

SAN FRANCISCO CRIMES

ANALYSIS	TOP CRIMES	CRIMES BY DISTRICTS	CRIMES BY MONTH OF THE YEAR	CRIMES BY WEEKDAYS	CRIMES BY TIME OF THE DAY	CRIME BY TIME OF DAY FOR S...
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AIM OF THE ANALYSIS

In this research will try to identify the top crimes in San Francisco and identify if there are any patterns such location, day of week and time in order to provide insight information on location and timing for police patrolling.

SOURCE OF THE DATA SET

For the analysis the data set used was kindly provided by the Coursera teacher of the Communicating Data Science Result course.

FINDING

Based on the data provided is fair to assume that the most reported crime is “Grand Theft from Locked Car”.

This crime has a strong occurrence in Southern Pd District, which result to the also the District with most reported crime of all.

It fair to suggest a higher police patrolling on the Southern Pd District will enable to prevent not only more occurrences of the “Grand theft from Locked Car” but also tackle the high crime report of this District.

From the data provided was also possible to envisage a strong correlation between the crimes and the months of the years and the hours of the day.

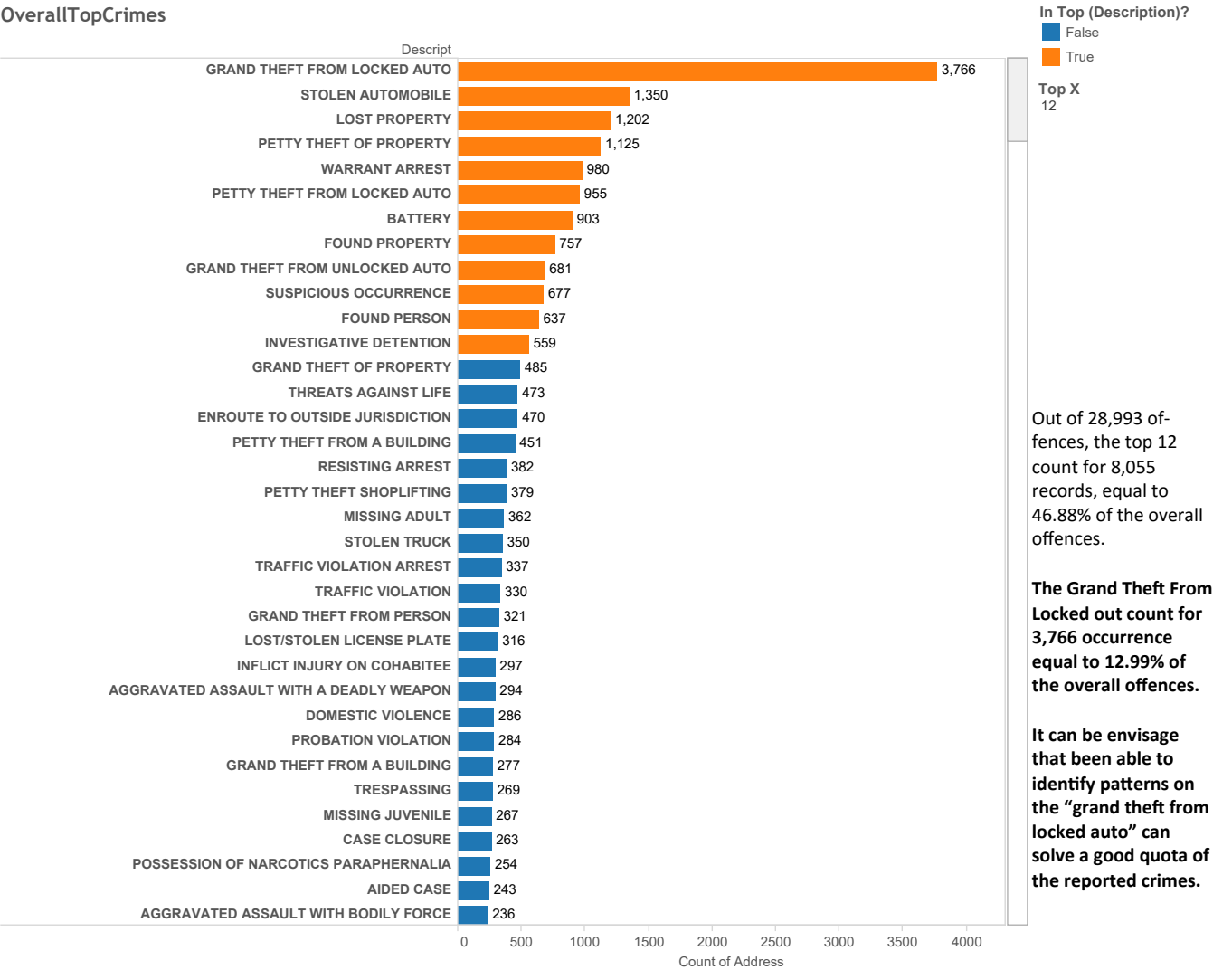
It is fair to even further suggest that patrolling during the late evening / early night time can further enhance the crime prevention, in particular during the months of June, July and August.

