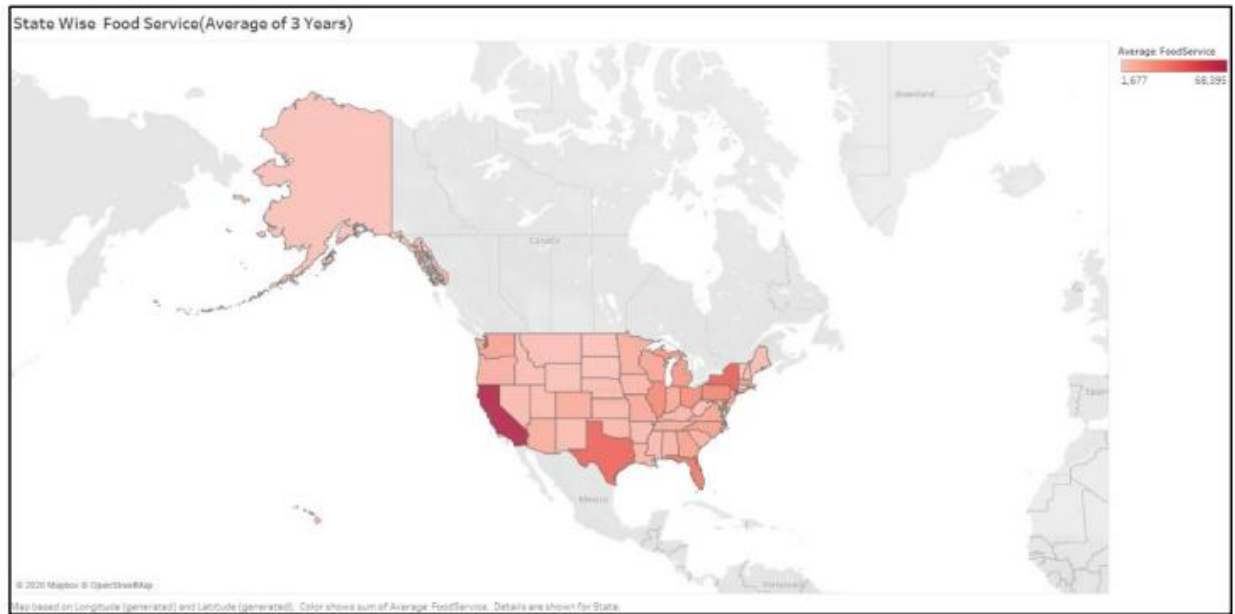


Name: Ashay Kargaonkar

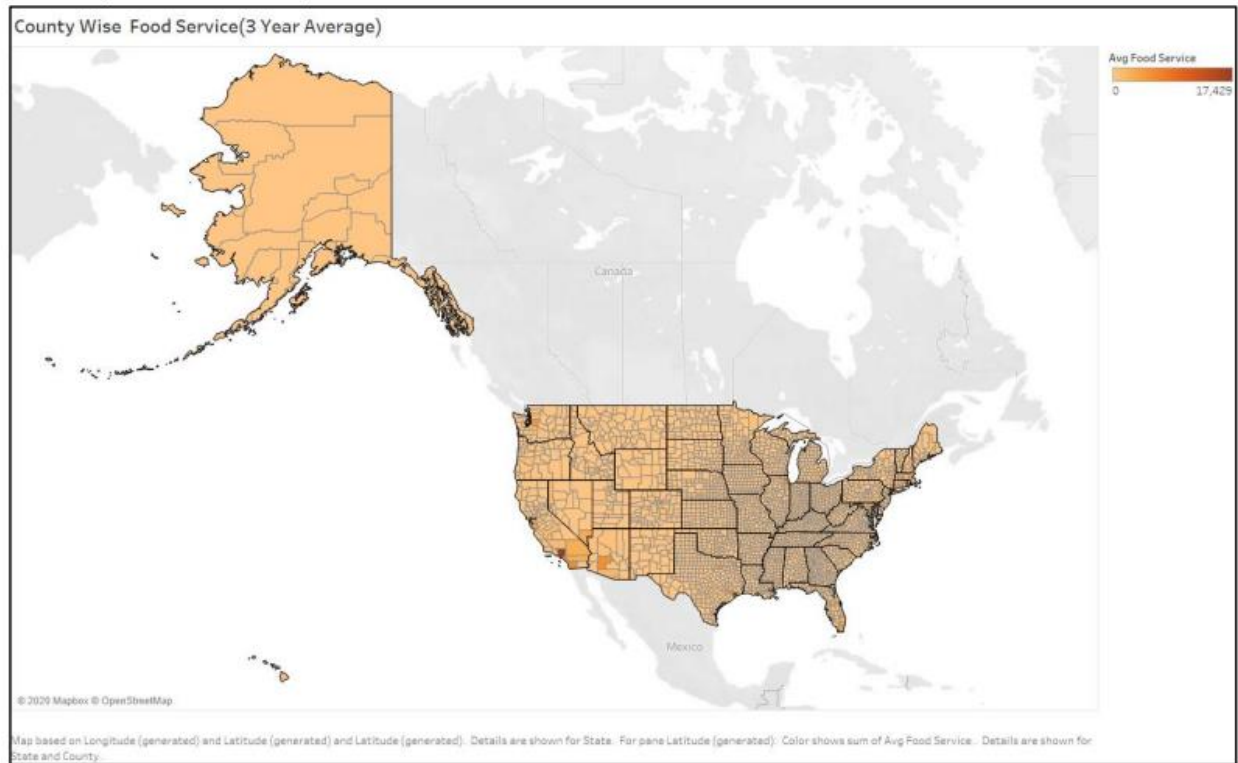
DSC 465 Assignment 2

Q1.a.



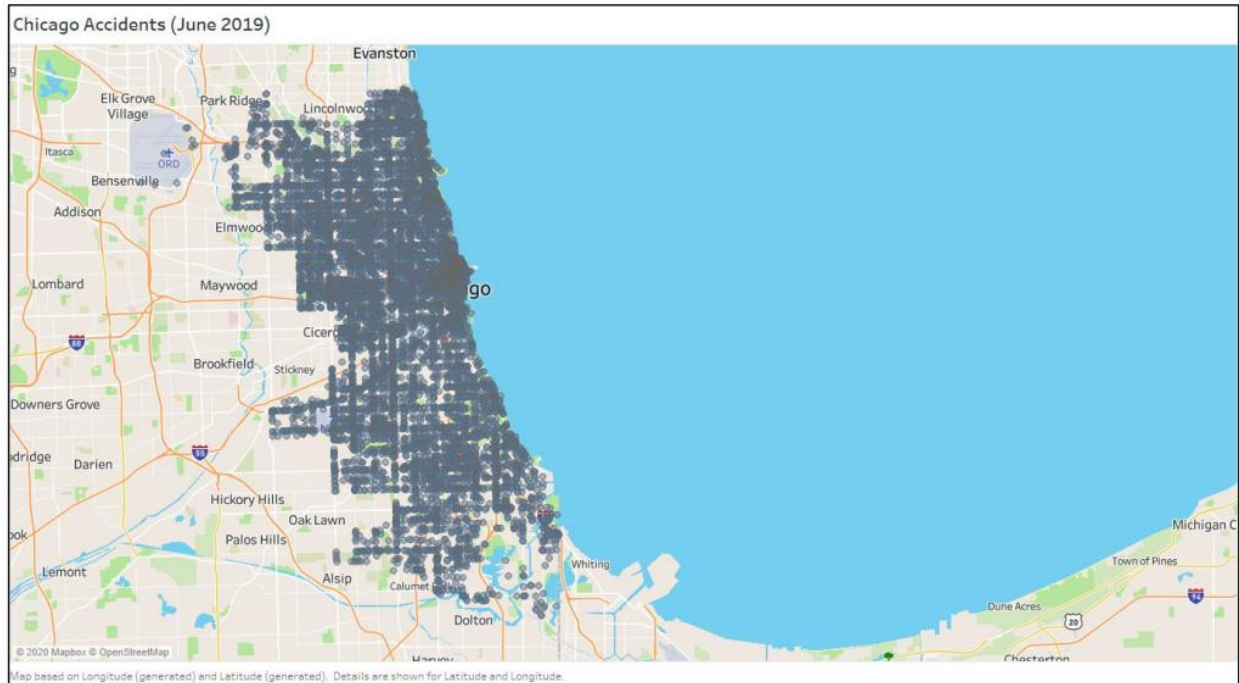
The above graphs display the average of food services state wise of 3 given years. I chose red color because it helps us to clearly visualize the states which displays high levels and low levels of food service availability. From the above figure we can see that California is the darkest state stating that it has highest foodservice followed by New York, Texas Florida.

