California Light-Duty Vehicle Survey - California Energy Commission: Lookup Table

Transportation Secure Data Center

Revised: 2016-12-05

Survey Tables

survey_res_griddisplay

Outlines the grid construction for residential vehicle choice testing.

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
position	double precision	Residential vehicle position on grid (1-4)
grid_num	double precision	Residential vehicles grid number (1-8)
veh_num	double precision	Vehicle number

survey_res_pastvehs

Details about participants past vehicles.

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
veh_num	double precision	Vehicle number
how_was	double precision	N/A
make	double precision	Vehicle make: 1-Toyota, 2-Honda, 3-Ford, 4-Nissan, 5-Chevrolet, 6-Lexus, 7-BMW, 8-Hyundai, 9-Volkswagen, 10-Dodge, 11-Kia, 12-Other, 77-Invalid, 88-No answer
make_o	text	Vehicle make - other
model*	text	Vehicle model
type*	double precision	N/A
why	double precision	N/A
year	double precision	Vehicle year

survey_res_households

Additional details (derived from 2012 CHTS) about the households of participants in the residential portion of the study.

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
area	double precision	N/A
assn	double precision	Assigned travel date
buyer1	double precision	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	double precision	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	double precision	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	double precision	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	double precision	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	double precision	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	double precision	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	double precision	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
cec	double precision	CEC sample flag (1-CEC-DMV, 2-CEC:UC Davis
cmpld	double precision	Completed long distance log? 1-Yes, 2-No, 3-Did not receive log, 8-DK, 9-RF
ctfip	double precision	County FIPS
dow	double precision	Assigned travel day (1-Monday, 2-Tuesday, 3-Wednesday, 4-Thursday, 5-Friday, 6-Saturday, 7-Sunday
exphhwgt	double precision	Expanded final household weight
futur	double precision	Willingness to participate in future study? 1-Yes, 2-No
gflag	double precision	GPS flag
gps_complete	double precision	GPS complete? 1-Yes, 2-Valid partial complete
gtype	double precision	GPS type: 1-Wearable, 2-In-vehicle, 3-In-vehicle OBD
hcity	text	City of home location
hctract	double precision	Census tract identifier of home location
hh_complete	double precision	Household complete? 1-Yes, all HH members reported travel, 2-Valid partial complete
hhbic	double precision	Number of household bicycles: RANGE 0-15, 98-DK, 99-RF
hhemp	double precision	Number of household workers: RANGE 0-15, 98-DK, 99-RF
hhlic	double precision	Number of household drivers license holders: RANGE 0-15, 98-DK, 99-RF
hhnov1	double precision	Reason for no possession of vehicle 1: 1- Do not need a carcan 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;

hhnov2	double precision	Reason for no possession of vehicle 2: 1- Do not need a carcan 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;
hhnov3	double precision	Reason for no possession of vehicle 3: 1- Do not need a carcan 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;
hhnov4	double precision	Reason for no possession of vehicle 4: 1- Do not need a carcan 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;
hhnov5	double precision	Reason for no possession of vehicle 5: 1- Do not need a carcan 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;
hhnov6	double precision	Reason for no possession of vehicle 6: 1- Do not need a carcan 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;
hhnov7	double precision	Reason for no possession of vehicle 7: 1- Do not need a carcan 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;
hhnov8	double precision	Reason for no possession of vehicle 8: 1- Do not need a carcan 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;
hhsiz	double precision	Household size: RANGE 0-15, 98-DK, 99-RF
hhstu	double precision	Number of household students: RANGE 0-15, 98-DK, 99-RF
hhveh	double precision	Number of household vehicles: RANGE 0-15, 98-DK, 99-RF
hhwgt	double precision	Final household weight
hpflag	double precision	Hispanic household flag: 1-Yes, 2-No
hprimarycity	text	Primary city name of home location
hstat	text	State census identifier of home location
hstfip	double precision	N/A
htrips	double precision	Number of household trips on travel day

hzip	double precision	Zip code of home location
ilang	double precision	Interview language: 1-English, 2-Spanish
incen	double precision	Incentive flag: 1-Yes, 2-No
incom	double precision	Household income: 1- $0-$9,999, 2- $10,000-$24,999, 3-$25,000-$34,999, 4- $35,000-$49,999, 5- $50,000-$74,999, 6-$75,000-$99,999, 7- $100,000-$149,999, 8- $150,000-$199,999, 9-$200,000-$249,999, 10- $250,000 or more, 98- DK, 99- RF
ldflag	double precision	Flag for household who reported long distance trip: 1-Yes
ldper1	double precision	Household member who completed long-distance log: RANGE 18, 98-DK, 99-RF
ldper2	double precision	Household member who completed long-distance log: RANGE 18, 98-DK, 99-RF
ldper3	double precision	Household member who completed long-distance log: RANGE 18, 98-DK, 99-RF
ldper4	double precision	Household member who completed long-distance log: RANGE 18, 98-DK, 99-RF
ldper5	double precision	Household member who completed long-distance log: RANGE 18, 98-DK, 99-RF
ldper6	double precision	Household member who completed long-distance log: RANGE 18, 98-DK, 99-RF
ldper7	double precision	Household member who completed long-distance log: RANGE 18, 98-DK, 99-RF
ldper8	double precision	Household member who completed long-distance log: RANGE 18, 98-DK, 99-RF
ldtrp	double precision	Long distance trips in the past 8 weeks: 1-Yes, 2-No, 8-DK, 9-RF
mtc_finalflag	double precision	Flag for MTC region household
nonrelat	double precision	Non-relative household flag: 1-Yes
o_own	text	Home ownership for those who selected Other
o_resty	text	Residence type for those who selected Other
own	double precision	Home ownership: 1- Own/buying (paying off mortgage), 2- Rent, 7- Other (specify), 8- DK, 9- RF)
phlns	double precision	Number of land line phones: RANGE 0-15, 98-DK, 99-RF
prevcity	text	Previous city
prevstat	text	Previous state
prevzip	double precision	Previous Zip code
recdate	text	Recruitment date
recmode	double precision	Recruitment mode: 1-CATI, 2-CAWI
resty	double precision	Residence Type: 1-Single-family house not attached to any other house, 2-Single-family house attached to one or more houses (town house, duplex, triplex), each with separate entry, 3-Mobile home, 4-Building with 24 apartments/condos/studios/rooms, 5-Building with 519 apartments/condos/studios/rooms, 6-Building with 20 or more apartments/condos/studios/rooms [Note to interviewers: includes dorms, etc.], 7-Boat, RV, van, etc., 97-Other (specify), 98-DK, 99-RF)
retmode	double precision	Retrieval mode: 1-CATI, 2-CAWI, 3-Mail back [data entry]
ribus	double precision	N/A
strata	double precision	The identifier of the strata in which the household was included matches county closely, with a few exceptions
stype	double precision	Sample type: 1-Matched, 2-Unmatched

