

Nordic Bird Strike Advisory Group (NBSAG) 1.-2.6.2016 Trondheim, Norway

Jukka-Pekka Nikolajeff Finnish Transport Safety Agency (Trafi)

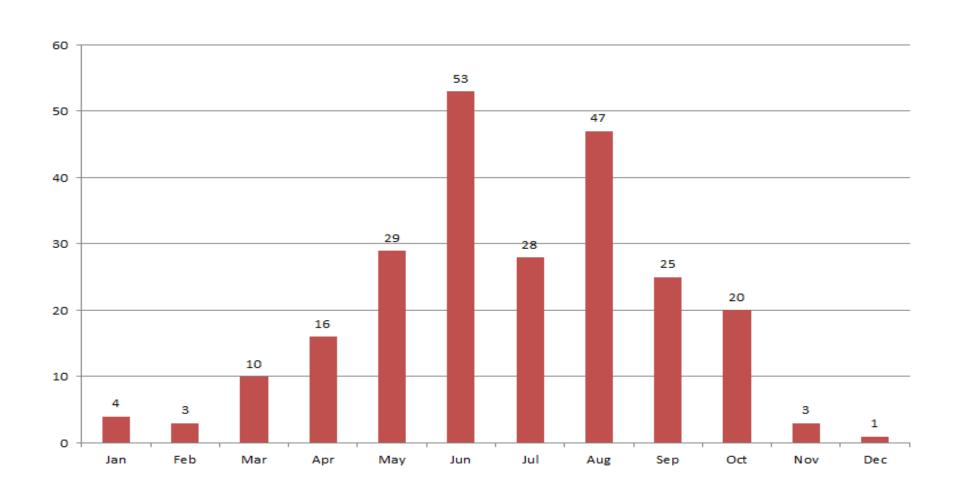
Responsible traffic.

Courage and co-operation.

Last Year in a Nutshell...



