

# ANALYZING AIRCRAFT ACCIDENTS TO GUIDE PURCHASE DECISIONS

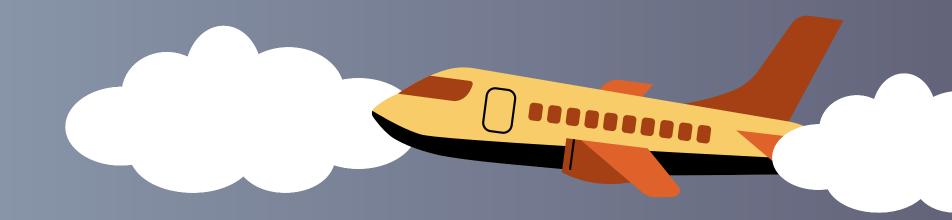
by Charity Agutu.

## Project Overview

 Identify the lowest-risk aircraft for a company's new aviation business, and translate these findings into actionable insights to guide the head of the new aviation division in purchase decisions.



## OBJECTIVES



1.

Identify the aircraft with high risk and low risk of accidents

2

Identify the manufacturers and models of the aircrafts mostly involved in accidents.

3.

Identify the Engine types of the aircrafts that are mostly and least involved in accidents.

4.

Identify the Phase of Flight the aircrafts were in when the accidents took place

 ▼ Tableau Public Desktop Upgrade

#### AIRCRAFT ANALYSIS

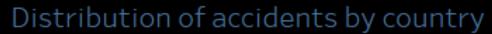
aircraft Damage **Event Date** Substantial

airport name

2007

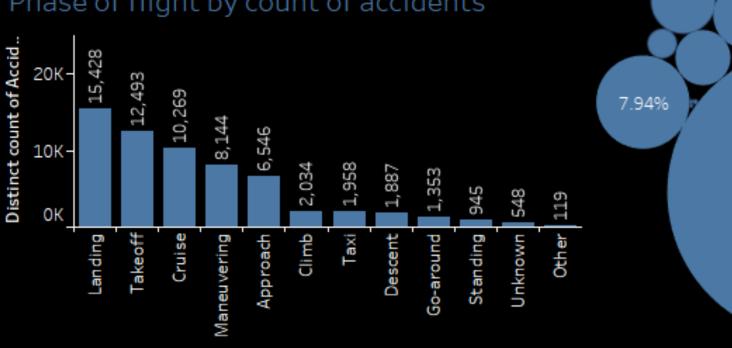
Engine type by Count of accidents

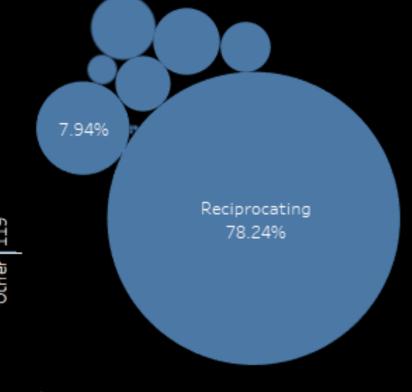
Accident.Number ANCO7CA089



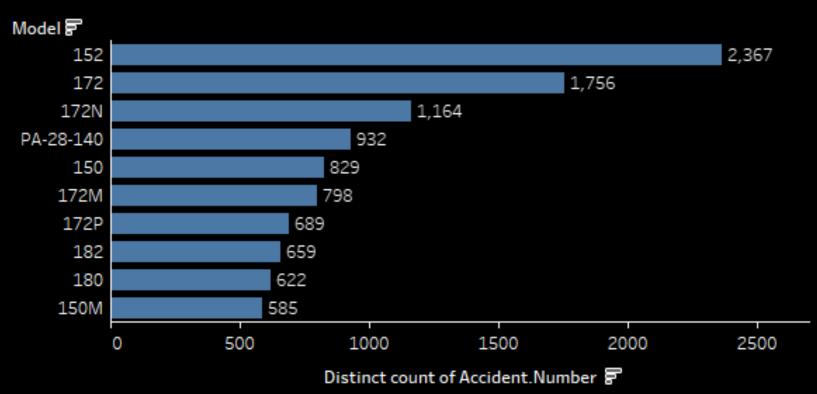


Phase of flight by count of accidents

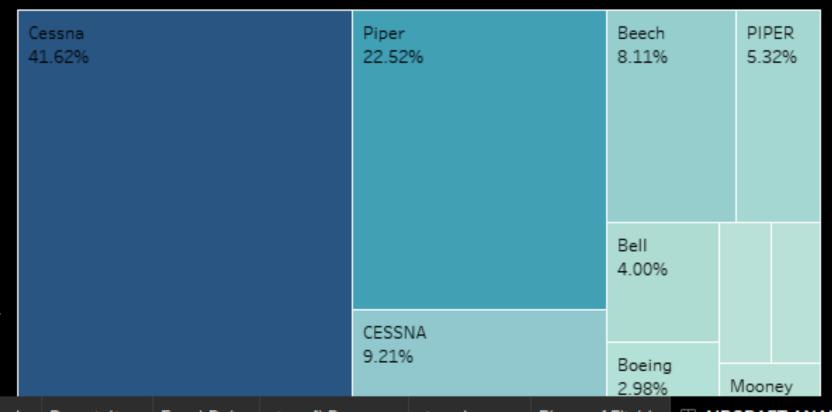




Top 10 models by Count of Accidents



Top 10 Makes by Count of Accidents



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## CONCLUSIONS.

- - 1Aircraft Involvement\*: High accident rates for airplanes and helicopters.WSFT has lower
  - 2Location: Most accidents in the United States.
  - \*3Manufacturers: CESSNA and PIPER frequently involved.
- 4.Risky Models: 152, 172, and 172N models.150M is less involved 5.Flight Phases: Takeoff and landing are critical.
- 6.Engine Types: Reciprocating engines often involved.Electric is least involved.
  - 7.Damage: Mostly complete or substantial destruction.
- 8.Weather: Most accidents occured in VMC.Accidents occured in IMC too.



### Recommendations

1. Aircraft Involvement\*: High accident rates for airplanes and helicopters.WSFT has lower

2.Location\*: Most accidents in the United States.

3. Manufacturers\*: CESSNA and PIPER frequently involved.

4.Risky Models\*: 152, 172, and 172N models.150M is less involved

5.Flight Phases\*: Takeoff and landing are critical.

6.Engine Types\*: Reciprocating engines often involved. Electric is least involved.

7.Damage\*: Mostly complete or substantial destruction.

8.Weather\*: Most accidents occured in VMC.Accidents occured in IMC



## THANKYOU!