The supporting charts are present here after along with a brief chart by chart explanation and analysis.

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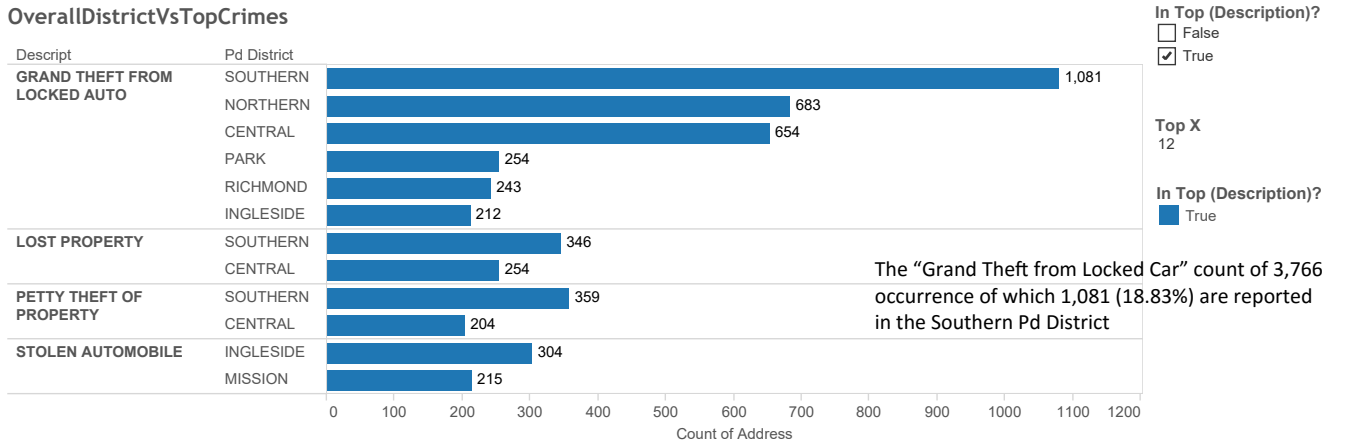
OverallTopCrimes



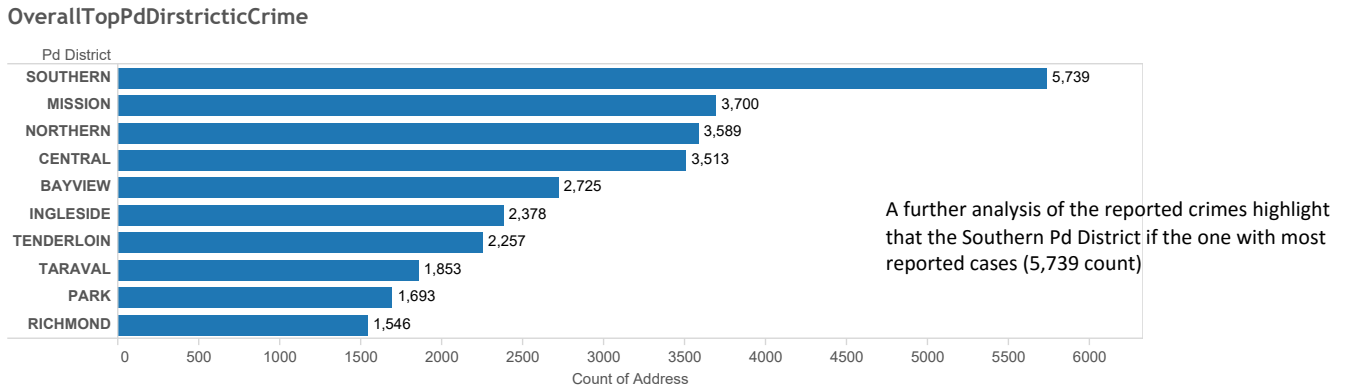
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OverallDistrictVsTopCrimes