All together 239 occurrences and 253 BS reports



Year 2015



Bird	Size
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S 152

M 51

L 5

Unknown 31

Reported by

Pilot 190

ATCO 40

Maintenance 14

Other 1

Phase of Flight

Standing 9

Taxi 3

T/O run 29

Initial Climb 50

En route 3

Decending 6

Approach 54

LDG roll 52

Unknown 42

Year 2015



Was Pilot Warned About Birds

Yes 21

No 174

Time of Day

Night 24

Daytime 126

Dusk 15

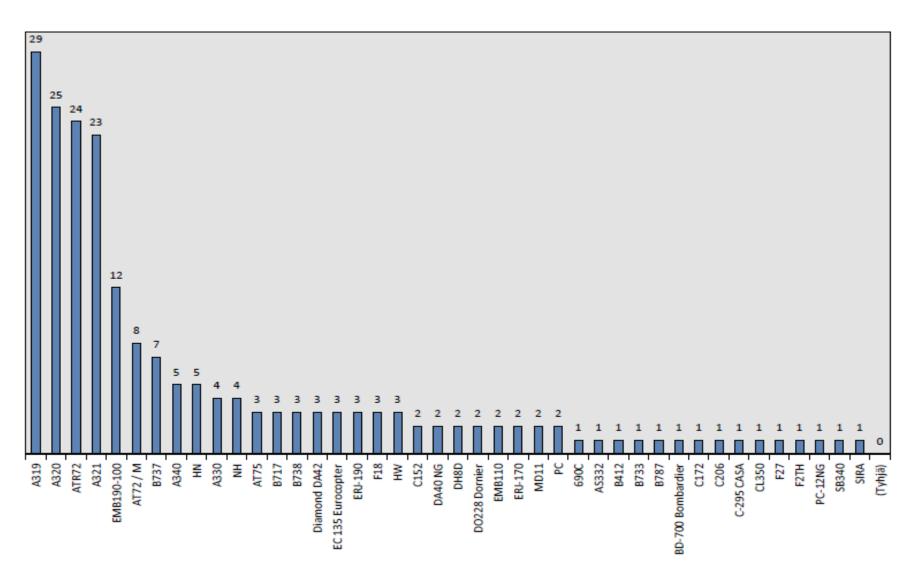
Dawn 9

Unknown 65



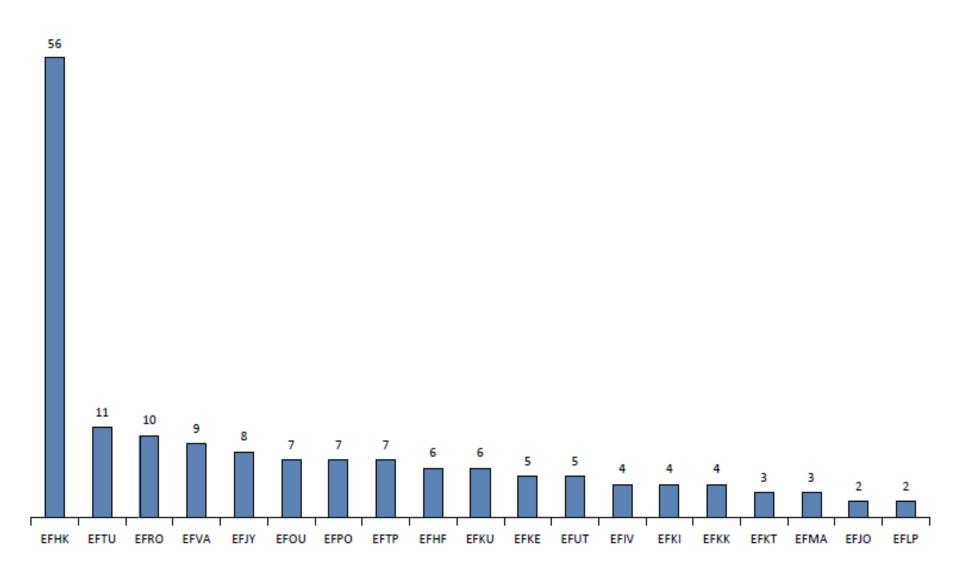
Aircraft Type Involved in Bird Strike





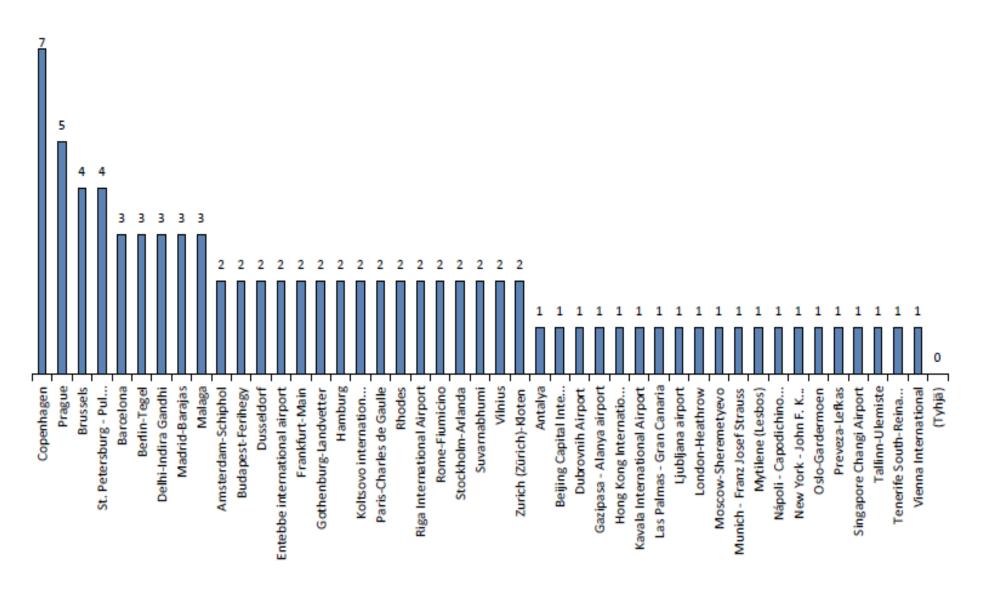
Number of the Reports in Finnish Aerodromes





Aerodromes Where Bird Strikes Occurred (Abroad)





Analysis of the Bird Strike Reports Received by the Finnish Transport Safety Agency Between the Years 2000 and 2015





Reporting History in Trafi

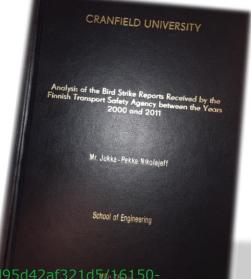


*In Finland, FCAA has been collecting bird strike reports since 1970, but no previous analysis has been done.

