

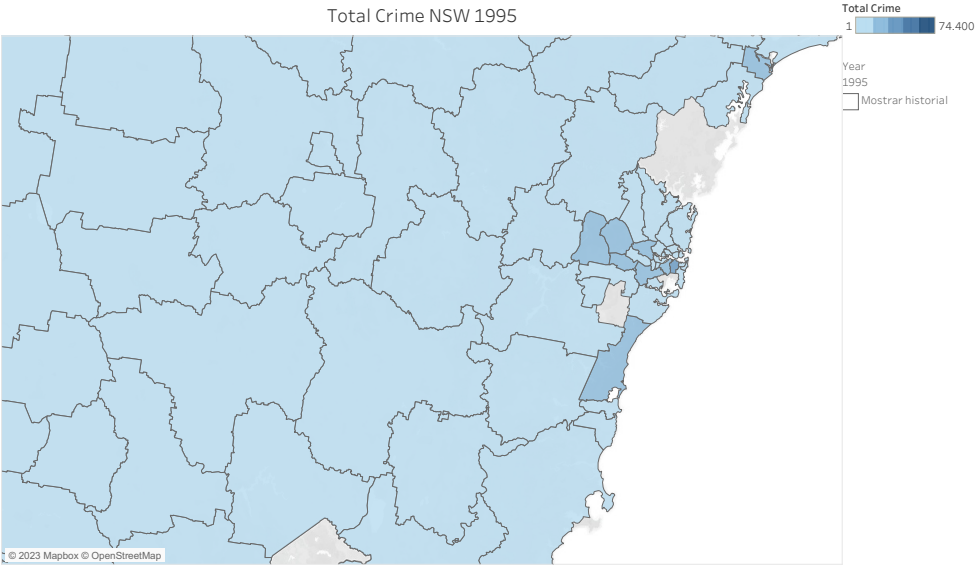
Crime in NSW 1995 - 2022

Crime In NSW	All Crime Rates	Overview	NSW Crime Forecast	Focus on 2021	Linear Regression	Cluster Analysis	Findings and Recommendations
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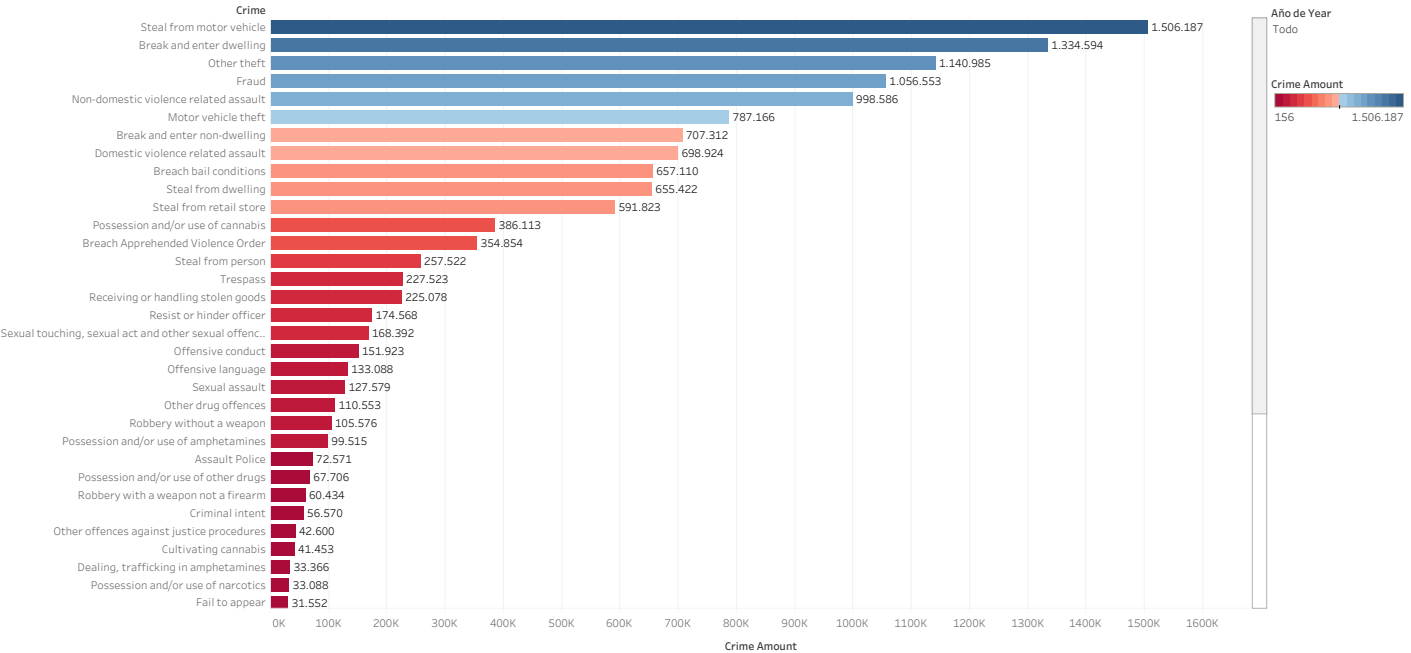
From 1995 to 2022, extensive crime records have been kept for New South Wales, Australia. We will explore:

- How crime rates have changed over the years.
- See the effect of the pandemic on crime.
- Discover if there are any links between socio-economic status and crime.



Crime in NSW 1995 - 2022

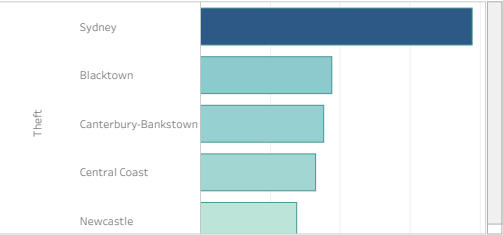
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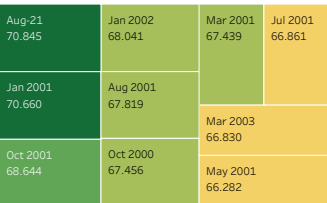
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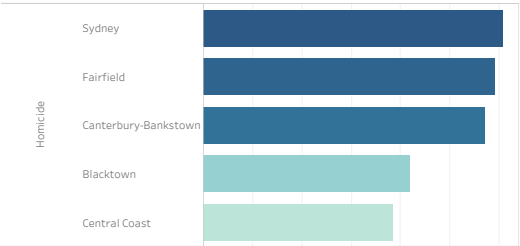
Highest Theft Rate 1995 -2022



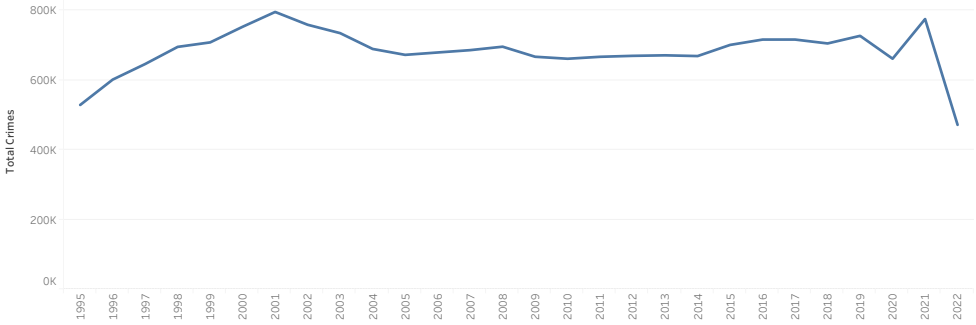
Highest Crime Months



Highest Murder Rate 1995 - 2022



Total Crimes NSW 1995 - 2022



From the Total Crimes graph, we can see that in the first year of the pandemic crime went down, before rising sharply in 2021.

