# Arline Safety Infographic Summary

Goal of this exercise is to prepare an infographic to show the key findings that show case the safety in air travel.

## Data Sources:

1. Main data: Airline Safety

Data for 56 airlines that were in the global top 100 as of December 2012 and which have operated continuously since Jan. 1, 1985.

|  |  |
| --- | --- |
| **Column** | **Details** |
| airline | Airline (asterisk indicates that regional subsidiaries are included) |
| avail\_seat\_km\_per\_week | Available seat kilometers flown every week |
| incidents\_85\_99 | Total number of incidents, 1985–1999 |
| fatal\_accidents\_85\_99 | Total number of fatal accidents, 1985–1999 |
| fatalities\_85\_99 | Total number of fatalities, 1985–1999 |
| incidents\_00\_14 | Total number of incidents, 2000–2014 |
| fatal\_accidents\_00\_14 | Total number of fatal accidents, 2000–2014 |
| fatalities\_00\_14 | Total number of fatalities, 2000–2014 |

Data Details:

1. Supplemental data: Auto Fatalities

Data showing number of people killed and injured in fatal collisions.

|  |  |
| --- | --- |
| **Colum** | **Details** |
| Year | Year of incident |
| Killed | Number of fatalities |

Data Details:

1. Supplemental data: Airline Fatalities

Data showing number of people killed in fatal crashes.

|  |  |
| --- | --- |
| **Column** | **Details** |
| Year | Year of incident |
| Fatalities | Number of fatalities |

Data Details:

1. Supplemental data: Combined Fatalities

Data showing the number of people killed due to both auto and airline crashes in an year.

|  |  |
| --- | --- |
| **Column** | **Details** |
| Year | Year of incident |
| Fatalities | Number of fatalities |
| Category | Category of the crash - airline/auto |

Data Details:

1. Supplemental data: Compare 1981-2020.xlsx

Data showing the number of people killed due to both auto and airline crashes in an year.

Data Details:

|  |  |
| --- | --- |
| **Column** | **Details** |
| Years | Category of the year, either 1981-2000 or 2001-2020. |
| Airline Fatalities | Number of fatalities due to air travel |
| Auto Fatalities | Number of fatalities due to road travel |

## Infographic Details:

### Overview:

I have used PPT to prepare the infographic. I have used several numbers from the FAA site to populate the top portion of the infographic to show how widely and effectively the traffic is being handled in current world.

For the bottom portion of the graph I have shown the trend line for number of incidents using the data that was collected in previous weeks.

I have also added comparison details between the airline and auto fatalities to show the high decline rate in fatalities in case of air travel.

I have referred to several federal sites to get the information about the fatalities in different modes of transportation also to get more details around the current monthly stats for number of passengers and number of airlines active today. I have considered numbers from January 2020 to get the true picture before the COVID-19 situation.

## References:

* airline\_fatalities.xlsx - Downloaded from <http://www.baaa-acro.com/statistics/death-rate-per-year>, found from one of the supporting links provided.
* auto\_Fatalities.XLS - Downloaded from <https://cdan.nhtsa.gov/SASStoredProcess/guest>, found from one of the supporting links provided.
* <https://www.tsa.gov/coronavirus/passenger-throughput?page=1>
* <https://www.faa.gov/air_traffic/by_the_numbers/>
* <https://www.bts.gov/content/air-passenger-travel-departures-united-states-selected-foreign-countries-thousands>
* <https://data.bts.gov/Research-and-Statistics/Monthly-Transportation-Statistics/crem-w557>
* <https://www.faa.gov/air_traffic/by_the_numbers/>