**Data Dictionary**

**signal.Rdata**

* Average hourly–weekday pedestrian push-button counts (45B, see project and paper for details on how these were calculated)
* *Rows* (168): each hour–weekday combination
* *Columns* (1697):
  + **sigXXXX**: signal, where XXXX is a four-digit Signal ID

**datime.Rdata**

* Date, weekday, and time for each hourly­–weekday combination
* *Rows* (168): each hour–weekday combination
* *Columns* (3):
  + **DAYTIME**: date and time example (not the actual date and time, a representation)
  + **WEEKDAY**: weekday, 1 = Monday, 7 = Sunday
  + **HOUR**: hour, 0 = Midnight-to-1am, 23 = 11pm-to-Midnight

**mo\_dat.Rdata**

* Adjustment factors from daily pedestrian push button counts (monthly average daily ÷ annual average daily) (45B, see project and paper for details on how these were calculated)
* *Rows* (12): each month
* *Columns* (1698):
  + **MONTH**: month, 01 = January, 12 = December
  + **sigXXXX**: signal, where XXXX is a four-digit Signal ID

**signals\_cl.Rdata**

* Climatic divisions for each signal location
* *Rows* (1521): each signal
* *Columns* (3):
  + **Signal\_ID**: signal ID
  + **Cl\_division**: Climatic divisions of each signal location (Western, North Central, Northern Mountains, Uinta Basin, South Central, South East, or Dixie)

**be\_dat.Rdata**

* Signal location, built environment, and land use features
* Originally created for a separate UDOT research project (<https://doi.org/10.1016/j.jtrangeo.2021.103067>)
* *Rows* (1697): each signal
* *Columns* (many):

|  |  |
| --- | --- |
| *Column* | *Description* |
| **Signal location** | |
| SIGNAL | Signal ID for the intersection (see <https://udottraffic.utah.gov/atspm/>) |
| TYPE | Type of signal (signal, HAWK) |
| ST\_EW | Street, east/west |
| ST\_NS | Street, north/south |
| CITY | City |
| REGION | UDOT region (1, 2, 3, 4) |
| OWNER | Owner (UDOT, city) |
| LAT, YC | Latitude (degrees) |
| LONG, XC | Longitude (degrees) |
| **Land use attributes** | |
| per\_res\_qtmi | Residential land use (%) |
| per\_com\_qtmi | Commercial land use (%) |
| per\_ind\_qtmi | Industrial land use (%) |
| schools\_qtmi | Schools (#) |
| worship\_qtmi | Places of worship (#) |
| park\_sqmi\_qtmi | Park size (mi2) |
| **Built environment attributes** | |
| popden\_000\_qtmi | Population density (1,000/mi2) |
| empden\_000\_qtmi | Employment density (1,000/mi2) |
| intden\_qtmi | Intersection density (#/mi2) |
| per4wy\_qtmi | 4-way intersections (%) |
| stopden\_qtmi | Transit stops (#) |
| **Socio-economic attributes** | |
| avgveh\_qtmi | Vehicle ownership (#, mean) |
| hhsize\_qtmi | Household size (#, mean) |
| income\_000\_qtmi | Household income ($1,000) |