ten	double precision	Tenure at current home location: RANGE 1-97, 98-DK, 99-RF
vedte	double precision	N/A
vehnew	double precision	Do you or does anyone in your household plan on buying or leasing a new or used vehicle within the next five years? 1-Yes, 2-No, 8-DK, 9-RF
vehop	double precision	Number of operational household vehicles: RANGE 0-15, 98-DK, 99-RF
vehpr	double precision	Number of vehicles with power outlet: RANGE 0-15, 98-DK, 99-RF

survey_com_griddisplay

Outlines the grid construction for commercial vehicle choice testing.

Name	Data Type	Comment
masterid	text	Studys unique household identifier
grid_num	double precision	Commercial vehicles grid number (1-8)
position	double precision	Vehicles position on grid (1-4)
veh_num	double precision	Vehicle number

survey_com_main

Provides details about the respondent and their companys current and future commercial fleet strategies. Table also provides survey feedback and exit questions.

Name	Data Type	Comment
masterid	text	Studys unique household identifier
com_rp_done_on_web	double precision	Flag if RP was done on the Web
sp_done_on_paper	double precision	Flag is SP was done on paper
dispo	double precision	CATI completion indicator: 61-Complete, 62-Complete (ineligible for SP)
web_dispo	double precision	Web completion indicator: 1-Completed interview (RP & SP), 2-Early complete (SP ineligible), 5-Incomplete interview (RP only)
ctyfips	double precision	County (fips)
region	double precision	Commercial region
fleet_cat	double precision	Fleet size category (of vehicles)
batch	text	Fielding batch
source	text	Sample source
ver1	double precision	Knowledgeable about all of the vehicles used/purchased? 1-Yes
int1	double precision	Organization type: 1-For profit company, 2-Non profit company, 3-Government agency, 98-DK, 99-RF
int2	double precision	Rental car company? 1-Yes, 2-No, 88-No answer, 98-DK, 99-RF
indo	text	Type of business activity/industry (specify)

ind	double precision	Type of business activity/industry: 1-Agriculture/forestry, 2-Mining/oil/gas extract, 3-Utilities, 4-Construction, 5-Manufacturing, 6-Wholesale trade, 7-Retail trade, 8-Transport/warehousing, 9-Information services, 10-Finance & insurance, 11-Real estate/rent/lease, 12-Professional/technical, 13-Management services, 14-Admin/waste management, 15-Educational services, 16-Health care/social assistance, 17-Arts/entertainment/recreation, 18-Accommodation/food services, 19-Other (except public administration), 96-Other, 98-DK, 99-RF
recind	double precision	Industry category (missing if other)
iver	double precision	Someone available to ask? 1-Yes, 2-No, 3-DK, 4-RF
int3	double precision	Knowledgeable about all of the vehicles used/purchased? 1-Yes, 2-No, 88-No answer, 98-DK, 99-RF
int3a	double precision	Speak to someone else about company vehicle purchase decisions? 1-Yes, person comes to the phone, 2-No, person not available, 98-DK, 99-RF
int3b	double precision	N/A
fleet	double precision	Provide total number of owned/leased vehicles in fleet? 1-Gave response, 98-DK, 99-RF
fnum	double precision	Total number of owned/leased vehicles in fleet
fldv	double precision	Provide number of light-duty commercial vehicles registered for bus use and used 50% or more in CA? 1-Gave response, 98-DK, 99-RF
fldvnum	double precision	Number of light-duty commercial vehicles registered for bus use and used 50% or more in CA
ftypo	double precision	Size/type of sole vehicle: 1-Small car, 2-Mid-size car, 3-Full-size car, 4-Sports car, 5-Small SUV, 6-Mid-size SUV, 7-Large SUV, 8-Small pick-up truck, 9-Standard pick-up truck, 10-Minivan, 11-Van, 88-No answer, 98-DK, 99-RF
fcr	double precision	Provide number of cars? 1-Gave response, 98-DK, 99-RF
fcrnum	double precision	Number of cars
ftrk	double precision	Provide number of trucks? 1-Gave response, 98-DK, 99-RF
ftrknum	double precision	Number of trucks
fver	double precision	Counts of cars/trucks correct? 1-Yes, 2-No, 98-DK, 99-RF
fver2_a	double precision	Corrected number of cars: 1-Record number of cars, 2-Record number of trucks
fver2_b	double precision	Corrected number of trucks: 1-Record number of cars, 2-Record number of trucks
ftypco	double precision	Size/type of sole car: 1-Small car, 2-Mid-size car, 3-Full-size car, 4-Sports car, 5-Small SUV, 6-Mid-size SUV, 7-Large SUV, 10-Minivan, 88-No answer, 98-DK, 99-RF
ftyptko	double precision	Size/type of sole truck: 8-Small pick-up truck, 9-Standard pick-up truck, 11-Van, 88-No answer, 98-DK, 99-RF
fgas	double precision	Provide number of vehicles using only gas? 1-Gave response, 98-DK, 99-RF
fgasnum	double precision	Number of vehicles using only gas
falt	double precision	Provide number of vehicles using alternative fuels? 1-Gave response, 98-DK, 99-RF
faltnum	double precision	Number of vehicles using alternative fuels
ffulvr	double precision	Number of gas and alternative fuel vehicles correct? 1-Yes, 2-No, 98-DK, 99-RF

