

Airline Safety Blog – Summary

Abstract: The goal of this blog summary is to tell a story to the audience with visualization of six different metrics to show airline travel is still one of the safest ways to 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

2. Supplemental data: Car Fatalities

Column	Details
Year	Year of incident
Fatalities	Number of fatalities
Resident Population (Thousands)	Total population
Fatality Rate per 100,000 Population	Fatality rate
Licensed Drivers (Thousands)	Number of licensed drivers
Fatality Rate per 100,000 Licensed Drivers	Fatality rate per licensed driver
Registered Motor Vehicles (Thousands)	Number of registered vehicles
Fatality Rate per 100,000 Registered Vehicles	Fatality rate per registered vehicles

Fatality Rate per 100 Million VMT	Fatality rate per 100 M
Vehicle Miles Traveled (Billions)	Vehicle miles traveled in that year

3. Supplemental data: Airlie Fatality by Year

Column	Details
Year	Year of incident
Fatalities	Number of fatalities
Rank	Ranking based on highest number of fatalities

4. Supplemental data: Aviation Safety Network Statistics

Column	Details
Country	Country
accidents	Number of accidents
fatalities	Number of fatalities
Ground fatalities	Number of fatalities at ground

5. 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
Car Fatalities	Number of fatalities in Car crash
Airline Fatalities	Number of fatalities in airline crash

Overview:

I have used blogger to prepare the blog post. I have considered the primary goal to show the trend of the airline crashes to show that the airline travel is safe today compared to early days of airline travel. I have also used auto crash data to show how low the airline crash

fatalities are compared to the auto crash fatalities. I have also shown what are the safest airlines to travel.

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

Reference:

Airline Fatality by Year.xlsx - Downloaded from <http://www.baaa-acro.com/statistics/death-rate-per-year>, found from one of the supporting links provided.

Car Fatalities.XLS - Downloaded from <https://www-fars.nhtsa.dot.gov/Trends/TrendsGeneral.aspx>, found from one of the supporting links provided.

Geographical Data - https://aviation-safety.net/statistics/geographical/worst_geo_loc.php

<https://data.bts.gov/Research-and-Statistics/Monthly-Transportation-Statistics/crem-w557>

Github: <https://github.com/saurabhbiswas1985/DSC640>