

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.

Data Details:

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

2. Supplemental data: Auto Fatalities

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

Data Details:

Colum	Details
Year	Year of incident
Killed	Number of fatalities

3. Supplemental data: Airline Fatalities

Data showing number of people killed in fatal crashes.

Data Details:

Column	Details
Year	Year of incident
Fatalities	Number of fatalities

4. Supplemental data: Combined Fatalities

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

Data Details:

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

5. 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/