spent at speeds between thirty and thirty five miles per hour
percent_thirty _five_fourty	double precision	Percent of total time spent at speeds between thirty five and forty miles per hour
percent_fourt y_fourty_five	double precision	Percent of total time spent at speeds between forty and forty five miles per hour
percent_fourt y_five_fifty	double precision	Percent of time spent at speeds between forty five and fifty miles per hour
percent_fifty_ fifty_five	double precision	Percent of total time spent at speeds between fifty and fifty five miles per hour
percent_fifty_ five_sixty	double precision	Percent of time at speeds between fifty five and sixty miles per hour
percent_sixty _sixty_five	double precision	Percent of total time spent at speeds between sixty and sixty five miles per hour
percent_sixty _five_seventy	double precision	Percent of time at speeds between sixty five and seventy miles per hour
percent_seve nty_seventy_f ive	double precision	Percent of total time observed at speeds between seventy and seventy five miles per hour
percent_seve nty_five_plus	double precision	Percent of total time spent at speeds in excess of seventy five miles per hour
percent_dista nce_zero_five	double precision	Percent of total distance traveled at speeds between zero and five miles per hour
percent_dista nce_twenty_t wenty_five	double precision	Percent of total distance traveled at speeds between twenty and twenty five miles per hour
percent_dista nce_twenty_fi ve_thirty	double precision	Percent of total distance traveled at speeds between twenty five and thirty miles per hour
percent_dista nce_total	double precision	Total percentage of distance traveled at all speeds in cycle. Will always sum to 100%.
percent_dista nce_thirty_thi rty_five	double precision	Percent of distance traveled at speeds between thirty and thirty five miles per hour

percent_dista nce_thirty_fiv e_fourty	double precision	Percent of total miles traveled at speeds between thirty five and forty miles per hour
percent_dista nce_ten_fifte en	double precision	Percent of total distance traveled at speeds between ten and fifteen miles per hour
percent_dista nce_sixty_six ty_five	double precision	Percent of total distance traveled at speeds between sixty and sixty five miles per hour
percent_dista nce_sixty_fiv e_seventy	double precision	Percent of total distance traveled at speeds between sixty five and seventy miles per hour
percent_dista nce_seventy_ seventy_five	double precision	Percent of total distance traveled at speeds between seventy and seventy five miles per hour
percent_dista nce_seventy_ five_plus	double precision	Percent of total distance traveled at speeds in excess of seventy five miles per hour
percent_dista nce_fourty_fo urty_five	double precision	Percent of total distance traveled at speeds between fort and forty five miles per hour
percent_dista nce_fourty_fi ve_fifty	double precision	Percent of total distance traveled at speeds between forty five and fifty miles per hour
percent_dista nce_five_ten	double precision	Percent of total distance traveled between five and ten miles per hour
percent_dista nce_fifty_five _sixty	double precision	Percent of total distance traveled at speeds between fifty five and sixty miles per hour
percent_dista nce_fifty_fifty _five	double precision	Percent of total distance traveled at speeds between fifty and fifty five miles per hour
percent_dista nce_fifteen_t wenty	double precision	Percent of total distance traveled at speeds between fifteen and twenty miles per hour
percent_total	double precision	Total time spent at all speeds in cycle. Will always add up to 100%.
distance_zero _five	double precision	Total distance traveled in miles at speeds between zero and five miles per hour
distance_five _ten	double precision	Total distance traveled in miles at speeds between five and ten miles per hour
distance_ten_ fifteen	double precision	Total distance traveled in miles at speeds between ten and fifteen miles per hour
distance_fifte en_twenty	double precision	Total distance traveled in miles at speeds between fifteen and twenty miles per hour
distance_twe nty_twenty_fi ve	double precision	Total distance traveled in miles at speeds between twenty and twenty five miles per hour
distance_twe nty_five_thirt y	double precision	Total distance traveled in miles at speeds between twenty five and thirty miles per hour
distance_thirt y_thirty_five	double precision	Total number of miles traveled at speeds between thirty and thirty five miles per hour
distance_thirt y_five_fourty	double precision	Total distance traveled in miles at speeds between thirty five and forty miles per hour

distance_fourty_fourty_five	double precision	Total number of miles traveled at speeds between forty and forty five miles per hour
distance_fourty_five_fifty	double precision	Total number of miles traveled between forty five and fifty miles per hour
distance_fifty_fifty_five	double precision	Total number of miles traveled between fifty and fifty five miles per hour
distance_fifty_five_sixty	double precision	Total distance traveled in miles at speeds between fifty five and sixty miles per hour
distance_sixty_sixty_five	double precision	Distance in miles traveled at speed from sixty to sixty five mph
distance_sixty_five_seventy	double precision	Total number of miles traveled between sixty five and seventy miles per hour
distance_seventy_seventy_five	double precision	Total distance traveled in miles as speeds between seventy and seventy five miles per hour
distance_seventy_five_plus	double precision	Distance in miles traveled at speeds in excess of 75 mph
distance_total	double precision	Total distance traveled in miles
total_number_of_acceleration_events	double precision	Total number of observed acceleration events
total_number_of_deceleration_events	double precision	Total number of observed acceleration events
acceleration_events_per_mile	double precision	Number of acceleration events observed per mile of distance traveled
deceleration_events_per_mile	double precision	Number of deceleration events observed per mile of distance traveled
max_acceleration_ft_per_second_squared	double precision	Maximum acceleration rate in ft per second squared
max_deceleration_ft_per_second_squared	double precision	Maximum deceleration in ft per second squared
average_acceleration_ft_per_second_squared	double precision	Average acceleration rate in ft per second squared
average_deceleration_ft_per_second_squared	double precision	Average deceleration in ft per second squared
median_acceleration_ft_per_second_squared	double precision	Median acceleration rate in ft per second squared
median_deceleration_ft_per_second_squared	double precision	Median deceleration rate in ft per second squared

std_accelerati on_ft_per_sec ond_squared	double precision	Standard deviation of acceleration in ft per second squared
std_decelerati on_ft_per_sec ond_squared	double precision	Standard deviation of observed deceleration in ft per second squared
var_accelerati on_ft_per_sec ond_squared	double precision	Variance of observed acceleration rate distribution in ft per second squared
var_decelerati on_ft_per_sec ond_squared	double precision	Variance of observed deceleration in ft per second squared
acceleration_ 25th_percenti le_ft_per_sec ond_squared	double precision	25th percentile for acceleration distribution. Value in ft per second squared
deceleration_ 25th_percenti le_ft_per_sec ond_squared	double precision	25th percentile value for deceleration rate distribution in ft per second squared
acceleration_ 75th_percenti le_ft_per_sec ond_squared	double precision	75th percentile value for observed acceleration rate distribution in ft per second squared
deceleration_ 75th_percenti le_ft_per_sec ond_squared	double precision	75th percentile value for deceleration rate in ft per second squared
acceleration_i nter_quartile _range_ft_per _second_squa red	double precision	Inter quartile range of acceleration in ft per second squared
deceleration_i nter_quartile _range_ft_per _second_squa red	double precision	Inter quartile range for deceleration distribution
acceleration_ median_absol ute_deviation _ft_per_secon d_squared	double precision	Median absolute deviation of acceleration
deceleration_ median_absol ute_deviation _ft_per_secon d_squared	double precision	Median absolute deviation of deceleration rate distribution in ft per second squared
cumulative_a cceleration_d uration	double precision	Total time spent accelerating
cumulative_d eceleration_d uration	double precision	Sum of time spent decelerating
cumulative_a	double precision	Percent of total time spent accelerating

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cceleration_c ycle_duration _percent		
cumulative_d eceleration_c ycle_duration _percent	double precision	Percent of total time spent decelerating
absolute_time _cumulative_ acceleration_ duration	double precision	Sum of total time spent accelerating
absolute_time _cumulative_ deceleration_ duration	double precision	Sum of time spent decelerating
absolute_time _cumulative_ acceleration_ cycle_duratio n_percent	double precision	Percent of total time spent accelerating
absolute_time _cumulative_ deceleration_ cycle_duratio n_percent	double precision	Percent of total time spent decelerating
average_accel eration_event _duration	double precision	Average duration of observed acceleration events
average_dece leration_even t_duration	double precision	Average duration of observed deceleration events
min_accelerat ion_event_du ration	double precision	Minimum duration observed for an acceleration event
min_decelerat ion_event_du ration	double precision	Minimum observed duration for deceleration event
max_accelera tion_event_d uration	double precision	Maximum duration of observed acceleration events
max_decelera tion_event_d uration	double precision	Maximum duration of observed deceleration events
std_accelerati on_event_dur ation	double precision	Standard deviation of acceleration event duration distribution
std_decelerati on_event_dur ation	double precision	Standard deviation of deceleration event duration distribution
var_accelerati on_event_dur ation	double precision	Variance of acceleration event durations
var_decelerati on_event_dur ation	double precision	Variance of deceleration event duration distribution

median_acceleration_event_duration	double precision	Median duration of all observed acceleration events
median_deceleration_event_duration	double precision	Median observed duration of deceleration events
acceleration_event_duration_25th_percentile	double precision	The 25th percentile value for acceleration event durations
deceleration_event_duration_25th_percentile	double precision	The 25th percentile value for deceleration event durations
acceleration_event_duration_75th_percentile	double precision	75th percentile value for acceleration event duration distribution
deceleration_event_duration_75th_percentile	double precision	75th percentile value for deceleration event duration distribution
acceleration_event_duration_inter_quartile_range	double precision	Inter quartile range for acceleration event duration distribution
deceleration_event_duration_inter_quartile_range	double precision	Inter quartile range for distribution of deceleration event durations
acceleration_event_duration_median_absolute_deviation	double precision	Median absolute deviation of acceleration event duration distribution
deceleration_event_duration_median_absolute_deviation	double precision	Median absolute deviation of deceleration event duration distribution
total_stops	double precision	Number of observed stops
stops_0_30	double precision	Number of stops with dwell times between zero and thirty seconds
stops_30_60	double precision	Number of stops with dwell times between thirty and sixty seconds
stops_60_plus	double precision	Number of stops with dwell times in excess of 60 seconds
stops_300_plus	double precision	Number of stops observed with dwell times in excess of 300 seconds
stops_1800_plus	double precision	Number of stops with durations in excess of 30 minutes
stops_3600_plus	double precision	Number of stops with dwell times in excess of 3600 seconds
stops_per_mile	double precision	Number of observed stops per miles traveled

average_stop_duration	double precision	Average duration of all stops observed
min_stop_duration	double precision	Minimum stop dwell time observed
max_stop_duration	double precision	Maximum dwell time observed while stopped
median_stop_duration	double precision	Median dwell time of observed stops
mean_stop_duration	double precision	Mean observed stop dwell time
std_stop_duration	double precision	Standard deviation of stop dwell times
var_stop_duration	double precision	Variance of observed stop dwell times
stop_duration_25th_percentile	double precision	25th percentile value for stop dwell time distribution
stop_duration_75th_percentile	double precision	75th percentile value for stop dwell time distribution
stop_duration_inter_quartile_range	double precision	Inter quartile range for stop duration distribution
stop_duration_median_absolute_deviation	double precision	Median absolute deviation of observed stop dwell times
max_elevation	double precision	Maximum observed elevation
min_elevation	double precision	Minimum observed elevation
mean_elevation	double precision	Mean elevation observed
median_elevation	double precision	Median elevation observed
std_of_elevation	double precision	Standard deviation of elevation
var_of_elevation	double precision	Variance of elevation data records
elevation_25th_percentile	double precision	25th percentile value for elevation distribution
elevation_75th_percentile	double precision	75th percentile value for elevation distribution
elevation_inter_quartile_range	double precision	Inter quartile range for elevation distribution
elevation_median_absolute_deviation	double precision	Median absolute deviation of elevation distribution
delta_elevation	double precision	Net elevation change observed. Calculated as final elevation record minus initial elevation record
delta_elevation_cumulative	double precision	Net total elevation change. Sum of all elevation change records.
absolute_delta_elevation_cumulative	double precision	Cumulative absolute change in elevation. Sum of absolute value of differential elevation changes observed.