ffulvr2a	double precision	Corrected number of gas fuel vehicles: 1-Record number of gas fuel vehicles, 2-Record number of alternative fuel vehicles, 98-DK, 99-RF
ffulvr2b	double precision	Corrected number of alternative fuel vehicles: 1-Record number of gas fuel vehicles, 2-Record number of alternative fuel vehicles, 98-DK, 99-RF
fftypo	double precision	Type of sole alternative fuel vehicle: 2-Gasoline hybrid electric vehicle, 3-Gasoline plug-in hybrid electric vehicle, 4-Gasoline-Ethanol flex fuel vehicle, 5-Diesel only vehicle, 6-Compressed natural gas only vehicle, 7-Compressed natural gas gasoline bi-fuel vehicle, 8-Battery electric vehicle, 9-Hydrogen fuel cell vehicle, 88-No answer, 98-DK, 99-RF
bpa	double precision	Number of times rented a vehicle for business purposes in the past year? 1-Never, 2-1 to 2 times, 3-3 to six times, 4-7 to 11 times, 5-1 to 3 times per month, 6-1 to 2 times per week, 7-3 to 4 times per week, 8-Every day or nearly every day, 88-No answer, 98-DK, 99-RF
bpb	double precision	Number of times used a courier service for business purposes in the past year? 1-Never, 2-1 to 2 times, 3-3 to six times, 4-7 to 11 times, 5-1 to 3 times per month, 6-1 to 2 times per week, 7-3 to 4 times per week, 8-Every day or nearly every day, 88-No answer, 98-DK, 99-RF
bpc	double precision	Number of times used a contract delivery service for business purposes in the past year? 1-Never, 2-1 to 2 times, 3-3 to six times, 4-7 to 11 times, 5-1 to 3 times per month, 6-1 to 2 times per week, 7-3 to 4 times per week, 8-Every day or nearly every day, 88-No answer, 98-DK, 99-RF
ppur1	double precision	About how many vehicles has your company purchased in the last 10 years? 1-Gave response, 98-DK, 99-RF
prppur1	double precision	Number of vehicles purchased in the last 10 years for business purposes
ppur2	double precision	Number of vehicles purchased in the last 10 years for business purposes: 1-Gave response, 98-DK, 99-RF
prppur2	double precision	Number of vehicles leased in the last 10 years for business purposes
usu	double precision	Number of vehicles leased in the last 10 years for business purposes: 1-Usually leases, 2-Usually purchases new, 3-Usually purchases used, 88-No answer, 98-DK, 99-RF
intnt	double precision	Likelihood of purchase/lease replacement vehicles in the next five years: 1-Very likely, 2-Somewhat likely, 3-Not at all likely, 88-No answer, 98-DK, 99-RF
intnt2	double precision	How likely is it that you will be purchasing or leasing a light-duty vehicle in the next 10 years that will be company-owned and used for business purposes in CA at least 50% of the time? 1-Very likely, 2-Somewhat likely, 3-Not at all likely, 88-No answer, 98-DK, 99-RF
cvnf	double precision	Provide anticipated number of purchased/leased replacement vehicles in the next five years: 1-Response given, 98-DK, 99-RF
cvnfnnum	double precision	Anticipated number of purchased/leased replacement vehicles in the next five years
vnw	double precision	Will next vehicle purchase/lease be new or used? 1-New, 2-Used (1-2 years old), 3-Used (3-5 years old), 4-Used (5+ years old), 98-DK, 99-RF
prpl	double precision	Will next vehicle purchase/lease be a replacement or addition? 1-Purchased-replacement, 2-Purchased-addition, 3-Leased-replacement, 4-Leased-addition, 98-DK, 99-RF