Q1.b.



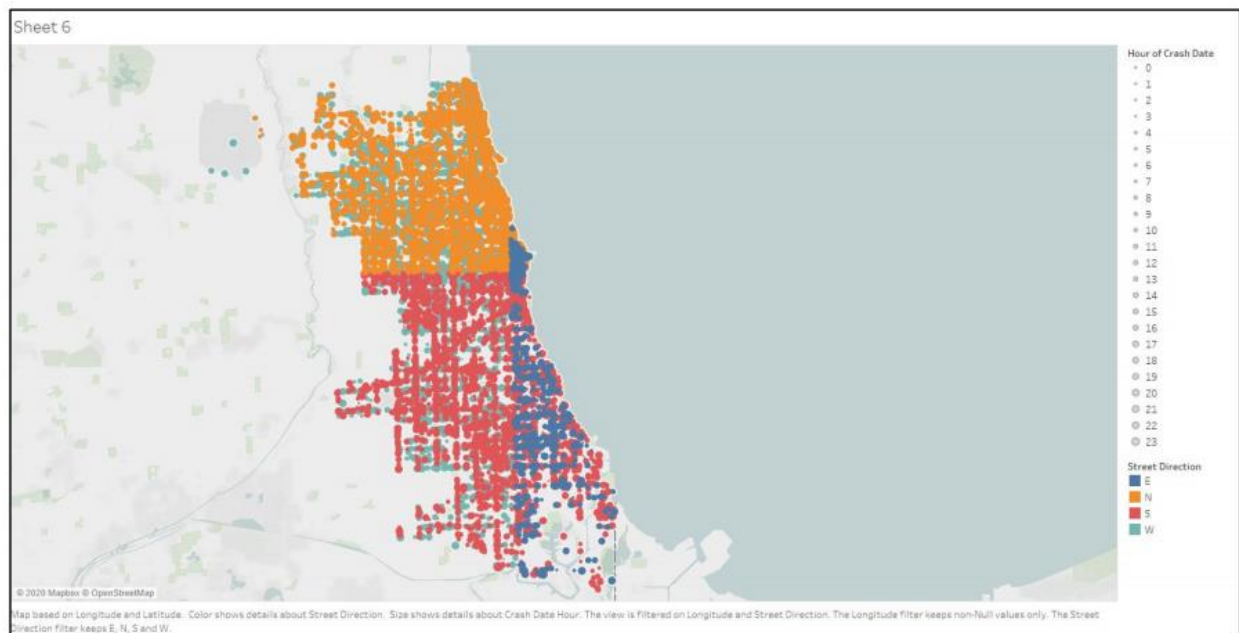
The above figure displays the foodservice available according to the county. From the graph we can see that Los Angeles county has the highest food service available followed by King County, San Diego, Maricopa.

Q2.a.



