

Data Analysis of Crime in San Francisco (2018)

Antony T., Guillermo R., Min C., Yvette G.



AGENDA

Introduction

Observations & Insights

Conclusion

Recommendations



Introduction



Our Client:



Our Mission:

- Through data analysis of San Francisco's crime patterns, provide recommendations to the San Francisco Police
 Department on how they should spend their extra funding in order to understand and reduce crime.
- What patterns and insights, related to time, incident category, location, and resolution, are in the data?



San Francisco Crime Dataset

- From 2018
- Sourced by the SF Police Department
- Crime data related to:
 - Date & Time
 - Incident Category/Subcategory
 - Location
 - Resolution status
- Quantitative and qualitative data



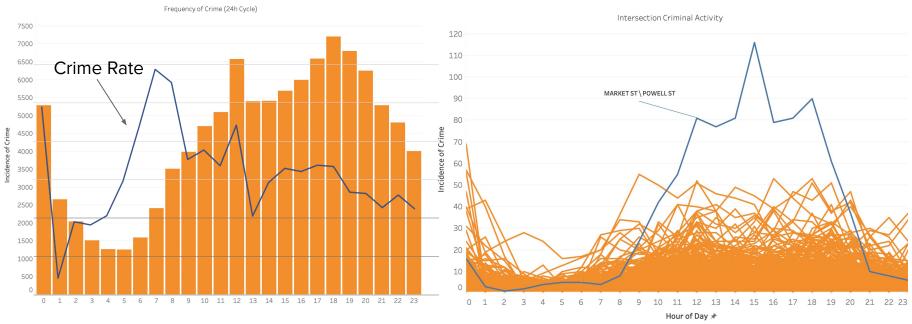
Observations & Insights



How Does Crime Trend Throughout a Day?

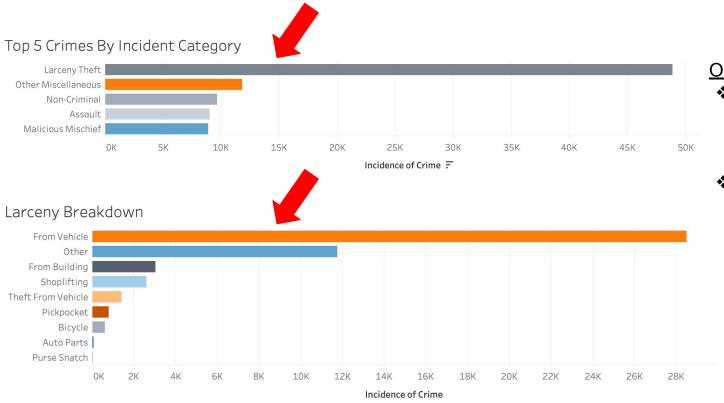
- ♦ 1/3 of Crime Volume occurs between 3PM 8PM
- Crime doubles from 5AM to 8AM

- What's happening at Market St/Powell St?
- Almost 70% of its cases occur 11AM 6PM





Incident Category

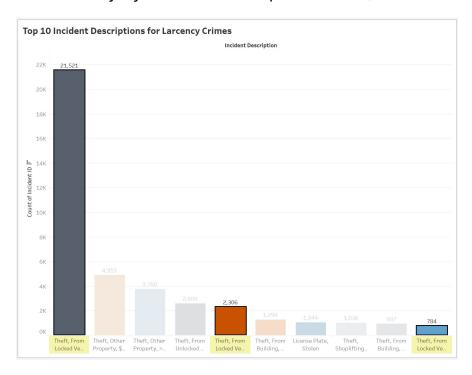


Observations:

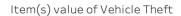
- Larceny Theft
 - > 31.7% of all Incident Categories
- Larceny From Vehicle
 - ➤ 58.3% of all subcategories in Larceny Theft

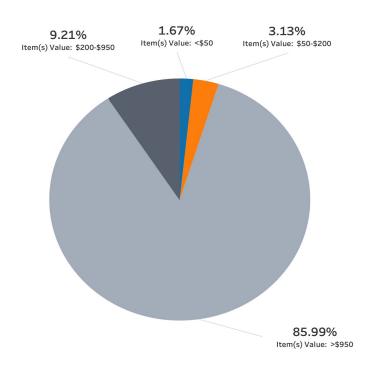


Larceny by Incident Description - Theft, From Locked Vehicles



3 of the top 10 Incident descriptions are "Theft from Locked Vehicles"

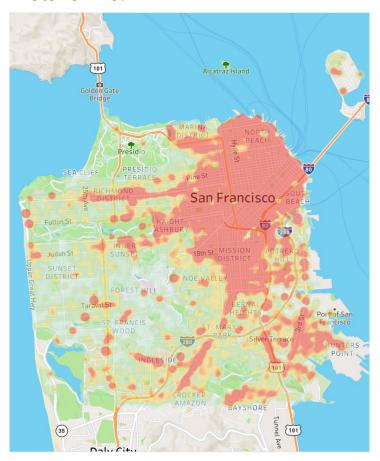




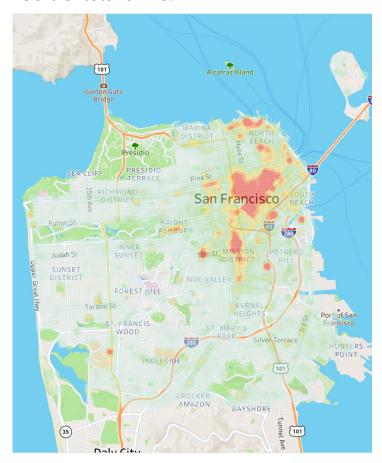
The item(s) left behind in vehicles play a significant role in the likelihood of vehicles being broken into



