



Los Angeles Crime Trends: A Focus on Identity Theft

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What's on the Agenda?

- High level breakdown of the **reported** crimes from 2020-2022 (by year and month).
- Take a look at the YoY crime trends of the most and least reported crimes of 2020-2022.
- Take a deeper look at ID theft crime trends and why we chose to look specifically at ID theft



About the Data & Limitations

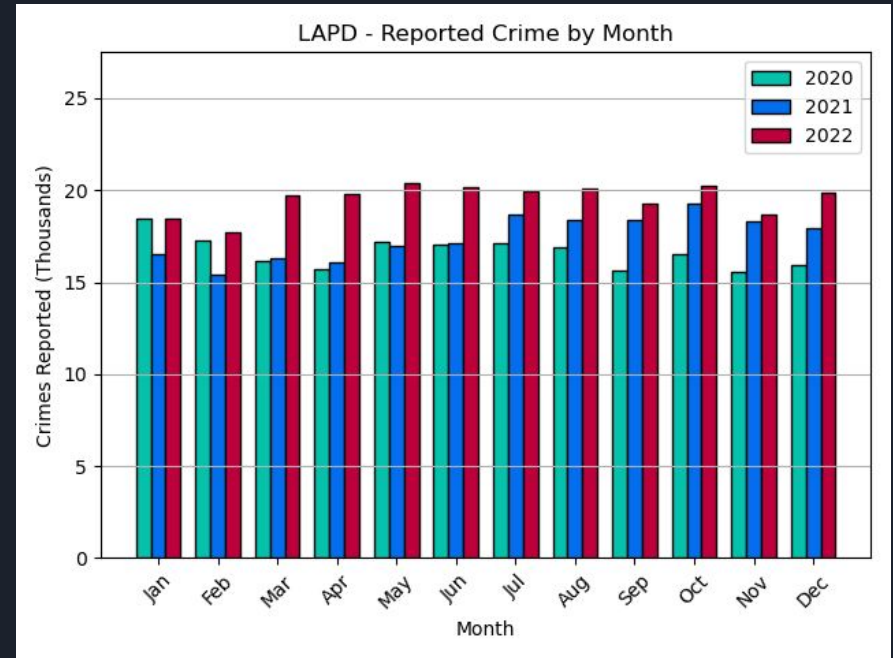
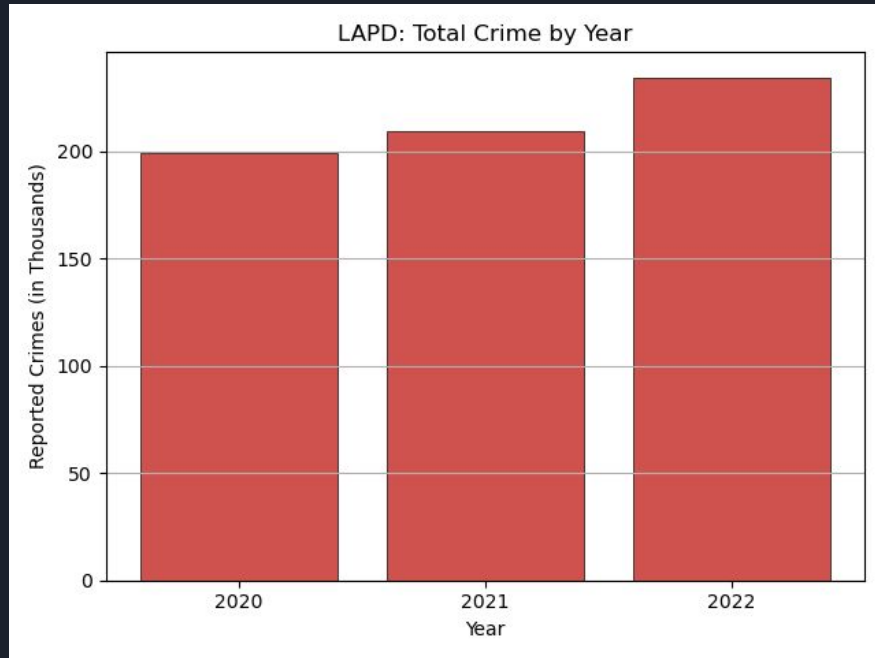
- Dataset comes directly from LAPD / The City of Los Angeles data.lacity.gov
 - Shows crime records in LA from 2020 - present
- We are only looking at *reported* crimes (not looking at outcome of crimes)
- We are only looking at data for the city of Los Angeles, CA
 - Trends may differ across cities, states, and countries
- Our analysis on ID Theft only takes into account records that have ID Theft listed as the *main* crime.
 - There were multiple crime codes possible for a given incident
 - Crimes were listed in descending order of severity, so we are only looking at the 'main' crime




