

# Background: Bird Strikes in Aviation

- Occur when a bird collides with an aircraft; usually cause little damage, but can be devastating (ex. American Airlines Flight 1549 Hudson River incident).
- Roughly 10,000 strikes are reported annually; estimates suggest that as few as half of total strikes are reported.
- Less than 8% of strikes occur above 3,000 feet and 61% occur at less than 100 feet (according to FAA Wildlife Hazard Management Manual).
- FAA estimates \$400 million in damages annually are attributed to bird strikes in the United States alone, and over \$1.2 billion in damages occur annually worldwide.

Ref: [http://www.faa.gov/airports/airport\\_safety/wildlife/media/wildlife-strike-report-1990-2013-usda-faa.pdf](http://www.faa.gov/airports/airport_safety/wildlife/media/wildlife-strike-report-1990-2013-usda-faa.pdf)

# Faa Report On Bird Strikes

**Federal Aviation Administration**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Federal Aviation Administration text.

## **Faa Report On Bird Strikes:**

**Bird Strike in Aviation** Ahmed F. El-Sayed, 2019-07-22 Groundbreaking Handbook Offers Detailed Research and Valuable Methodology to Address Dangerous and Costly Aviation Hazard Though annual damages from bird and bat collisions with aircraft have been estimated at 400 million in the United States and up to 1.2 billion in commercial aviation worldwide and despite numerous conferences and councils dedicated to the issue very little has been published on this expensive and sometimes lethal flying risk Bird Strike in Aviation seeks to fill this gap providing a comprehensive guide to preventing and minimizing damage caused by bird strike on aircraft Based on a thorough and comprehensive examination of the subject Dr El Sayed offers different approaches to reducing bird strikes including detailed coverage of the three categories necessary for such reduction namely awareness education bird management active and passive control and aircraft design In addition the text discusses the importance of cooperation between airplanes airports and air traffic authorities as well as testing methods necessary for certification of both aircraft frame and engine Other notable features include Statistics and analyses for bird strikes with both civil and military helicopters as well as military fixed wing aircrafts including annual costs critical flight altitudes critical parts of aircraft distance from air base and specifics of date and timing Thorough review and analysis all fatal bird strike accidents and most non fatal accidents since 1905 the first book to provide such a reference The use of numerical methods in analyzing historic data ex probability functions finite element methods for analyzing impact on aircraft structure experimental measurement technique for displacement vibration component distortion etc Instruction on identification of bird species using visual microscopic and DNA evidence and details of bird migration to aid air traffic control in avoiding scenarios likely to result in collision With its wealth of statistical data innovative research and practical suggestions Bird Strike in Aviation will prove a vital resource for researchers engineers and graduate students in aerospace engineering manufacturing or ornithology as well as for military and civilian pilots and flight crew or professionals in aviation authorities and air traffic control

**Bird Strike** Michael N. Kalafatas, 2015-02-02 On a warm and golden afternoon October 4 1960 a Lockheed Electra jet turboprop carrying 72 souls took off from Logan Airport Seconds later the plane slammed into a flock of 10 000 starlings and abruptly plummeted into Winthrop Harbor The collision took 62 lives and gave rise to the largest rescue mobilization in Boston's history which included civilians in addition to police firefighters skindivers and Navy and Coast Guard air sea rescue teams Largely because of the quick action and good seamanship of Winthrop citizens many of them boys in small boats ten passengers survived what the Civil Aeronautics Board termed a non survivable crash Using firsthand interviews with survivors of the crash rescuers divers aeronautics experts and ornithologists as well as a wide range of primary source material Kalafatas foregrounds the story of the crash and its aftermath to anchor a broader inquiry into developments in the aeronautics industry the increase in the number of big birds in the skies of North America and the increasing danger of bird strikes Along the way he looks into interesting historical

sidelights such as the creation of Logan Airport the transformation of Boston's industrial base to new technologies and the nature of journalistic investigations in the early 1960s The book is a rare instance when an author can simultaneously write about a fascinating historical event and a clear and present danger today Kalafatas calls for and itemizes solutions that protect both birds and the traveling public