total_elevation_gained	double precision	Sum of total elevation gained
total_elevation_lost	double precision	Sum of elevation lost
average_absolute_elevation_rate_change	double precision	Average rate of elevation change regardless of sign
max_climbing_rate	double precision	Maximum observed climbing rate
average_climbing_rate	double precision	Average climbing rate of vehicle
median_climbing_rate	double precision	Median observed climbing rate
max_descending_rate	double precision	Maximum observed descending rate
average_descending_rate	double precision	Average observed descending rate
median_descending_rate	double precision	Median descending rate observed
climbing_rate_25th_percentile	double precision	25th percentile value for observed climbing rate distribution
descending_rate_25th_percentile	double precision	25th percentile value for descending rate distribution
climbing_rate_75th_percentile	double precision	75th percentile value for climbing rate distribution
descending_rate_75th_percentile	double precision	75th percentile value for descending rate distribution
climbing_rate_inter_quartile_range	double precision	Inter quartile range for climbing rate distribution
descending_rate_inter_quartile_range	double precision	Inter quartile range for descending vehicle rate
climbing_rate_median_absolute_deviation	double precision	Median absolute deviation of vehicle climbing rate
descending_rate_median_absolute_deviation	double precision	Median absolute deviation of descending rate distribution
max_road_grade	double precision	Maximum observed road grade
min_road_grade	double precision	Minimum road grade observed
mean_road_grade	double precision	Mean observed road grade
median_road_grade	double precision	Median observed road grade
std_of_road_grade	double precision	Standard deviation of observed road grade

var_of_road_ grade	double precision	Variance of road grade observed
road_grade_2 5th_percentil e	double precision	25th percentile value for road grade distribution
road_grade_7 5th_percentil e	double precision	75th percentile value for observed road grade distribution
road_grade_i nter_quartile _range	double precision	Inter quartile range for observed road grade distribution
road_grade_ median_absol ute_deviation	double precision	Median absolute deviation for road grade distribution
maximum_kin etic_power_d ensity_deman d	double precision	Maximum demanded kinetic power density
total_kinetic_ power_densit y_demand	double precision	Sum of demanded kinetic power density
average_kinet ic_power_den sity_demand	double precision	Average demanded kinetic power density
variance_kine tic_power_de nsity_demand	double precision	Variance of kinetic power density demanded
standard_deiv ation_kinetic_ power_densit y_demand	double precision	Standard deviation of demanded kinetic power density
maximum_kin etic_power_d ensity_regen	double precision	The maximum single sample regenerative kinetic power density
total_kinetic_ power_densit y_regen	double precision	The sum of regenerative kinetic power density observed
average_kinet ic_power_den sity_regen	double precision	Average regenerative kinetic power density
variance_kine tic_power_de nsity_regen	double precision	Variance of regenerative kinetic power density
standard_deiv ation_kinetic_ power_densit y_regen	double precision	Standard deviation of regenerative kinetic power density
maximum_po tential_power _density_dem and	double precision	Maximum demanded potential power density
total_potentia l_power_dens ity_demand	double precision	The sum of demanded potential power density
average_pote	double precision	Average demanded potential power density

ntial_power_density_demand		
variance_potential_power_density_demand	double precision	Variance of demanded potential power density
standard_deivation_potential_power_density_demand	double precision	Standard Deviation of the demanded potential power density
maximum_potential_power_density_regen	double precision	Maximum regenerative potential power density
total_potential_power_density_regen	double precision	Sum of regenerative potential power density
average_potential_power_density_regen	double precision	Average regenerative potential power density
variance_potential_power_density_regen	double precision	Variance of observed regenerative potential power density
standard_deivation_potential_power_density_regen	double precision	Standard deviation of regenerative potential power density
maximum_aerodynamic_power_density_demand	double precision	Maximum demanded aerodynamic power density
total_aerodynamic_power_density_demand	double precision	The sum of demanded aerodynamic power density
average_aerodynamic_power_density_demand	double precision	Average demanded aerodynamic power density
variance_aerodynamic_power_density_demand	double precision	Variance of demanded aerodynamic power density
standard_deivation_aerodynamic_power_density_demand	double precision	Standard deviation of demanded aerodynamic power density
maximum_aerodynamic_power_density_regen	double precision	Maximum regenerative aerodynamic power density
total_aerodynamic_power_	double precision	Sum of regenerative aerodynamic power density

density_regen		
average_aerodynamic_power_density_regen	double precision	Average regenerative power density from aerodynamics
variance_aerodynamic_power_density_regen	double precision	Variance of regenerative aerodynamic power density
standard_deviation_aerodynamic_power_density_regen	double precision	Standard deviation of regenerative aerodynamic power density
maximum_rolling_power_density_demand	double precision	Maximum demanded rolling power density
total_rolling_power_density_demand	double precision	The sum of demanded rolling power density
average_rolling_power_density_demand	double precision	Average demanded rolling power density
variance_rolling_power_density_demand	double precision	Variance of demanded rolling power density
standard_deviation_rolling_power_density_demand	double precision	Standard deviation of power density demand from rolling resistance
maximum_rolling_power_density_regen	double precision	Maximum regenerative rolling power density
total_rolling_power_density_regen	double precision	Sum of regenerative rolling power density
average_rolling_power_density_regen	double precision	Average regenerative rolling power density
variance_rolling_power_density_regen	double precision	Variance of regenerative rolling power density
standard_deviation_rolling_power_density_regen	double precision	Standard deviation of regenerative rolling power density
maximum_instantaneous_potential_energy_density	double precision	Maximum potential energy density
average_instantaneous_potential_energy_density	double precision	Average potential energy density

cumulative_in stanteous_pot ential_energy _density	double precision	Sum of potential energy density
maximum_ins tantanteous_ kinetic_energ y_density	double precision	Maximum single sample kinetic energy density
average_insta ntanteous_kin etic_energy_d ensity	double precision	Average kinetic energy density
cumulative_in stanteous_kin etic_energy_d ensity	double precision	Sum of kinetic energy density
maximum_ins tantanteous_ aerodynamic_ energy_densit y	double precision	The maximum single sample aerodynamic energy density
average_insta ntanteous_ae rodynamic_en ergy_density	double precision	Average single sample aerodynamic energy density
cumulative_in stanteous_aer odynamic_en ergy_density	double precision	Sum of aerodynamic energy density
maximum_ins tantanteous_r olling_energy _density	double precision	Maximum rolling energy density
average_insta ntanteous_rol ling_energy_d ensity	double precision	Average rolling energy density
cumulative_in stanteous_rol ling_energy_d ensity	double precision	Sum of rolling energy density
characteristic _acceleration	double precision	Characteristic Acceleration
characteristic _deceleration	double precision	Characteristic Deceleration – Energy while decelerating
aerodynamic_ speed	double precision	Aerodynamic Speed
kinetic_intens ity	double precision	Kinetic Intensity
ca_standard	double precision	Characteristic Acceleration reported in standard units
cd_standard	double precision	Characteristic Deceleration reported in standard units
as_standard	double precision	Aerodynamic Speed reported in standard units
ki_standard	double precision	Kinetic Intensity reported in standard units
group_ttl_dist ance	double precision	Distance for all points recorded in the sequence, calculated assuming 1 second sample interval, and

		constant speed (instantaneous speed/3600.0 = miles)
group_ttl_me an_speed	double precision	Mean speed of all non-zero speed points recorded in the sequence
group_ttl_std _speed	double precision	Standard deviation of all non-zero speed points recorded in the sequence
group_ttl_ttl	integer	Total point count recorded for the sequence
group_ttl_zer o_speed	double precision	Total point count of all zero speed point recorded in the sequence
matched_ttl_ distance	double precision	Distance for all points matched to streets; calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
matched_ttl_ mean_speed	double precision	Mean speed of all non-zero speed points recorded matched to streets
matched_ttl_s td_speed	double precision	Standard deviation of all non-zero speed points recorded matched to streets
matched_ttl_t tl	integer	Total point count recorded matched to streets
matched_ttl_z ero_speed	integer	Total point count of all zero speed point recorded matched to streets
non_matched _ttl_distance	double precision	Distance for all points not matched to streets; calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
non_matched _ttl_mean_sp eed	double precision	Mean speed of all non-zero speed points recorded not matched to streets
non_matched _ttl_std_spee d	double precision	Standard deviation of all non-zero speed points recorded not matched to streets
non_matched _ttl_ttl	double precision	Total point count recorded not matched to streets
non_matched _ttl_zero_spe ed	integer	Total point count of all zero speed point recorded not matched to streets
func_1_distan ce	double precision	Distance for all points in recorded on functional class 1 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_1_mean _speed	double precision	Mean speed of all non-zero speed points recorded on functional class 1 streets
func_1_std_s peed	double precision	Standard deviation of all non-zero speed points recorded on functional class 1 streets
func_1_ttl	integer	Total point count recorded on functional class 1 streets
func_1_zero_ speed	integer	Total point count of all zero speed point on functional class 1 streets
func_2_distan ce	double precision	Distance for all points in recorded on functional class 2 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_2_mean _speed	double precision	Mean speed of all non-zero speed points recorded on functional class 2 streets
func_2_std_s peed	double precision	Standard deviation of all non-zero speed points recorded on functional class 2 streets
func_2_ttl	integer	Total point count recorded on functional class 2 streets
func_2_zero_	integer	Total point count of all zero speed point on functional