Cleaning/Prepping the data

- The data was sliced into separate .CSV files by Year, so that they would fit under GitHub's file size limit (200 MB).
- For any mapping operations during exploration, we removed entries with a Latitude and Longitude of (0,0)
- For any age breakdowns, we removed ages less than or equal to 0
 - There were a few entries with ages as low as -3

Exploratory Analysis: First Look at Overall Crime by Year/Month





Exploratory Analysis (cont.)

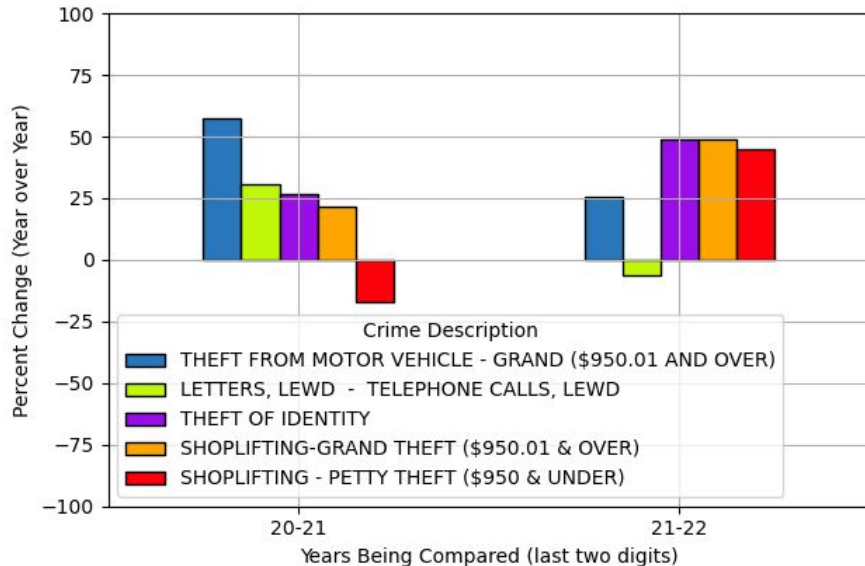
Scope of Exploration

- Analysis was done within the years of 2020 to 2022
 - Data existed from 2023, but we excluded it from our scope
 - We wanted full years only
- Looking at crimes with highest YoY (Year-over-Year) increases and decreases
 - Looked at change from 2020-2021 and 2021-2022 by Crime Description
 - Top and bottom 3 crimes were selected based on YoY % Change for each year
 - Results for highest increase and decrease data were added separately into lists with max 6 entries, and compared against each other
 - Less than 6 crimes would occur if the same crime appears in both YoY comparisons

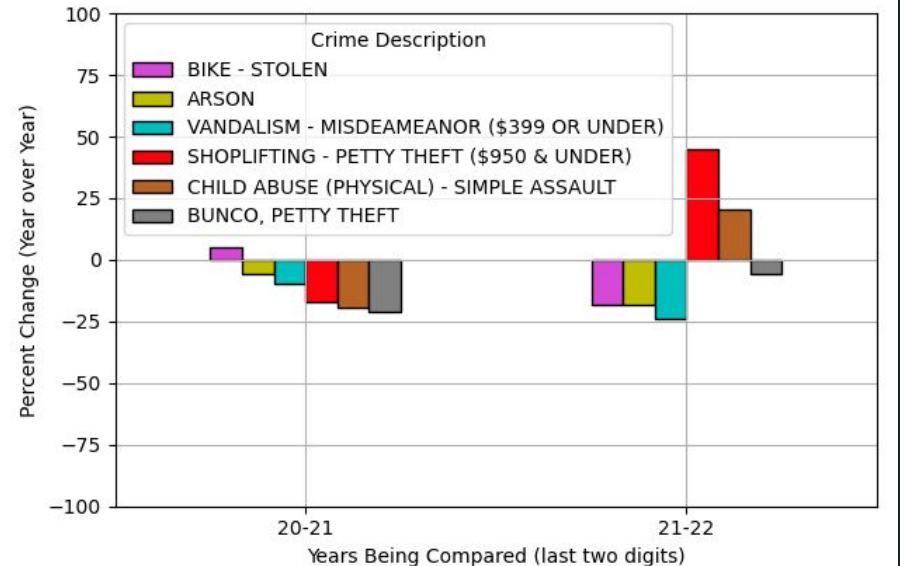
Exploratory Analysis (cont.)

