Data Visualization of Bird Strikes between 2000 – 2011

Transportation and Communication

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Second Project

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TABLEAU WORKBOOK LINK

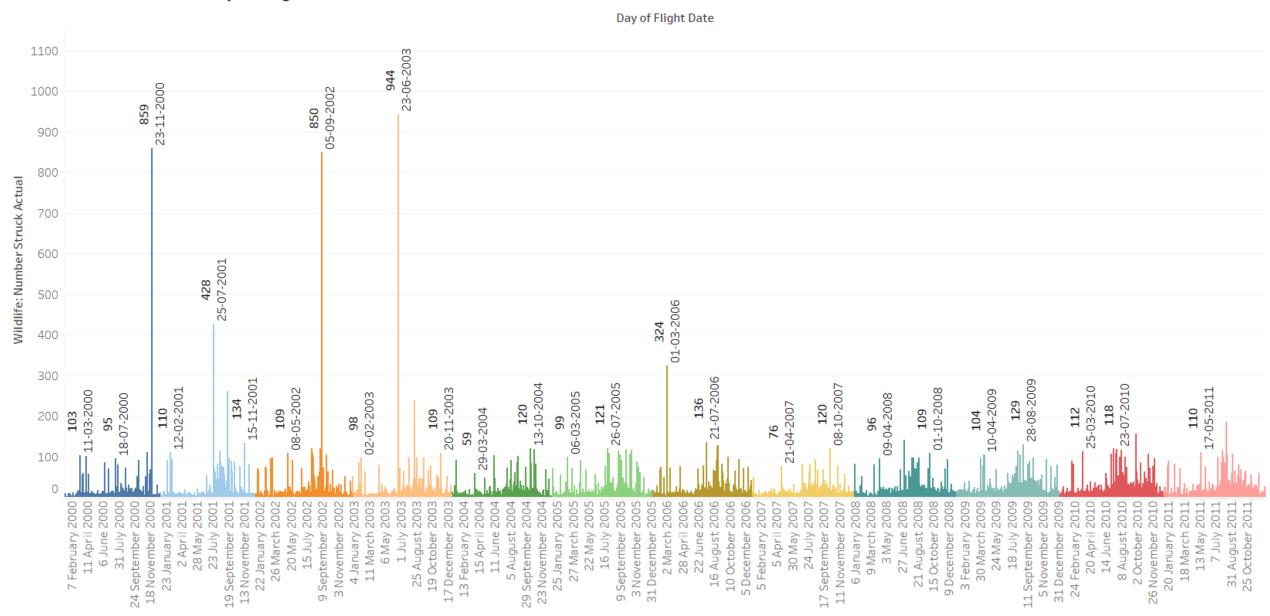
INTRODUCTION

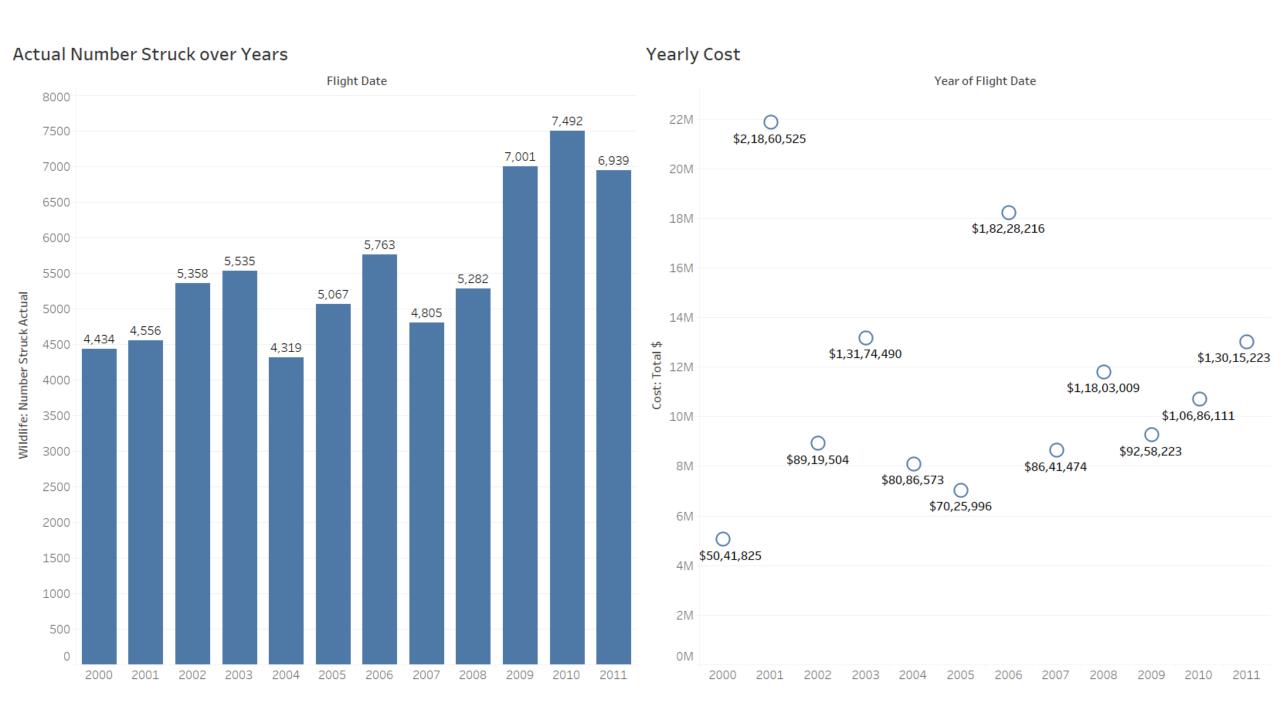
A bird strike is strictly defined as a collision between a bird and an aircraft which is in flight or on a take-off or landing roll. The term is often expanded to cover other wildlife strikes - with bats or ground animals.