speed		class 2 streets
func_3_distance	double precision	Distance for all points in recorded on functional class 3 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_3_mean_speed	double precision	Mean speed of all non-zero speed points recorded on functional class 3 streets
func_3_std_speed	double precision	Standard deviation of all non-zero speed points recorded on functional class 3 streets
func_3_ttl	integer	Total point count recorded on functional class 3 streets
func_3_zero_speed	integer	Total point count of all zero speed point recorded on functional class 3 streets
func_4_distance	double precision	Distance for all points in recorded on functional class 4 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_4_mean_speed	double precision	Mean speed of all non-zero speed points recorded on functional class 4 streets
func_4_std_speed	double precision	Standard deviation of all non-zero speed points recorded on functional class 4 streets
func_4_ttl	integer	Total point count recorded on functional class 4 streets
func_4_zero_speed	integer	Total point count of all zero speed point recorded on functional class 4 streets
func_5_distance	double precision	Distance for all points in recorded on functional class 5 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_5_mean_speed	double precision	Mean speed of all non-zero speed points recorded on functional class 5 streets
func_5_std_speed	double precision	Standard deviation of all non-zero speed points recorded on functional class 5 streets
func_5_ttl	integer	Total point count recorded on functional class 5 streets
func_5_zero_speed	integer	Total point count of all zero speed point recorded on functional class 5 streets
spd_cat_1_distance	double precision	Distance for all points in recorded on speed category 1 streets (80 mph + speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_1_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_1_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_1_ttl	integer	Total point count recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_1_zero_speed	integer	Total point count of all zero speed point recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_2_distance	double precision	Distance for all points in recorded on speed category 2 streets (70 - 80 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_2_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_2_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 2 streets(70 - 80 mph

		speed limit)
spd_cat_2_ttl	integer	Total point count recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_2_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_3_di stance	double precision	Distance for all points in recorded on speed category 3 streets (60 - 70 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_3_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_ttl	integer	Total point count recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_4_di stance	double precision	Distance for all points in recorded on speed category 4 streets (50 - 60 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_4_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_ttl	integer	Total point count recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_5_di stance	double precision	Distance for all points in recorded on speed category 5 streets (40 - 50 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_5_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_ttl	integer	Total point count recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_6_di stance	double precision	Distance for all points in recorded on speed category 6 streets (30 - 40 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_6_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_6_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_6_ttl	integer	Total point count recorded on speed category 6 streets(30 - 40 mph speed limit)

spd_cat_6_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_7_di stance	double precision	Distance for all points in recorded on speed category 7 streets (20 - 30 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_7_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 7 streets
spd_cat_7_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 7 streets
spd_cat_7_ttl	integer	Total point count recorded on speed category 7 streets
spd_cat_7_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 7 streets
spd_cat_8_di stance	double precision	Distance for all points in recorded on speed category 8 streets (10 - 20 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_8_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 8 streets
spd_cat_8_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 8 streets
spd_cat_8_ttl	integer	Total point count recorded on speed category 8 streets
spd_cat_8_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 8 streets
day_st_home	integer	1 = start location of the day was within approximately 750 feet of the home location. Null if not known or Not Applicable.
day_end_hom e	integer	1 = end location of the day was within approximately 1000 feet of the home location. Null if not known or Not Applicable.
trips_from_ho me	integer	The count of trips where the start location of the trip was within approximately 1000 feet of the home location. Null if not known or Not Applicable.
trips_to_hom e	integer	The count of trips where the end location of the trip was within approximately 1000 feet of the home location. Null if not known or Not Applicable.
trips_from_w ork	integer	The count of trips where the start location of the trip was within approximately 1000 feet of the work location. Null if not known or Not Applicable.
trips_to_work	integer	The count of trips where the end location of the trip was within approximately 1000 feet of the work location. Null if not known or Not Applicable.
trips_from_sc hool	integer	The count of trips where the start location of the trip was within approximately 1000 feet of the school location. Null if not known or Not Applicable.
trips_to_scho ol	integer	The count of trips where the end location of the trip was within approximately 1000 feet of the school location. Null if not known or Not Applicable.
geom	geometry	LINESTRING Geometry representing the path of travel over the sequence duration

Results Trips:

This table contains drive-cycle calculations and road-use statistics for each vehicle trip. Also included are binary flags indicating if the trips are starting or leaving the home/work/school locations.

Name	Data type	Comment
vid	integer	Unique NREL vehicle identifier
did	integer	Unique deployment identifier
trip_id	integer	Trip identifier ordered start to end, unique to vehicle
day_id	integer	Day identifier ordered start to end, unique to vehicle
mt_count	integer	The count of micro-trips occurring for the vehicle trip
start_ts	timestamp without time zone	The local timestamp of the first recorded point for the trips
end_ts	timestamp without time zone	The local timestamp of the last recorded point for the trips
start_rts	double precision	Seconds from first recorded timestamp for the vehicle when the trip began
end_rts	double precision	Seconds from first recorded timestamp for the vehicle when the trip ended
absolute_time_duration_hrs	double precision	Absolute time duration in hours. This is calculated on the total number of samples collected and independent of real time duration.
speed_data_duration_hrs	double precision	Total number of hours of data collected. Includes zero speed components.
driving_data_duration_hrs	double precision	Duration of collected data while vehicle is in motion. Does not include zero speed time.
non_recorded_time_hrs	double precision	Total number of hours which were not recorded by the device. Calculated as the difference between the real time duration of the data and the collected data duration.
collected_vs_real_time_ratio	double precision	Ratio of collected sample duration to real time duration
mean_estimated_sampling_rate_hz	double precision	Computed sampling rate based on average time gap observed between samples in collected data
max_gap_between_samples_s	double precision	Maximum time gap observed between samples in collected data
min_gap_between_samples_s	double precision	Minimum time gap observed between sampled in collected data
mean_gap_between_sampl	double precision	Average time gap observed between sampled in collected data

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es_s		
median_gap_between_samples_s	double precision	Median time gap observed between sampled in collected data
std_gap_between_samples_s	double precision	Standard deviation of time gaps between samples observed in collected data
var_gap_between_samples_s	double precision	Variance of time gaps observed in collected data
gap_25th_percentile_s	double precision	Twenty Fifth percentile time gap between samples observed in collected data
gap_75th_percentile_s	double precision	Seventy Fifth percentile time gap between samples observed in collected data
gap_inter_quartile_range_s	double precision	Inter Quartile Range for distribution of time gaps between samples observed in collected data
gap_median_absolute_deviation_s	double precision	Median Absolute Deviation for distribution of time gaps between samples observed in collected data
median_estimated_sampling_rate_hz	double precision	Estimated sampling rate based on median time gap observed between samples in collected data
max_speed	double precision	Maximum observed driving speed
total_average_speed	double precision	Average speed over cycle including zero speed components
total_median_speed	double precision	Median of all observed speed data. Includes zero speed components.
total_root_mean_cubed_speed	double precision	Root mean cubed value of all observed speed data. Includes zero speed components.
total_speed_variance	double precision	Variance of all observed speed values. Includes zero speed components.
total_speed_standard_deviation	double precision	Standard deviation of all observed speed values. Includes zero speed components.
total_speed_velocity_ratio	double precision	Total vehicle speed velocity ratio
total_speed_25th_percentile	double precision	25th percentile value for speed distribution. Includes zero speed components.
total_speed_75th_percentile	double precision	75th percentile value for all observed speed points. Includes zero speed components.
total_speed_inter_quartile_range	double precision	Inter quartile range for distribution including all observed speed points. Includes zero speed components.
total_speed_median_absolute_deviation	double precision	Median absolute deviation of all observed speed values. Includes zero speed components.
driving_average_speed	double precision	Average driving speed over cycle. Does not include any zero speed components.
driving_median_speed	double precision	Median driving speed over cycle. Does not include any zero speed components.
driving_root_	double precision	The square root of the mean driving speed cubed

mean_cubed_ speed		
driving_speed _variance	double precision	Variance of observed driving speed. Does not include zero speed components.
driving_speed _standard_de viation	double precision	Standard deviation of driving speed distribution. Does not include zero speed components.
driving_speed _velocity_rati o	double precision	Ratio of root mean cubed speed to mean total speed
driving_speed _25th_percen tile	double precision	The 25th percentile for driving speed distribution
driving_speed _75th_percen tile	double precision	75th percentile value for driving speed distribution. Does not include zero speed components.
driving_speed _inter_quartil e_range	double precision	Inter quartile range of observed driving speed distribution. Does not include zero speed components.
driving_speed _median_abs olute_deviatio n	double precision	Median absolute deviation of observed driving speeds. Does not include zero speed components.
zero_seconds	double precision	Number of seconds at zero speed
zero_five_sec onds	double precision	Total time spent at speeds between zero and five miles per hour
five_ten_seco nds	double precision	Total time observed at speeds between five and ten miles per hour
ten_fifteen_s econds	double precision	Number of seconds spent at speeds between ten and fifteen miles per hour
fifteen_twent y_seconds	double precision	Total amount of time observed at speeds between fifteen and twenty miles per hour
twenty_twent y_five_second s	double precision	Total time spent at speeds between twenty and twenty five miles per hour
twenty_five_t hirty_seconds	double precision	Total time spent at speeds between twenty five and thirty miles per hour
thirty_thirty_f ive_seconds	double precision	Total time spent at speeds between thirty and thirty five miles per hour
thirty_five_fo urty_seconds	double precision	Total amount of time spent at speeds between thirty five and forty miles per hour
fourty_fourty _five_seconds	double precision	Total amount of time at speeds between forty and forty five miles per hour
fourty_five_fif ty_seconds	double precision	Number of seconds spent between forty five and fifty miles per hour vehicle speed
fifty_fifty_five _seconds	double precision	Total amount of time observed at speeds between fifty and fifty five miles per hour
fifty_five_sixt y_seconds	double precision	Total time spent at speeds between fifty five and sixty miles per hour
sixty_sixty_fi ve_seconds	double precision	Total amount of time spent at speeds between sixty and sixty five miles per hour
sixty_five_se venty_second s	double precision	Total amount of time observed at speeds between sixty five and seventy miles per hour
seventy_seve	double precision	Total time observed at speeds between seventy and