typ	double precision	Type of next vehicle purchase/lease? 1-Small car, 2-Mid-size car, 3-Full-size car, 4-Sports car, 5-Small SUV, 6-Mid-size SUV, 7-Large SUV, 8-Small pick-up truck, 9-Standard pick-up truck, 10-Minivan, 11-Van, 88-No answer, 98-DK, 99-RF
veht	double precision	Type of fuel system for next vehicle purchase/lease: 1-Gasoline only vehicle, 2-Gasoline hybrid electric vehicle, 3-Gasoline plug-in hybrid electric vehicle, 4-Gasoline-Ethanol flex fuel vehicle, 5-Diesel only vehicle, 6-Diesel hybrid electric vehicle 7-Compressed natural gas only vehicle, 8-Compressed natural gas gasoline bi-fuel vehicle, 9-Compressed natural gas electric vehicle, 10-Battery electric vehicle, 11-Hydrogen fuel cell vehicle, 88-No answer, 98-DK, 99-RF
scryes	double precision	Eligible for SP, willing to proceed? 1-Yes
scrno	double precision	Not eligible for SP, willing to answer additional questions? 1-Yes
rtim	double precision	Provide time to refuel/recharge next vehicle purchase/lease? 1-Gave response, 98-DK, 99-RF
rfrh	double precision	Hours to refuel/recharge next vehicle purchased/leased
rfrm	double precision	Minutes to refuel/recharge next vehicle purchased/leased
_mpg	double precision	Provide anticipated MPG/MPGe for next vehicle purchase/lease: 1-Gave MPG response, 2-Gave MPGe response, 98-DK, 99-RF
mpgr	double precision	Anticipated MPG for next vehicle purchase/lease
mpgr2	double precision	Anticipated MPGe for next vehicle purchase/lease
mile	double precision	Provide anticipated yearly mileage for next vehicle purchased/leased? 1-Gave response, 98-DK, 99-RF
miler	double precision	Anticipated yearly mileage for next vehicle purchased/leased
pr	double precision	Provide amount willing to pay for next vehicle purchase/lease? 1-Gave response, 98-DK, 99-RF
prr	double precision	Amount willing to pay for next vehicle purchase/lease
cur1	double precision	Currently have solar panels: 0-No, 1-Yes
cur2	double precision	Currently have 240 volt level 2 charger: 0-No, 1-Yes
cur3	double precision	Currently have DC fast charger: 0-No, 1-Yes
cur4	double precision	Currently have E85 fueling capabilities: 0-No, 1-Yes
cur5	double precision	Currently have CNG fueling capabilities: 0-No, 1-Yes
cur6	double precision	Currently have diesel fueling capabilities: 0-No, 1-Yes
cur7	double precision	Currently have gasoline fueling capabilities: 0-No, 1-Yes
cur8	double precision	Currently have NONE OF THE ABOVE: 0-No, 1-Yes
cur9	double precision	Didnt provide an answer to cur1-cur8: 0-Not selected, 1-Selected
pur1	double precision	Plan to purchase solar panels: 0-No, 1-Yes
pur2	double precision	Plan to purchase 240 volt level 2 charger: 0-No, 1-Yes
pur3	double precision	Plan to purchase DC fast charger: 0-No, 1-Yes
pur4	double precision	Plan to purchase E85 fueling capabilities: 0-No, 1-Yes
pur5	double precision	Plan to purchase CNG fueling capabilities: 0-No, 1-Yes
pur6	double precision	Plan to purchase diesel fueling capabilities: 0-No, 1-Yes
pur7	double precision	Plan to purchase gasoline fueling capabilities: 0-No, 1-Yes
pur8	double precision	Plan to purchase NONE OF THE ABOVE: 0-No, 1-Yes
pur9	double precision	Didnt provide an answer to pur1-pur8: 0-Not selected, 1-Selected
rfprc1	double precision	Provide anticipated cost for solar panels? 1-Gave response, 98-DK, 99-RF

rfprc1r	double precision	Anticipated cost for solar panels
rfprc2	double precision	Provide anticipated cost for 240 V Level 2 charger? 1-Gave response, 98-DK, 99-RF
rfprc2r	double precision	Anticipated cost for 240 V Level 2 charger
rfprc3	double precision	Provide anticipated cost for DC fast charger? 1-Gave response, 98-DK, 99-RF
rfprc3r	double precision	Anticipated cost for DC fast charger
rfprc4	double precision	Provide anticipated cost for E85 fueling capabilities? 1-Gave response, 98-DK, 9-RF
rfprc4r	double precision	Anticipated cost for E85 fueling capabilities
rfprc5	double precision	Provide anticipated cost for CNG fueling capabilities? 1-Gave response, 98-DK, 99-RF
rfprc5r	double precision	Anticipated cost for CNG fueling capabilities
rfprc6	double precision	Provide anticipated cost for diesel fueling capabilities? 1-Gave response, 98-DK, 99-RF
rfprc6r	double precision	Anticipated cost for diesel fueling capabilities
rfprc7	double precision	Provide anticipated cost for gasoline fueling capabilities? 1-Gave response, 98-DK, 99-RF
rfprc7r	double precision	Anticipated cost for gasoline fueling capabilities
empl	double precision	Provide number of employees? 1-Gave response, 98-DK, 99-RF
emplnum	double precision	Number of employees
loc	double precision	Provide number of bus locations in CA? 1-Gave response, 98-DK, 99-RF
locnum	double precision	Number of bus locations in CA
lus	double precision	Provide number of bus locations in US outside CA? 1-Gave response, 98-DK, 99-RF
lusnum	double precision	Number of bus locations in US outside CA
finc	double precision	Anticipated change in revenue over the next 5 years: 1-Increase a lot, 2-Increase, 3-Remain about the same, 4-Decrease, 5-Decrease a lot, 98-DK, 99-RF
gasc	double precision	Provide anticipated cost/gallon for gasoline in 5 years? 1-Gave response, 98-DK, 99-RF
gascr	double precision	Anticipated cost/gallon for gasoline in 5 years
name*	double precision	Respondent provided full name? 1-Yes, 2-No, 88-No answer, 99-RF
gender	double precision	Respondent gender: 1-Male, 2-Female
age*	double precision	Respondent age
ageb	double precision	Respondent age range: 1-Between 18 and 34 YO, 2-Between 35 and 64 YO, 3-Older than 64, 88-No answer, 98-DK, 99-RF
nrel_agebin	integer	NREL derived age bins for public distribution: 1= ¡16 YO, 2= 16-25 YO, 3= 26-35 YO, 4= 36-45 YO, 5= 46-55 YO, 6= 56-65 YO, 7= 66-79 YO, 8= 80+ YO, 999= DK/RF
altph	double precision	Provide alternate phone number? 1-Yes, 2-No, 99-RF
scr	double precision	Willing to participate in SP survey? 1-Yes, 2-No
web	double precision	Have internet access? 1-Yes, 2-No
end2	double precision	Mailing address still correct? 1-Yes, 2-No
preadr1a	double precision	What is the correct address? 1-All correct, 2-Update street address line 1, 3-Update street address line 2, 4-Update city, 5-Update state, 6-Update ZIP

