

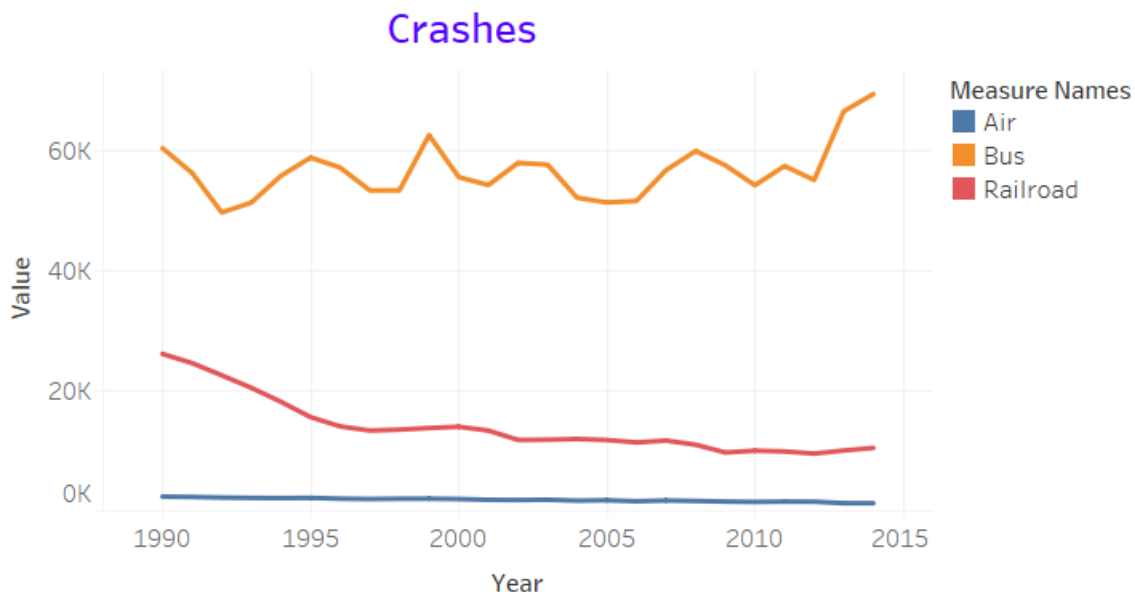
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Milestone 3: Blog Post Weeks 7 and 8

Is Air Travel Really Safe?

What is the safest way to travel: Air, Railroad or Bus? For majority of commuters, travelling by road in a bus or a car is the way of day to day transportation. There are many people who have never traveled via airlines or railroad because they prefer to commute by road using their personal auto or by a bus. There are many people who have fear of traveling via airlines and railroad, and they don't believe that traveling by air or rail is safer than traveling by bus. It is estimated that the odds of dying in a plane crash are **1 in 9,821**. For a better perspective, that is 1 fatal accident per 16 million flights. In comparison, the odds of dying in a car crash are approximately 1 in 114 accidents. These odds are way higher than compared to traveling by a plane (lesserlawfirm.com).