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nty_five_seconds		seventy five miles per hour
seventy_five_plus_seconds	double precision	Total amount of time spent at speeds in excess of seventy five miles per hour
driving_time_seconds	double precision	Total time spent while vehicle is in motion. Does not include zero speed time.
percent_zero	double precision	Percent of total time spent and zero speed
percent_zero_five	double precision	Percent of total time spent at speeds between zero and five miles per hour
percent_five_ten	double precision	Percent of total time spent at speeds between five and ten miles per hour
percent_ten_fifteen	double precision	Percent of total time spent at speeds between ten and fifteen miles per hour
percent_fifteen_twenty	double precision	Percent of total time spent at speeds between fifteen and twenty miles per hour
percent_twenty_twenty_five	double precision	Percent of total time spent at speeds between twenty and twenty five miles per hour
percent_twenty_five_thirty	double precision	Percent of total time spent at speeds between thirty and thirty five miles per hour
percent_thirty_thirty_five	double precision	Percent of total time spent at speeds between thirty and thirty five miles per hour
percent_thirty_five_fourty	double precision	Percent of total time spent at speeds between thirty five and forty miles per hour
percent_fourty_fourty_five	double precision	Percent of total time spent at speeds between forty and forty five miles per hour
percent_fourty_five_fifty	double precision	Percent of time spent at speeds between forty five and fifty miles per hour
percent_fifty_fifty_five	double precision	Percent of total time spent at speeds between fifty and fifty five miles per hour
percent_fifty_five_sixty	double precision	Percent of time at speeds between fifty five and sixty miles per hour
percent_sixty_sixty_five	double precision	Percent of total time spent at speeds between sixty and sixty five miles per hour
percent_sixty_five_seventy	double precision	Percent of time at speeds between sixty five and seventy miles per hour
percent_seventy_seventy_five	double precision	Percent of total time observed at speeds between seventy and seventy five miles per hour
percent_seventy_five_plus	double precision	Percent of total time spent at speeds in excess of seventy five miles per hour
percent_distance_zero_five	double precision	Percent of total distance traveled at speeds between zero and five miles per hour
percent_distance_twenty_twenty_five	double precision	Percent of total distance traveled at speeds between twenty and twenty five miles per hour
percent_distance_twenty_five_thirty	double precision	Percent of total distance traveled at speeds between twenty five and thirty miles per hour
percent_distance_total	double precision	Total percentage of distance traveled at all speeds in cycle. Will always sum to 100%.
percent_distance_thirty_thirty_five	double precision	Percent of distance traveled at speeds between thirty and thirty five miles per hour

percent_dista nce_thirty_fiv e_fourty	double precision	Percent of total miles traveled at speeds between thirty five and forty miles per hour
percent_dista nce_ten_fifte en	double precision	Percent of total distance traveled at speeds between ten and fifteen miles per hour
percent_dista nce_sixty_six ty_five	double precision	Percent of total distance traveled at speeds between sixty and sixty five miles per hour
percent_dista nce_sixty_fiv e_seventy	double precision	Percent of total distance traveled at speeds between sixty five and seventy miles per hour
percent_dista nce_seventy_ seventy_five	double precision	Percent of total distance traveled at speeds between seventy and seventy five miles per hour
percent_dista nce_seventy_ five_plus	double precision	Percent of total distance traveled at speeds in excess of seventy five miles per hour
percent_dista nce_fourty_fo urty_five	double precision	Percent of total distance traveled at speeds between fort and forty five miles per hour
percent_dista nce_fourty_fi ve_fifty	double precision	Percent of total distance traveled at speeds between forty five and fifty miles per hour
percent_dista nce_five_ten	double precision	Percent of total distance traveled between five and ten miles per hour
percent_dista nce_fifty_five _sixty	double precision	Percent of total distance traveled at speeds between fifty five and sixty miles per hour
percent_dista nce_fifty_fifty _five	double precision	Percent of total distance traveled at speeds between fifty and fifty five miles per hour
percent_dista nce_fifteen_t wenty	double precision	Percent of total distance traveled at speeds between fifteen and twenty miles per hour
percent_total	double precision	Total time spent at all speeds in cycle. Will always add up to 100%.
distance_zero _five	double precision	Total distance traveled in miles at speeds between zero and five miles per hour
distance_five _ten	double precision	Total distance traveled in miles at speeds between five and ten miles per hour
distance_ten_ fifteen	double precision	Total distance traveled in miles at speeds between ten and fifteen miles per hour
distance_fifte en_twenty	double precision	Total distance traveled in miles at speeds between fifteen and twenty miles per hour
distance_twe nty_twenty_fi ve	double precision	Total distance traveled in miles at speeds between twenty and twenty five miles per hour
distance_twe nty_five_thirt y	double precision	Total distance traveled in miles at speeds between twenty five and thirty miles per hour
distance_thirt y_thirty_five	double precision	Total number of miles traveled at speeds between thirty and thirty five miles per hour
distance_thirt y_five_fourty	double precision	Total distance traveled in miles at speeds between thirty five and forty miles per hour

distance_four ty_fourty_five	double precision	Total number of miles traveled at speeds between forty and forty five miles per hour
distance_four ty_five_fifty	double precision	Total number of miles traveled between forty five and fifty miles per hour
distance_fifty _fifty_five	double precision	Total number of miles traveled between fifty and fifty five miles per hour
distance_fifty _five_sixty	double precision	Total distance traveled in miles at speeds between fifty five and sixty miles per hour
distance_sixt y_sixty_five	double precision	Distance in miles traveled at speed from sixty to sixty five mph
distance_sixt y_five_sevent y	double precision	Total number of miles traveled between sixty five and seventy miles per hour
distance_seve nty_seventy_f ive	double precision	Total distance traveled in miles as speeds between seventy and seventy five miles per hour
distance_seve nty_five_plus	double precision	Distance in miles traveled at speeds in excess of 75 mph
distance_total	double precision	Total distance traveled in miles
total_number _of_accelerati on_events	double precision	Total number of observed acceleration events
total_number _of_decelerati on_events	double precision	Total number of observed acceleration events
acceleration_ events_per_m ile	double precision	Number of acceleration events observed per mile of distance traveled
deceleration_ events_per_m ile	double precision	Number of deceleration events observed per mile of distance traveled
max_accelera tion_ft_per_s econd_square d	double precision	Maximum acceleration rate in ft per second squared
max_decelera tion_ft_per_s econd_square d	double precision	Maximum deceleration in ft per second squared
average_accel eration_ft_pe r_second_squ ared	double precision	Average acceleration rate in ft per second squared
average_dece leration_ft_pe r_second_squ ared	double precision	Average deceleration in ft per second squared
median_accel eration_ft_pe r_second_squ ared	double precision	Median acceleration rate in ft per second squared
median_decel eration_ft_pe r_second_squ ared	double precision	Median deceleration rate in ft per second squared

std_acceleration_ft_per_second_squared	double precision	Standard deviation of acceleration in ft per second squared
std_deceleration_ft_per_second_squared	double precision	Standard deviation of observed deceleration in ft per second squared
var_acceleration_ft_per_second_squared	double precision	Variance of observed acceleration rate distribution in ft per second squared
var_deceleration_ft_per_second_squared	double precision	Variance of observed deceleration in ft per second squared
acceleration_25th_percentile_ft_per_second_squared	double precision	25th percentile for acceleration distribution. Value in ft per second squared
deceleration_25th_percentile_ft_per_second_squared	double precision	25th percentile value for deceleration rate distribution in ft per second squared
acceleration_75th_percentile_ft_per_second_squared	double precision	75th percentile value for observed acceleration rate distribution in ft per second squared
deceleration_75th_percentile_ft_per_second_squared	double precision	75th percentile value for deceleration rate in ft per second squared
acceleration_inter_quartile_range_ft_per_second_squared	double precision	Inter quartile range of acceleration in ft per second squared
deceleration_inter_quartile_range_ft_per_second_squared	double precision	Inter quartile range for deceleration distribution
acceleration_median_absolute_deviation_ft_per_second_squared	double precision	Median absolute deviation of acceleration
deceleration_median_absolute_deviation_ft_per_second_squared	double precision	Median absolute deviation of deceleration rate distribution in ft per second squared
cumulative_acceleration_duration	double precision	Total time spent accelerating
cumulative_deceleration_duration	double precision	Sum of time spent decelerating
cumulative_a	double precision	Percent of total time spent accelerating

cceleration_cycle_duration_percent		
cumulative_deceleration_cycle_duration_percent	double precision	Percent of total time spent decelerating
absolute_time_cumulative_acceleration_duration	double precision	Sum of total time spent accelerating
absolute_time_cumulative_deceleration_duration	double precision	Sum of time spent decelerating
absolute_time_cumulative_acceleration_cycle_duration_percent	double precision	Percent of total time spent accelerating
absolute_time_cumulative_deceleration_cycle_duration_percent	double precision	Percent of total time spent decelerating
average_acceleration_event_duration	double precision	Average duration of observed acceleration events
average_deceleration_event_duration	double precision	Average duration of observed deceleration events
min_acceleration_event_duration	double precision	Minimum duration observed for an acceleration event
min_deceleration_event_duration	double precision	Minimum observed duration for deceleration event
max_acceleration_event_duration	double precision	Maximum duration of observed acceleration events
max_deceleration_event_duration	double precision	Maximum duration of observed deceleration events
std_acceleration_event_duration	double precision	Standard deviation of acceleration event duration distribution
std_deceleration_event_duration	double precision	Standard deviation of deceleration event duration distribution
var_acceleration_event_duration	double precision	Variance of acceleration event durations
var_deceleration_event_duration	double precision	Variance of deceleration event duration distribution

median_acceleration_event_duration	double precision	Median duration of all observed acceleration events
median_deceleration_event_duration	double precision	Median observed duration of deceleration events
acceleration_event_duration_25th_percentile	double precision	The 25th percentile value for acceleration event durations
deceleration_event_duration_25th_percentile	double precision	The 25th percentile value for deceleration event durations
acceleration_event_duration_75th_percentile	double precision	75th percentile value for acceleration event duration distribution
deceleration_event_duration_75th_percentile	double precision	75th percentile value for deceleration event duration distribution
acceleration_event_duration_inter_quartile_range	double precision	Inter quartile range for acceleration event duration distribution
deceleration_event_duration_inter_quartile_range	double precision	Inter quartile range for distribution of deceleration event durations
acceleration_event_duration_median_absolute_deviation	double precision	Median absolute deviation of acceleration event duration distribution
deceleration_event_duration_median_absolute_deviation	double precision	Median absolute deviation of deceleration event duration distribution
total_stops	double precision	Number of observed stops
stops_0_30	double precision	Number of stops with dwell times between zero and thirty seconds
stops_30_60	double precision	Number of stops with dwell times between thirty and sixty seconds
stops_60_plus	double precision	Number of stops with dwell times in excess of 60 seconds
stops_300_plus	double precision	Number of stops observed with dwell times in excess of 300 seconds
stops_1800_plus	double precision	Number of stops with durations in excess of 30 minutes
stops_3600_plus	double precision	Number of stops with dwell times in excess of 3600 seconds
stops_per_mile	double precision	Number of observed stops per miles traveled

average_stop _duration	double precision	Average duration of all stops observed
min_stop_dur ation	double precision	Minimum stop dwell time observed
max_stop_du ration	double precision	Maximum dwell time observed while stopped
median_stop_ duration	double precision	Median dwell time of observed stops
mean_stop_d uration	double precision	Mean observed stop dwell time
std_stop_dur ation	double precision	Standard deviation of stop dwell times
var_stop_dur ation	double precision	Variance of observed stop dwell times
stop_duration _25th_percen tile	double precision	25th percentile value for stop dwell time distribution
stop_duration _75th_percen tile	double precision	75th percentile value for stop dwell time distribution
stop_duration _inter_quartil e_range	double precision	Inter quartile range for stop duration distribution
stop_duration _median_abs olute_deviatio n	double precision	Median absolute deviation of observed stop dwell times
max_elevatio n	double precision	Maximum observed elevation
min_elevation	double precision	Minimum observed elevation
mean_elevati on	double precision	Mean elevation observed
median_eleva tion	double precision	Median elevation observed
std_of_elevati on	double precision	Standard deviation of elevation
var_of_elevat ion	double precision	Variance of elevation data records
elevation_25t h_percentile	double precision	25th percentile value for elevation distribution
elevation_75t h_percentile	double precision	75th percentile value for elevation distribution
elevation_inte r_quartile_ra nge	double precision	Inter quartile range for elevation distribution
elevation_me dian_absolute _deviation	double precision	Median absolute deviation of elevation distribution
delta_elevatio n	double precision	Net elevation change observed. Calculated as final elevation record minus initial elevation record.
delta_elevatio n_cumulative	double precision	Net total elevation change. Sum of all elevation change records.
absolute_delt a_elevation_c umulative	double precision	Cumulative absolute change in elevation. Sum of absolute value of differential elevation changes observed.