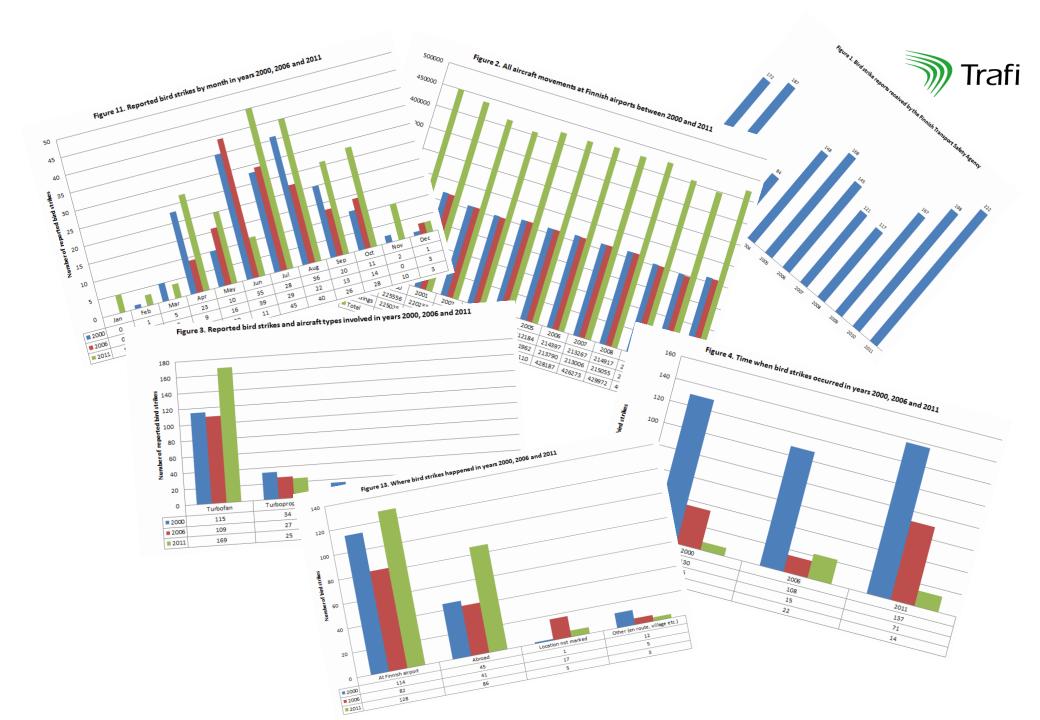
*Reporting activity is increasing, but at the same time the quality of the reports is decreasing.

*MSc Thesis made 2013 to gain a better understanding

the importance of good bird strike reporting and what kind of safety benefits we could have. Deeper look to years 2000, 2006 and 2011.



¹ http://www.trafi.fi/filebank/a/1415198541/d363a19f66f872efb04d95d42af321d5/16150-



Operations in Finland 2000 – 2015

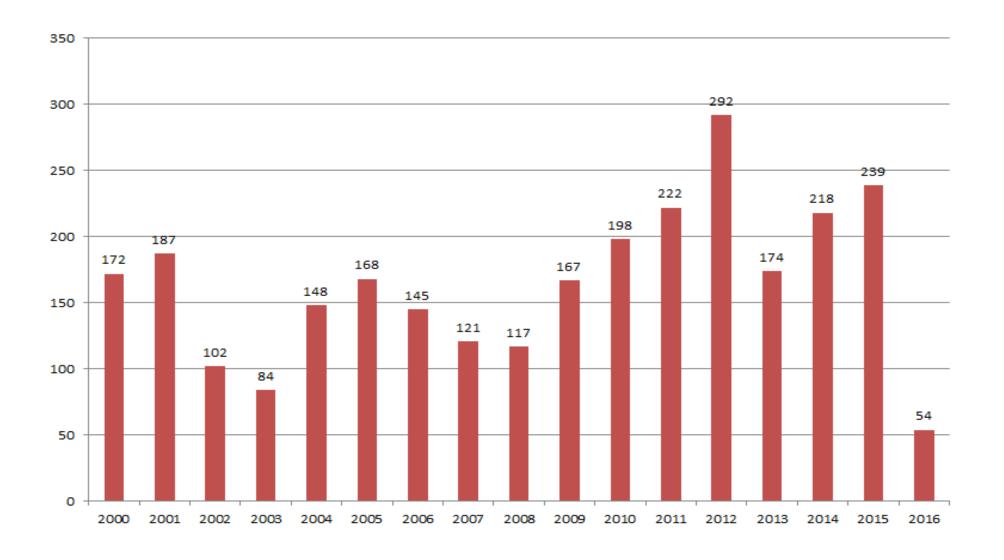


(Landings, Take offs, Touch and Go's x 2, Low Approach's x 2)



