

DSC 640 Project

Home	About	My Blog	Contact	   
------	-------	---------	---------	---

[All Posts](#) [Travel](#) [My Top 5](#) [Art & Culture](#)

a day ago 3 min read

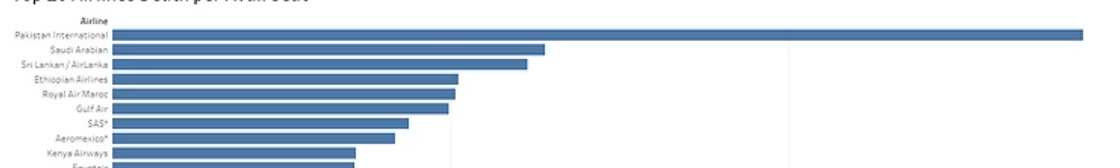
⋮

Is Airline Still the Safest ?

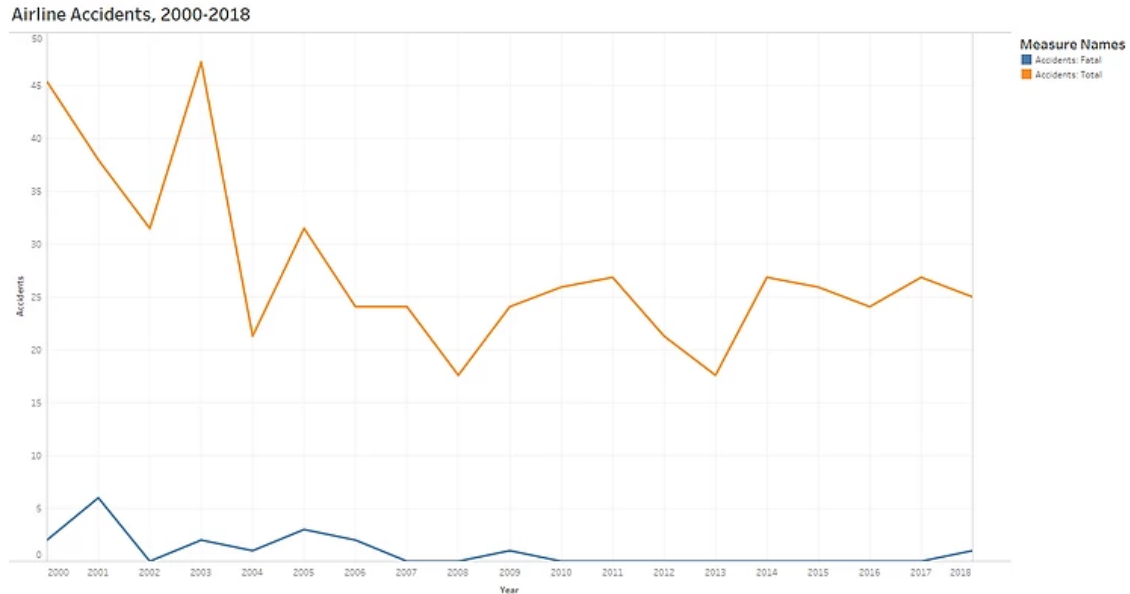
Recently, great concerns have been raised to the safety of airlines by public majorly due to the suspension of Boeing 737 Max models globally in last year, in the wake of the deadly plane crash in Ethiopia that killed all 157 people on board in March, 2019.[1] In January 2020, a Boeing 737-800 operating as Ukraine International Airlines Flight 752 from Tehran, Iran to Kyiv, Ukraine, crashes shortly after takeoff from Tehran Imam Khomeini International Airport, killing all 167 passengers and 9 crew.[2] In February 2020, a Boeing 737-800 operating Pegasus Airlines Flight 2193 from Izmir skids off the runway on landing at Istanbul Sabiha Gökçen International Airport, and breaks into pieces. Three people were killed and 179 injured.[3] These tragedies raised great concern over the airline safety, as it looks like more and more fatal airline accidents are happening. Is airline still the safest mean of transportation?

It is normal you have this concern. There are airplane accident records all over the world. Overall, United States based airlines have fewer aviation accidents.