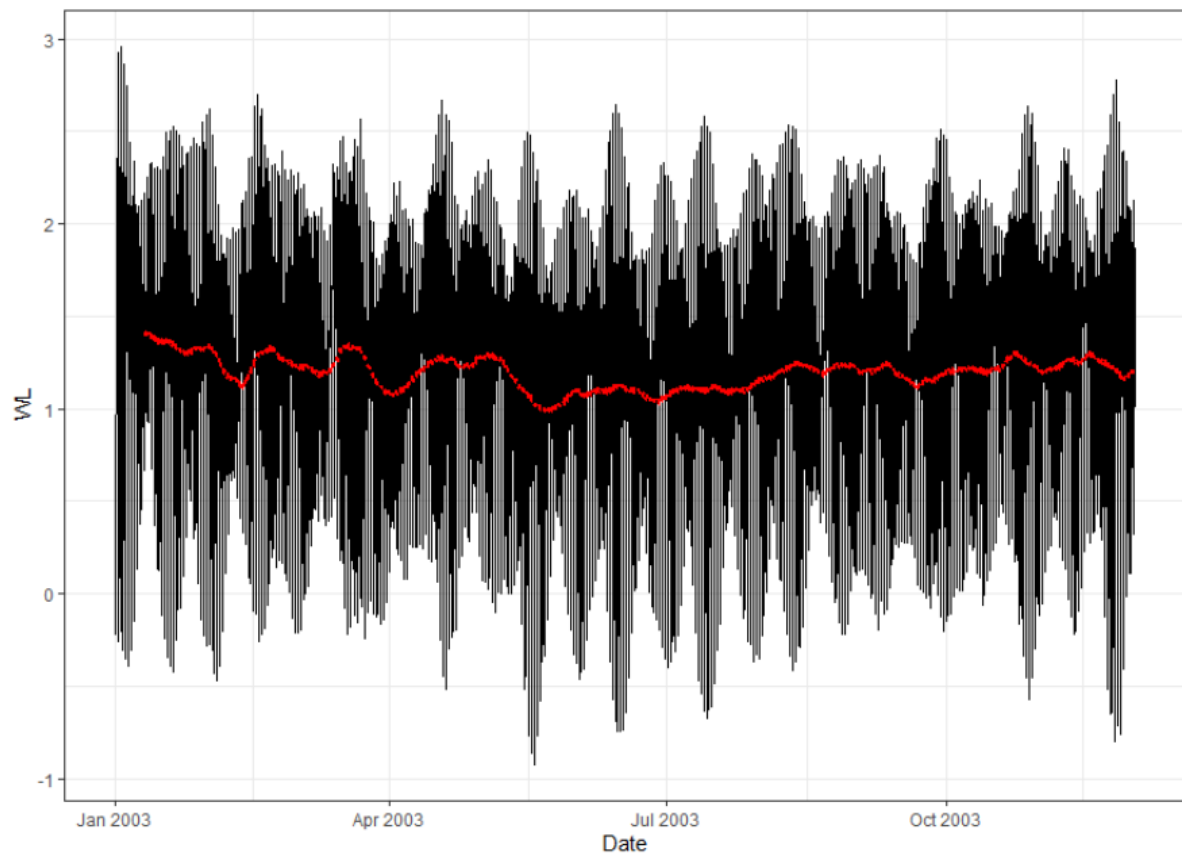
- I used latitude as column and longitude as rows.
- I used map view of type street to get this view.

Q2.b.



TO consider different parts of the city I picked Street Direction Variable and the accident spots get colored into 4 different street direction, i.e., North, South, East, and West.

