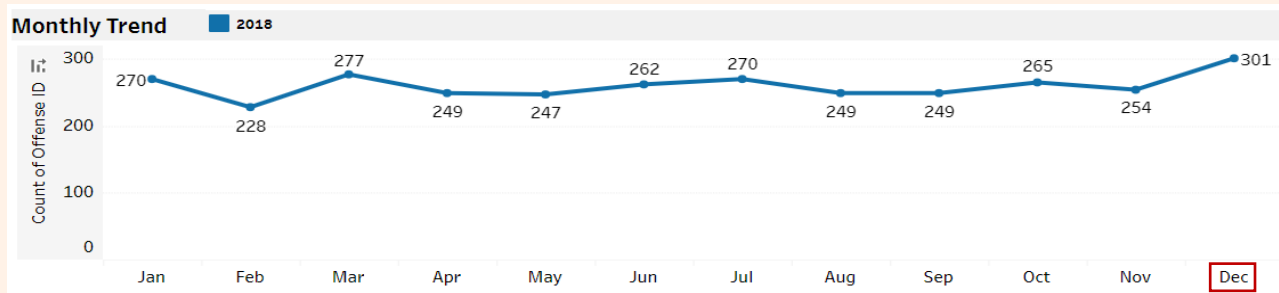


## **BURGLARIES IN NORTH SEATTLE**

This bulletin is intended to communicate with a general public audience, about the Burglaries that occurred in North Seattle, in the year 2018. A total of 1259 Burglary calls were reported in that year. The below report illustrates the Concentration of Burglaries with respect to beats, the impact of Marijuana Retail Stores on Burglaries, Location Quotient analysis and identifying the Hotspots of crime.

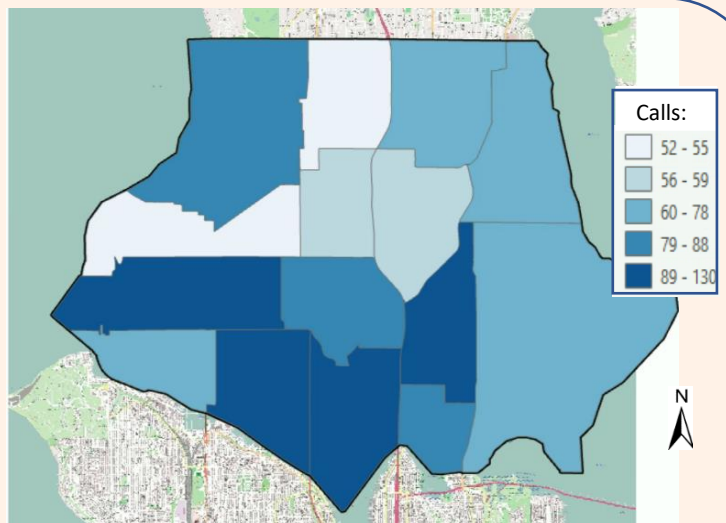
### **BURGLARIES OCCURRED PER MONTH:**



More number of Burglary calls are received in the month of December. On the eve of Christmas, many people go on vacation and hence there is more chance for Burglaries to occur.

### **CONCENTRATION OF BURGLARIES WITH RESPECT TO BEATS:**

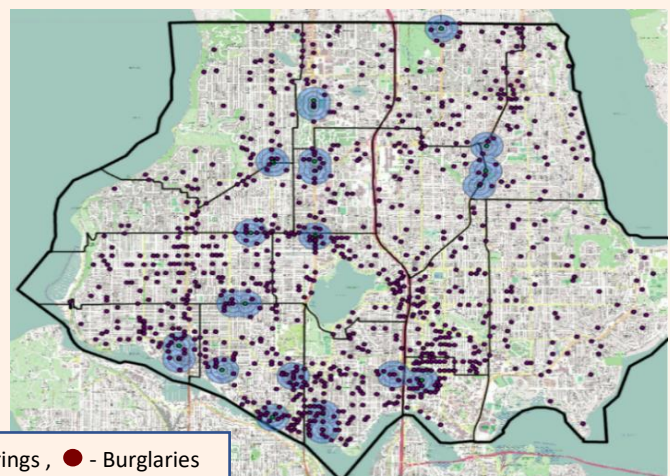
It is observed that a greater number of calls regarding Burglaries are received from ROOSEVELT, RAVENNA, WALLINGFORD, FREMONT, WEST WOODLAND, PHINNEY RIDGE, WHITTIER HEIGHTS, LOYAL HEIGHTS, and SUNSET HILL. Approximately 89 to 130 calls are received from each area. Followed by GREEN LAKE, BITTER LAKE, and THE UNIVERSITY OF WASHINGTON areas. The majority of areas in NORTHGATE, GREENWOOD, northern regions of BALLARD NORTH, CROWN HILL and HALLER LAKE are considered the safest.



