Early Morning 27th April would be the safest time in Sammanish

Soul Force AI

22/04/2020

Sammamish, Washington, USA

Sammamish is a city in King County, Washington, United States. The population is estimated 65,733 in 2018. Located on a plateau, the city is bordered by Lake Sammamish to the west and the Snoqualmie Valley to the east.

The city is relatively peaceful and safe to live in.



This analysis is carried out for more of as Educational / Entertainment purposes. It is however based on the real data

Data set consists of 258 observation and 32 Variables

load("crimeSummary.RData")
dim(getArrestData)

Crime Analysis

We have used bar plots to see how the crime happens in Sammamish

How to read the Bar plot

- Categorical variable.
- Data are displayed as a series of vertical (or horizontal) bars whose heights indicate the number (count) or proportion (percentage) of values in each category.
- Look at the Visual representation of a table. and check
 - How do the heights of the bars compare?
 - Which is the largest?
 - Which is the Smallest?

knitr::include_graphics('investigatingA.JPG')

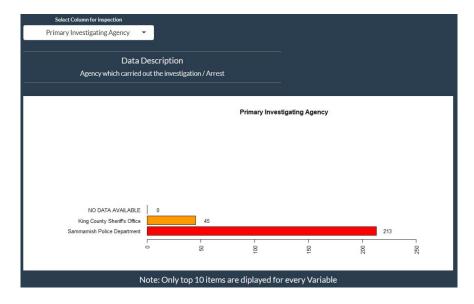


Figure 1: Arrests made by Investigating Agency

As can be seen that out of the two, the **Sammamish Police Department** was the busiest in making the arrests. (ref figure #1)

Further look into the data how the Crime is distributed by the day of the week It is obvious from the bar plot (ref figure #2) of crime frequency categorized by day of the week that Monday is the safest day

knitr::include_graphics('dayofweek.JPG')

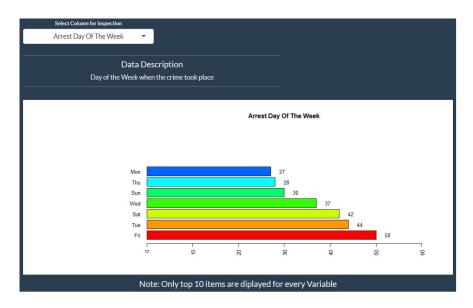


Figure 2: Arrests plotted against Day of the week

Crime as it looks on Monthly basis April is the month with the lowest crime rate. Ref figure #3

knitr::include_graphics('monthCS.JPG')

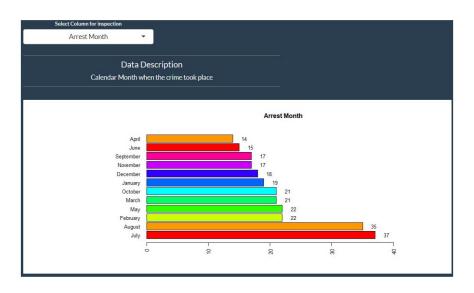


Figure 3: Arrests made on Months Basis

Time of the Day Crime Distribution Early Morning is the time when we have least crime rate. May be the persons prone to get involved in crime don't like to wake up early Ref figure # 4

knitr::include_graphics('timeOfDay.JPG')



Figure 4: Arrests Vs Time of the Day

```
# cc <- case_when(
# Time > 0 & Time < 4 ~ "Early Morning",
# Time >= 4 & Time < 10 ~ "Morning",
# Time >= 10 & Time < 15 ~ "Noon",
# Time >= 15 & Time < 19 ~ "Evening",
# Time >= 19 & Time < 24/bb == 0 ~ "Night"
# )
```

As per the formula early morning is the time between midnight and 4am

Final Conclusion

Early Morning (Midnight to 4am) on Monday in the month of April is the safest time in the city. i.e. 27th April 2020

Enjoy

Well that was before Covid19 virus ... Now there is no time that is safe to venture out.

Stay Inside and stay safe