**SHEET A) “Original DMV data”**

1. Received directly from California DMV. See **data description**

**SHEET B) “DP05 (Demographic) transpose”**

1. Downloaded 2014 ACS 5-Year estimates: DP05 “DEMOGRAPHIC AND HOUSING ESTIMATES” from US Census American FactFinder (Advanced Search) using the following search selections:
   1. Race & Ethnicity
   2. 5-Digit ZCTA: All 5-Digit ZIP Code Tabulation Areas fully within/partially within California
2. Pasted transposed values from downloaded CSV file into Sheet B.
3. Deleted top row (GEO.id) in order to place 5-digit ZCTA on top row.

**SHEET C) “DP03 (Economic) transposed”**

1. Downloaded 2014 ACS 5-Year estimates: DP03 “SELECTED ECONOMIC CHARACTERISTICS” from US Census American FactFinder (Advanced Search) using the following search selections:
   1. People: Poverty
   2. Employment (Labor Force) Status
   3. Commuting (Journey to Work)
   4. 5-Digit ZCTA: All 5-Digit ZIP Code Tabulation Areas fully within/partially within California
2. Pasted transposed values from downloaded CSV file into Sheet C.
3. Deleted top row (GEO.id) in order to place 5-digit ZCTA on top row.

**SHEET D) “Combine1”**

1. Pasted transposed values from Sheet A into new Sheet D (and deleted summed cells at end).
2. Added new column A
3. Selected key variables of interest from DP03 and DP05 Census datasets (see highlighted cells), and used HLOOKUP function to bring into Sheet D by matching ZCTA on row 1. Key variables are as follows:
   1. DP05 (DEMOGRAPHIC AND HOUSING ESTIMATES)
      1. HC03\_VC79 Percent; RACE - Race alone or in combination with one or more other races - Total population - Black or African American
      2. HC03\_VC81 Percent; RACE - Race alone or in combination with one or more other races - Total population - Asian
      3. HC03\_VC88 Percent; HISPANIC OR LATINO AND RACE - Total population - Hispanic or Latino (of any race)
      4. HC03\_VC94 Percent; HISPANIC OR LATINO AND RACE - Total population - Not Hispanic or Latino - White alone
   2. DP03 (SELECTED ECONOMIC CHARACTERISTICS)
      1. HC01\_VC03 Estimate; EMPLOYMENT STATUS - Population 16 years and over
      2. HC03\_VC28 Percent; COMMUTING TO WORK - Workers 16 years and over - Car, truck, or van -- drove alone
      3. HC03\_VC29 Percent; COMMUTING TO WORK - Workers 16 years and over - Car, truck, or van -- carpooled
      4. HC01\_VC85 Estimate; INCOME AND BENEFITS (IN 2014 INFLATION-ADJUSTED DOLLARS) - Total households - Median household income (dollars)
      5. HC01\_VC86 Estimate; INCOME AND BENEFITS (IN 2014 INFLATION-ADJUSTED DOLLARS) - Total households - Mean household income (dollars)
      6. HC03\_VC171 Percent; PERCENTAGE OF FAMILIES AND PEOPLE WHOSE INCOME IN THE PAST 12 MONTHS IS BELOW THE POVERTY LEVEL - All people

**SHEET E) “Combine2”**

1. Pasted transposed values from Sheet D into new Sheet E.
2. Deleted Row 1.
3. Used Column 1 as header and sorted by Column L (largest to smallest) to isolate zip codes with #N/A results from HLOOKUP function. Cut these rows from Sheet E and pasted into new Sheet F.
4. Cut rows from Sheet E with 16 years of age and over populations (Column L) under 1,000 and pasted into new Sheet G.
5. Created new column “Percent FTA by Population 16yo+”
6. Created new column “Percent FTP by Population 16yo+”
7. Created new column “Percent FTA/FTP Suspension rate by Population 16yo+”
8. Created new column “Percent commuting to work by auto”
9. Dropped zip code 95113 due to extreme outlier status (17.5% suspension rate)
10. Pasted values into new Sheet H “Combine3 (final)”