

A decorative graphic on the left side of the slide. It consists of a blue parallelogram and a light green parallelogram, both tilted at an angle. The blue shape is in the foreground, and the green shape is partially behind it. They are set against a dark blue background with diagonal stripes.

Low Risk Aviation



Meet the Data Team

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Why do businesses use aviation?

- Passenger Transportation
- Cargo Transportation
- Private Enterprises

A decorative graphic in the top-left corner consisting of two overlapping parallelograms: a blue one in the foreground and a light green one behind it. The background is a dark navy blue with faint, lighter blue diagonal stripes.

About the Data



Understanding the Data

- Aviation crash information
- Over 8,000 makes
- Over 12,000 models
- Dating back to 1962

Business Recommendations

The background features a series of dark gray, three-dimensional rectangular planes that recede into the distance, creating a sense of depth. A light green parallelogram is positioned on one of the upper planes, and a blue parallelogram is on a lower plane, both adding a pop of color to the monochromatic scheme.

1. Passenger Transport



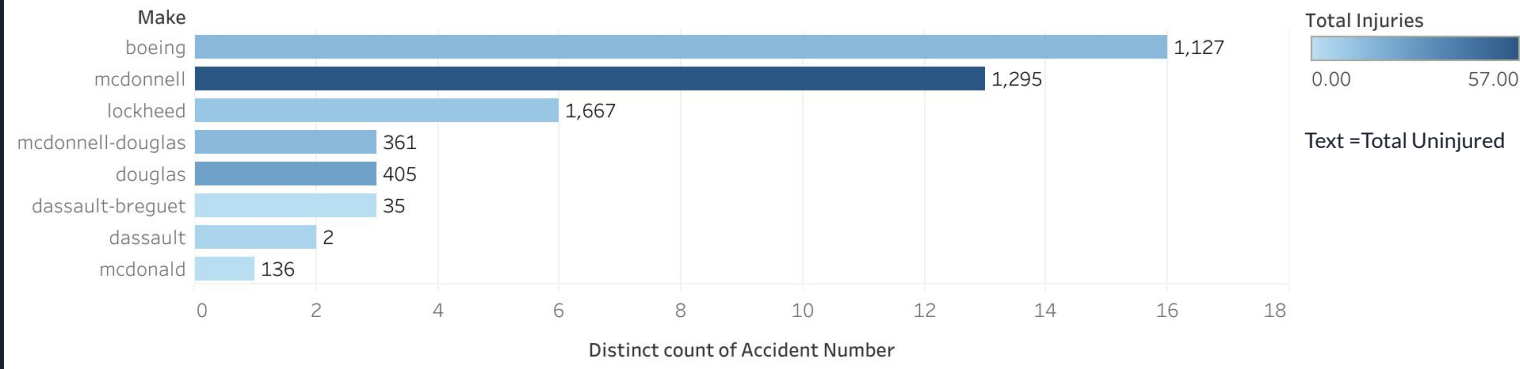
Total Crashes for Makes with Three Engines

Total Airplane Crashes in Data Set: **2407**

Total 3 Engine Crashes: **58**

3 Engine Percentage of Total Crashes: **2.41%**

Plane makes with three engines displaying how many injured or uninjured in all crashes



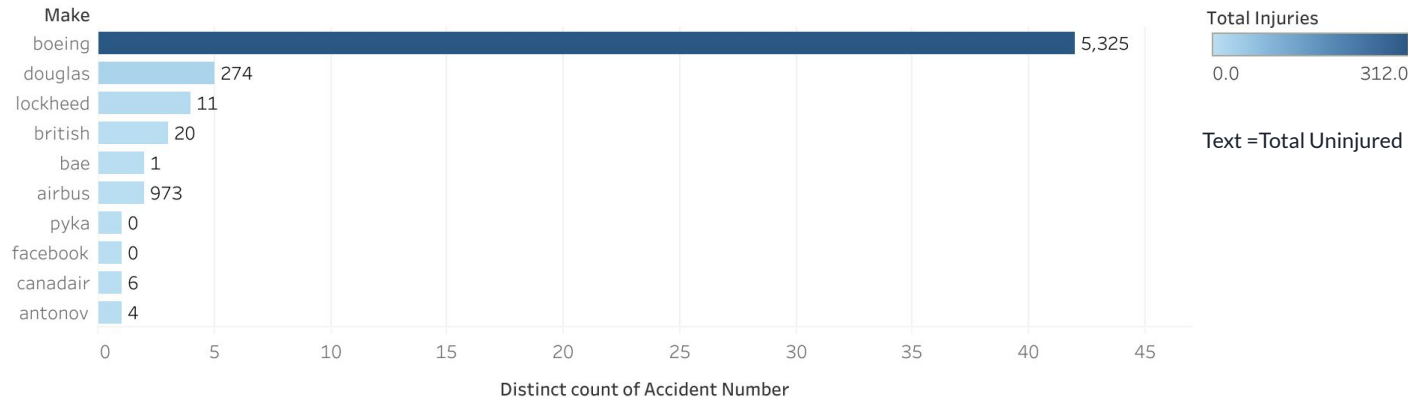
Total Crashes for Makes with Four Engines