Top 10 Airlines Death per Avail Seat



How many airline accidents occurred each year in United States?



Source: Airlines for America

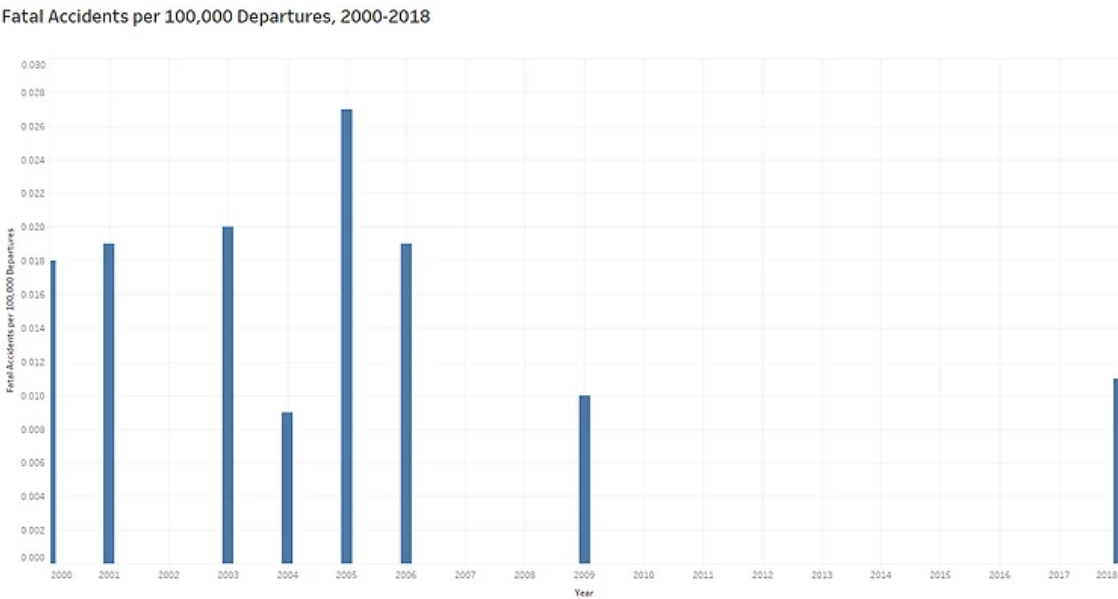
What is the chance to have an airplane accident?

16,405,000 Flights Flew Each Year in United States

10,000,000+ Scheduled Passenger Flights Each Year in United States

Source: Federal Aviation Administration

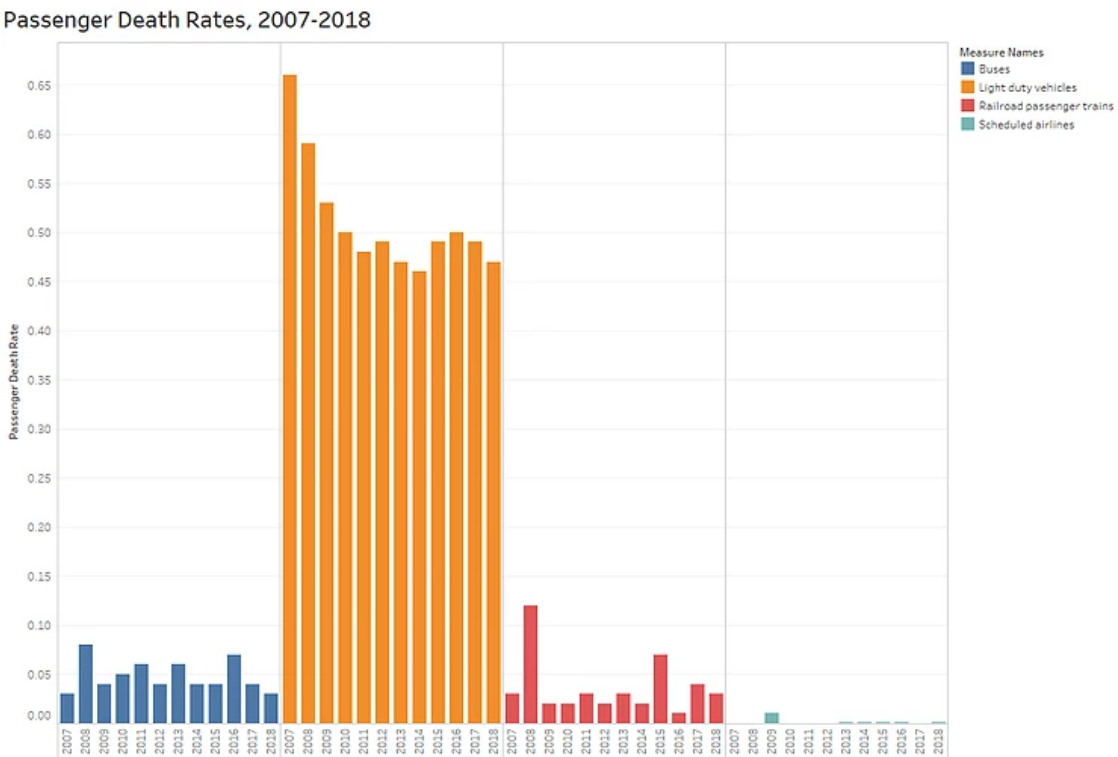
In the past ten years, there was no fatal accident in most of the years, for the years having fatal accidents, many recorded with only one fatal accident. In sharp contrast, 16,405,000 flights take off from the U.S. and land safely to all over the world each year. Let's take a look at the official statistics.