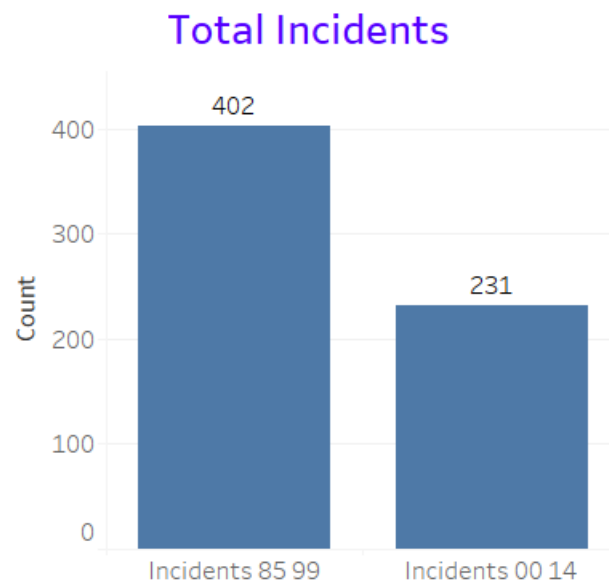
To analyze this topic further, I compared the crash data of Air, Bus and Railroad. The graph below shows the crash data of Air, Railroad and Bus from year 1990 to year 2015. As you can see in the graph, that the Air crashes are the lowest in all three categories in the 25 year long timeframe. Railroad crashes are second highest with approximately 25,000 in year 1990 which was reduced by half through year 2015. Bus Crashes are the all time high from year 1990 to year 2015. Bus data shows that in year 1990, crashes were approximately 60,000 and in year 2015, bus crashes were more than 60,000.



These numbers clearly indicate that air travel is the safest way of travel compared to bus travel or rail travel. With growing technology, the air travel has become the safest way of traveling.

Another data set supports the fact that the airline safety is increasing over the years. Airline Safety data from year 1984 to year 2014 was collected for all international airlines to determine the number of incidents, the number fatal accidents, and the number of fatalities.

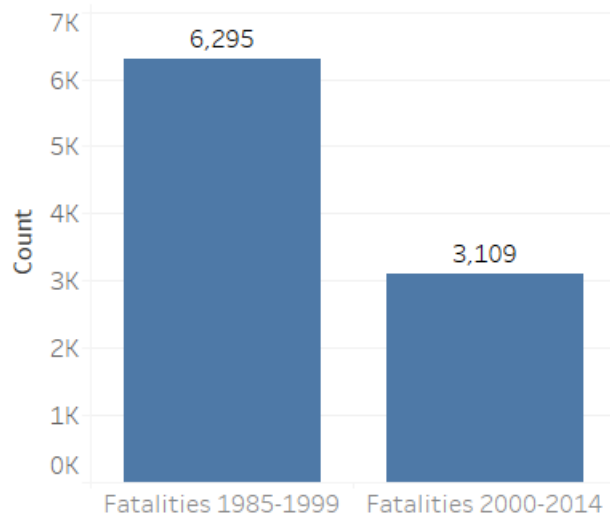
The graph below shows total Airline Incidents which are divided between years 1985 to 1999 and years 2000 to 2014. Purpose of this graph is to see how many total Incidents were reduced between these timeframes. In years 1985 to 1999, there were 402 total Incidents which were reduced to 231 in years 2000 to 2014 and shows that the total Incidents were reduced almost by half.



Incidents 85 99 and Incidents 00 14. The data is filtered on Action (Airline), which keeps 56 members.

Another measure that was examined in the same timeframe was total fatalities. The graph shows total Fatalities in years 1985 to 1999 and years 2000 to 2014. Once again, it is proven that the total fatalities were reduced to almost half in these two timeframes. Total Fatalities in years 1985 to 1999 were 6,295, and in years 2000 to 2014, total fatalities were 3,109.

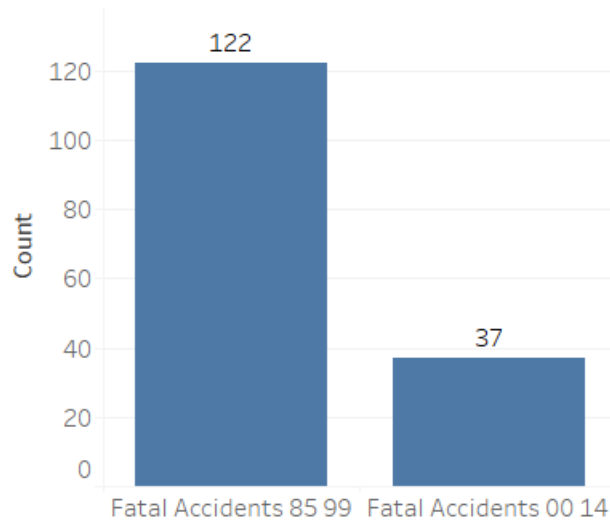
Total Fatalities



Fatalities 1985-1999 and Fatalities 2000-2014. The data is filtered on Action (Airline), which keeps 56 members.