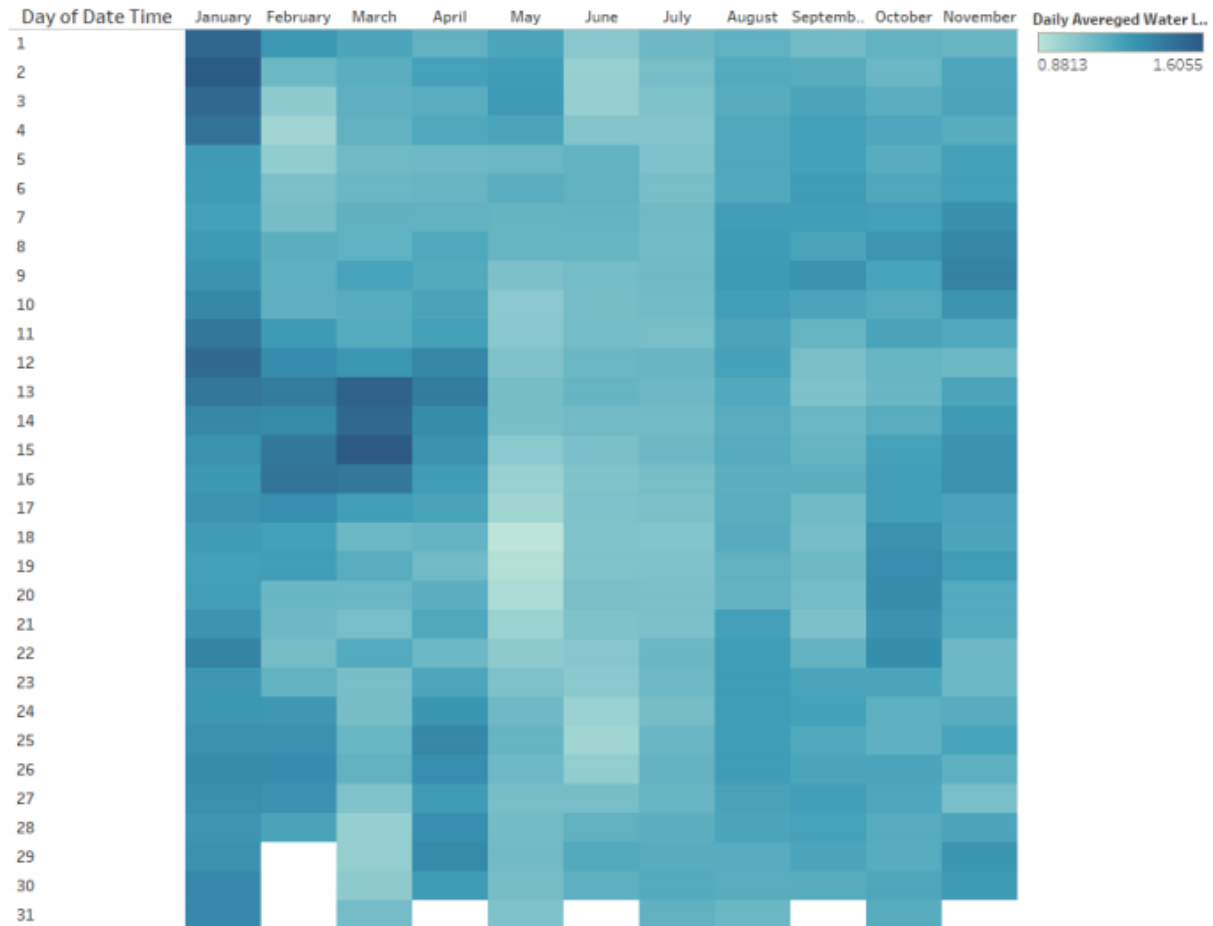
Q3.a.



- This graph was made in R.
- To smoothen the graph, 10 day moving average was applied. The red line denotes this line.

Q3.b.

Daily Cycles of Tides over a Year



Sum of WL (color) broken down by Month vs. Day.