Most Increasing and Decreasing Crimes

LAPD - Most Increasing Crimes (2020-2022)
(Subset of top 3 from both YoY changes, tracked across all 3 years)



LAPD - Most Decreasing Crimes (2020-2022)
(Subset of bottom 3 from both YoY changes, tracked across all 3 years)



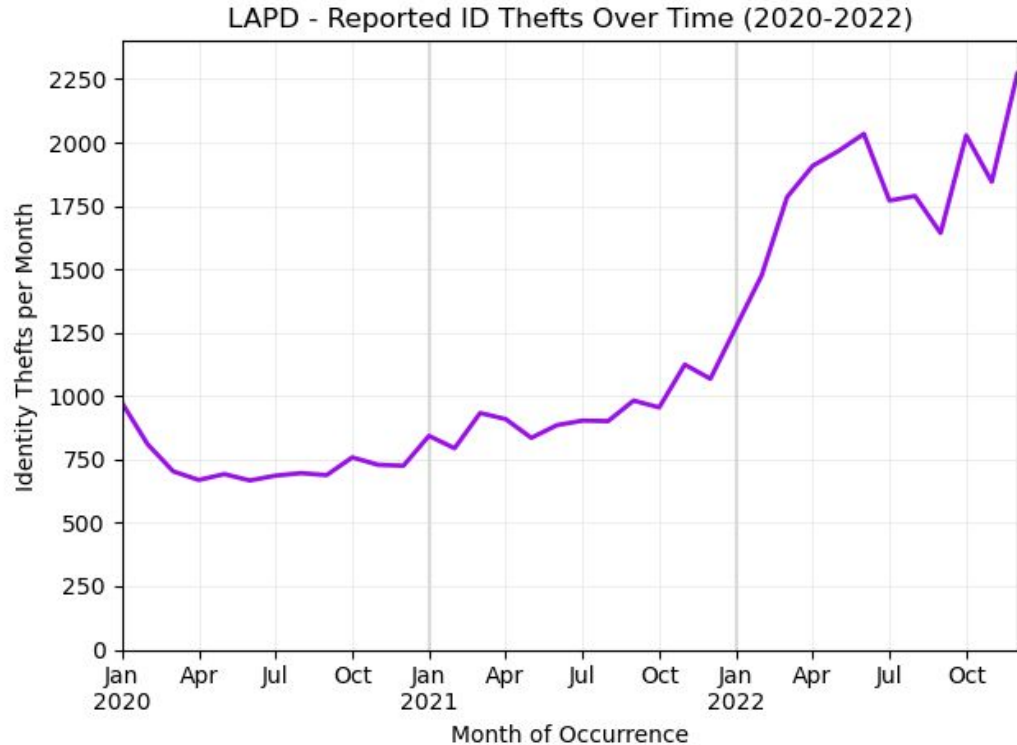


Identity Theft