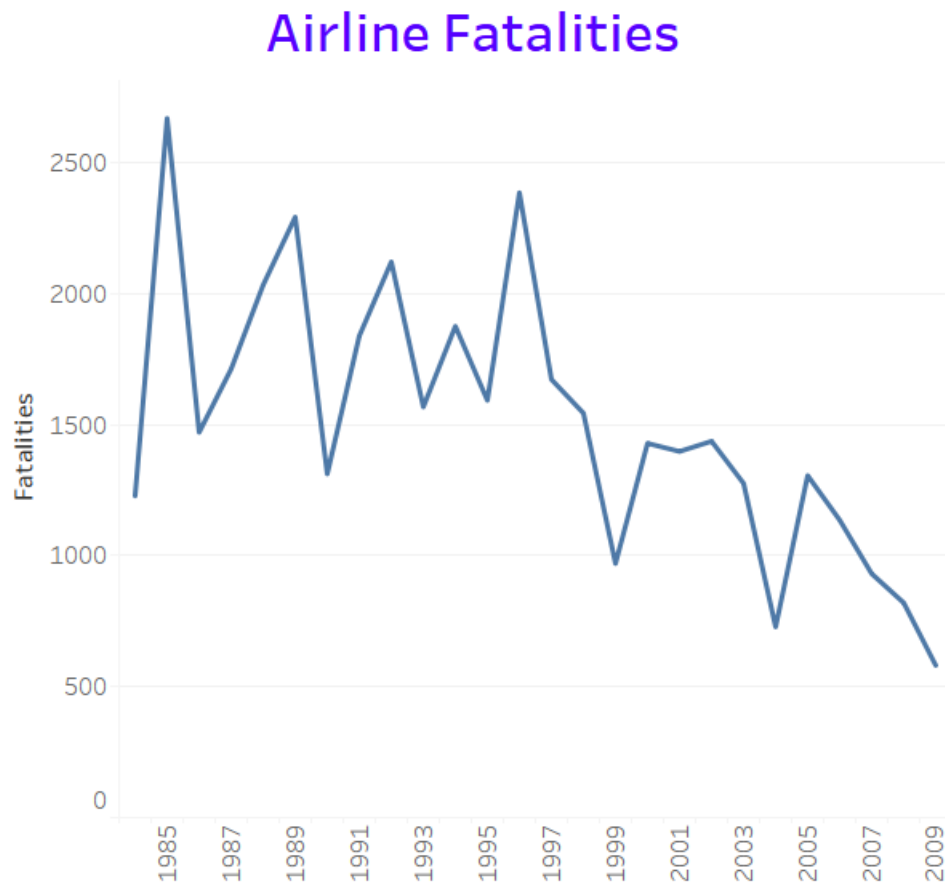
Fatal Accidents was the third measure that was analyzed similarly. From years 1985 to 1999, there were total of 122 fatal accidents reported which were drastically dropped to 37 in years 2000 to 2014.

Total Fatal Accidents



Fatal Accidents 85 99 and Fatal Accidents 00 14. The data is filtered on Action (Airline), which keeps 56 members.

Following graph shows the trend in the airline fatalities. While the fatalities were fluctuating through years The fatalities have reduced significantly from years 1984 to 2009, the overall trend was that the fatalities have decreased over time.



The trend of sum of Fatalities for Date Year. The view is filtered on Date Year, which keeps 26 members.

All the data above proves that airline safety has increased over time due to technological improvements. Compared to other ways of traveling, air travel is the safest way of traveling.

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