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|  | **Variable** | **Definition** | **Values and Counts** |
| **1** | **BuyEV** | purchase choice | 1 = buy EV: 3244  0 = buy gas car: 2654 |
| **2** | **PriceBudgetRatio** | price of EV divided by respondent's highest budget | 0.70: 1900  0.85: 2023  1: 1975 |
| **3** | **range** | driving range of EV in scenario | 100: 1455  200: 1451  300: 1536  400: 1456 |
| **4** | **HomeSlowChgWalkTime** | walking time (minutes) from home to nearest slow charging | 0: 852  1: 897  2: 782  3: 771  5: 870  10: 859  20: 867 |
| **5** | **WorkSlowChagWalkTime** | walking time (minutes) from work to nearest slow charging | 0: 828  1: 827  2: 862  3: 835  5: 872  10: 810  20: 864 |
| **6** | **FastChgTime** | fast charging time (minutes) from empty to full charge | 5: 1469  15: 1454  30: 1509  60: 1466 |
| **7** | **TownToFastChgDriveTime** | driving time from any place in town to a fast-charging station (minutes) | 5: 1488  10: 1450  15: 1457  no (not available): 1503 |
| **8** | **HwyFastChgDistance** | average distance (miles) between two fast charging stations on highway | 30: 1456  50: 1497  70: 1472  no: 1473 |
| **9** | **gender** | What is your gender? | 1=male: 2970;  0=female: 2928 |
| **10** | **race** | Which race best describes you? | White: 4956  Black or African American: 384  Asian: 396  American Indian or Alaska: 18  Native Hawaiian or other: 24  Another race: 114  Prefer not to answer: 6 |
| **11** | **state** | In what state or U.S. territory do you live? | 49 states except North Dakota. |
| **12** | **license** | Do you have a valid driver’s license? | yes: 5856  no: 42 |
| **13** | **edu** | What is the highest level of education you have completed? | 1= Less than high school: 18  2= Graduated from high school: 630  3= Some College/Technical school training: 1266  4=2-Year College Degree (Associates): 792  5=4-Year College Degree (BA, BS): 2376  6= Master's Degree: 672  7= Professional Degree (MD, JD): 96  8= Doctoral Degree: 48 |
| **14** | **employment** | Which of the following categories best describes your employment status? | 1= Employed, full-time: 4236  2= Employed, part-time: 762  3= Student: 126  4= Not employed: 372  5= Retired: 252  6= Other: 150 |
| **15** | **hsincome** | What was your household income last year? | 1= Under $25,000: 744  2= $25,000-$49,999: 1836  3= $50,000-$74,999: 1512  4= $75,000-$99,999: 816  5= $100,000-$124,999: 456  6= $125,000-$149,999: 264  7= $150,000-$174,999: 114  8= $175,000-$199,999: 54  9= $200,000 and up: 660 |
| **16** | **hhsize** | How many people currently live in your household? | 1: 1344  2: 1686  3: 1086  4: 1122  5 (5 or more): 660 |
| **17** | **housit** | What is your housing situation? | 1= Owned/Purchasing: 3462  2= Renting: 2274  3= Provided by employer (private or military): 42  4= Other: 120 |
| **18** | **residence** | In what type of residence do you live? | 1= Single-family house (detached house): 4008  2= Townhouse (attached house): 462  3= Multi-family house (3 or fewer apartments); 120  4= Building with 3 or fewer apartments/condos: 120  5= Building with 4 or more apartments/condos: 990  6= Mobile home/trailer: 162  7= Dorm or institutional housing: 0  8= Other: 36 |
| **19** | **move** | Do you plan to move out from your current house within the next 3 years? | 1= Yes: 2118  2= No: 2406  3= Not sure: 1374 |
| **20** | **all\_car** | How many cars do you own? | 1: 3162  2: 2142  3: 486  4: 108 |
| **21** | **new\_car** | If any, how many of your cars were new when they were purchased? | 0: 2694  1: 2340  2: 792  3: 72 |
| **22** | **ev** | How many electric cars do you own? | 0: 5466  1: 414  2: 12  4: 6 |