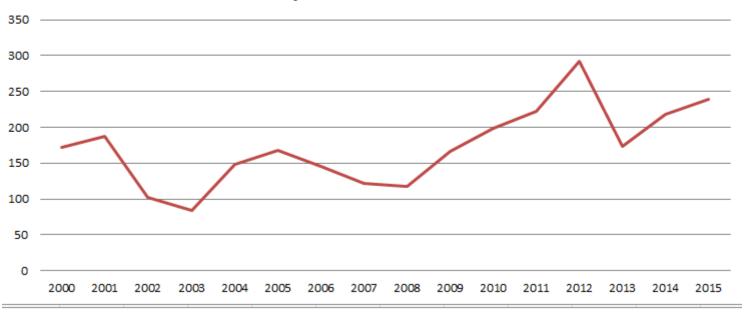
Bird Strike Reports Received by the Finnish Transport Safety Agency 2000 – Now



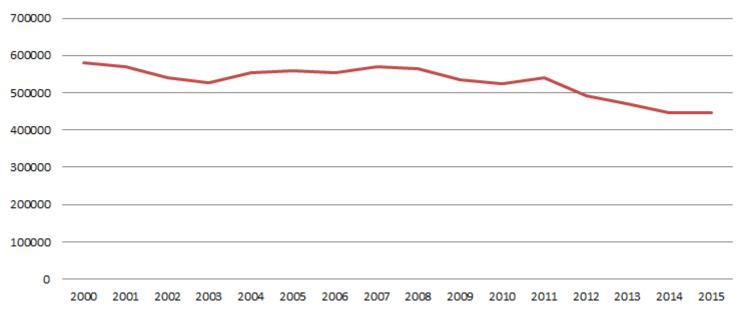


Reported Bird Strikes





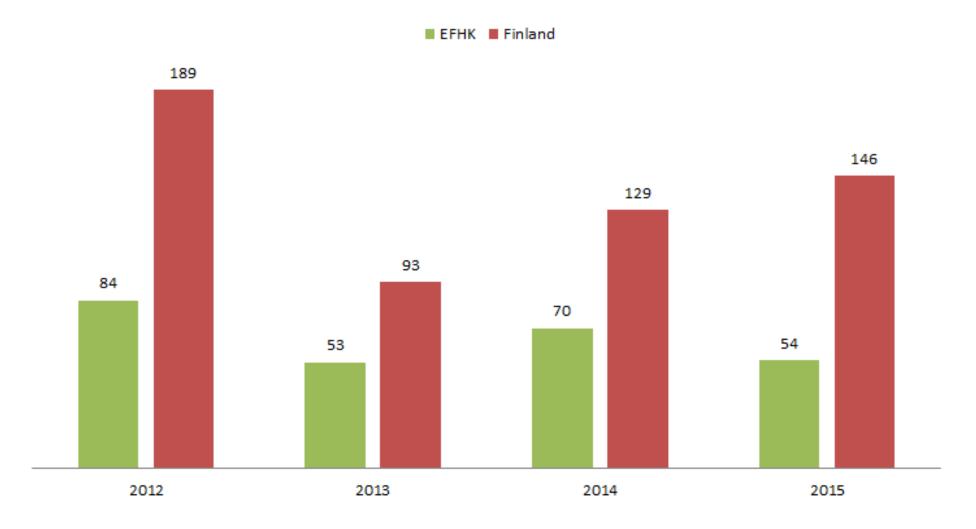
Operations in Finnish Aerodromes



Operations vs. Bird Strikes 2012 – 2015

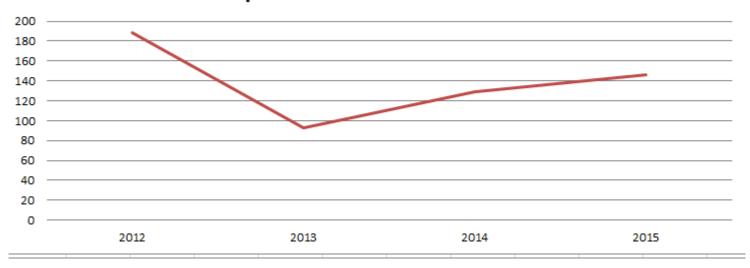


Reported Bird Strikes in EFHK and Finland 2012 - 2015

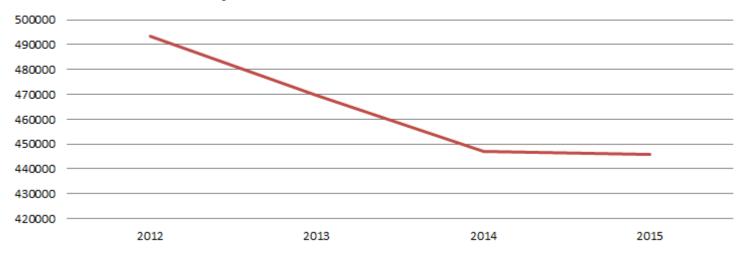




Reported Bird Strikes in Finland



Operations in Finnish Aerodromes

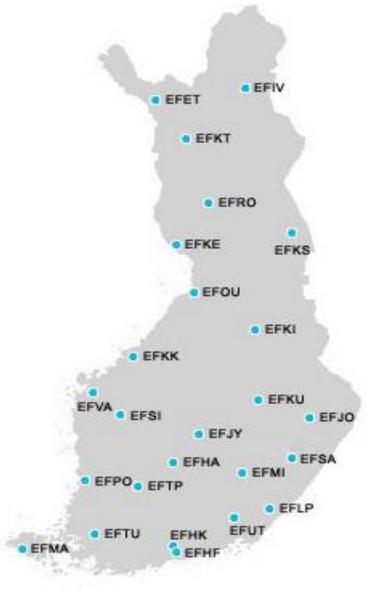


Operations vs. Bird Strikes in Finnish Aerodromes



In Finland the number of the operations is decreasing, but the number of reported bird strikes is increasing.

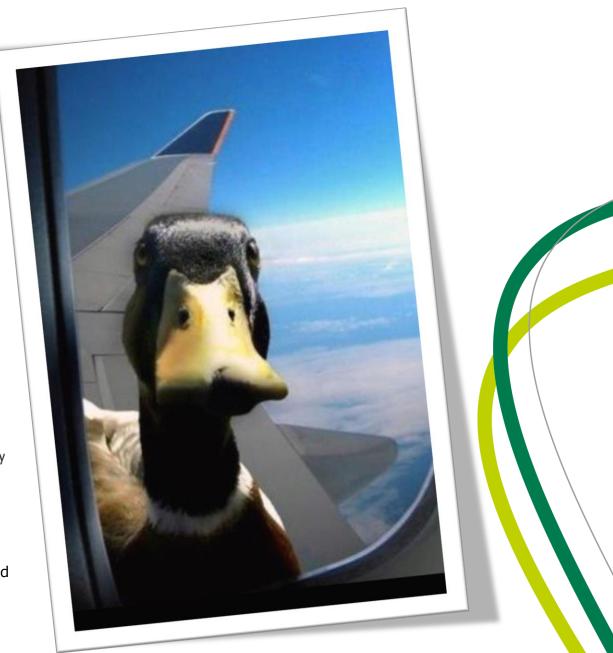
In EFHK the number of operations remains about the same, but the number of reported bird strikes is slightly decreasing.



Trends and Conclusions



- *Summer is clearly the worst season when bird strikes happen.
- *Most of the bird strikes occurred below 2000 feet. Strong correlation with the phase of flight.
- *Small birds are causing the major part of all bird strikes reported in Finland.
- *Different bird species are poorly identified. No more than 30% are identified.
- *Most of the bird strikes happens to turbofan powered aircraft. Turbopropellers and helicopters have nearly the same probability of bird strikes.
- *Poor quality in bird strike reports makes them often useless.





Finnish Transport Safety Agency

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