This script will explain how to read the indices generated for this study-

**ID:** last four digits of Eco provided ID; for example, if the Eco ID is 1000,1127, then the script has written 1127. However, a Zero is omitted in front of the digit, for instance, if the Eco ID is 1000,0127, the script has written just 127 without a zero in front of 127. This modification was done to combine the directional count for the same ECO ID as only last four digit is same for a ID regardless of direction.

**Year:** year is the eco data collection year.

**Max\_WWI:** WWI is known weekend/weekday index, which is calculated using the below formula-

***WWI =***

***Where, Vwe=average weekend daily traffic***

***Vwd=average weekday daily traffic***

After getting WWI for each week for each counter in a specific year, we take the maximum WWI value to get the max\_WWI. For instance, there are 52 weeks in a year. First, we calculated 52 WWI; then we chose the Max value of WWI to get the max\_WWI

**Average\_WWI**: In this case, we took the average of weekly WWI to get the Average\_WWI. For instance, first we calculated 52 weekly WWI, then we took the average by ID and year to get a single average value for each ID in each year.

**Weekday\_Aergage\_AMI:** First, we calculated the AMI known as the Average Morning/Midday Index, using the hourly volume collected between 7 to 9 and 11 to 13 using the following formula-

***AMI=***

Where, *vh* = Average weekday hourly count for hour (*h*) where hours are given as starting time of the hour

We calculated this AMI for each day, then we take the average of weekday (Monday to Friday) to get the Weekday\_Average\_AMI.

**Weekend\_Aergage\_AMI**: To get the Weekend\_Average\_AMI, we took the average of the weekend (Saturday and Sunday) AMI over 52 weekends in a year.

**Average\_AMI\_wday\_wend:** It is the ratio of Weekday\_Aergage\_AMI and Weekend\_Aergage\_AMI in a specific year.

*Average AMI\_wday\_wend =*

**Max\_weekend\_AM**I: This is the maximum AMI from either Saturday or Sunday for 52 weeks in a year.

*Max\_weekend\_AMI= fmax (Saturday AMI, Sunday AMI)*

**Max\_weekday\_AMI:** The maximum weekday AMI was selected based on maximum value of AMI from Monday to Friday in 52 weeks in a specific year.

*Max\_weekend\_AMI=fmax(Monday AMI, Tuesday AMI, Wednesday AMI, Thursday AMI, Friday AMI)*

**Daily\_Max\_AMI:** We calculated the AMI for 365 days of a year, then we took the maximum value of AMI from 365 values to get the Daily\_Max\_AMI.

***Daily\_Max\_AMI=*** *fmax (365 days AMI)*

**Daily\_Max\_PMI:** First we calculated the PMI for 365 days of year using the following formula-

***PMI=***

*Where,*

PMI = Average Evening/Midday Index,

*vh* = Average weekday hourly count for hour (*h*) where hours are given as starting time of the hour

Once, we get the PMI for each day of the year, then we took the max value to achieve the Daily\_Max\_PMI.

***Daily\_Max\_PMI=*** *fmax (365 days PMI)*

**Weekday\_Aergage\_PMI:** We took the average of Monday to Friday PMI to get the Weekday\_Aergage\_PMI over 52 weeks in a year.

**Weekend\_Aergage\_PMI:** We took the average of Saturday to Sunday PMI to get the Weekdend\_Aergage\_PMI over 52 weeks in a year.

**Average PMI\_wday\_wend:** It is the ratio of Weekday\_Aergage\_PMI and Weekend\_Aergage\_PMI in a specific year.

**Max\_weekday\_PMI:** The maximum weekday PMI was selected based on maximum value of PMI from Monday to Friday in 52 weeks in a specific year.

Max\_weekend\_PMI=fmax(Monday PMI, Tuesday PMI, Wednesday PMI, Thursday PMI, Friday PMI)

**Max\_weekend\_PMI:** This is the maximum PMI from either Saturday or Sunday for 52 weeks in a year.

*Max\_weekend\_PMI= fmax (Saturday PMI, Sunday PMI)*

**max\_daily\_am/pm\_value:** It provides the maximum value by comparing Daily\_Max\_PMI and Daily\_Max\_AMI.

max\_daily\_am/pm\_value= *fmax (*Daily\_Max\_PMI or Daily\_Max\_AMI.*)*

**max\_daily\_am/pm:** Indicate the AM or PM sign for the **max\_daily\_am/pm\_value**

**max\_weekend\_am/pm\_Value**: It provides the maximum value by comparing Max\_weekend\_AMI and Max\_weekend\_PMI

**max\_weekend\_am/pm\_Value** = *fmax (*Max\_weekend\_AMI or Max\_weekend\_PMI

**max\_weekend\_am/pm:** Indicate the AM or PM sign for the max\_weekend\_am/pm\_Value

**max\_weekday\_am/pm\_Value**: It provides the maximum value by comparing Max\_weekday\_AMI and Max\_weekday\_PMI

**max\_weekday\_am/pm\_Value** = *fmax (*Max\_weekday\_AMI or Max\_weekday\_PMI

**max\_weekday\_am/pm:** Indicate the AM or PM sign for the max\_weekday\_am/pm\_Value

**seasonal\_factor:** It is the ratio of average daily volume in month of June and average daily volume in month of December.

Seasonal Factor=

**Latitude:** It is the latitude of the eco counter location with EPSG 4326

**longitude:** It is longitude of the eco counter location with EPSG 4326

**location:** It is the urban or rural physical location of the eco counter

**road:**The name of the road over which the counter is located

**city:** The city where the counter is located

**county:** Name of the county where the counters located

**state:** Counter’s location state

**country:** Counter location country

**dist:** The counter location district within the California, for instance d1 means the counter is located in district 1 of CA

**osm\_refere:** It is the eco counter ID corresponding OSM Reference ID from OSM that was matched using GIS spatial joining environment.

**edgeUID:** Eco counter location corresponding OSM edgeUID

**osmId:** Eco counter location corresponding OSM ID

**stv\_total:** It is the Strava total sum volume over 365 days for corresponding eco\_location

**stv\_com\_to:** It is the Strava total commute trip over 365 days for corresponding eco\_location.

**stv\_rec\_to:** It is the Strava total recreational trip over 365 days for corresponding eco\_location.

**stv\_com\_ra:** it is the ratio of Strava total commute trip and Strava total Annual volume.

**stv\_com\_ratio=**

**stv\_rec\_ra:** it is the ratio of Strava total recreational trip and Strava total Annual volume.

**stv\_rec\_ratio=**