

Insufficient Registration of Bird Strikes in Russian Civil Aviation

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Two Wings
Company

ICAO Annex 14 - Aerodromes
Volume I Aerodrome Design and Operations

9.4.1. The bird strike hazard on, or in the vicinity of,
an aerodrome shall be assessed through:

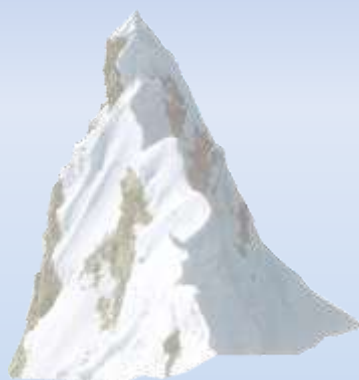
a) the establishment of a national procedure for
recording and reporting bird strikes to aircraft;



Peak Bird Strike Numbers

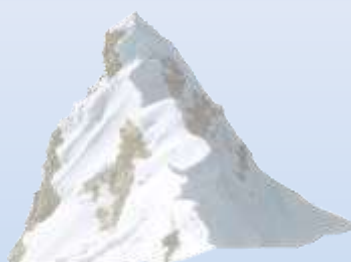
USSR 1987

393

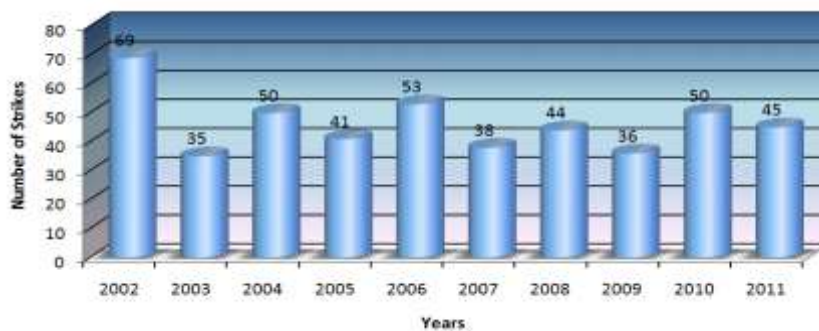


Russia 1988

198



Dynamics of Strikes Numbers Registered in Russia



DAMAGES 2011

45 BIRD STRIKES

To all parts of aircraft

To the engine

75 Hits



33 Hits



Proportion of Damages to Number of Strikes

| Number of strikes and damages Source | Number of strikes analyzed A | Engine damage | | Wing damage | |
|---|---------------------------------|---------------|---------------|---------------|---------------|
| | | Quantity B | % of «A» C | Quantity D | % of «A» E |
| 2001-2007 Bird Strike Analyses (IBIS) | 42508 | 1688 | 3,97 | 1164 | 2,74 |
| Analyse du Peril Animalier Rapport Statistique 2001 – 2005 (France) | 3848 | 91 | 2,36 | -- | -- |
| Wildlife Strikes in Canadian Aports: A 2009 Annual Report | 1513 | 11 | 0,72 | 14 | 0,92 |

Estimated Numbers of Damages

| Years | 2002 | 2004 | 2006 | 2008 | 2011 |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|
| Number of strikes | | | | | |
| Registered | 69 | 50 | 53 | 44 | 45 |
| Estimated by the engine damages | 705 | 352 | 478 | 500 | 705 |
| Not registered | 636 (90,2%) | 302 (85,8%) | 425 (88,9%) | 456 (91,2%) | 660 (93,6%) |
| Estimated by the wing damages | 291 | 291 | --- | 109 | 328 |

Concealment of the real state of the birds problem in practice has led to

- absolute absence of any regulations from the aviation authorities,
- stagnation of the bird avoidance regulatory requirements,
- collapse of scientific researches and technical developments in the field.

On the 29th July 2007 the most serious incident of last 25 years occurred, that was the crash of AN-12 taking off from the Domodedovo airport, which led to 7 deaths.



Thank you for your attention!