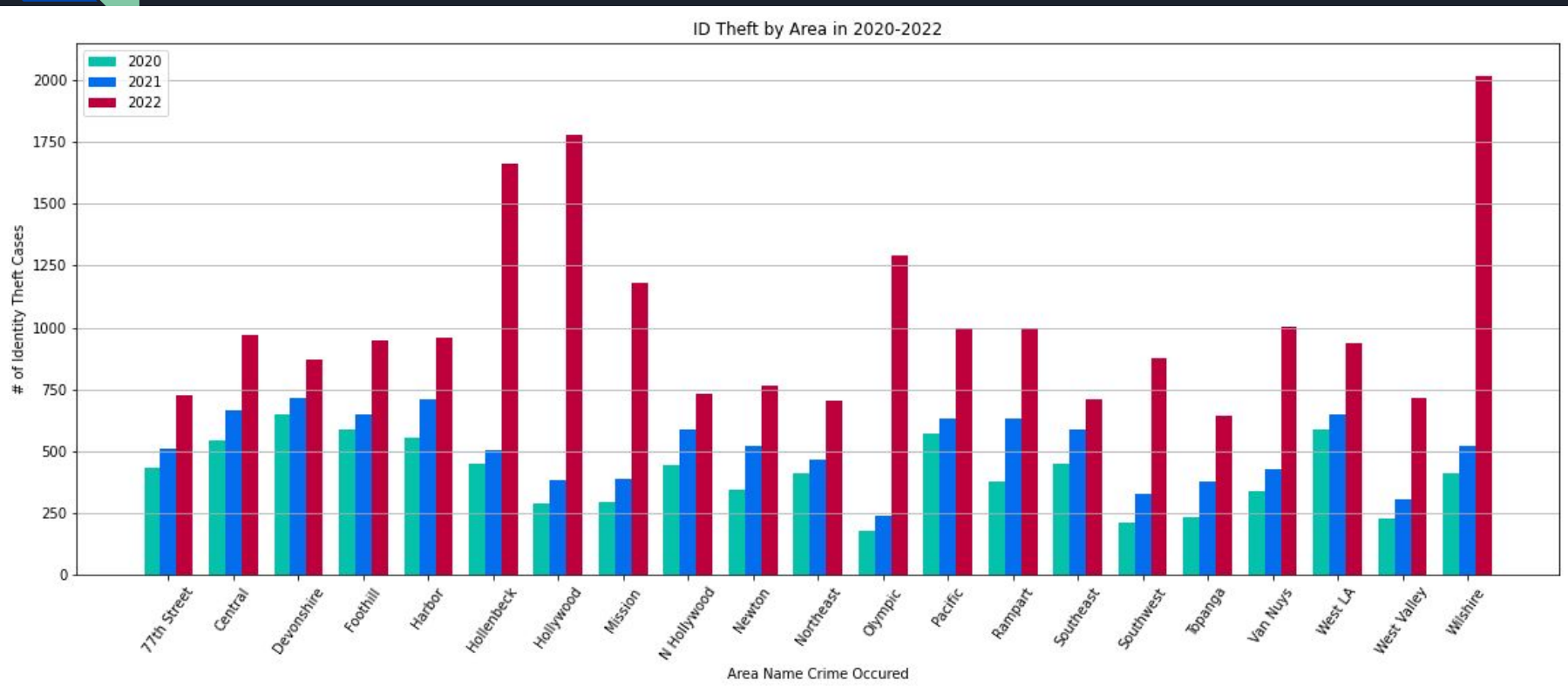
- Why did we choose to take a closer look?
 - One of the top increasing crimes across 3-year data set
 - Seemed interesting
 - Personal experience with subject among group

ID Theft Over Time

- From 2021 to 2022, there was a 50.9% **total** increase in incidents of Identity Thefts