setpos1	double precision	First grid displayed
setpos2	double precision	Second grid displayed
setpos3	double precision	Third grid displayed
setpos4	double precision	Fourth grid displayed
setpos5	double precision	5th grid displayed
setpos6	double precision	6th grid displayed
setpos7	double precision	7th grid displayed
setpos8	double precision	8th grid displayed
q_cmt1	double precision	Question about survey: Did you have to read any of the definitions for the vehicle features before selecting a vehicle? 1-Yes, 2-No, 88-No answer
q_cmt1a	double precision	Question about survey: How frequently did you review any of the definitions before making a selection?
q_cmt2	double precision	Question about survey: When you were deciding on which vehicle to select, did you consider all of the features in making your selection or did you focus on the features that were most important to you?
q_cmt2a01	double precision	Did you consider vehicle type? 0-No, 1-Yes
q_cmt2a02	double precision	Did you consider fuel type? 0-No, 1-Yes
q_cmt2a03	double precision	Did you consider vehicle models available? 0-No, 1-Yes
q_cmt2a04	double precision	Did you consider model year? 0-No, 1-Yes
q_cmt2a05	double precision	Did you consider vehicle price? 0-No, 1-Yes
q_cmt2a06	double precision	Did you consider purchase incentives? 0-No, 1-Yes
q_cmt2a07	double precision	Did you consider fuel economy? 0-No, 1-Yes
q_cmt2a08	double precision	Did you consider cost per 100 miles? 0-No, 1-Yes
q_cmt2a09	double precision	Did you consider time it takes to get to the type of refueling station required? 0-No, 1-Yes
q_cmt2a10	double precision	Did you consider refueling time? 0-No, 1-Yes
q_cmt2a11	double precision	Did you consider vehicle range? 0-No, 1-Yes
q_cmt2a12	double precision	Did you consider trunk/cargo space? 0-No, 1-Yes
q_cmt2a13	double precision	Did you consider annual maintenance cost? 0-No, 1-Yes
q_cmt2a14	double precision	Did you consider acceleration rate? 0-No, 1-Yes
q_cmt2a15	double precision	No answer for cmt2a01-15?
q_cmts	text	Survey comments
q_incnt	double precision	Send incentive? 1-Yes, 2-No
q_end_consent	double precision	Okay to contact in the future: 0-No, 1-Yes
final_wt	double precision	Final weight

survey_com_gridvehs

Details about the vehicles provided as choices for the commercial vehicle grids

Name	Data Type	Comment
masterid	text	Studys unique household identifier
grid_num	double precision	Commercial vehicles grid number (1-8)

veh_num	double precision	Vehicle number
accel_rate	double precision	Acceleration rate in seconds
cost_per_100miles	double precision	Fuel cost per 100 miles
fuel_time	double precision	Refueling time in minutes
fuel_type	text	Type of fuel
incentive	text	Type of incentive received (if any)
maintenance	double precision	Annual maintenance cost in USD($)
model*	double precision	Vehicle models available
model_year	text	Vehicle Year
mpg	double precision	Fuel economy (mpg)
price	double precision	Price in USD($)
range	double precision	Range in miles
station_time	double precision	Time to get to refueling station
station_type	text	Type of refueling station required
trunk_space	double precision	Trunk/cargo space in cubic ft
veh_type	text	Vehicle type

survey_res_gridvehs

Details about the vehicles provided as choices for the residential vehicle grids

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
grid_num	double precision	Residential vehicles grid number (1-8)
veh_num	double precision	Vehicle number
accel_rate	double precision	Acceleration rate in seconds
cost_per_100miles	double precision	Fuel cost per 100 miles
fuel_time	double precision	Refueling time in minutes
fuel_type	text	Type of fuel
incentive	text	Type of incentive received (if any)
maintenance	double precision	Annual maintenance cost in USD($)
model*	double precision	Vehicle models available
model_year	text	Vehicle Year
mpg	double precision	Fuel economy (mpg)
price	double precision	Price in USD($)
range	double precision	Range in miles
station_time	double precision	Time to get to refueling station
station_type	text	Type of refueling station required
trunk_space	double precision	Trunk/cargo space in cubic ft
veh_type	text	Vehicle type

survey_res_main

Provides details about the respondent and their households current and future commercial vehicle plans. Table also provides survey feedback and exit questions.

