

Airline Safety Infographic – Summary

Abstract: The goal of this infographic summary is to present the key findings in front of audience that shows air travel is a safe medium of transportation.

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: Monthly Transportation Statistics

Column	Details
Date	Months and Date
Air Safety - General Aviation Fatalities	Number of fatalities in Airline
Rail Fatalities	Number of fatalities in Rail Accidents
Highway Fatalities	Number of fatalities in Cars

5. Supplemental data: Combined Fatalities

Data showing the number of people killed due to both auto and airline crashes in a 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 power point to prepare the infographics. 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 monthly transportation data to show how low the

airline crash fatalities as compared to the rail fatalities between 1985-2020. I have also shown a trend comparison between airline and auto fatalities. I have used several statistics from FAA website to show how widely and effectively airlines are used in modern era.

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 shown the trend of declining trend of airlines fatalities with advancement of technology over the years. I have also pointed out the top five airlines with maximum number of accidents in recent times and travelers need to watch out for those airlines.

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>

https://www.faa.gov/air_traffic/by_the_numbers/

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