"Team Icarus Does Data Analysis"

Aviation Risk Analysis

Recommendations for venturing into the aircraft business

Priorities

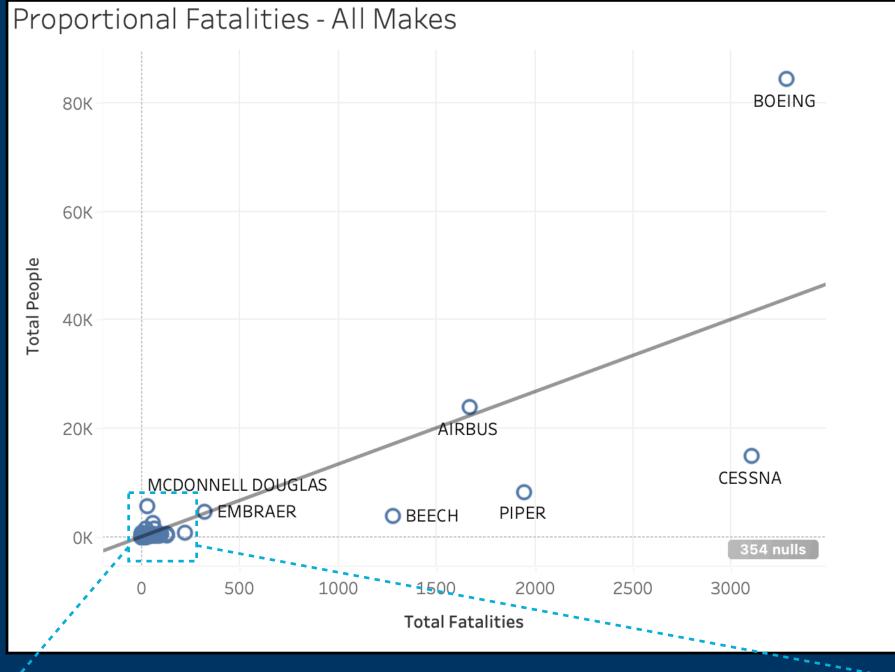
- Human Safety
- Aircraft Damage
- Finding ideal headquarters

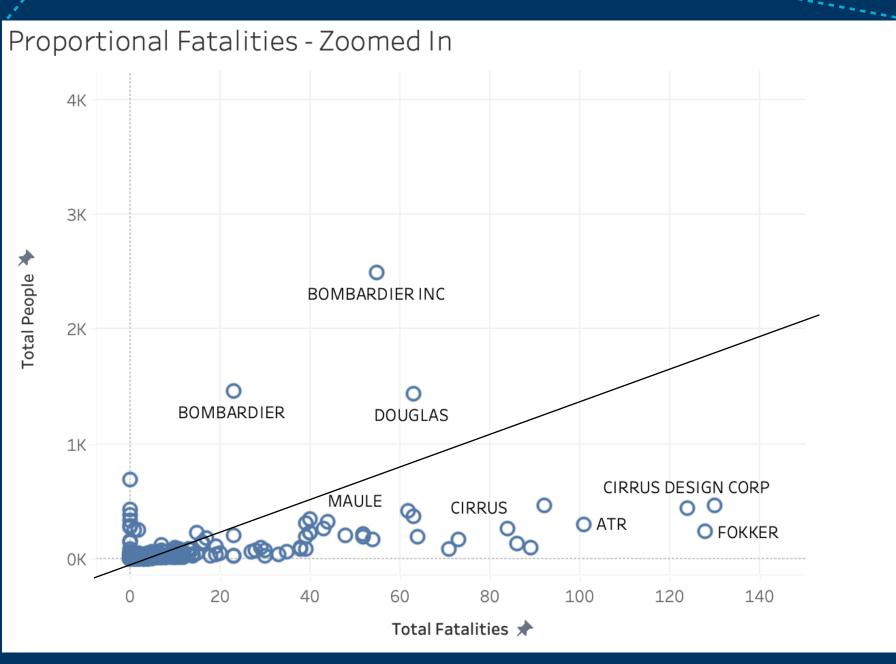
Injury Distribution 80K 20K 10K Uninjured Fatal Serious Minor

Is it safe to fly?

