**Introduction**

Our group wanted to answer the question of which State is the most ideal place to live in.

The information is relevant to migrants deciding on which state to settle into.

Australians looking to move interstate.

Or if you’re just looking for bragging rights on which State is the best.

The 4 factors that we considered to be relevant to our topic and had accurate data available are:

* crime rates,
* employment opportunities,
* school results and
* housing costs.

**Topic introduction**

When moving interstate, a family’s safety is the number one priority. It would be unwise to move into a community with high rates of crime such as theft, illicit drug use or high violence.

Data from the ABS is used to determine which state is the safest by finding the Crime Offenders results from the last 5 years.

**Cleaning Data**

When looking at the data the quick but incorrect assumption would be that NSW has the highest amount of crime and therefor is the worst state to live in.

But the pie graph on the right shows the Percentage density of Australia and justifies the high number of offences committed in NSW.

To have a more accurate assumption data has first been grouped at a state level. Included only the last 5 years and we are only looking at the offender rate per 100,000 people.

For example, The Northern Territory has an average of 4345 people in 100,000 people would commit a crime.

**Graph1**

A line graph is chosen to represent the data so you can see the progress over 5 years. The Y axis represents the offender rate per 100,000 persons category.

* Northern Territory is the clear State with the highest number of offences. And over the timeline, it has decreased 4.4%. It is also important to note it is the smallest state in terms of population.
* The offender rate for NSW, VIC + WA are all close to the average offender rate of 1832 and are suitable options with larger population densities.
* Australian Capital Territory has the lowest offender rate at 596 showing to be a low crime rate State. It has the smallest population & additionally has the lowest total number of offences at 2234.

**Graph 2**

The bar graph here has been filtered to include the top 3 statistics from each State (other than fraud) which are:

* theft,
* illicit drug usage &
* violent acts

These categories are associated with the higher odds of feeling unsafe in the community compared to other police offences such as vandalism, traffic offences and fraud which I did not include. The key takeaways are:

* SA has the highest illicit drug offences in Australia at 601 in 100,000 committing a drug related offence.
* This shows a small correlation between high illicit drug offences creates more violent acts.
* NT has the highest Acts of violence, but lowest total theft offences compared to other States (except ACT)
* ACT has the lowest offender rates in all 3 categories with a small total of 294 people in 100,000 committing an offence.

**Interesting Statistics**

72% of total offenders are male

The Median age of offenders are aged 31.

In Victoria there were over 32,000 offences related to CoVid-19 compared to the next highest State in NSW with less than 3000 offences.

**Conclusion**

The principle offence type is mainly violence & illicit drug offences which is highest in NT, QLD and SA.

ACT is the safest State in Australia with the lowest offence rate per person