AVIATION RISK ANALYSIS

TEAM



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Ole-worm

AGENDA



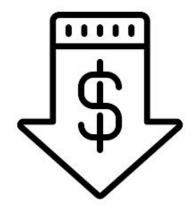
FINDINGS

- → TurboProp Single Engines are 15x safer.
- → Quest makes the safest models of TurboProp Single Engines.
- → They also represent less economic risk when entering a new market.



BUSINESS OVERVIEW

★ With a \$5 million budget, our mid-size company aims to serve corporate and private enterprises, specializing in smaller group operations.



BUSINESS PROBLEM

- * Address high airline fatality and serious injuries.
- → Identify safe airplane options across different types.
- → Deliver invaluable insights on the world's safest budget-friendly airplanes.







DATA OVERVIEW

The National Transportation Safety Board:

Aviation accidents from 1962 to 2022

Filtering:

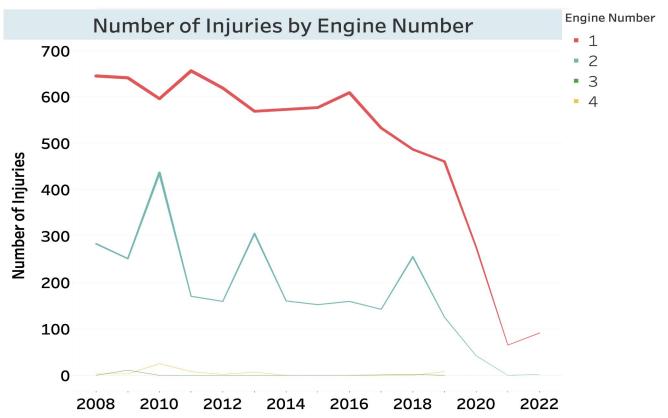
- ★ Airplanes only
- Professionally built
- **→** 2008-2022
- Serious and fatal injuries
- **≯** 14,100 datapoints

DATA LIMITATIONS

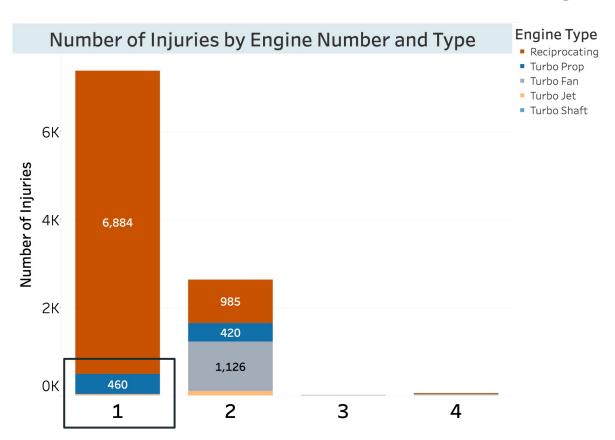
- → No records on annual flights or make releases.
- The reason of accidents are not specifically clear
- ★ Inconsistent reporting in terms of aircraft category.



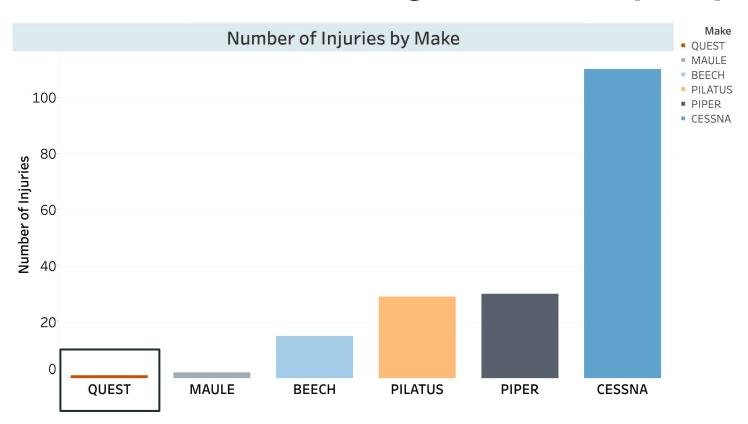
Single-Engine Airplane is Riskier



TURBO Prop is safer than Reciprocating Engine



QUEST is the Safest for Single Turbo Prop Airplane



RECOMMENDATION



Reciprocal engine models are dangerous and dated.

Avoid them.

Turbo engines are involved in 15x less accidents.

TurboProp is safe and cost-effective.

 Quest is the safest leading manufacturer of single TurboProp engine planes.

New models retail at \$4.5m



FUTURE INSIGHTS

- Look into industry norms, like leasing planes.
- Analyze comprehensive flight data, such as total number of flights.
- If this venture proves successful, expand budget and look into planes with two or more engines.

QUESTIONS?

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TEAM



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SOURCE

How much Do Airplanes Cost:

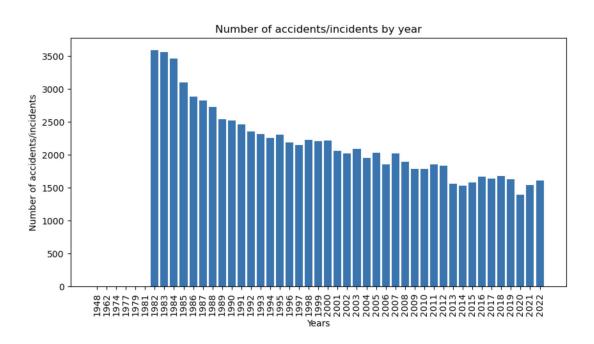
Piston vs. Turbo: https://www.mercuryjets.com/piston-vs-turbo/

ChatGPT

Leasing Planes: https://simpleflying.com/how-airlines-pay-for-planes/

APPENDIX

Number of accidents



APPENDIX

Number of accidents of Airplane