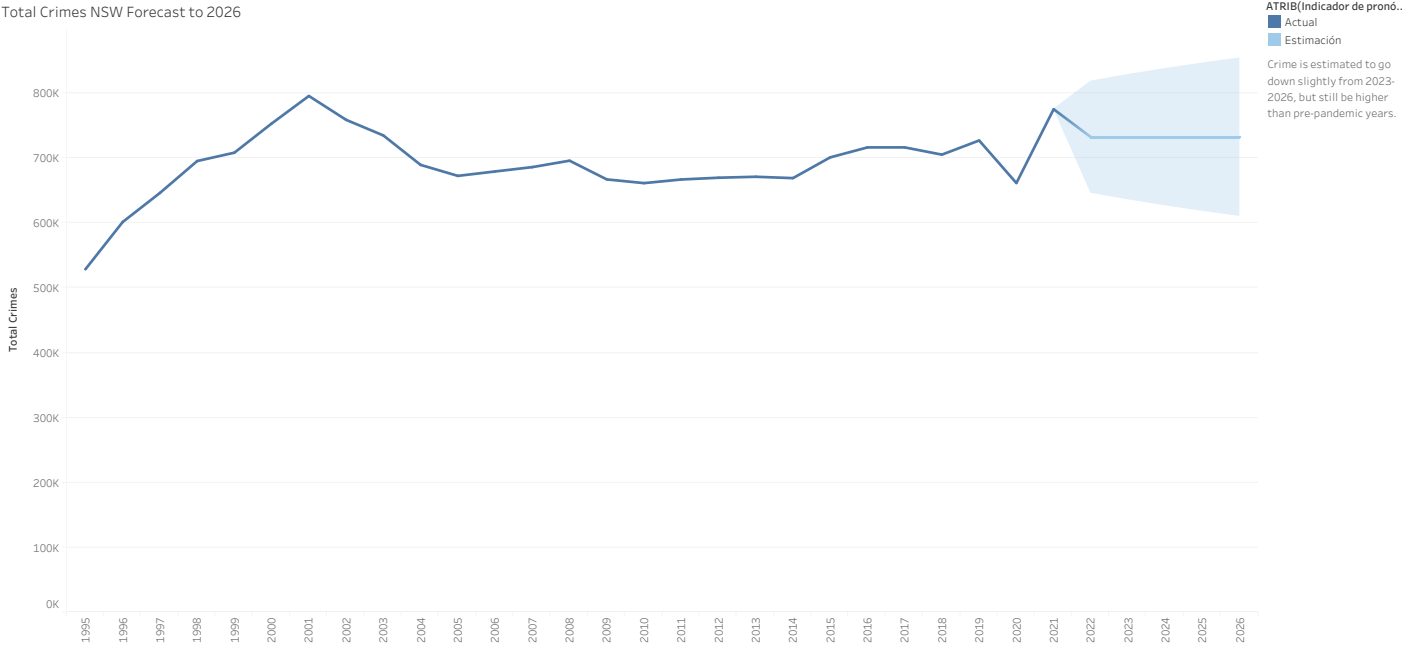
All of the Highest Crime months occurred from 2000-2003, which corresponds to a rise in general crime rates in the larger line chart.

Murder and Theft rates are the highest in Sydney, Blacktown, Canterbury-Bankstown, Central Coast, with the only difference being that Newcastle appears in the Highest Theft Rates and Fairfield in the Highest Murder Rates.

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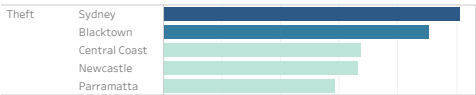
Total Crimes NSW Forecast to 2026



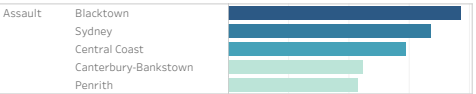
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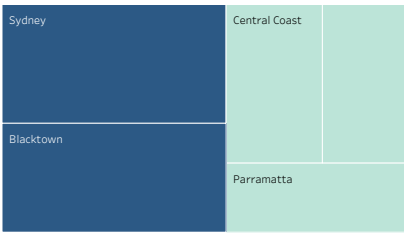
Highest Theft Rate 2021



Highest Assault Rates 2021



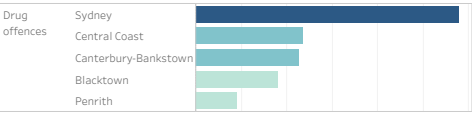
Highest Crime Areas 2021



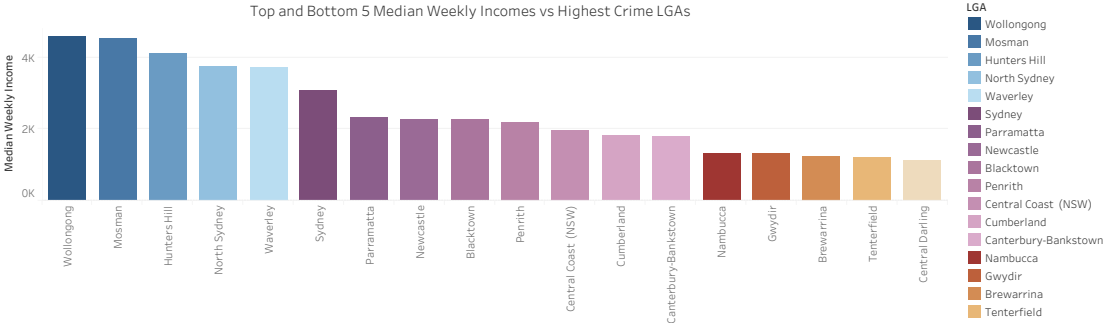
Highest Murder Rate 2021



Highest Drug Offences 2021



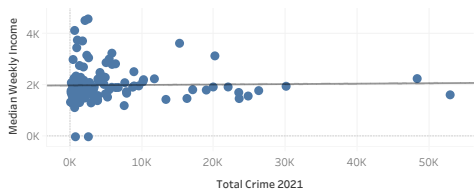
Top and Bottom 5 Median Weekly Incomes vs Highest Crime LGAs