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
masterid	text	Studys unique household identifier
dispo	double precision	Completion indicator: 1-Completed interview (RP & SP), 2-Early Complete (SP ineligible), 5-Incomplete interview (RP only)
rp_paper	text	Flag indicating RP survey was done on paper
ctyfips	double precision	Count FIPS from sample
chts_date	double precision	CHTS date from sample
numvehicles	double precision	Number of vehicles in sample
q_lang	double precision	Which language would you like to take the survey? 1-English, 2-Spanish
q_move	double precision	Moved to new permanent residence since CHTS? 1-Yes, 2-No, 77-Invalid, 88-No answer
q_ca	double precision	New permanent residence in California? 1-Yes, 2-No
q_coun	double precision	New county of residence: 1-Alameda, 2-Alpine, 3-Amador, 4-Butte, 5-Calaveras, 6-Colusa, 7-Contra Costa, 8-Del Norte, 9-El Dorado, 10-Fresno, 11-Glenn, 12-Humboldt, 13-Imperial, 14-Inyo, 15-Kern, 16-Kings, 17-Lake, 18-Lassen, 19-Los Angeles, 20-Madera, 21-Marin, 22-Mariposa, 23-Mendocino, 24-Merced, 25-Modoc, 26-Mono, 27-Monterey, 28-Napa, 29-Nevada, 30-Orange, 31-Placer, 32-Plumas, 33-Riverside, 34-Sacramento, 35-San Benito, 36-San Bernardino, 37-San Diego, 38-San Francisco, 39-San Joaquin, 40-San Luis Obispo, 41-San Mateo, 42Santa Barbara, 43-Santa Clara, 44-Santa Cruz, 45-Shasta, 46-Sierra, 47-Siskiyou, 48-Solano, 49-Sonoma, 50-Stanislaus, 51-Sutter, 52-Tehama, 53-Trinity, 54-Tulare, 55-Tuolumne, 56-Ventura, 57-Yolo, 58-Yuba, 59-Unincorporated area in CA, 60-Other, specify, 66-Out of state, 77-Invalid, 88-No answer
q_coun_oth	text	New county - other
q_memb	double precision	Household size
q_admemb	double precision	Number of household members 16 years of age or older
q_admemb1_pt	double precision	Number of household members employed part-time
q_admemb1_ft	double precision	Number of household members employed full-time
q_admemb1_o	double precision	Number of household members in other employment categories
q_purpref	double precision	How does your household normally obtain vehicles? 1-Usually purchased new, 2-Usually purchased used, 3-Usually leased, 66-DK, 77-Invalid, 88-No answer
q_veha	double precision	Number of vehicles purchased or leased since CHTS date
q_pastpur_new	double precision	Number of new vehicles purchased or leased by household in past 10 years
q_pastpur_used	double precision	Number of used vehicles purchased or leased by household in past 10 years
q_currdrive	double precision	Respondent currently drives one of the household vehicles? 1-Yes, 2-No, 88-No answer
q_refuelsta	double precision	Respondent has a primary refueling station? 1-Yes, 2-No, 88-No answer
q_refuelpref1	double precision	First reason for choosing primary refueling station: 1-Price, 2-Convenience from home, 3-Convenience from another frequently visited location, 4-Brand, 5-Other, 77-Invalid, 88-No answer

q_refuelpref2	double precision	Second reason for choosing primary refueling station: 1-Price, 2-Convenience from home, 3-Convenience from another frequently visited location, 4-Brand, 5-Other, 77-Invalid, 88-No answer
q_refuelprefo	text	Reason for choosing primary refueling station - other
q_refueldist	text	Approx driving time to a refueling station
q_refuelimit	double precision	Longest acceptable driving time to a refueling station
q_ttrip	double precision	Number of one-way transit trips by household members in the past week
q_intent1	double precision	Likelihood of purchasing a vehicle to replace a current vehicle: 1-Very likely, 2-Somewhat likely, 3-Not at all likely, 88-No answer
q_intent2	double precision	Likelihood of purchasing an additional vehicle to replace a current vehicle: 1-Very likely, 2-Somewhat likely, 3-Not at all likely, 88-No answer
q_intent3	double precision	Likelihood of leasing a vehicle to replace a current vehicle: 1-Very likely, 2-Somewhat likely, 3-Not at all likely, 88-No answer
q_intent4	double precision	Likelihood of leasing an additional vehicle to replace a current vehicle: 1-Very likely, 2-Somewhat likely, 3-Not at all likely, 88-No answer
q_vfutn	double precision	Number of household vehicles that you anticipate purchasing/leasing in the next 5 years? RANGE 1-5, 6-More than 5, 66-DK, 77-Invalid, 88-No answer
q_nwud	double precision	Will next vehicle most likely be new or used? 1-New, 2-Used (1-2 yo), 3-Used (3-5 yo), 4-Used (¿5 yo), 66-DK, 77-Invalid, 88-No answer
q_resp	double precision	Involvement of respondent in selection of next household vehicle to purchase/lease: 1-I will be the sole decision maker, 2-I will be the primary decision maker with input from another household member(s), 3-I will share equally in making the decision with another household member(s), 4-I will provide input into the decision but I will not be the primary decision maker, 5-Another person will be the sole decision maker, 88-No answer
q_fut	double precision	When do you anticipate purchasing/leasing your next vehicle? 1-Within 3 months, 2-Within the year, 3-Within 2 years, 4-Within 5 years, 66-DK, 77-Invalid, 88-No answer
q_type	double precision	Type of next vehicle: 1-Small car, 2-Mid size car, 3-Full size car, 4-Sports car, 5-Small SUV, 6-Mid size SUV, 7-Large SUV, 8-Small pick up truck, 9-Standard pick up truck, 10-Minivan, 11-Van, 66-DK, 77-Invalid, 88-No answer
q_pric	double precision	Max amount willing to pay for next vehicle
q_fueltype	double precision	Anticipated fuel type of next vehicle: 1-Gasoline-only, 2-Gasoline hybrid electric (HEV), 3-Gasoline plug-in hybrid electric (PHEV), 4-Gasoline/Ethanol flex fuel, 5-Diesel only, 6-Diesel hybrid electric, 7-Compressed natural gas (CNG) only, 8-CNG gasoline bi-fuel, 9-CNG hybrid electric, 10-Battery electric, 11-Hydrogen fuel cell, 66-DK, 77-Invalid, 88-No answer
q_hrmfuel	double precision	Anticipate purchasing equipment &/or upgrading house to refuel next vehicle? 1-Yes, 2-No, 88-No answer
q_refueprc	double precision	Anticipated cost for home refueling equipment
q_refueprc_codes	double precision	Cost for home refueling equipment codes: 2-Nothing, 77-Invalid, 88-No answer
q_refueltime_hrs	double precision	Estimated refueling time - hours
q_refueltime_mns	double precision	Estimated refueling time - minutes
q_mpg	double precision	Anticipated MPG of next vehicle
q_mp_g	double precision	ENTER MPG