total_elevation_gained	double precision	Sum of total elevation gained
total_elevation_lost	double precision	Sum of elevation lost
average_absolute_elevation_rate_change	double precision	Average rate of elevation change regardless of sign
max_climbing_rate	double precision	Maximum observed climbing rate
average_climbing_rate	double precision	Average climbing rate of vehicle
median_climbing_rate	double precision	Median observed climbing rate
max_descending_rate	double precision	Maximum observed descending rate
average_descending_rate	double precision	Average observed descending rate
median_descending_rate	double precision	Median descending rate observed
climbing_rate_25th_percentile	double precision	25th percentile value for observed climbing rate distribution
descending_rate_25th_percentile	double precision	25th percentile value for descending rate distribution
climbing_rate_75th_percentile	double precision	75th percentile value for climbing rate distribution
descending_rate_75th_percentile	double precision	75th percentile value for descending rate distribution
climbing_rate_inter_quartile_range	double precision	Inter quartile range for climbing rate distribution
descending_rate_inter_quartile_range	double precision	Inter quartile range for descending vehicle rate
climbing_rate_median_absolute_deviation	double precision	Median absolute deviation of vehicle climbing rate
descending_rate_median_absolute_deviation	double precision	Median absolute deviation of descending rate distribution
max_road_grade	double precision	Maximum observed road grade
min_road_grade	double precision	Minimum road grade observed
mean_road_grade	double precision	Mean observed road grade
median_road_grade	double precision	Median observed road grade
std_of_road_grade	double precision	Standard deviation of observed road grade

var_of_road_ grade	double precision	Variance of road grade observed
road_grade_2 5th_percentil e	double precision	25th percentile value for road grade distribution
road_grade_7 5th_percentil e	double precision	75th percentile value for observed road grade distribution
road_grade_i nter_quartile _range	double precision	Inter quartile range for observed road grade distribution
road_grade_ median_absol ute_deviation	double precision	Median absolute deviation for road grade distribution
maximum_kin etic_power_d ensity_deman d	double precision	Maximum demanded kinetic power density
total_kinetic_ power_densit y_demand	double precision	Sum of demanded kinetic power density
average_kinet ic_power_den sity_demand	double precision	Average demanded kinetic power density
variance_kine tic_power_de nsity_demand	double precision	Variance of kinetic power density demanded
standard_deiv ation_kinetic_ power_densit y_demand	double precision	Standard deviation of demanded kinetic power density
maximum_kin etic_power_d ensity_regen	double precision	The maximum single sample regenerative kinetic power density
total_kinetic_ power_densit y_regen	double precision	The sum of regenerative kinetic power density observed
average_kinet ic_power_den sity_regen	double precision	Average regenerative kinetic power density
variance_kine tic_power_de nsity_regen	double precision	Variance of regenerative kinetic power density
standard_deiv ation_kinetic_ power_densit y_regen	double precision	Standard deviation of regenerative kinetic power density
maximum_po tential_power _density_dem and	double precision	Maximum demanded potential power density
total_potentia l_power_dens ity_demand	double precision	The sum of demanded potential power density
average_pote	double precision	Average demanded potential power density

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ntial_power_density_demand		
variance_potential_power_density_demand	double precision	Variance of demanded potential power density
standard_deivation_potential_power_density_demand	double precision	Standard Deviation of the demanded potential power density
maximum_potential_power_density_regen	double precision	Maximum regenerative potential power density
total_potential_power_density_regen	double precision	Sum of regenerative potential power density
average_potential_power_density_regen	double precision	Average regenerative potential power density
variance_potential_power_density_regen	double precision	Variance of observed regenerative potential power density
standard_deivation_potential_power_density_regen	double precision	Standard deviation of regenerative potential power density
maximum_aerodynamic_power_density_demand	double precision	Maximum demanded aerodynamic power density
total_aerodynamic_power_density_demand	double precision	The sum of demanded aerodynamic power density
average_aerodynamic_power_density_demand	double precision	Average demanded aerodynamic power density
variance_aerodynamic_power_density_demand	double precision	Variance of demanded aerodynamic power density
standard_deivation_aerodynamic_power_density_demand	double precision	Standard deviation of demanded aerodynamic power density
maximum_aerodynamic_power_density_regen	double precision	Maximum regenerative aerodynamic power density
total_aerodynamic_power_	double precision	Sum of regenerative aerodynamic power density

density_regen		
average_aero dynamic_pow er_density_re gen	double precision	Average regenerative power density from aerodynamics
variance_aero dynamic_pow er_density_re gen	double precision	Variance of regenerative aerodynamic power density
standard_deiv ation_aerody namic_power _density_rege n	double precision	Standard deviation of regenerative aerodynamic power density
maximum_rol ling_power_d ensity_deman d	double precision	Maximum demanded rolling power density
total_rolling_ power_densit y_demand	double precision	The sum of demanded rolling power density
average_rolli ng_power_de nsity_demand	double precision	Average demanded rolling power density
variance_rolli ng_power_de nsity_demand	double precision	Variance of demanded rolling power density
standard_deiv ation_rolling_ power_densit y_demand	double precision	Standard deviation of power density demand from rolling resistance
maximum_rol ling_power_d ensity_regen	double precision	Maximum regenerative rolling power density
total_rolling_ power_densit y_regen	double precision	Sum of regenerative rolling power density
average_rolli ng_power_de nsity_regen	double precision	Average regenerative rolling power density
variance_rolli ng_power_de nsity_regen	double precision	Variance of regenerative rolling power density
standard_deiv ation_rolling_ power_densit y_regen	double precision	Standard deviation of regenerative rolling power density
maximum_ins tantanteous_ potential_ene rgy_density	double precision	Maximum potential energy density
average_insta ntanteous_po tential_energ y_density	double precision	Average potential energy density

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cumulative_instanteous_potential_energy_density	double precision	Sum of potential energy density
maximum_instanteous_kinetic_energy_density	double precision	Maximum single sample kinetic energy density
average_instanteous_kinetic_energy_density	double precision	Average kinetic energy density
cumulative_instanteous_kinetic_energy_density	double precision	Sum of kinetic energy density
maximum_instanteous_aerodynamic_energy_density	double precision	The maximum single sample aerodynamic energy density
average_instanteous_aerodynamic_energy_density	double precision	Average single sample aerodynamic energy density
cumulative_instanteous_aerodynamic_energy_density	double precision	Sum of aerodynamic energy density
maximum_instanteous_rolling_energy_density	double precision	Maximum rolling energy density
average_instanteous_rolling_energy_density	double precision	Average rolling energy density
cumulative_instanteous_rolling_energy_density	double precision	Sum of rolling energy density
characteristic_acceleration	double precision	Characteristic Acceleration
characteristic_deceleration	double precision	Characteristic Deceleration – Energy while decelerating
aerodynamic_speed	double precision	Aerodynamic Speed
kinetic_intensity	double precision	Kinetic Intensity
ca_standard	double precision	Characteristic Acceleration reported in standard units
cd_standard	double precision	Characteristic Deceleration reported in standard units
as_standard	double precision	Aerodynamic Speed reported in standard units
ki_standard	double precision	Kinetic Intensity reported in standard units
group_ttl_distance	double precision	Distance for all points recorded in the sequence, calculated assuming 1 second sample interval, and

		constant speed (instantaneous speed/3600.0 = miles)
group_ttl_me an_speed	double precision	Mean speed of all non-zero speed points recorded in the sequence
group_ttl_std _speed	double precision	Standard deviation of all non-zero speed points recorded in the sequence
group_ttl_ttl	integer	Total point count recorded for the sequence
group_ttl_zer o_speed	double precision	Total point count of all zero speed point recorded in the sequence
matched_ttl_ distance	double precision	Distance for all points matched to streets; calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
matched_ttl_ mean_speed	double precision	Mean speed of all non-zero speed points recorded matched to streets
matched_ttl_s td_speed	double precision	Standard deviation of all non-zero speed points recorded matched to streets
matched_ttl_t tl	integer	Total point count recorded matched to streets
matched_ttl_z ero_speed	integer	Total point count of all zero speed point recorded matched to streets
non_matched _ttl_distance	double precision	Distance for all points not matched to streets; calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
non_matched _ttl_mean_sp eed	double precision	Mean speed of all non-zero speed points recorded not matched to streets
non_matched _ttl_std_spee d	double precision	Standard deviation of all non-zero speed points recorded not matched to streets
non_matched _ttl_ttl	double precision	Total point count recorded not matched to streets
non_matched _ttl_zero_spe ed	integer	Total point count of all zero speed point recorded not matched to streets
func_1_distan ce	double precision	Distance for all points in recorded on functional class 1 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_1_mean _speed	double precision	Mean speed of all non-zero speed points recorded on functional class 1 streets
func_1_std_s peed	double precision	Standard deviation of all non-zero speed points recorded on functional class 1 streets
func_1_ttl	integer	Total point count recorded on functional class 1 streets
func_1_zero_ speed	integer	Total point count of all zero speed point on functional class 1 streets
func_2_distan ce	double precision	Distance for all points in recorded on functional class 2 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_2_mean _speed	double precision	Mean speed of all non-zero speed points recorded on functional class 2 streets
func_2_std_s peed	double precision	Standard deviation of all non-zero speed points recorded on functional class 2 streets
func_2_ttl	integer	Total point count recorded on functional class 2 streets
func_2_zero_	integer	Total point count of all zero speed point on functional