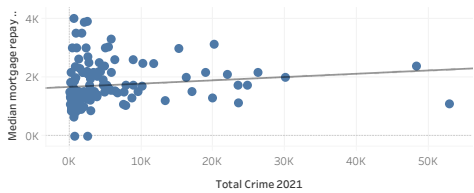
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Linear Regression Weekly Income

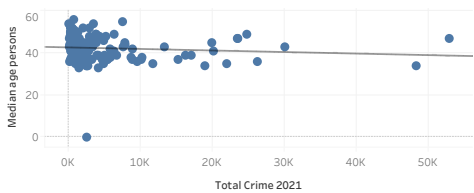


Linear Mortgage Payments

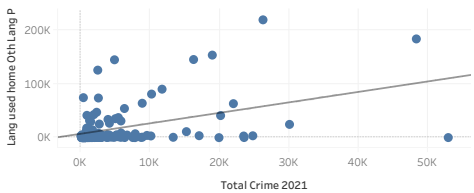


There is no clear correlation between any of the factors that have been considered between the total amount of crime and Weekly Income, Mortgage Payments or Median Age. There is a very slight correlation if the Language is spoken at home is not English, but it is insignificant.

Linear Regression Median Age



Linear Regression Language Spoken at Home - not English



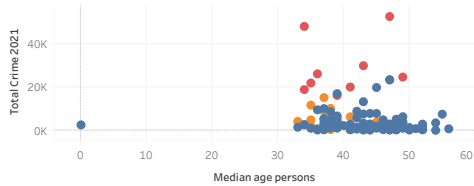
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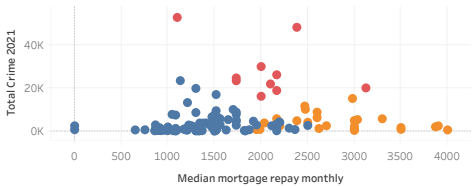
Clusters

- Cluster 1
- Cluster 2
- Cluster 3

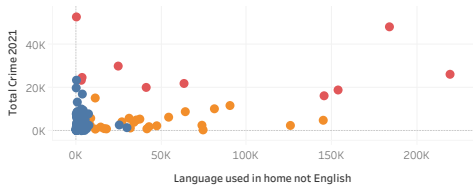
Cluster Analysis Age



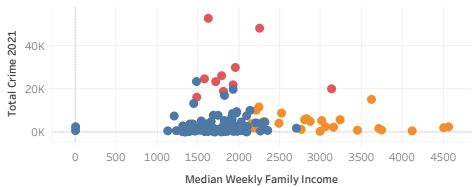
Cluster Analysis Mortgage Payments



Cluster Analysis Non-English Speaking Home



Cluster Analysis Median Weekly Income



A cluster analysis was run to see if any patterns could be recognised that hadn't been seen in the Linear Regression that was done. Once again, no clear patterns were found.

## Crime in NSW 1995 - 2022

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### Findings

- No clear links between weekly income and crime were found.
- There were no patterns found in any of the data explored - crime happens everywhere.
- The LGA's with the most crime were Sydney, Blacktown, Central Coast, Newcastle, Caterbury- Bankstown, Parramatta, Cumberland and Penrith.
- The pandemic had a clear effect on the amount of crime, but then returned to it's path the following year.
- Crime had been creeping up slowly before the pandemic.

### Recommendations

- Increase staffing in all LGAs, but focus on high crime LGA's the most.
- LGA's where there is the most crime should increase community outreach and education to reduce the crime in the area.
- Increase Police presence in the streets to reduce motor vehicle thefts.

#### Data Used

NSW Bureau of Crime Statistics and Research

[https://www.bocsr.nsw.gov.au/Pages/bocsr\\_datasets/Offence.aspx](https://www.bocsr.nsw.gov.au/Pages/bocsr_datasets/Offence.aspx)

Australian Bureau of Statistics

<https://www.abs.gov.au/census/find-census-data/datapacks?release=2021&product=GCP&geography=LGA&header=5>