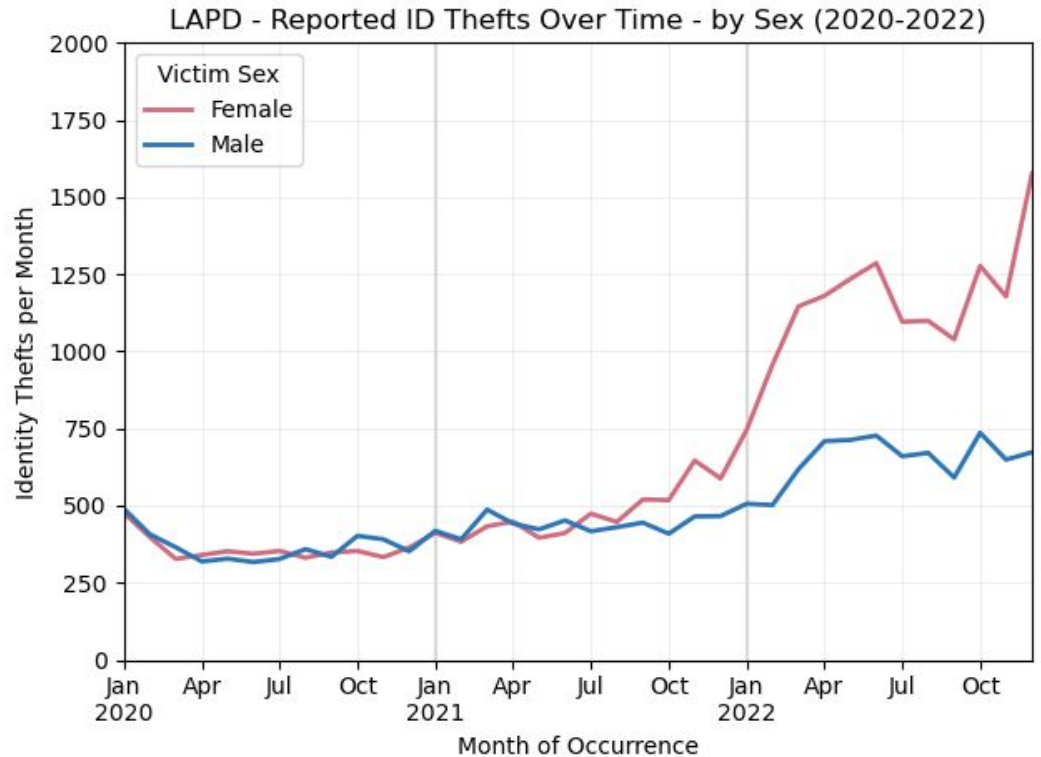


ID Theft By Area (Grouped By Year)

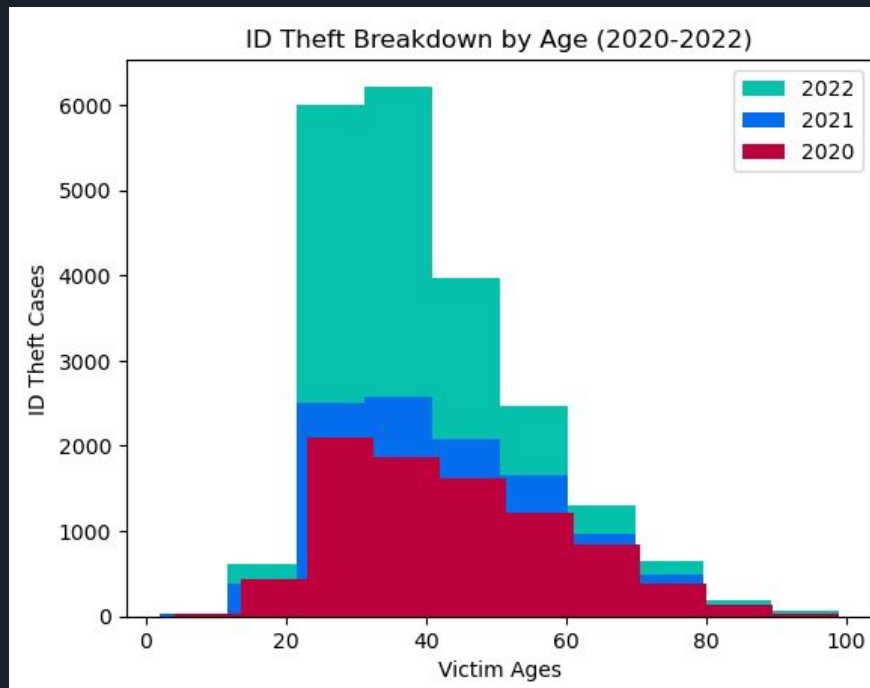


ID Theft by Sex

- From 2021 to 2022, the **total** percent increase of identity thefts was:
 - 21.1% for Male Victims
 - 80.8% for Female Victims



ID Theft by Age





Personal Experience and PSA

- A team member in our group has experienced ID Theft
- The ID Thief:
 - Opened up banking/brokerage accounts
 - Applied to Credit Cards
 - Applied to rent apartments
- Recommended preventative steps from that member's experience:
 - Register user accounts with all 3 Credit Bureaus:
 - Equifax, Experian, TransUnion
 - Use a credit monitoring service and check regularly for unusual activity



Sources / Citations

- Data Source:
 - <https://catalog.data.gov/dataset/crime-data-from-2020-to-present>
 - Breakdown of Data columns
 - <https://data.lacity.org/Public-Safety/Crime-Data-from-2020-to-Present/2nrs-mtv8>