speed		class 2 streets
func_3_distance	double precision	Distance for all points in recorded on functional class 3 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_3_mean_speed	double precision	Mean speed of all non-zero speed points recorded on functional class 3 streets
func_3_std_speed	double precision	Standard deviation of all non-zero speed points recorded on functional class 3 streets
func_3_ttl	integer	Total point count recorded on functional class 3 streets
func_3_zero_speed	integer	Total point count of all zero speed point recorded on functional class 3 streets
func_4_distance	double precision	Distance for all points in recorded on functional class 4 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_4_mean_speed	double precision	Mean speed of all non-zero speed points recorded on functional class 4 streets
func_4_std_speed	double precision	Standard deviation of all non-zero speed points recorded on functional class 4 streets
func_4_ttl	integer	Total point count recorded on functional class 4 streets
func_4_zero_speed	integer	Total point count of all zero speed point recorded on functional class 4 streets
func_5_distance	double precision	Distance for all points in recorded on functional class 5 streets, calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
func_5_mean_speed	double precision	Mean speed of all non-zero speed points recorded on functional class 5 streets
func_5_std_speed	double precision	Standard deviation of all non-zero speed points recorded on functional class 5 streets
func_5_ttl	integer	Total point count recorded on functional class 5 streets
func_5_zero_speed	integer	Total point count of all zero speed point recorded on functional class 5 streets
spd_cat_1_distance	double precision	Distance for all points in recorded on speed category 1 streets (80 mph + speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_1_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_1_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_1_ttl	integer	Total point count recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_1_zero_speed	integer	Total point count of all zero speed point recorded on speed category 1 streets(80 mph + speed limit)
spd_cat_2_distance	double precision	Distance for all points in recorded on speed category 2 streets (70 - 80 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_2_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_2_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 2 streets(70 - 80 mph

		speed limit)
spd_cat_2_ttl	integer	Total point count recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_2_zero_speed	integer	Total point count of all zero speed point recorded on speed category 2 streets(70 - 80 mph speed limit)
spd_cat_3_distance	double precision	Distance for all points in recorded on speed category 3 streets (60 - 70 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_3_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_ttl	integer	Total point count recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_3_zero_speed	integer	Total point count of all zero speed point recorded on speed category 3 streets(60 - 70 mph speed limit)
spd_cat_4_distance	double precision	Distance for all points in recorded on speed category 4 streets (50 - 60 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_4_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_ttl	integer	Total point count recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_4_zero_speed	integer	Total point count of all zero speed point recorded on speed category 4 streets(50 - 60 mph speed limit)
spd_cat_5_distance	double precision	Distance for all points in recorded on speed category 5 streets (40 - 50 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_5_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_ttl	integer	Total point count recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_5_zero_speed	integer	Total point count of all zero speed point recorded on speed category 5 streets (40 - 50 mph speed limit)
spd_cat_6_distance	double precision	Distance for all points in recorded on speed category 6 streets (30 - 40 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_6_mean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_6_std_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_6_ttl	integer	Total point count recorded on speed category 6 streets(30 - 40 mph speed limit)

spd_cat_6_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 6 streets(30 - 40 mph speed limit)
spd_cat_7_di stance	double precision	Distance for all points in recorded on speed category 7 streets (20 - 30 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_7_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 7 streets
spd_cat_7_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 7 streets
spd_cat_7_ttl	integer	Total point count recorded on speed category 7 streets
spd_cat_7_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 7 streets
spd_cat_8_di stance	double precision	Distance for all points in recorded on speed category 8 streets (10 - 20 mph speed limit), calculated assuming 1 second sample interval, and constant speed (instantaneous speed/3600.0 = miles)
spd_cat_8_m ean_speed	double precision	Mean speed of all non-zero speed points recorded on speed category 8 streets
spd_cat_8_st d_speed	double precision	Standard deviation of all non-zero speed points recorded on speed category 8 streets
spd_cat_8_ttl	integer	Total point count recorded on speed category 8 streets
spd_cat_8_ze ro_speed	integer	Total point count of all zero speed point recorded on speed category 8 streets
start_block_i d	integer	The 2010 census blockgroup identifier where the trip begins
start_tract_id	character varying(11)	The 2010 census tract identifier where the trip begins
start_county_ id	integer	The 2010 census county identifier where the trip begins
start_state_id	integer	The 2010 census state identifier where the trip begins
start_csa_id	integer	The 2010 census csa_id identifier where the trip begins
start_place_id	integer	The 2010 census place identifier where the trip begins
start_zipcode _id	integer	The 2010 census zipcode identifier where the trip begins
end_block_id	integer	The 2010 census blockgroup identifier where the trip ends
end_tract_id	character varying(11)	The 2010 census tract identifier where the trip ends
end_county_i d	integer	The 2010 census county identifier where the trip ends
end_state_id	integer	The 2010 census state identifier where the trip ends
end_csa_id	integer	The 2010 census csa_id identifier where the trip ends
end_place_id	integer	The 2010 census place identifier where the trip ends
end_zipcode_i d	integer	The 2010 census zip code identifier where the trip ends
home_start	boolean	TRUE = start location of the trip was within approximately 1000 feet of the home location. Null if not known or Not Applicable.
work_start	boolean	TRUE = start location of the trip was within approximately 1000 feet of the work location. Null if not known or Not Applicable.
school_start	boolean	TRUE = start location of the trip was within approximately 1000 feet of the school location. Null if

		not known or Not Applicable.
home_end	boolean	TRUE = end location of the trip was within approximately 1000 feet of the home location. Null if not known or Not Applicable.
work_end	boolean	TRUE = end location of the trip was within approximately 1000 feet of the work location. Null if not known or Not Applicable.
school_end	boolean	TRUE = end location of the trip was within approximately 1000 feet of the school location. Null if not known or Not Applicable.
geom	geometry	LINESTRING Geometry representing the path of travel over the sequence duration

Results Micro-Trips:

This table contains drive-cycle calculations for each vehicle micro-trip.

Name	Data type	Comment
vid	integer	Unique NREL vehicle identifier
did	integer	Unique deployment identifier
mt_id	integer	Micro-trip identifier ordered start to end, unique to vehicle
trip_id	integer	Trip identifier ordered start to end, unique to vehicle
day_id	integer	Day identifier ordered start to end, unique to vehicle
start_ts	timestamp without time zone	The local timestamp of the first recorded point for the micro-trip
end_ts	timestamp without time zone	The local timestamp of the last recorded point for the micro-trip
start_rts	double precision	Seconds from first recorded timestamp for the vehicle when the micro-trip began
end_rts	double precision	Seconds from first recorded timestamp for the vehicle when the micro-trip ended
absolute_time_duration_hrs	double precision	Absolute time duration in hours. This is calculated on the total number of samples collected and independent of real time duration.
speed_data_duration_hrs	double precision	Total number of hours of data collected. Includes zero speed components.
driving_data_duration_hrs	double precision	Duration of collected data while vehicle is in motion. Does not include zero speed time.
non_recorded_time_hrs	double precision	Total number of hours which were not recorded by the device. Calculated as the difference between the real time duration of the data and the collected data duration.
collected_vs_real_time_ratio	double precision	Ratio of collected sample duration to real time duration
mean_estimated_sampling_rate_hz	double precision	Computed sampling rate based on average time gap observed between samples in collected data
max_gap_between_sampl	double precision	Maximum time gap observed between samples in collected data

es_s		
min_gap_between_samples_s	double precision	Minimum time gap observed between sampled in collected data
mean_gap_between_samples_s	double precision	Average time gap observed between sampled in collected data
median_gap_between_samples_s	double precision	Median time gap observed between sampled in collected data
std_gap_between_samples_s	double precision	Standard deviation of time gaps between samples observed in collected data
var_gap_between_samples_s	double precision	Variance of time gaps observed in collected data
gap_25th_percentile_s	double precision	Twenty Fifth percentile time gap between samples observed in collected data
gap_75th_percentile_s	double precision	Seventy Fifth percentile time gap between samples observed in collected data
gap_inter_quartile_range_s	double precision	Inter Quartile Range for distribution of time gaps between samples observed in collected data
gap_median_absolute_deviation_s	double precision	Median Absolute Deviation for distribution of time gaps between samples observed in collected data
median_estimated_sampling_rate_hz	double precision	Estimated sampling rate based on median time gap observed between samples in collected data
max_speed	double precision	Maximum observed driving speed
total_average_speed	double precision	Average speed over cycle including zero speed components
total_median_speed	double precision	Median of all observed speed data. Includes zero speed components.
total_root_mean_cubed_speed	double precision	Root mean cubed value of all observed speed data. Includes zero speed components.
total_speed_variance	double precision	Variance of all observed speed values. Includes zero speed components.
total_speed_standard_deviation	double precision	Standard deviation of all observed speed values. Includes zero speed components.
total_speed_velocity_ratio	double precision	Total vehicle speed velocity ratio
total_speed_25th_percentile	double precision	25th percentile value for speed distribution. Includes zero speed components.
total_speed_75th_percentile	double precision	75th percentile value for all observed speed points. Includes zero speed components.
total_speed_inter_quartile_range	double precision	Inter quartile range for distribution including all observed speed points. Includes zero speed components.
total_speed_	double precision	Median absolute deviation of all observed speed

median_abso lute_deviatio n		values. Includes zero speed components.
driving_aver age_speed	double precision	Average driving speed over cycle. Does not include any zero speed components.
driving_medi an_speed	double precision	Median driving speed over cycle. Does not include any zero speed components.
driving_root _mean_cube d_speed	double precision	The square root of the mean driving speed cubed
driving_spee d_variance	double precision	Variance of observed driving speed. Does not include zero speed components.
driving_spee d_standard_ deviation	double precision	Standard deviation of driving speed distribution. Does not include zero speed components.
driving_spee d_velocity_r atio	double precision	Ratio of root mean cubed speed to mean total speed
driving_spee d_25th_perc entile	double precision	The 25th percentile for driving speed distribution
driving_spee d_75th_perc entile	double precision	75th percentile value for driving speed distribution. Does not include zero speed components.
driving_spee d_inter_quar tile_range	double precision	Inter quartile range of observed driving speed distribution. Does not include zero speed components.
driving_spee d_median_ab solute_devia tion	double precision	Median absolute deviation of observed driving speeds. Does not include zero speed components.
zero_second s	double precision	Number of seconds at zero speed
zero_five_se conds	double precision	Total time spent at speeds between zero and five miles per hour
five_ten_sec onds	double precision	Total time observed at speeds between five and ten miles per hour
ten_fifteen_s econds	double precision	Number of seconds spent at speeds between ten and fifteen miles per hour
fifteen_twen ty_seconds	double precision	Total amount of time observed at speeds between fifteen and twenty miles per hour
twenty_twen ty_five_seco nds	double precision	Total time spent at speeds between twenty and twenty five miles per hour
twenty_five_ thirty_secon ds	double precision	Total time spent at speeds between twenty five and thirty miles per hour
thirty_thirty _five_second s	double precision	Total time spent at speeds between thirty and thirty five miles per hour
thirty_five_f ourty_secon ds	double precision	Total amount of time spent at speeds between thirty five and forty miles per hour
fourty_fourty _five_second	double precision	Total amount of time at speeds between forty and forty five miles per hour