Total Airplane Crashes in Data Set: **2047**

Total 4 Engine Crashes: **108**

4 Engine Percentage of Total Crashes: **4.5%**

Total Accidents of Plane Makes with Four Engines - Including Total Injured vs Uninjured



Boeing 727 for Passenger Transportation

Why Boeing 727

- Total Crashes for Boeing Plane: **345**
- Total Crashes for Boeing Planes with 3 Engines: **16**
- The Boeing 727 represents **4.64%** of all Boeing crashes and **0.66%** of all airplane crashes



2. Cargo Transport



- Most carriers are converted passenger jets.
- IFA - Narrowed down to four options:
 - Boeing
 - 747
 - 737
 - Airbus
 - 320
 - 340

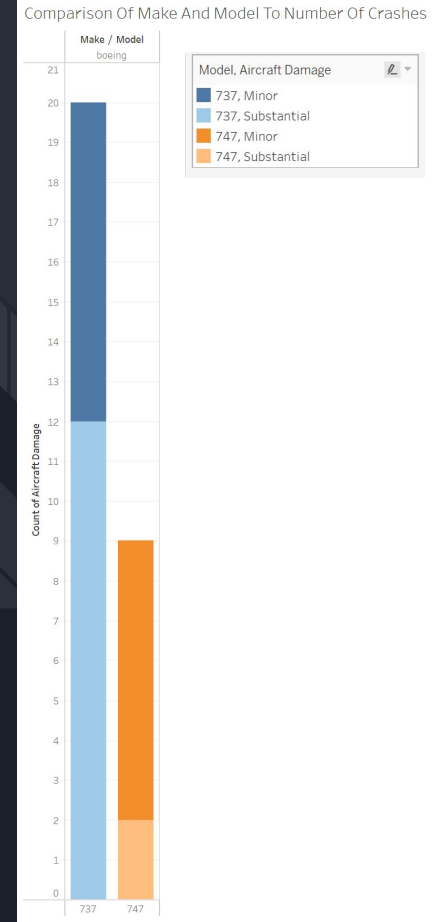


Source: "Types of Aircraft Shipping Cargo and Types of Loads." *International Forwarding Association Blog* (blog), October 24, 2019.

Comparison Between the three planes.

- (340 not in data set)
- 320 had too little data
- Compared aircraft damage severity between the Boeings.
- 737 is smaller than the 747!

Decided to go with the Boeing 747



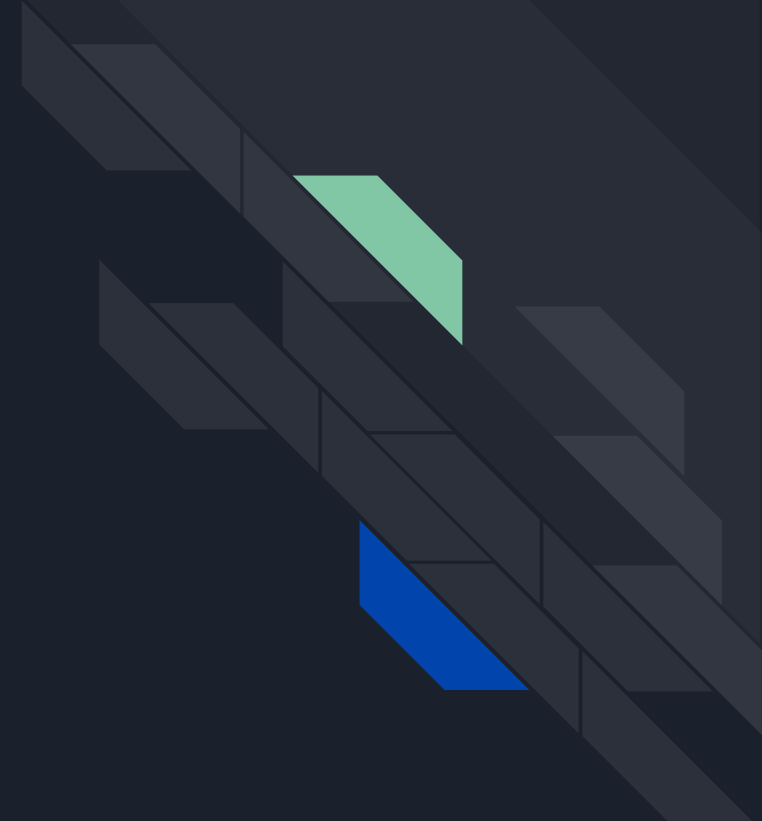
So the 747 is better than the 737. What about the Airbus 320?