| **23** | **new\_ev** | If any, how many of your electric cars were new when they were purchased? | 0: 5526  1: 372 |
| **24** | **home\_parking** | What is your parking situation at home? | Attached garage: 2520 |
| **25** | **hp2** |  | Detached garage: 588 |
| **26** | **hp3** |  | Driveway or carport: 2820 |
| **27** | **hp4** |  | Assigned parking space: 804 |
| **28** | **hp5** |  | On street: 654 |
| **29** | **hp6** |  | Other (with specified answer): 114 |
| **30** | **HomeChgAvai** | Do you have an electrical outlet or electric vehicle (EV) charging facility at your usual home parking space? | 1= Yes: 1152  2 (recoded as -1) = No: 4566  3 (recoded as 0) = I don't know: 180 |
| **31** | **work\_parking** | What is your usual parking situation at your place of work/school? | 1= Designated parking space: 780  2= Job-provided parking lot with unassigned spaces (free or paid): 3360  3= Paid parking in a commercial lot or garage: 246  4= On-street: 228  5= I don't drive to work: 1200  6= Other: 84 |
| **32** | **WorkChgAvai** | Are electric vehicle (EV) charging facilities available at your place of work/school? i.e. Could you plug in an EV and charge it while parking at work/school? | 1 = Yes: 1206  2 (recoded as -1) = No: 3708  3 (recoded as 0)= I don't know: 984 |
| **33** | **buycar** | Do you plan to buy a car in the next 3 years? | 1= Yes: 2958  2 (recoded as -1) = No: 1296  3 (recoded as 0) = Not sure: 1644 |
| **34** | **zipcode** | your current home ZIP code | 929 unique values. |
| **35** | **dmileage** | Suppose you are replacing your car. How far do you typically drive the car to be replaced daily? | 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 100. |
| **36** | **long\_dist** | How many long distance trips (i.e. trips more than 50 miles from your home) did you make by driving the car to be replaced last month? | 0: 1704  1: 1572  2: 1392  3: 510  4: 720 |
| **37** | **gascost** | Approximately how much money did you spend on gasoline for the car to be replaced last month? | 29 unique values, ranging from 0 to 300. |
| **38** | **age** | In what year were you born? Age of respondent (years)=2019-answer | 57 unique values, ranging from 19 to 76. |
| **39** | **used\_car\_owner** | whether respondent owns used car | 1= yes: 2070  0= No: 3828 |
| **40** | **used\_ev\_owner** | whether respondent owns used EV | 1= yes: 5832  0= No: 66 |
| **41** | **used** | whether respondent answered used car scenario | 1= yes: 2700  0= No: 3828 |
| **42** | **NextCarBudget** | Highest budget of next car chosen from the drop down menu in numerical form (eg. 10000) | 5000: 444  10000: 852  15000: 816  20000: 912  25000: 900  30000: 1104  40000: 618  50000: 252 |
| **43** | **PopDensity** | Population density of home zipcode (based on 2010 Census) |  |
| **44** | **orphan** | whether the respondent is identified as a garage orphan who does not have an off-street home parking space or accessible electricity outlets for home charging | 1= Yes;  2= No;  3= Not sure. |
| **45** | **ev\_owner** | whether the respondent is an EV owner | 1= yes: 432  0= No: 5466 |
| **46** | **priceshow** | price of EV shown in each scenario | 24 unique values, from 3500 to 50,000 and above. |
| **47** | **zip\_median\_home\_value** | Median home value of zipcode. | The values range from 45,600 to 1,000,001. |
| **48** | **state\_elec\_price** | Electricity price in each state (cent per kwh). | The values range from 9.37 to 32.76. |
| **49** | **state\_high\_temp** | State annual average high temperature over the entire state between 1991-2020. | The real values range from 35.5 to 81.9 in degrees Fahrenheit. |
| **50** | **state\_precip** | State annual average precipitation. | The real values range from 12.5 inches to 59.7 inches. |