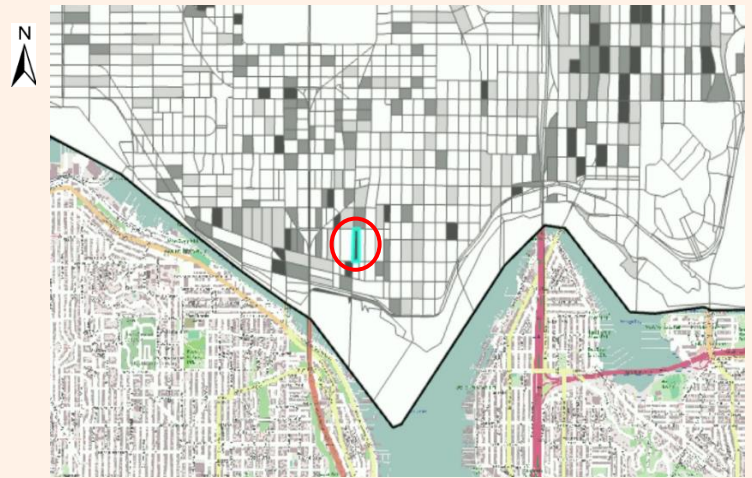
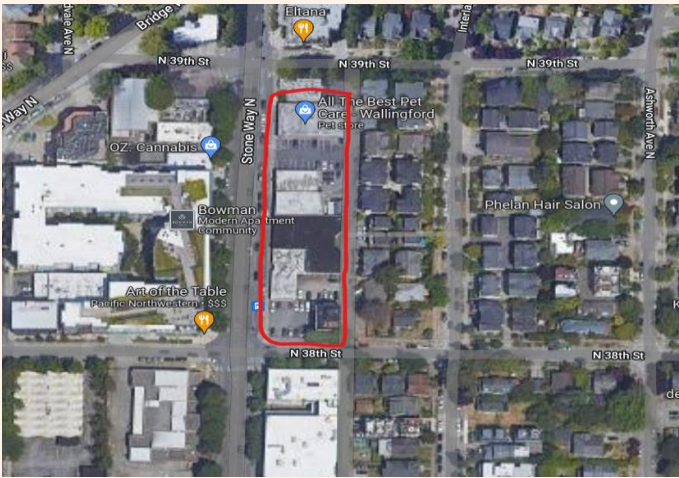
### **EFFECTS OF MARIJUANA ON BURGLARY:**

Multiple ring buffers with radii of 500 and 1000 feet are plotted around the Marijuana retail stores.

It is observed that only 5 percent of the Burglaries are recorded within the radius of 1000 feet from the stores. This value is considered insignificant, and it is inferred that Marijuana Retail Stores have no notable effect on Burglaries.



## IMPLEMENTING LOCATION QUOTIENT:

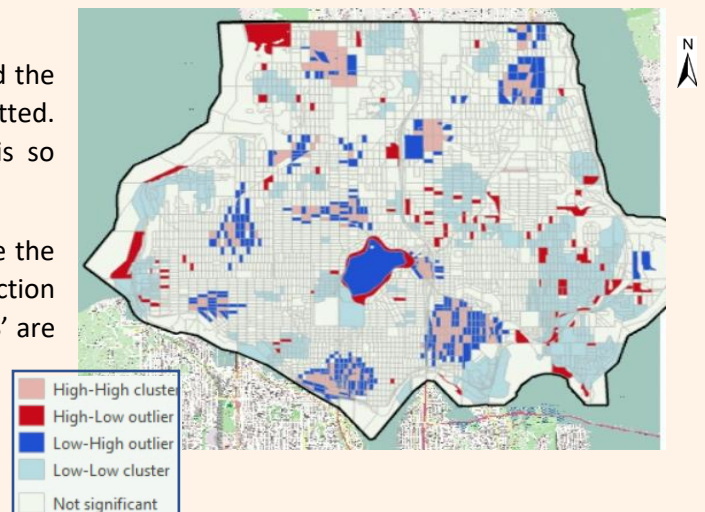


The Location quotient (LQ) value expresses the density of crime in a particular area, relative to the density of crime in a larger study area. The highest LQ value of 88 is found to be at an 'Unoccupied structure on Residential property' (the area highlighted within the red circle), at STONE WAY NORTH and NORTH 38<sup>th</sup> STREET. This means, the density of crime at this location is 88 times greater than in other areas. The same area is highlighted in Google Map's Satellite Layout.

## IDENTIFYING THE HOTSPOTS:

A tool called Local Moran's statistic is run over the data and the adjacent plot is obtained, in which crime hotspots are plotted. Hotspots are regions in which the occurrence of crime is so frequent.

The regions highlighted in pink color (High-High cluster) give the hotspots of crime. The beats mentioned in the above section 'CONCENTRATION OF BURGLARIES WITH RESPECT TO BEATS' are identified as hotspots for Burglaries. There is statistical evidence of clustering at these locations. The light blue cells are the cold spots (Low-Low cluster).



## ADVICES:

People residing in the above hotspot regions are advised to lock all the doors and windows before leaving the house or going to bed. Also, make sure that the garage doors are locked. Most importantly, do not allow daily newspapers or mail deliveries to build up at the doorsteps or the front gate while being away from the house, especially while going on a vacation for an extended time. It is always advisable to not share vacation plans over social media platforms.

## REFERENCES:

- Crime Dashboard - Police | seattle.gov
- Google Maps