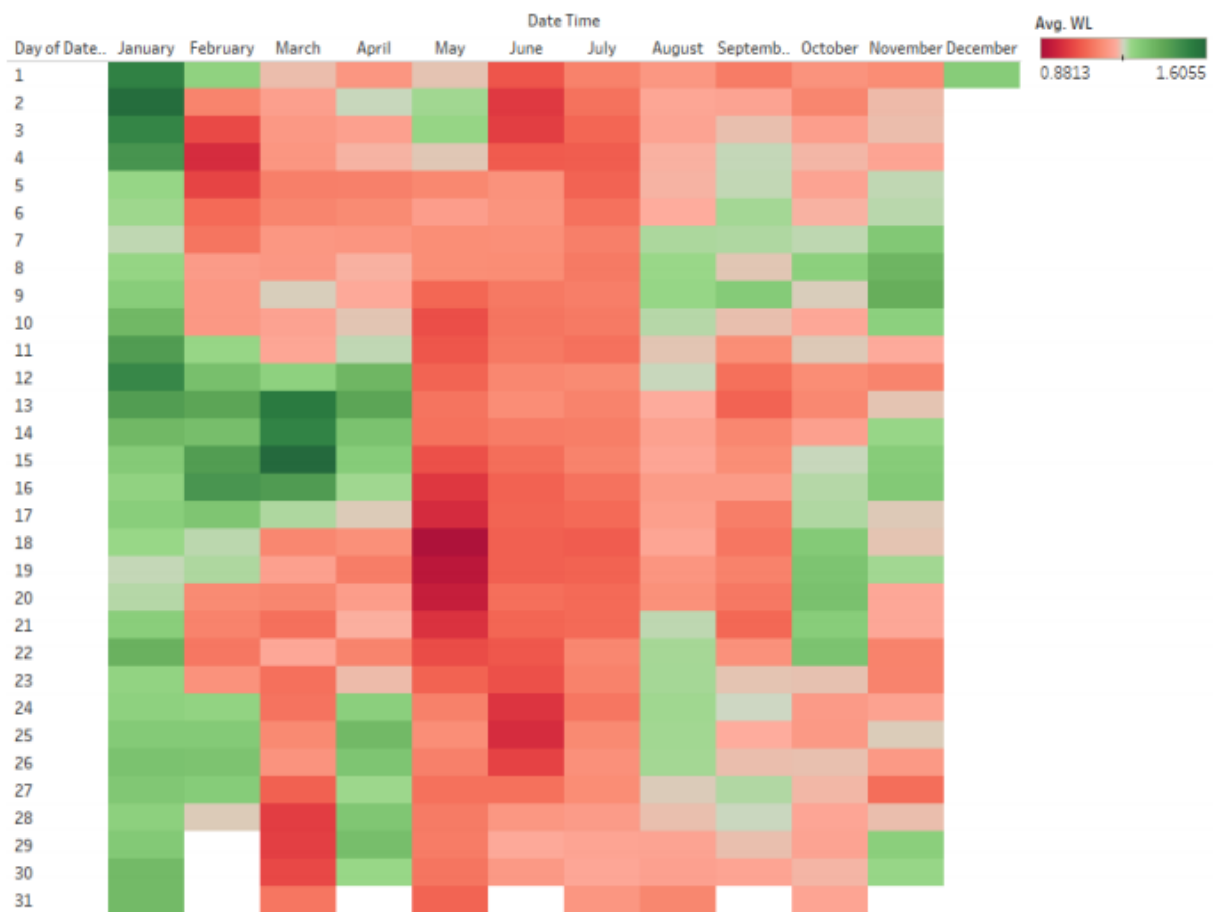
- I created a heat map/ tile plot which displays water level of each day.
- On the column months were considered and as rows days were considered to create this graph.
- The darker the color more the water level is present at that day.
- December's data was not considered for this graph because the whole data is not present. Just the 1<sup>st</sup> day is present.

Q3.c.

The first graph shows the overall trend of water level over the year, but the second graph shows the daily movement of water level over the year. Because of this, there is no visible trend in first graph as it displays the data of the whole year. But in second graph we can see the daily changes in water levels which can be quite useful while analyzing the data.

Q4.

Daily Water Level Over the Year



Average of WL (color) broken down by Date Time Month vs. Date Time Day.

- For this question I have changed the above heat map/ tile plot by using green and red color.
- Green color shows the water level is above average and red color displays the water level is below average.

- More the tile is greener the average of water level is more. Similarly, more the tile is red lesser the average is.