Commercial.isgood() = True

Private.isgood() = False





 Outliers: Boeing and Airbus look to be unique amongst all airplane makes

 Smaller manufacturer fatality rates follow a fairly consistent trend

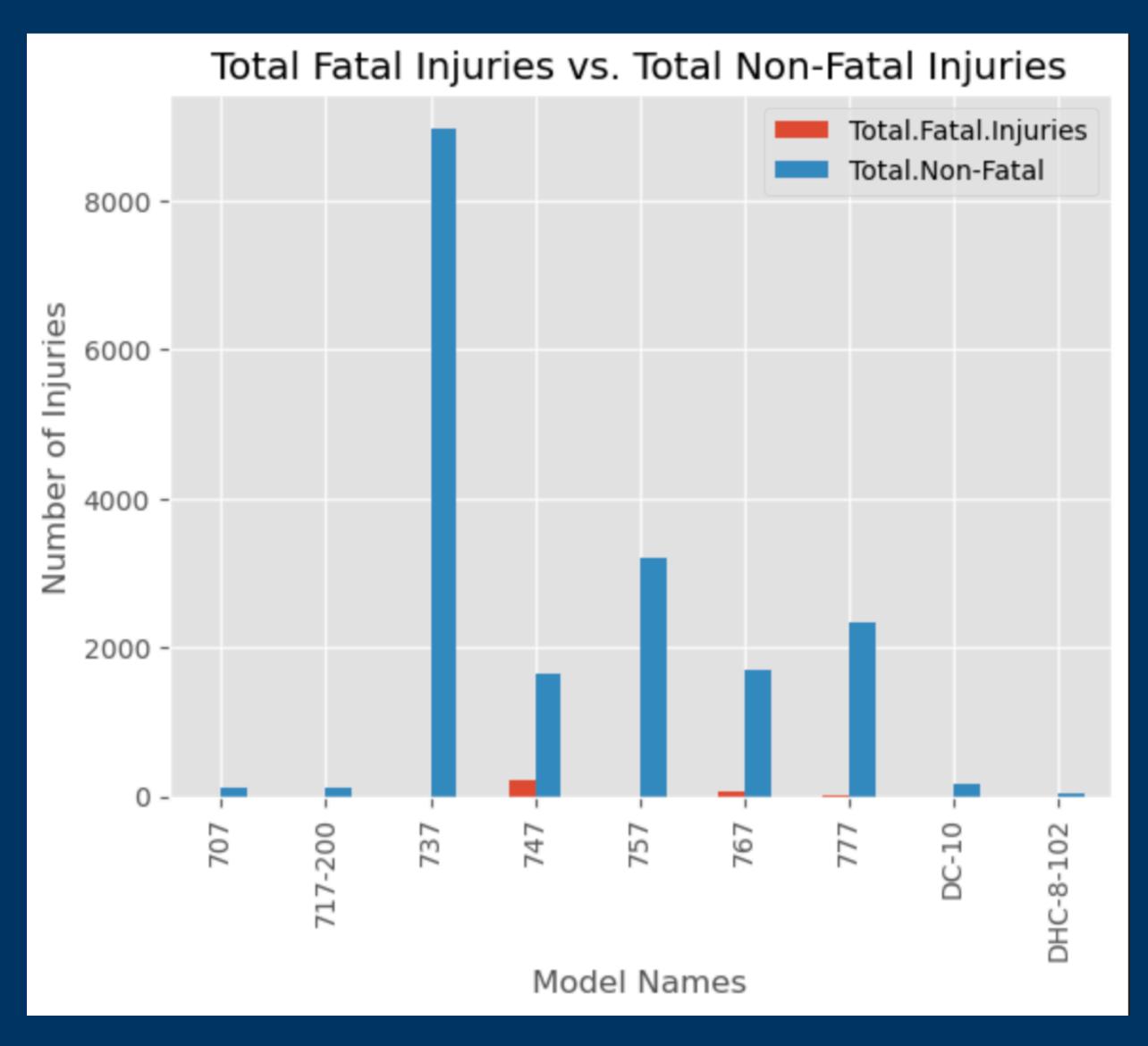
Airplane Recommendations

1. Boeing

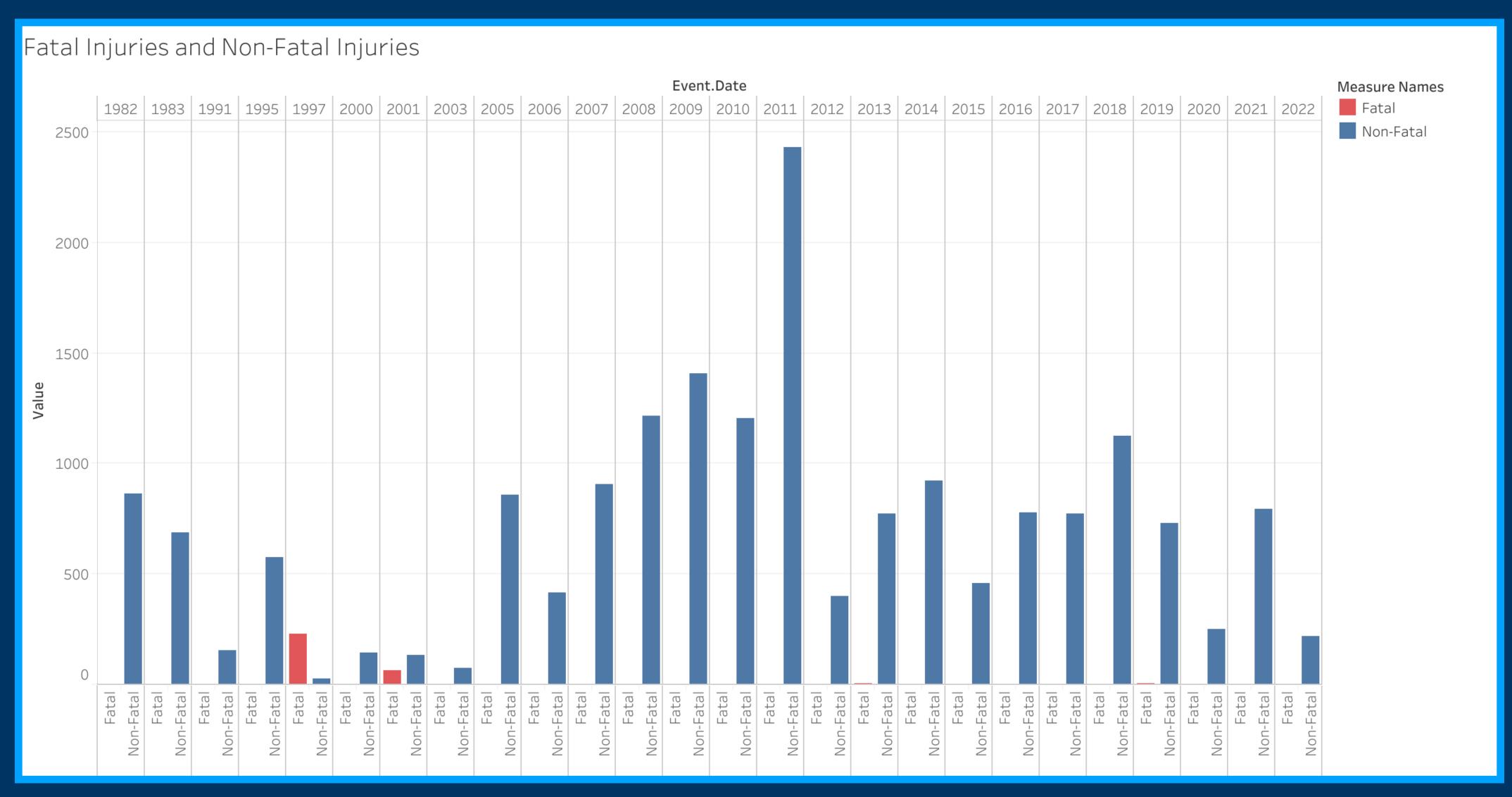
2. Airbus



Comparison of Boeing models

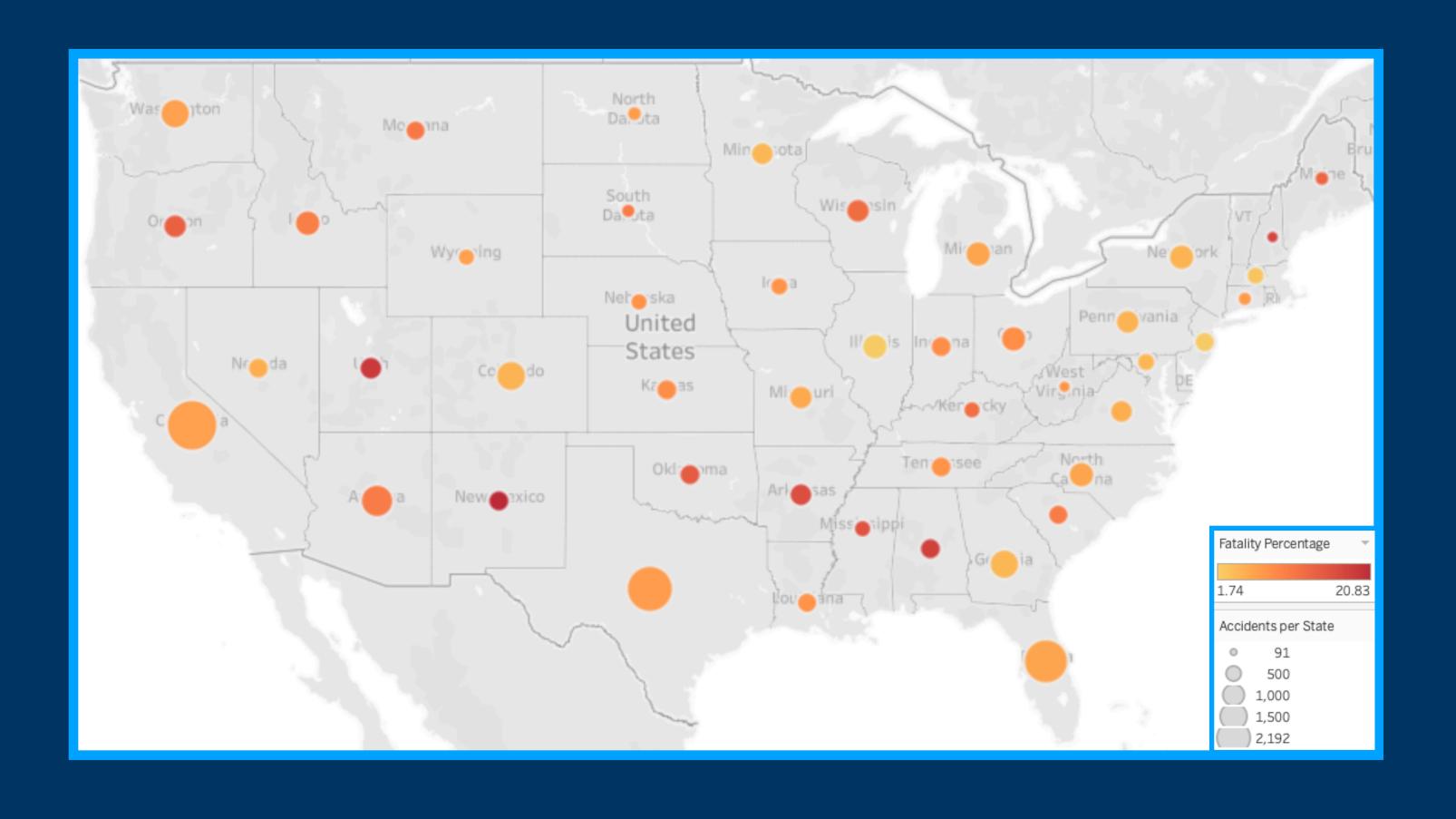