q_mp_ge	double precision	ENTER MPGe
q_mpy	double precision	Anticipated miles per year for next vehicle
q_fincond	double precision	Anticipated change in household income in next 5 years: 1-Increase a lot, 2-Increase, 3-Remain about the same, 4-Decrease, 5-Decrease a lot, 66- DK, 77-Invalid, 88-No answer
q_gascost	double precision	Anticipated cost/gallon for gasoline in 5 years
q_solar	double precision	Solar panels installed at permanent home residence? 1-Yes, 2-No, 88-No answer
q_futsolar	double precision	Planning on purchasing solar panels for permanent home residence within next 5 years? 1-Yes, 2-No, 88-No answer
q_new_1_b_g	double precision	(Q_VAYEAR1) (S_VAMAKE1) (Q_VAMODEL1) : ENTER MPG
q_new_2_b_g	double precision	(Q_VAYEAR2) (S_VAMAKE2) (Q_VAMODEL2) : ENTER MPG
q_new_3_b_g	double precision	(Q_VAYEAR3) (S_VAMAKE3) (Q_VAMODEL3) : ENTER MPG
q_new_1_b_ge	double precision	(Q_VAYEAR1) (S_VAMAKE1) (Q_VAMODEL1) : ENTER MPGe
q_new_2_b_ge	double precision	(Q_VAYEAR2) (S_VAMAKE2) (Q_VAMODEL2) : ENTER MPGe
q_new_3_b_ge	double precision	(Q_VAYEAR3) (S_VAMAKE3) (Q_VAMODEL3) : ENTER MPGe
q_inc	double precision	Household income: 1-$0-$9,999, 2-$10,000-$24,999, 3-$25,000-$34,999, 4-$35,000-$49,000, 5-$50,000-$74,999, 6-$75,000-$99,999, 7-$100,000-$149,999, 8-$15,000-$199,999, 9-$200,000-$249,999, 10-$250,000+, 88-No answer
setpos1	double precision	1st grid displayed
setpos2	double precision	2nd grid displayed
setpos3	double precision	3rd grid displayed
setpos4	double precision	4th grid displayed
setpos5	double precision	5th grid displayed
setpos6	double precision	6th grid displayed
setpos7	double precision	7th grid displayed
setpos8	double precision	8th grid displayed
q_cmts	text	Comments
q_incnt	text	Send incentive? 1-Yes please, 2-No thank you
q_end_consent	text	Okay to contact in the future? 0-No, 1-Yes
q_cmt1	text	Question about survey: did you have to read any of the definitions for the vehicle features before selecting a vehicle?
q_cmt1a	text	Question about survey: How frequently did you review any of the definitions before making a selection? RANGE 1-3, 4-4+ times, 88-No answer
q_cmt2	text	Question about survey: When you were deciding on which vehicle to select, did you consider all of the features in making your selection or did you focus on the features that were most important to you? 1-Considered all features, 2-Focused on the most important features, 88-No answer
q_cmt2a01	text	Vehicle type: 0-Not selected, 1-Selected
q_cmt2a02	text	Fuel type: 0-Not selected, 1-Selected
q_cmt2a03	text	Vehicle models available: 0-Not selected, 1-Selected
q_cmt2a04	text	Model year: 0-Not selected, 1-Selected
q_cmt2a05	text	Vehicle price: 0-Not selected, 1-Selected
q_cmt2a06	text	Purchase incentive: 0-Not selected, 1-Selected
q_cmt2a07	text	MPG/Fuel economy: 0-Not selected, 1-Selected

q_cmt2a08	text	Cost per 100 miles: 0-Not selected, 1-Selected
q_cmt2a09	text	Time it takes to get to the type of refueling station needed: 0-Not selected, 1-Selected
q_cmt2a10	text	Refueling time: 0-Not selected, 1-Selected
q_cmt2a11	text	Vehicle range: 0-Not selected, 1-Selected
q_cmt2a12	text	Trunk/cargo space: 0-Not selected, 1-Selected
q_cmt2a13	text	Annual maintenance cost: 0-Not selected, 1-Selected
q_cmt2a14	text	Acceleration rate: 0-Not selected, 1-Selected
q_cmt2a15	text	No answer: 0-Not selected, 1-Selected
vehcount	double precision	Number of LDVs still owned by household
raked_wt	double precision	Raked weight

survey_res_gridchoices

Participant responses when asked to select their preference from a grid of residential vehicles.