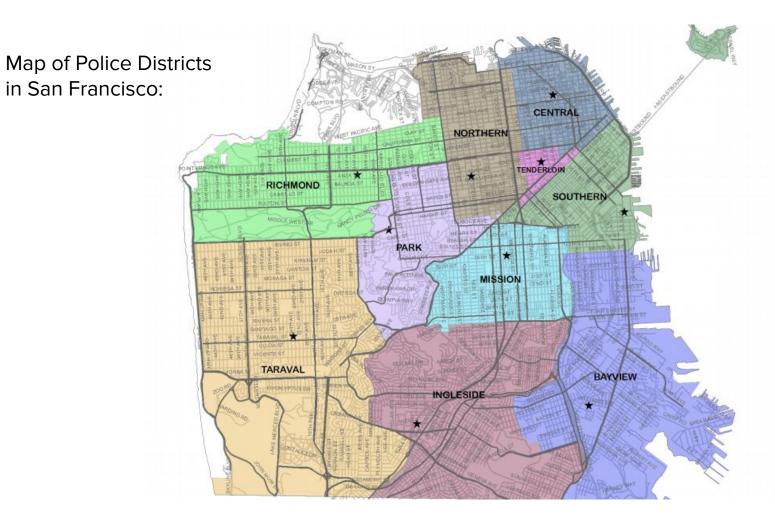
Total crime:



90% of total crime:

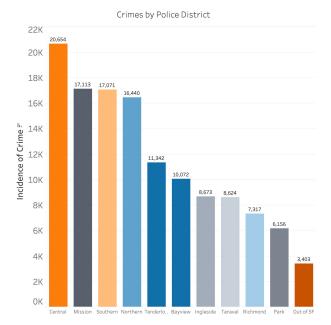




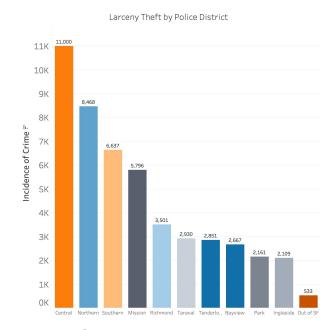




How does crime vary by police district?



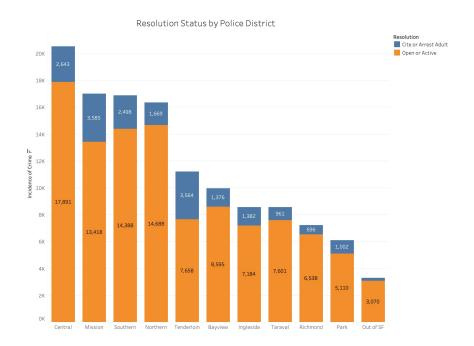
- Districts with highest incidents of crime: Central, Southern, Mission, Northern
- Districts with lowest: Out of SF, Park, Richmond

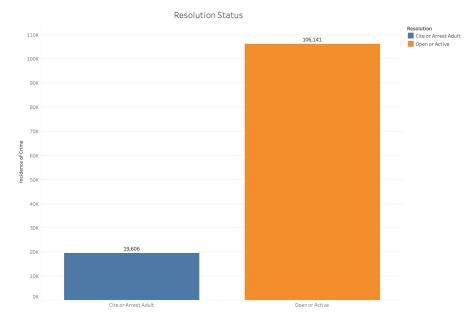


- Central District crime rate
 - Dense population
 - Large homeless population
 - Lots of businesses and foot traffic/tourism



Resolution Status





Central district has the largest amount of open or active cases.

106,000 incidents remained Open or Active over the course of 2018



Conclusion



Conclusion

Time	Incident Category/Subcategory	Police Districts	Resolutions
 +½ of crimes occur 3-8PM Market/Powell st. (shopping area) 	 Larceny Theft Larceny - From Vehicle Stolen item value >\$950 	Central DistrictSupervisorDistrict #6	Open/Active cases > Resolved cases

Limitations

- Year by year changes
- Officer caseload



Recommendations



Recommendations

- Alert the public with warning signs around the neighborhood
 - Larceny From Vehicle crimes are most common during
 3PM 8PM
- Inform the public with warning signs
 - Don't leave valuables in the car
 - Lock your car
 - Invest in dashcams
- **Surveillance cameras** in public parking areas
- Increase officers patrolling at Central District and at certain tourist hotspots like Fisherman's Wharf and Pier 39 where there is lots of foot traffic.





References

- https://www.thesfnews.com/bayview-homicide-being-investigated-by-sfpd/83482 (referenced in slide 4)
- https://www.peoriaheights.org/intheknow/2019/3/23/neighborhood-watch-meeting (referenced in slide 18)



Thank You!