Commercial Aviation Safety Team

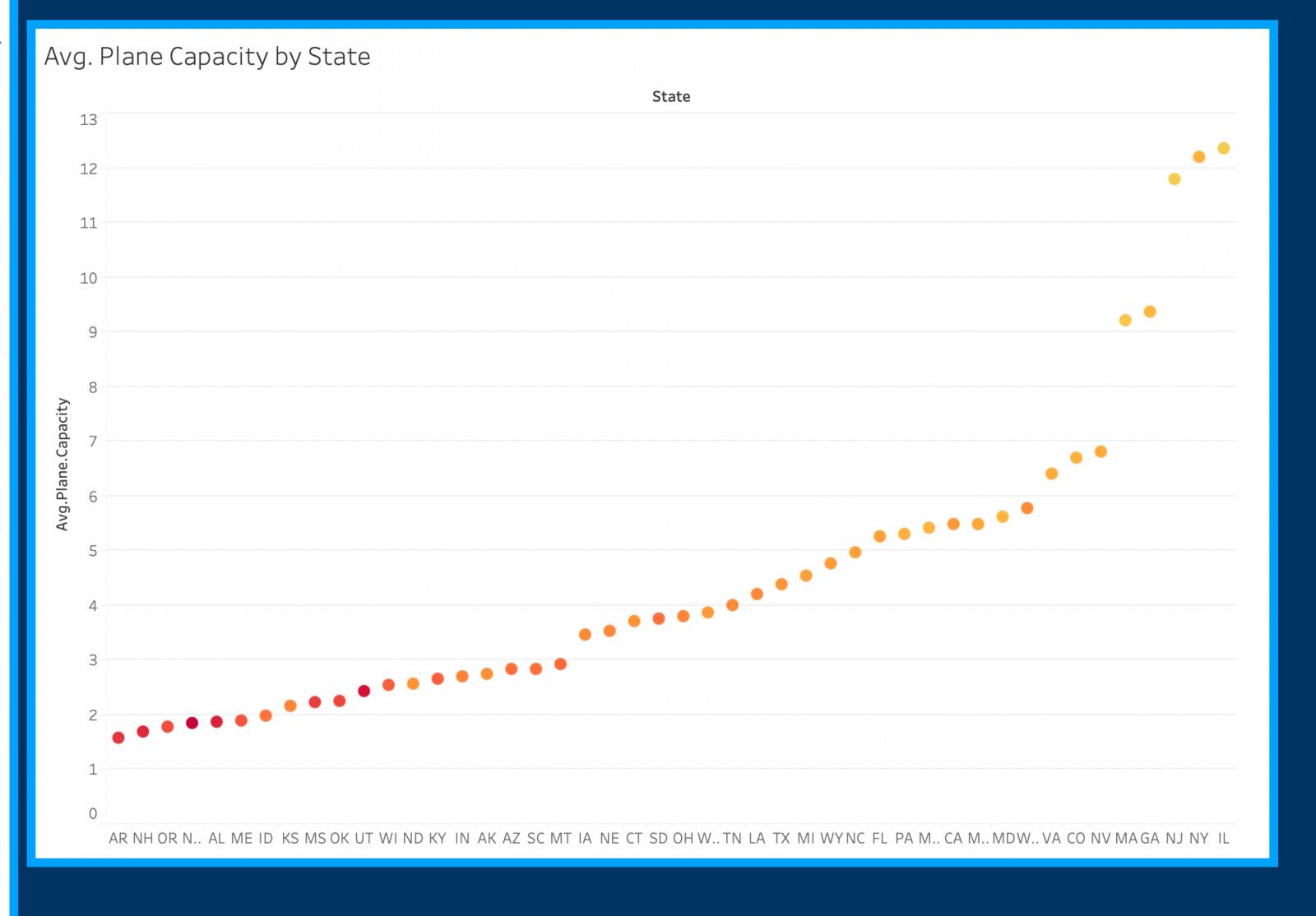


Geographical Considerations





| | Total.People | Fatality.Perc | Total.Accidents | Avg.Plane.Capacity |
|-------|--------------|---------------|-----------------|--------------------|
| State | | | | |
| CA | 12018.0 | 6.56 | 2192 | 5.48 |
| тх | 7895.0 | 6.79 | 1807 | 4.37 |
| FL | 8668.0 | 5.72 | 1651 | 5.25 |