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
grid_num	double precision	Residential vehicles grid number (1-8)
choice	double precision	Participants selection

survey_res_samplevehs

Details about the vehicles participant used in CHTS.

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
veh_num	double precision	Vehicle number
make	text	Vehicle make
model*	text	Vehicle model
year	double precision	Vehicle year

survey_com_currentvehs

Participants were asked for details regarding their current commercial vehicles.

Name	Data Type	Comment
masterid	text	Studys unique household identifier
veh_num	double precision	Vehicle number
current_mileage	double precision	Current mileage on vehicle: 9999998 - DK, 9999999 - RF

fuel_type	double precision	What type of fuel does this vehicle use? 1-Gasoline, 2-Diesel, 3-Electric/Electric Battery, 4-CNG/Natural Gas, 5-Biofuel/Ethanol/Biodiesel, 7-Other, specify, 8-DK, 9-RF
have_replaced	double precision	Vehicles been replaced? 1-Yes, 2-No, 88-No answer, 98-DK, 99-RF
is_ldv	double precision	Is vehicle a light-duty vehicle?
lease_or_purch	double precision	Was the vehicle leased or purchased new/used? 1-Leased, 2-Purchased new, 3-Purchased used, 98-DK, 99-RF
mpg	double precision	Vehicle miles per gallon (fuel economy)
mpge	double precision	Vehicle miles per gallon equivalent
op_in_ca	double precision	Operated in CA 50+% of the time? 1-Yes, 2-No, 88-No answer, 98-DK, 99-RF
primary_use	double precision	Primary use for vehicle: 1-Delivery/pick-up, 2-Employee/customer transportation, 3-Making sales calls, 4-Making service calls, 5-Transporting material/equipment, 6-Other, 88-No answer, 98-DK, 99-RF
primary_use_text	text	Text response if participant selected Other for primary_use.
provide_mpg	double precision	Provide MPG for vehicle.
purchase_mileage	double precision	Mileage on vehicle when first purchased/leased (9999998-DK, 9999999-RF).
purchase_month	double precision	Month vehicle was purchased (1-January to 12-December)
purchase_month_year	double precision	Month & year vehicle was purchased.
purchase_year	double precision	Year vehicle was purchased.
replaced_with	double precision	What vehicle replaced with (98-DK, 99-RF).
second_use	double precision	N/A
still_have	double precision	Do you still have this vehicle? 1-Yes, 2-No, 88-No answer, 98-DK, 99-RF
towing	double precision	Towing capacity: 1-Gave answer in lbs, 2-Gave answer in tons, 98-DK, 99-RF
used_for_work	double precision	Is this vehicle used for work? 1-Yes, 2-No, 88-No answer, 98-DK, 99-RF
veh_make	text	Vehicle make
veh_model*	text	Vehicle model
veh_series*	text	Vehicle series
veh_year	text	Vehicle year
vmt	double precision	Current vehicle miles travelled (mileage)
when_replace	double precision	When do you expect to replace this vehicle? 1= I have no plans to, 2= Less than 1 year, 3= 1-to-2 years, 4= 3-to-5 years, 5= 6-to-10 years, 6= 10+ years, 98=DK, 99=RF

survey_com_gridchoices

Participant responses when asked to select their preference from a grid of commercial vehicles.

Name	Data Type	Comment
masterid	text	Studys unique household identifier
grid_num	double precision	Commercial vehicles grid number (1-8)
choice	double precision	Participants selection

survey_res_recentvehs

Details about participants recent vehicles.

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
veh_num	double precision	Vehicle number
mileage	double precision	Vehicle mileage
mpg	double precision	Fuel economy (mpg)
plans	double precision	Plans over next 12 months: 1-Keep vehicle, 2-Dispose & replace, 3-Dispose & NOT replace, 88-No answer
replace_months	double precision	Estimated months to replacement
still_own	double precision	Still own? 1-Yes,

survey_res_currentvehs

Participants were asked for details regarding their current residential vehicles.

Name	Data Type	Comment
sampno	double precision	Household identifier (linked to 2012 CHTS)
veh_num	double precision	Vehicle number
mileage	double precision	Current mileage on vehicle: 9999998 - DK, 9999999 - RF
mpg	double precision	Vehicle miles per gallon (fuel economy)
replace_months	double precision	Estimated months until vehicle is replaced
still_own	double precision	Still own vehicle? 1-Yes, 2-No, 88-No answer
vehicle_plan	double precision	Plan over next 12 months for vehicle: 1-Keep, 2-Dispose and replace, 3-Dispose and dont replace, 88-No answer
q_curr_b_g	double precision	Estimated vehicle miles per gallon (est. fuel economy)
q_curr_b_ge	double precision	Estimated MPGe

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

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

How to Cite the TSDC:

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

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