Boat Safety

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# Which Domain?

# [*https://www.bts.gov/content/personal-watercraft-safety-data*](https://www.bts.gov/content/personal-watercraft-safety-data)

# *The above data set provides information regarding watercraft safety since the 1980s. It allows you to gain a better understanding of the data over the years. Very good and detailed data set to work with.*

[*https://uscgboating.org/statistics/accident\_statistics.php*](https://uscgboating.org/statistics/accident_statistics.php)

***Boating accident data set that breaks down specific boats and types. It goes back to 2004. This looks to be the official boating data record. This is a good resource to utilize to get a better understanding of the overall boating accidents and the various types.***

[***https://www.travelers.com/resources/boating/three-of-the-most-dangerous-boating-conditions***](https://www.travelers.com/resources/boating/three-of-the-most-dangerous-boating-conditions)

***The above site gives details about boating safety and the best conditions to boat in. It allows us to understand the conditions that would be dangerous. Thus, giving us a better understanding of boating. It paints a broader picture for us to understand boating accidents.***

[***https://www.discoverboating.com/ownership/safety/tips***](https://www.discoverboating.com/ownership/safety/tips)

***The above provides more information regarding boating safety. It again allows for more understanding of the industry as whole. It will be a good reference point to utilize to gain more knowledge on the topic.***

[***https://www.godownsize.com/boat-safety-compared-airplanes-cars/#:~:text=Are%20Boats%20Safer%20Than%20Airplanes%20And%20Cars%3F,road%20accidents%20per%20year%20globally***](https://www.godownsize.com/boat-safety-compared-airplanes-cars/#:~:text=Are%20Boats%20Safer%20Than%20Airplanes%20And%20Cars%3F,road%20accidents%20per%20year%20globally)***.***

***The above provides interesting facts regarding boat safety. It also allows us to make comparisons between boating, planes, and cars. This allows us for a better overall viewpoint of safety in the market as a whole.***

[***https://inflightpilottraining.com/2020/05/21/buying-an-airplane-vs-buying-a-boat/***](https://inflightpilottraining.com/2020/05/21/buying-an-airplane-vs-buying-a-boat/)

***This article again compares boating and flying. This looks into purchasing a boat compared to private planes. Allowing for us to gain more knowledge on the two niche markets. Safety is looked into detail as well as the comparison of new and used vehicles.***

[***https://www.travelpulse.com/news/cruise/why-cruising-is-statistically-the-safest-form-of-travel.html***](https://www.travelpulse.com/news/cruise/why-cruising-is-statistically-the-safest-form-of-travel.html)

***This article speaks to the safety of cruising. Even though we are going to mainly look at personal boats and chartering a yacht, we will also pull cruising data. As this supports our argument further to show the overall growth in the safety within the market.***

[***https://www.bus.com/blog/safest-mode-of-transportation/***](https://www.bus.com/blog/safest-mode-of-transportation/)

***The above article looks at different forms of transportation. It looks into the details of the safest mode of travel. This allows us to gain a bigger picture comparing multiple different forms of travel. It also allows us to grasp the overall concept of travel better.***

[***https://www.nmma.org/statistics***](https://www.nmma.org/statistics)

***This site gives more of the overall picture of the boating industry. It allows us to see the various different growth potentials for the boating industry. It shows us boat sales and the fact that the market is changing. These are key data points that we can utilize.***

[***https://boatingindustry.com/news/2020/12/15/u-s-coast-guard-survey-offers-new-data-on-recreational-boating/***](https://boatingindustry.com/news/2020/12/15/u-s-coast-guard-survey-offers-new-data-on-recreational-boating/)

***This was an interesting data survey that was taken by the coast guard. It once again will provide us with more perspective on the boating industry. It allows us to have more knowledge overall and provides us with a better picture of the industry and safety.***

# Which Data?

***I will be utilizing several different data sources because I will compare boating to other forms of entertainment. Below can be found some of the data sources I will utilize. My goal is to prove that boating is in fact extremely safe. Compared to other forms of travel entertainment.***

**Boating Data:**

<https://uscgboating.org/statistics/accident_statistics.php>

# <https://www.bts.gov/content/personal-watercraft-safety-data>

**Private Airline Data:**

[**https://nbaa.org/aircraft-operations/safety/statistics/**](https://nbaa.org/aircraft-operations/safety/statistics/)

**Sports Car Data:**

[**https://www.iihs.org/ratings/driver-death-rates-by-make-and-model**](https://www.iihs.org/ratings/driver-death-rates-by-make-and-model)

# Research Questions? Benefits? Why analyze these data?

***Are boats safe? How do boats compare to other forms of luxury travel entertainment? Should we consider boats to be a good investment from safety standards? Is the boating industry growing? What is the overall value of boating?***

# What Method?

***I will be utilizing Python to create a data analysis based off several key boating statistics and data points. This will allow for accurate analysis. I will then create visualizations through Python and Tableau to show the boating industry as a whole. This analysis will prove that the boating industry is in fact safe compared to other forms of travel entertainment.***

# Potential Issues?

***The biggest challenge I will face is finding drilled down data. I have found some really good data sets thus far, but the decision is now what should be compared. Do we compare a private jet to someone’s personal boat or should that be compared to a chartered yacht. These are the issues that we will have to look through because this could create inaccurate comparisons between data points.***

# Concluding Remarks

***The boating industry is rapidly growing, due to the COVID-19 restrictions we saw even more people become interested. This was because it was seen as an independent form of entertainment that was allowed. As we see growth in the industry, we also see increased accidents and incidents. I want to prove that boating is in fact safe and that nobody should be afraid of a boat.***