s		
fourty_five_f ifty_seconds	double precision	Number of seconds spent between forty five and fifty miles per hour vehicle speed
fifty_fifty_fiv e_seconds	double precision	Total amount of time observed at speeds between fifty and fifty five miles per hour
fifty_five_six ty_seconds	double precision	Total time spent at speeds between fifty five and sixty miles per hour
sixty_sixty_fi ve_seconds	double precision	Total amount of time spent at speeds between sixty and sixty five miles per hour
sixty_five_se venty_secon ds	double precision	Total amount of time observed at speeds between sixty five and seventy miles per hour
seventy_sev enty_five_se conds	double precision	Total time observed at speeds between seventy and seventy five miles per hour
seventy_five _plus_secon ds	double precision	Total amount of time spent at speeds in excess of seventy five miles per hour
driving_time _seconds	double precision	Total time spent while vehicle is in motion. Does not include zero speed time.
percent_zero	double precision	Percent of total time spent and zero speed
percent_zero _five	double precision	Percent of total time spent at speeds between zero and five miles per hour
percent_five _ten	double precision	Percent of total time spent at speeds between five and ten miles per hour
percent_ten_ fifteen	double precision	Percent of total time spent at speeds between ten and fifteen miles per hour
percent_fifte en_twenty	double precision	Percent of total time spent at speeds between fifteen and twenty miles per hour
percent_twe nty_twenty_f ive	double precision	Percent of total time spent at speeds between twenty and twenty five miles per hour
percent_twe nty_five_thir ty	double precision	Percent of total time spent at speeds between thirty and thirty five miles per hour
percent_thirt y_thirty_five	double precision	Percent of total time spent at speeds between thirty and thirty five miles per hour
percent_thirt y_five_fourty	double precision	Percent of total time spent at speeds between thirty five and forty miles per hour
percent_four ty_fourty_fiv e	double precision	Percent of total time spent at speeds between forty and forty five miles per hour
percent_four ty_five_fifty	double precision	Percent of time spent at speeds between forty five and fifty miles per hour
percent_fifty _fifty_five	double precision	Percent of total time spent at speeds between fifty and fifty five miles per hour
percent_fifty _five_sixty	double precision	Percent of time at speeds between fifty five and sixty miles per hour
percent_sixt y_sixty_five	double precision	Percent of total time spent at speeds between sixty and sixty five miles per hour
percent_sixt y_five_seven ty	double precision	Percent of time at speeds between sixty five and seventy miles per hour
percent_seve	double precision	Percent of total time observed at speeds between

nty_seventy_five		seventy and seventy five miles per hour
percent_seventy_five_plus	double precision	Percent of total time spent at speeds in excess of seventy five miles per hour
percent_distance_zero_five	double precision	Percent of total distance traveled at speeds between zero and five miles per hour
percent_distance_twenty_twenty_five	double precision	Percent of total distance traveled at speeds between twenty and twenty five miles per hour
percent_distance_twenty_five_thirty	double precision	Percent of total distance traveled at speeds between twenty five and thirty miles per hour
percent_distance_total	double precision	Total percentage of distance traveled at all speeds in cycle. Will always sum to 100%.
percent_distance_thirty_thirty_five	double precision	Percent of distance traveled at speeds between thirty and thirty five miles per hour
percent_distance_thirty_five_fourty	double precision	Percent of total miles traveled at speeds between thirty five and forty miles per hour
percent_distance_ten_fifteen	double precision	Percent of total distance traveled at speeds between ten and fifteen miles per hour
percent_distance_sixty_sixty_five	double precision	Percent of total distance traveled at speeds between sixty and sixty five miles per hour
percent_distance_sixty_five_seventy	double precision	Percent of total distance traveled at speeds between sixty five and seventy miles per hour
percent_distance_seventy_seventy_five	double precision	Percent of total distance traveled at speeds between seventy and seventy five miles per hour
percent_distance_seventy_five_plus	double precision	Percent of total distance traveled at speeds in excess of seventy five miles per hour
percent_distance_fourty_fourty_five	double precision	Percent of total distance traveled at speeds between fort and forty five miles per hour
percent_distance_fourty_five_fifty	double precision	Percent of total distance traveled at speeds between forty five and fifty miles per hour
percent_distance_five_ten	double precision	Percent of total distance traveled between five and ten miles per hour
percent_distance_fifty_five_sixty	double precision	Percent of total distance traveled at speeds between fifty five and sixty miles per hour
percent_distance_fifty_fifty_five	double precision	Percent of total distance traveled at speeds between fifty and fifty five miles per hour
percent_distance_fifteen	double precision	Percent of total distance traveled at speeds between fifteen and twenty miles per hour

_twenty		
percent_total	double precision	Total time spent at all speeds in cycle. Will always add up to 100%.
distance_zero_five	double precision	Total distance traveled in miles at speeds between zero and five miles per hour
distance_five_ten	double precision	Total distance traveled in miles at speeds between five and ten miles per hour
distance_ten_fifteen	double precision	Total distance traveled in miles at speeds between ten and fifteen miles per hour
distance_fifteen_twenty	double precision	Total distance traveled in miles at speeds between fifteen and twenty miles per hour
distance_twenty_twenty_five	double precision	Total distance traveled in miles at speeds between twenty and twenty five miles per hour
distance_twenty_five_thirty	double precision	Total distance traveled in miles at speeds between twenty five and thirty miles per hour
distance_thirty_thirty_five	double precision	Total number of miles traveled at speeds between thirty and thirty five miles per hour
distance_thirty_five_fourty	double precision	Total distance traveled in miles at speeds between thirty five and forty miles per hour
distance_fourty_fourty_five	double precision	Total number of miles traveled at speeds between forty and forty five miles per hour
distance_fourty_five_fifty	double precision	Total number of miles traveled between forty five and fifty miles per hour
distance_fifty_fifty_five	double precision	Total number of miles traveled between fifty and fifty five miles per hour
distance_fifty_five_sixty	double precision	Total distance traveled in miles at speeds between fifty five and sixty miles per hour
distance_sixty_sixty_five	double precision	Distance in miles traveled at speed from sixty to sixty five mph
distance_sixty_five_seventy	double precision	Total number of miles traveled between sixty five and seventy miles per hour
distance_seventy_seventy_five	double precision	Total distance traveled in miles as speeds between seventy and seventy five miles per hour
distance_seventy_five_plus	double precision	Distance in miles traveled at speeds in excess of 75 mph
distance_total	double precision	Total distance traveled in miles
total_number_of_acceleration_events	double precision	Total number of observed acceleration events
total_number_of_deceleration_events	double precision	Total number of observed acceleration events
acceleration_events_per_mile	double precision	Number of acceleration events observed per mile of distance traveled
deceleration	double precision	Number of deceleration events observed per mile of

_events_per _mile		distance traveled
max_acceler ation_ft_per _second_squ ared	double precision	Maximum acceleration rate in ft per second squared
max_deceler ation_ft_per _second_squ ared	double precision	Maximum deceleration in ft per second squared
average_acc eleration_ft_ per_second_ squared	double precision	Average acceleration rate in ft per second squared
average_dec eleration_ft_ per_second_ squared	double precision	Average deceleration in ft per second squared
median_acce leration_ft_p er_second_s quared	double precision	Median acceleration rate in ft per second squared
median_dece leration_ft_p er_second_s quared	double precision	Median deceleration rate in ft per second squared
std_accelerat ion_ft_per_s econd_squar ed	double precision	Standard deviation of acceleration in ft per second squared
std_decelera tion_ft_per_ second_squa red	double precision	Standard deviation of observed deceleration in ft per second squared
var_accelera tion_ft_per_ second_squa red	double precision	Variance of observed acceleration rate distribution in ft per second squared
var_decelera tion_ft_per_ second_squa red	double precision	Variance of observed deceleration in ft per second squared
acceleration_ 25th_percent ile_ft_per_se cond_square d	double precision	25th percentile for acceleration distribution. Value in ft per second squared.
deceleration _25th_perce ntile_ft_per_ second_squa red	double precision	25th percentile value for deceleration rate distribution in ft per second squared
acceleration_ 75th_percent ile_ft_per_se	double precision	75th percentile value for observed acceleration rate distribution in ft per second squared

cond_square d		
deceleration _75th_perce ntile_ft_per_ second_squa red	double precision	75th percentile value for deceleration rate in ft per second squared
acceleration_ inter_quartil e_range_ft_p er_second_s quared	double precision	Inter quartile range of acceleration in ft per second squared
deceleration _inter_quarti le_range_ft_ per_second_ squared	double precision	Inter quartile range for deceleration distribution
acceleration_ median_abso lute_deviatio n_ft_per_sec ond_squared	double precision	Median absolute deviation of acceleration
deceleration _median_abs olute_deviati on_ft_per_se cond_square d	double precision	Median absolute deviation of deceleration rate distribution in ft per second squared
cumulative_a cceleration_d uration	double precision	Total time spent accelerating
cumulative_d eceleration_ duration	double precision	Sum of time spent decelerating
cumulative_a cceleration_c ycle_duratio n_percent	double precision	Percent of total time spent accelerating
cumulative_d eceleration_c ycle_duratio n_percent	double precision	Percent of total time spent decelerating
absolute_tim e_cumulative _acceleration _duration	double precision	Sum of total time spent accelerating
absolute_tim e_cumulative _deceleratio n_duration	double precision	Sum of time spent decelerating
absolute_tim e_cumulative _acceleration _cycle_durati on_percent	double precision	Percent of total time spent accelerating

absolute_time_cumulative_deceleration_cycle_duration_percent	double precision	Percent of total time spent decelerating
average_acceleration_event_duration	double precision	Average duration of observed acceleration events
average_deceleration_event_duration	double precision	Average duration of observed deceleration events
min_acceleration_event_duration	double precision	Minimum duration observed for an acceleration event
min_deceleration_event_duration	double precision	Minimum observed duration for deceleration event
max_acceleration_event_duration	double precision	Maximum duration of observed acceleration events
max_deceleration_event_duration	double precision	Maximum duration of observed deceleration events
std_acceleration_event_duration	double precision	Standard deviation of acceleration event duration distribution
std_deceleration_event_duration	double precision	Standard deviation of deceleration event duration distribution
var_acceleration_event_duration	double precision	Variance of acceleration event durations
var_deceleration_event_duration	double precision	Variance of deceleration event duration distribution
median_acceleration_event_duration	double precision	Median duration of all observed acceleration events
median_deceleration_event_duration	double precision	Median observed duration of deceleration events
acceleration_event_duration_25th_percentile	double precision	The 25th percentile value for acceleration event durations
deceleration_event_duration_25th_percentile	double precision	The 25th percentile value for deceleration event durations
acceleration_event_duration_75th_percentile	double precision	75th percentile value for acceleration event duration distribution
deceleration_event_durat	double precision	75th percentile value for deceleration event duration distribution