*FAR/AIM 2023: Up-to-Date FAA Regulations / Aeronautical Information Manual* Federal Aviation Administration, 2023-04-11 All the Information You Need to Operate Safely in US Airspace Fully Updated If you're an aviator or aviation enthusiast you cannot be caught with an out of date edition of the FAR AIM In the newest edition of the FAR AIM all regulations procedures and illustrations are brought up to date to reflect current federal regulations and FAA data policies and advisories This handy reference book is an indispensable resource for members of the aviation community as well as for aspiring pilots looking to get a solid background in the rules requirements and procedures of flight Not only does this manual present current FAA information it also includes A guide for specific pilot training certifications and ratings A pilot controller glossary Standard instrument procedures Parachute operations Airworthiness standards for aircraft and parts Flight and pilot school information Important FAA contact details This is the most complete guide to the rules of aviation available anywhere Don't take off without the FAR AIM

*Federal Aviation Administration Aeronautical Information Manual Official Guide to Basic Flight Information and ATC Procedures* United States Federal Aviation Administration, 2012 Federal Aviation Administration Aeronautical Information Manual AIM Official guide to basic flight information and Air Traffic Control procedures August 26 2012 Chartbundle rev A

*Catalog of Approved Headquarters FAA Recurring Reports, as of 30 June 1970* United States. Federal Aviation Administration, 1970

*FAA Aviation News*, 2006

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**Wildlife Strikes to Civil Aircraft in the United States 1990-2003** Edward C. Cleary, 2004 This report presents a summary analysis of data from the FAA's National Wildlife Strike Database for the 14 year period 1990 through 2003 Unless noted all totals are for the 14 year period and percentages are of

the total known Because of the large amount of data Tables 2 through 17 present 14 year totals only and do not display data for individual years In addition to the summary analysis for 1990 through 2003 a sample of significant wildlife strikes to civil aircraft in the USA during 2003 is presented at the end of the report These strike examples demonstrate the widespread and diverse nature of the problem **FAR/AIM 2021: Up-to-Date FAA Regulations / Aeronautical Information Manual**

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**Challenge: "Miracle on the Hudson" - Official Investigation & Full Report of the Federal Agency** National Transportation Safety Board,2017-02-10 How can a 10 pound bird bring down a 150 000 pounds aircraft How would you feel if you were the captain on that aircraft responsible for 155 souls What would you do to prevent the disaster How would you communicate with other crew members and the passengers How would you determine where to try to ditch the plane in an unprecedented situation How would training and experience influence your decision What lessons can we learn from Captain Sullenberger's calm actions which incredibly saved all lives onboard Successful Ditching of US Airways Flight 1549 on Hudson River by Captain Chesley Sullenberger and First Officer Jeff Skiles on January 15 2009 This edition provides all the details of this incredible event transcripts of pilot's communications and the final results of a thorough investigation They analyzed in great detail the aircraft the accident the damages the personnel on board and on the ground their training and their communications their actions during the accident the survival aspects the birds the meteorology and more Finally they drew their conclusions and put together their recommendations based on the results of the examination to prevent similar events in the future      **Federal Aviation Regulations / Aeronautical Information Manual 2010 (FAR/AIM)** Federal

Aviation Administration,2009-11-03 The new edition of an essential reference book for everyone who works in aviation      **Airman's Information Manual ,1973**      *Bird Strike* Reza Hedayati,Mojtaba Sadighi,2015-09-06 Bird strikes are one of the most dangerous threats to civil and military flight safety between 1960 and 2014 they were responsible for the destruction of approximately 150 civil aircraft and the deaths of 271 people Bird Strike presents a summary of the damage imposed on the aviation industries by their avian counterparts This book first presents and analyzes the statistics obtained from bird strike databases and offers various methods for minimizing the overall probability of bird strike events The next chapters explore how to analyze the ability of aero engine critical structures to withstand bird strike events by implementing reliable experimental theoretical and numerical methods Finally the book investigates the impact of bird strikes on different components of aircrafts such as the metal fuselage composite fuselage engines wings and tail and proposes two new bird models with explanations of their use Provides up to date information for aviation staff and researchers working on aircraft safety Offers comprehensive investigations on all the statistical theoretical experimental and numerical aspects of bird strike

Includes studies carried out on bird strike and provides the reader with the important findings of each paper

## **Faa Report On Bird Strikes** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Faa Report On Bird Strikes**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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