OverallTopPdDirstricicCrime



It is reasonable, based on the data available, to assume that a higher deployment of police patrolling on in the Southern Pd District will not only help in decrease the most reported case of offence “Grand theft form Locked Car”, but will also prevent various other crimes that are effecting this area.

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CrimesByMonths



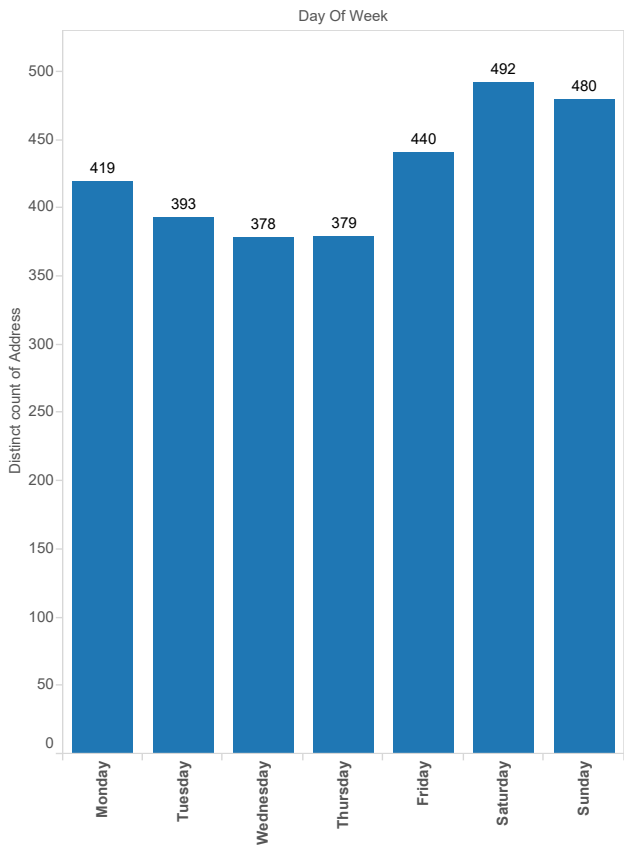
This tree chart representation of the crime description occurrence by the various months, does highlight again the “Grand theft from locked auto” as the most reported crime every month.

The chart is highlighting that the month 8, 7, 6 (August, July and June) does have the more reported offences for this crime.