Bird Strike is common and can be a significant threat to aircraft safety. For smaller aircraft, significant damage may be caused to the aircraft structure and all aircraft, especially jetengine ones, are vulnerable to the loss of thrust which can follow the ingestion of birds into engine air intakes. This has resulted in a number of fatal accidents.

Bird strikes may occur during any phase of flight but are most likely during the take-off, initial climb, approach and landing phases due to the greater numbers of birds in flight at lower levels. Since most birds fly mainly during the day, most bird strikes occur in daylight hours as well.

Actual Number Struck - Day of Flight

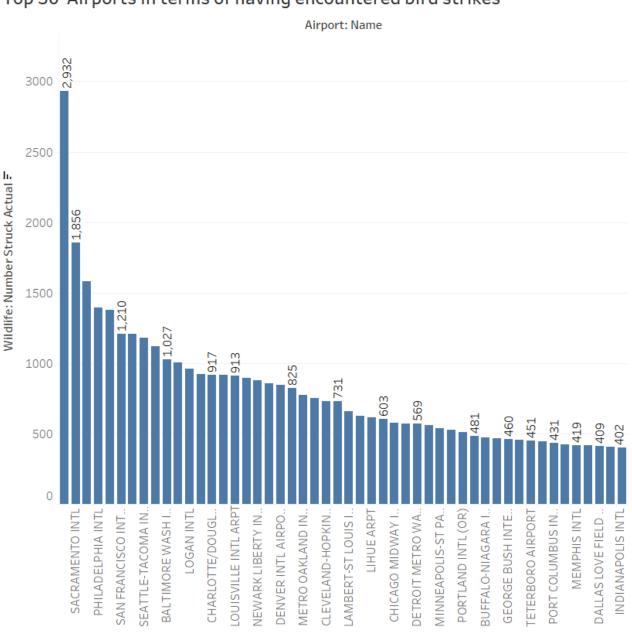


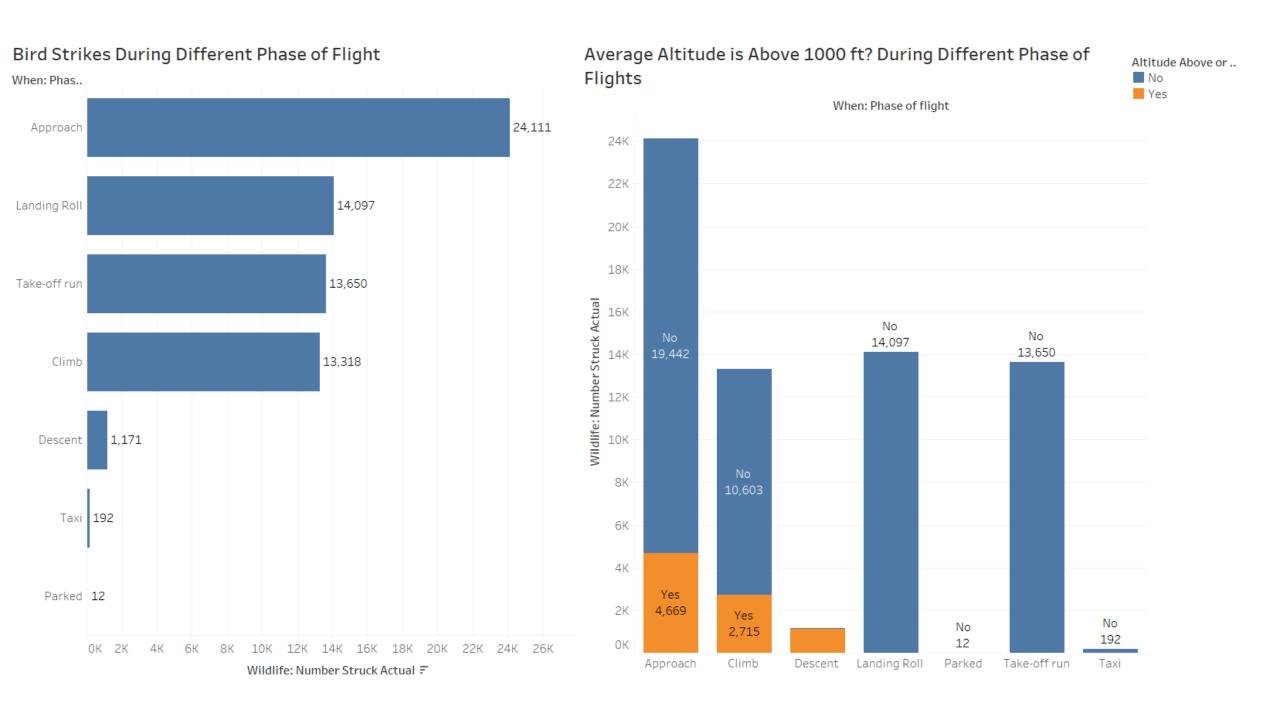


Top 10 Airlines in terms of having encountered bird strikes



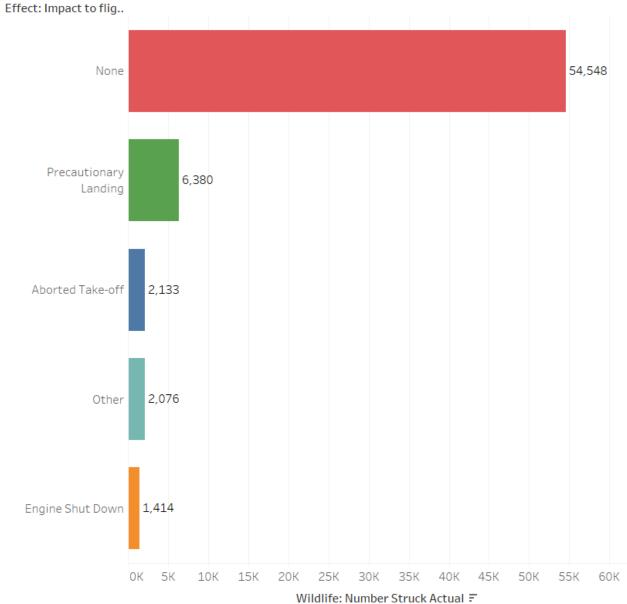
Top 50 Airports in terms of having encountered bird strikes