Boeing 747:

- 107 ton capacity
- Nose opens (really cool)
- Wide body (more space)
- 4 Engines.

Airbus 320:

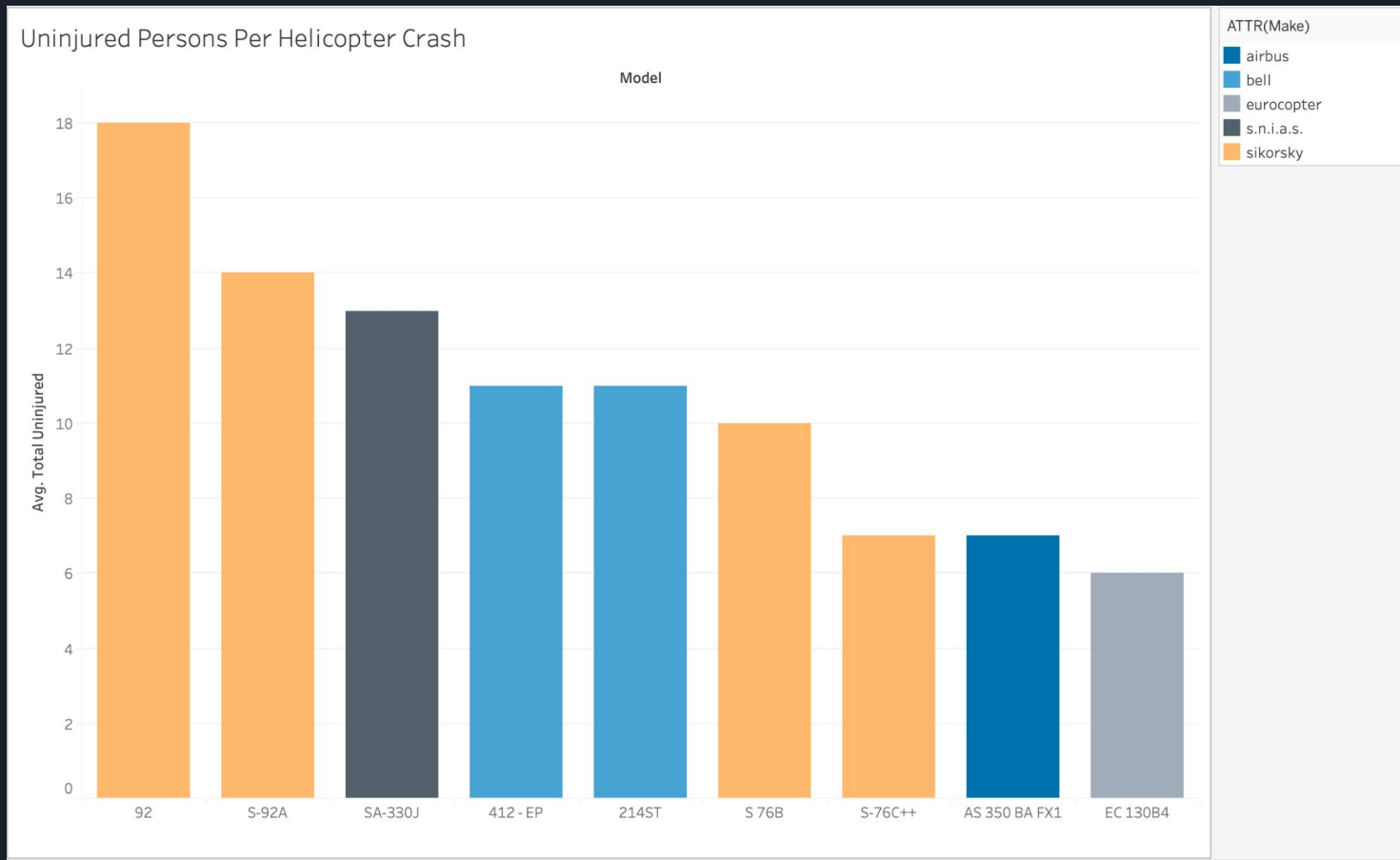
- 16 ton capacity
- Narrow body
- 2 Engines.



3. Private Enterprises (Helicopters)



Uninjured Persons Per Helicopter Crash



Safest Helicopter

Sikorsky S-92A





Final Conclusions



Recommendations

- Boeing 727 model for passenger transportation
- Boeing 747 model for cargo transportation
- Sikorsky S-92A for private enterprises



Questions?

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