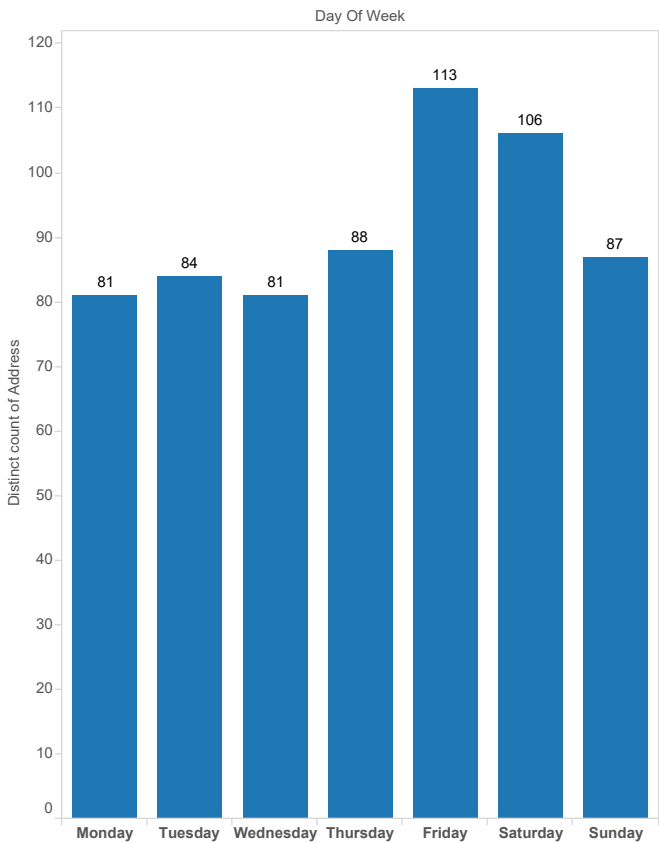
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TopOneByWeekDay



TopOneByWeekDay-SouthernGrandTheft



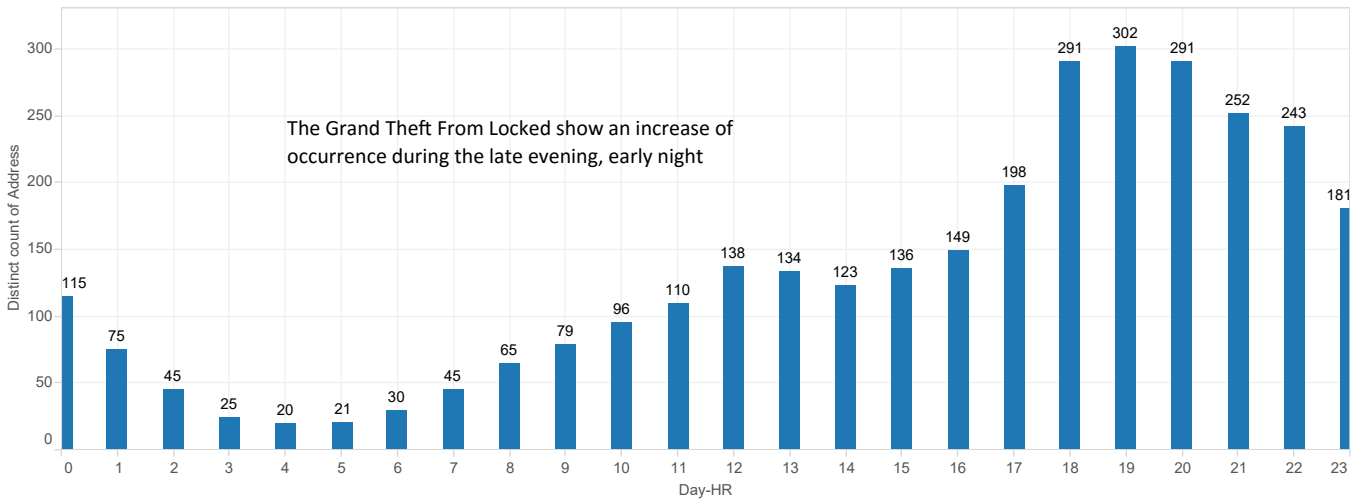
The Grand Theft From Locked out count overall does show a higher reported oncurrence during the weekend (Friday, Satruday and Sunday)

Similar conclusion can be derived analysing the reported Grand theft from locked car for the Southern Pd District