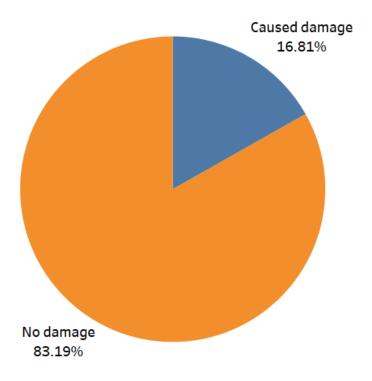


Impact to Flight

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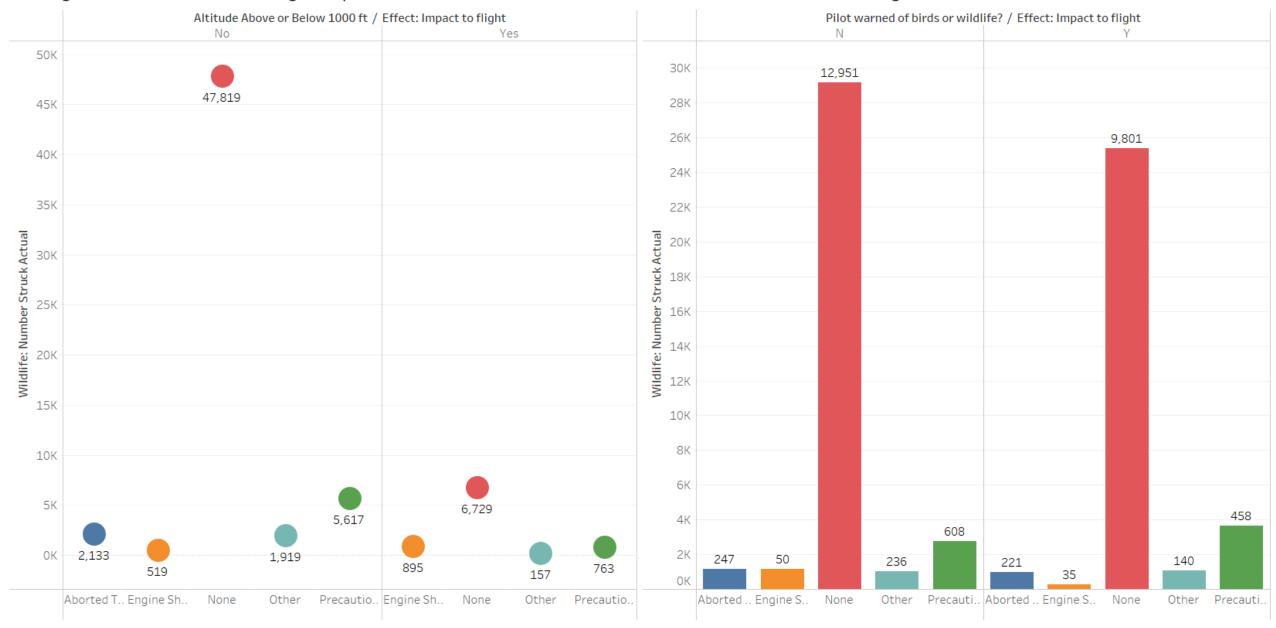


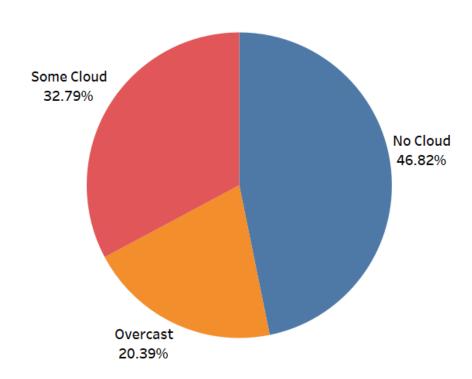
Damage to Flight

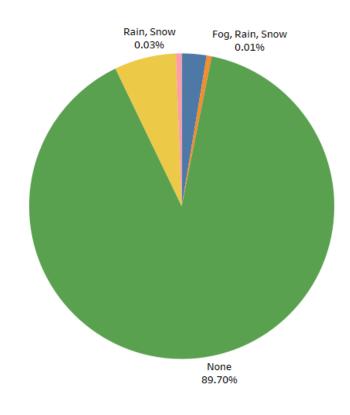


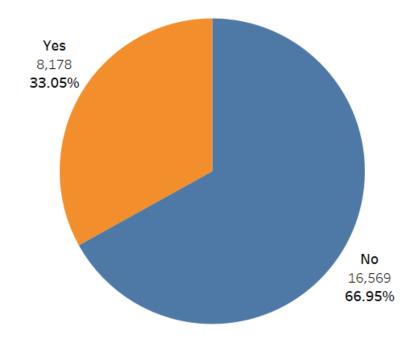
Average Altitude for Different Flight Impacts

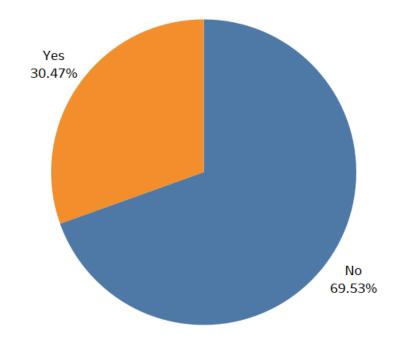
Pilot Warned and Effect to Flight











Conclusion

☐ Most bird strike happened on 23, June 2003 (944 strikes) - Day wise ☐ Most bird strike happened in 2010 (7492 strikes) - Year wise ☐ The maximum total cost is for year 2001 (\$2,18,60,525) □46.82% strikes happened when there was no cloud which is maximum □89.70% strikes happened when precipitation condition was normal (none) □24111 strikes took place during the approach phase of flight which is maximum ☐ Most strikes took place below 1000 ft – 69.53% ☐ There was no damage to the aircraft in 83.19% strike cases ☐ Pilot warned – 9801 Strike Cases Pilot not warned – 12951 Strike Cases □66.95% Aircraft was Large in size



- ☐ Most people injured in 2003 (8)
- ☐Business Airline / Operator is at the top with 9265 Cases of Bird Strike
- □ Sacramento INTL Airport is at the top in airport list with 2932 Cases of Bird Strike

