

Airline vs Motor Vehicle Safety Data Summary

The results published in the dashboard prove air travel is, in fact, very safe in comparison to other ways to travel like a car. As shown in the 2019 car crash data alone, it indicates that there were over 33k car crashes. Compared to that of incidents by the airline industry which is a little over 600 from 1985 to 2014.

The primary goal is to show the trend of airline crashes to show that airline travel is safe today compared to the early days of airline travel. In addition, I have also used auto crash data to show how low the airline crash fatalities are compared to auto crash fatalities.

In The United States of America, there were over 74k individuals who were directly impacted by the car crash, meaning death, injury, or auto damage. I took Drunk and drive cases are adding to the fact that it is one of the leading causes of accidents. Compared to the flights from 1985 to 2014, we only saw a small number of deaths, which was a little over 9k in almost 30 years.

Another interesting data point to look at provided by these graphs is that the risk of an incident or accident occurring is much smaller than a car accident. However,

We need to note that an incident or accident from a plane for obvious reasons will cause a more significant impact on several people. Hence the reason we would see a more substantial number of fatalities compared to accidents/incidents. This is because where a car may hold one to five people, a plane may on any given day have over 100 people on the flight. Thus, it would create a more significant chance for a higher number of individuals to be impacted than a car accident, as you can see in this direct comparison that air travel is the much safer option of the two.

We utilized bar graphs to easily visualize this data and make it simple to read and understand. This is because it provided the best clean look for the data we are presenting. A treemap was also used to show the comparison of fatalities .r.t airlines between the given periods. Treemaps are eye catchy in terms of accessing the intensity of the damage.

Datasets:

- **Main File:** airline-safety_csv.xlsx
- **Supplemental Data :** Accidents_2019.csv

References:

Fivethirtyeight, . (n.d.). *fivethirtyeight/data*. GitHub.

<https://github.com/fivethirtyeight/data/blob/master/airline-safety/>.

N. H. T. S. A. (2016, December 14). *FARS Data - dataset by nhtsa*. data.world.

<https://data.world/nhtsa/fars-data/>.