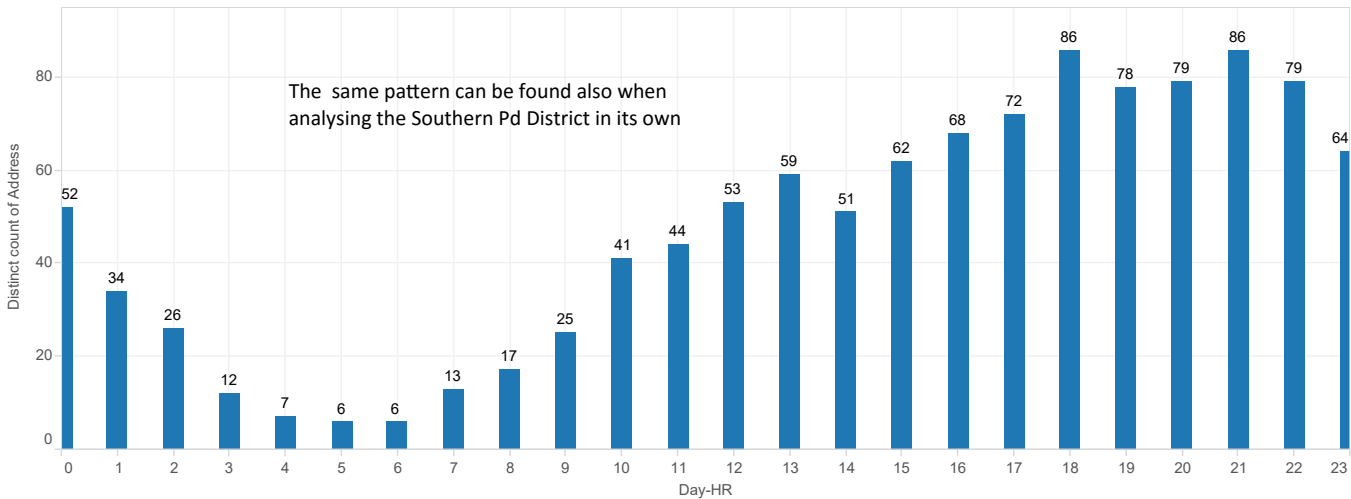
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TopCrimeByTime