Source: Airlines for America

As you can see from the graph, the probability of having a fatal accident for every 100,000 departures is less than 3%. And it has not happened in recent years. Nevertheless, you might say that there are still some accidents.

What's the status of other transportations?

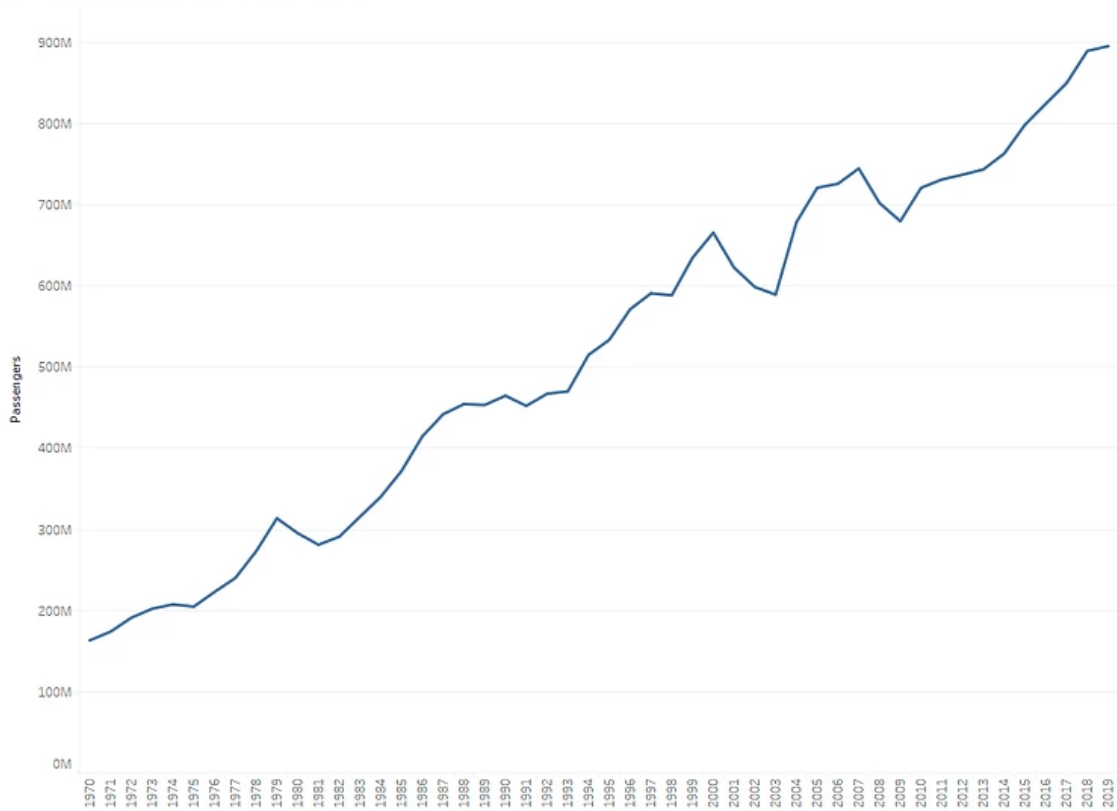


Source: Injury Facts

As compared to buses, trains and cars, airplanes has the least passenger death rate. Specifically, the passenger death rate is much lower than the others.