ion_75th_per centile		
acceleration_ event_durati on_inter_qua rtile_range	double precision	Inter quartile range for acceleration event duration distribution
deceleration _event_durat ion_inter_qu artile_range	double precision	Inter quartile range for distribution of deceleration event durations
acceleration_ event_durati on_median_a bsolute_devi ation	double precision	Median absolute deviation of acceleration event duration distribution
deceleration _event_durat ion_median_ absolute_dev iation	double precision	Median absolute deviation of deceleration event duration distribution
total_stops	double precision	Number of observed stops
stops_0_30	double precision	Number of stops with dwell times between zero and thirty seconds
stops_30_60	double precision	Number of stops with dwell times between thirty and sixty seconds
stops_60_plu s	double precision	Number of stops with dwell times in excess of 60 seconds
stops_300_pl us	double precision	Number of stops observed with dwell times in excess of 300 seconds
stops_1800_ plus	double precision	Number of stops with durations in excess of 30 minutes
stops_3600_ plus	double precision	Number of stops with dwell times in excess of 3600 seconds
stops_per_m ile	double precision	Number of observed stops per miles traveled
average_sto p_duration	double precision	Average duration of all stops observed
min_stop_du ration	double precision	Minimum stop dwell time observed
max_stop_d uration	double precision	Maximum dwell time observed while stopped
median_stop _duration	double precision	Median dwell time of observed stops
mean_stop_ duration	double precision	Mean observed stop dwell time
std_stop_dur ation	double precision	Standard deviation of stop dwell times
var_stop_dur ation	double precision	Variance of observed stop dwell times
stop_duratio n_25th_perc entile	double precision	25th percentile value for stop dwell time distribution
stop_duratio n_75th_perc entile	double precision	75th percentile value for stop dwell time distribution

stop_duratio n_inter_quar tile_range	double precision	Inter quartile range for stop duration distribution
stop_duratio n_median_a bsolute_devi ation	double precision	Median absolute deviation of observed stop dwell times
max_elevatio n	double precision	Maximum observed elevation
min_elevatio n	double precision	Minimum observed elevation
mean_elevati on	double precision	Mean elevation observed
median_elev ation	double precision	Median elevation observed.
std_of_eleva tion	double precision	Standard deviation of elevation
var_of_eleva tion	double precision	Variance of elevation data records
elevation_25 th_percentile	double precision	25th percentile value for elevation distribution
elevation_75 th_percentile	double precision	75th percentile value for elevation distribution
elevation_int er_quartile_r ange	double precision	Inter quartile range for elevation distribution
elevation_me dian_absolut e_deviation	double precision	Median absolute deviation of elevation distribution
delta_elevati on	double precision	Net elevation change observed. Calculated as final elevation record minus initial elevation record.
delta_elevati on_cumulativ e	double precision	Net total elevation change. Sum of all elevation change records.
absolute_del ta_elevation _cumulative	double precision	Cumulative absolute change in elevation. Sum of absolute value of differential elevation changes observed.
total_elevati on_gained	double precision	Sum of total elevation gained
total_elevati on_lost	double precision	Sum of elevation lost
average_abs olute_elevati on_rate_cha nge	double precision	Average rate of elevation change regardless of sign
max_climbin g_rate	double precision	Maximum observed climbing rate
average_clim bing_rate	double precision	Average climbing rate of vehicle
median_clim bing_rate	double precision	Median observed climbing rate
max_descen ding_rate	double precision	Maximum observed descending rate
average_des cending_rate	double precision	Average observed descending rate

median_desc ending_rate	double precision	Median descending rate observed
climbing_rat e_25th_perc entile	double precision	25th percentile value for observed climbing rate distribution
descending_r ate_25th_pe rcentile	double precision	25th percentile value for descending rate distribution
climbing_rat e_75th_perc entile	double precision	75th percentile value for climbing rate distribution
descending_r ate_75th_pe rcentile	double precision	75th percentile value for descending rate distribution
climbing_rat e_inter_quar tile_range	double precision	Inter quartile range for climbing rate distribution
descending_r ate_inter_qu artile_range	double precision	Inter quartile range for descending vehicle rate
climbing_rat e_median_ab solute_devia tion	double precision	Median absolute deviation of vehicle climbing rate
descending_r ate_median_ absolute_dev iation	double precision	Median absolute deviation of descending rate distribution
max_road_gr ade	double precision	Maximum observed road grade
min_road_gr ade	double precision	Minimum road grade observed
mean_road_ grade	double precision	Mean observed road grade
median_road _grade	double precision	Median observed road grade
std_of_road_ grade	double precision	Standard deviation of observed road grade
var_of_road_ grade	double precision	Variance of road grade observed
road_grade_ 25th_percent ile	double precision	25th percentile value for road grade distribution
road_grade_ 75th_percent ile	double precision	75th percentile value for observed road grade distribution
road_grade_i nter_quartile _range	double precision	Inter quartile range for observed road grade distribution
road_grade_ median_abso lute_deviatio n	double precision	Median absolute deviation for road grade distribution
maximum_ki netic_power	double precision	Maximum demanded kinetic power density

_density_de mand		
total_kinetic _power_dens ity_demand	double precision	Sum of demanded kinetic power density
average_kine tic_power_d ensity_dema nd	double precision	Average demanded kinetic power density
variance_kin etic_power_ density_dem and	double precision	Variance of kinetic power density demanded
standard_dei vation_kineti c_power_den sity_demand	double precision	Standard deviation of demanded kinetic power density
maximum_ki netic_power _density_reg en	double precision	The maximum single sample regenerative kinetic power density
total_kinetic _power_dens ity_regen	double precision	The sum of regenerative kinetic power density observed
average_kine tic_power_d ensity_regen	double precision	Average regenerative kinetic power density
variance_kin etic_power_ density_rege n	double precision	Variance of regenerative kinetic power density
standard_dei vation_kineti c_power_den sity_regen	double precision	Standard deviation of regenerative kinetic power density
maximum_p otential_pow er_density_d emand	double precision	Maximum demanded potential power density
total_potenti al_power_de nsity_deman d	double precision	The sum of demanded potential power density
average_pot ential_power _density_de mand	double precision	Average demanded potential power density
variance_pot ential_power _density_de mand	double precision	Variance of demanded potential power density
standard_dei vation_poten tial_power_d ensity_dema	double precision	Standard Deviation of the demanded potential power density

nd		
maximum_potential_power_density_regen	double precision	Maximum regenerative potential power density
total_potential_power_density_regen	double precision	Sum of regenerative potential power density
average_potential_power_density_regen	double precision	Average regenerative potential power density
variance_potential_power_density_regen	double precision	Variance of observed regenerative potential power density
standard_deivation_potential_power_density_regen	double precision	Standard deviation of regenerative potential power density
maximum_aerodynamic_power_density_demand	double precision	Maximum demanded aerodynamic power density
total_aerodynamic_power_density_demand	double precision	The sum of demanded aerodynamic power density
average_aerodynamic_power_density_demand	double precision	Average demanded aerodynamic power density
variance_aerodynamic_power_density_demand	double precision	Variance of demanded aerodynamic power density
standard_deivation_aerodynamic_power_density_demand	double precision	Standard deviation of demanded aerodynamic power density
maximum_aerodynamic_power_density_regen	double precision	Maximum regenerative aerodynamic power density
total_aerodynamic_power_density_regen	double precision	Sum of regenerative aerodynamic power density
average_aerodynamic_power_density_regen	double precision	Average regenerative power density from aerodynamics
variance_aerodynamic_po	double precision	Variance of regenerative aerodynamic power density

wer_density _regen		
standard_dei vation_aerod ynamic_pow er_density_r egen	double precision	Standard deviation of regenerative aerodynamic power density
maximum_ro lling_power_ density_dem and	double precision	Maximum demanded rolling power density
total_rolling _power_dens ity_demand	double precision	The sum of demanded rolling power density
average_rolli ng_power_d ensity_dema nd	double precision	Average demanded rolling power density
variance_roll ing_power_d ensity_dema nd	double precision	Variance of demanded rolling power density
standard_dei vation_rollin g_power_de nsity_deman d	double precision	Standard deviation of power density demand from rolling resistance
maximum_ro lling_power_ density_rege n	double precision	Maximum regenerative rolling power density
total_rolling _power_dens ity_regen	double precision	Sum of regenerative rolling power density
average_rolli ng_power_d ensity_regen	double precision	Average regenerative rolling power density
variance_roll ing_power_d ensity_regen	double precision	Variance of regenerative rolling power density
standard_dei vation_rollin g_power_de nsity_regen	double precision	Standard deviation of regenerative rolling power density
maximum_in stantanteous _potential_e nergy_densit y	double precision	Maximum potential energy density
average_inst antanteous_ potential_en ergy_density	double precision	Average potential energy density
cumulative_i nstanteous_	double precision	Sum of potential energy density

potential_energy_density		
maximum_instantaneous_kinetic_energy_density	double precision	Maximum single sample kinetic energy density
average_instantaneous_kinetic_energy_density	double precision	Average kinetic energy density
cumulative_instanteous_kinetic_energy_density	double precision	Sum of kinetic energy density
maximum_instantaneous_aerodynamic_energy_density	double precision	The maximum single sample aerodynamic energy density
average_instantaneous_aerodynamic_energy_density	double precision	Average single sample aerodynamic energy density
cumulative_instanteous_aerodynamic_energy_density	double precision	Sum of aerodynamic energy density
maximum_instantaneous_rolling_energy_density	double precision	Maximum rolling energy density
average_instantaneous_rolling_energy_density	double precision	Average rolling energy density
cumulative_instanteous_rolling_energy_density	double precision	Sum of rolling energy density
characteristic_acceleration	double precision	Characteristic Acceleration
characteristic_deceleration	double precision	Characteristic Deceleration – Energy while decelerating
aerodynamic_speed	double precision	Aerodynamic Speed
kinetic_intensity	double precision	Kinetic Intensity
ca_standard	double precision	Characteristic Acceleration reported in standard units
cd_standard	double precision	Characteristic Deceleration reported in standard units
as_standard	double precision	Aerodynamic Speed reported in standard units
ki_standard	double precision	Kinetic Intensity reported in standard units

| geom | geometry | LINESTRING Geometry representing the path of travel over the sequence duration |