| AK | 4244.0 | 7.28 | 1554 | 2.73 |
| ΑZ | 2404.0 | 10.44 | 853 | 2.82 |
| co | 4857.0 | 4.39 | 726 | 6.69 |
| WA | 2682.0 | 6.34 | 693 | 3.87 |
| GA | 6310.0 | 4.06 | 674 | 9.36 |
| NC | 2710.0 | 5.72 | 545 | 4.97 |
| IL | 6685.0 | 1.74 | 541 | 12.36 |
| МІ | 2388.0 | 6.03 | 526 | 4.54 |
| NY | 6351.0 | 4.28 | 521 | 12.19 |
| ID | 1020.0 | 10.10 | 516 | 1.98 |
| он | 1929.0 | 8.19 | 509 | 3.79 |
| OR | 872.0 | 14.11 | 489 | 1.78 |
| PA | 2540.0 | 4.69 | 478 | 5.31 |
| WI | 1109.0 | 12.17 | 438 | 2.53 |
| мо | 2389.0 | 5.36 | 436 | 5.48 |
| VA | 2559.0 | 4.88 | 399 | 6.41 |
| MN | 2124.0 | 4.00 | 392 | 5.42 |



Conclusions

Best Commercial Model:

Boeing 737

Recommended cities to operate from:

- NYC, NY
- Chicago, IL
- Atlanta, GA

Alaska is an interesting market to explore further