Is Americans' confidence in airline safety decreasing?

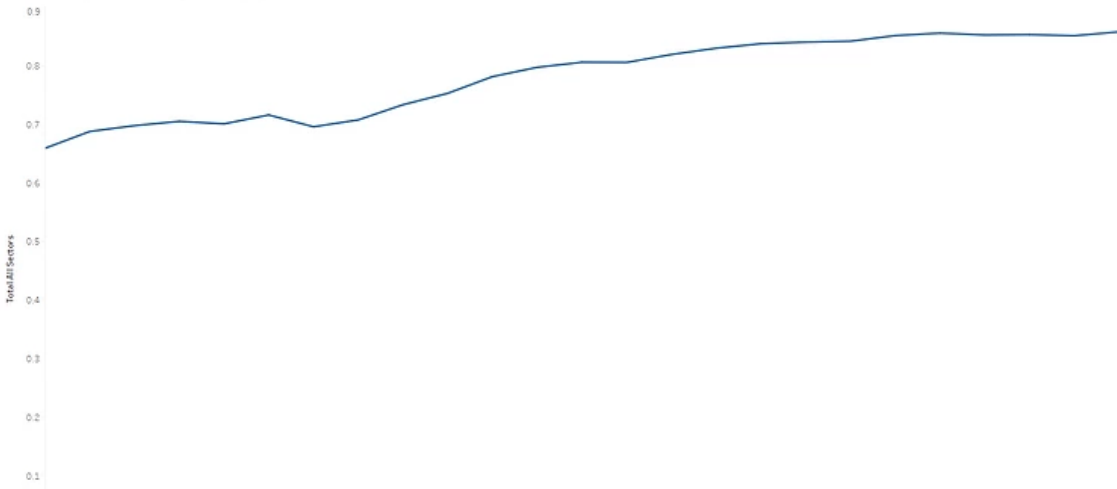
Airline Passengers, 1970-2019



Source: Nation Master

This graph displays the total number of air passengers in the U.S. from 1970 to 2019. The overall trend is rising. Especially, in the recent decade passengers continued to grow. More and more people chose to travel through air.

Domestic Load Factor, 1995-2019



Source: Airlines for America

Passenger load factor can be used to evaluate the efficiency of transportation providers to fill seats and generate fare revenue. [4] This line plot displays that passenger load factor is increasing. Most people have their approval of the airline safety and are willing to choose airplanes for travel.

Summary

In closing, United States based airlines are not among the airlines having high death per seat rate. The possibility to have a fatal accident through air is extremely low (less than 3% per 100,000 departures). And the death rate of airline is much lower than that of other means of transportation. Airline is still regarded as the safest mean of transportation, as witness by the increase of passengers and passenger load factor, respectively.

References:

[1] Robyn Kriel and Tara John. "[No survivors in Ethiopian Airlines Boeing 737 crash near Addis Ababa](#)". *CNN*. Retrieved 2019-03-10.

[2] "Ukrainian Boeing plane crashes in Iran, 176 people dead". *CNN*. Retrieved 8 January 2020.

[3] "[Three dead, 179 hurt as plane skids off runway](#)". *BBC News*. 6 February 2020.

[4] Passenger load factor.

https://en.wikipedia.org/wiki/Passenger_load_factor#:~:text=Passenger%20load%20factor%20C%20or%20load,seats%20and%20generates%20fare%20revenue.



This site was designed with the **WIX**.com website builder. Create your website today.

Start Now



Drop Me a Line, Let Me Know What You Think

Name

Email

Type your message here...

Submit