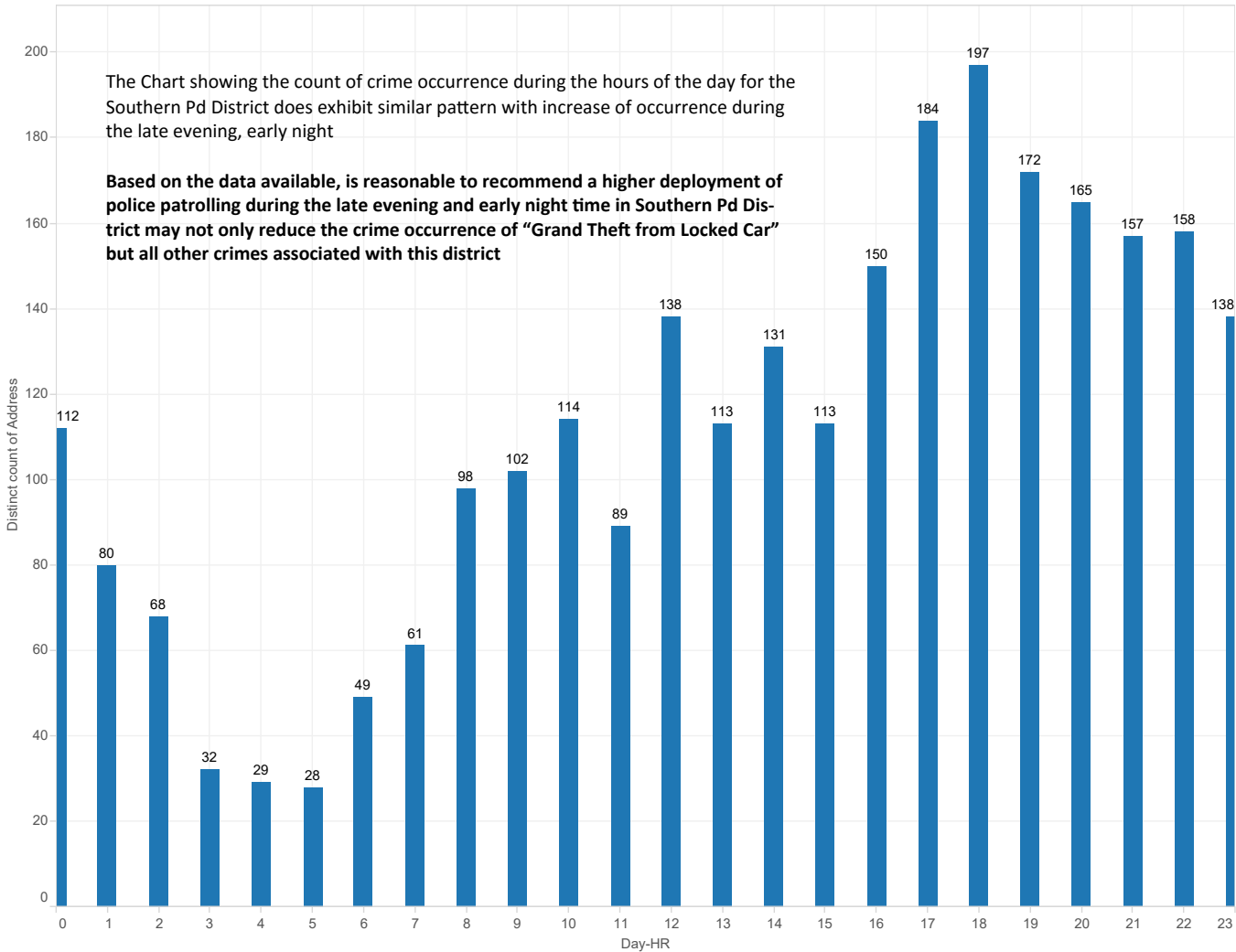
TopCrimeByTimeWeekEnd



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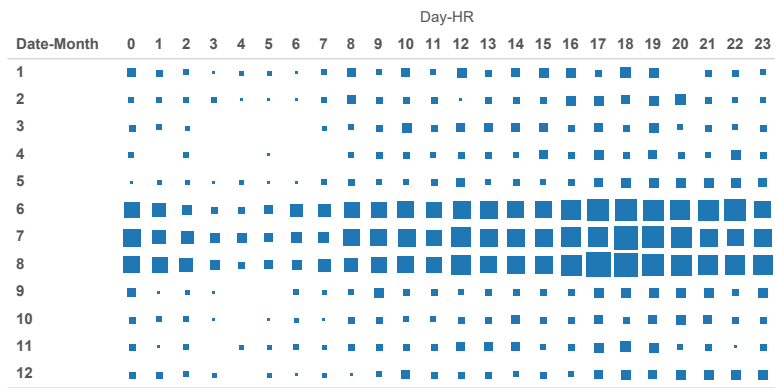
TopCrimeByTimeSouthern



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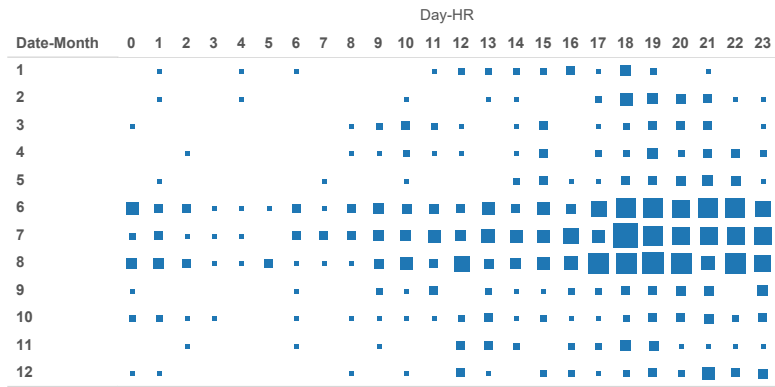
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MonthVsHourCrime-Southern



The Grand Theft From Locked Car heat map for Southern Pd District across the months does confirm a stable pattern of increase offences during late evening hours and confirm the pattern for months of June, July and August (6, 7 and 8)

MonthVsHourCrime-SouthernGrandTheft



Similar pattern can be drawn plotting the same data filtered by Southern Pd District and Grand Theft from Locked Car as well