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Will conspicuous pied propellers keep birds away from the aircraft?

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Widerøe – Established 1934



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The propeller painting project

Lufttransport Coast Guard

FAA-AM-78-29





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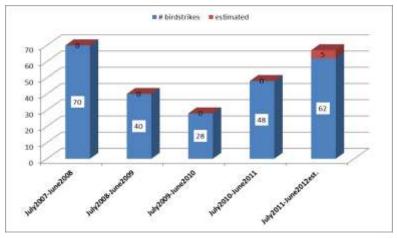


The propeller painting project

The five aircraft included in the propeller painting project by 15 June 2012	
Aircraft registration	Date of technical order
LN-WIP	31 January 2012
LN-WIL	17 April 2012
LN-WII	21 April 2012
LN-WSB	03 May 2012
LN-WIA	15 May 2012



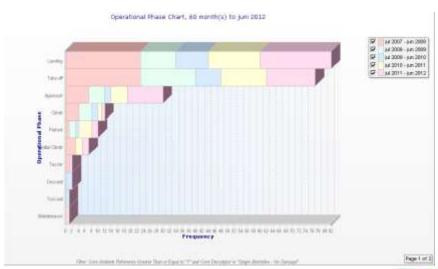
Birdstrikes in Widerøe last 5 years



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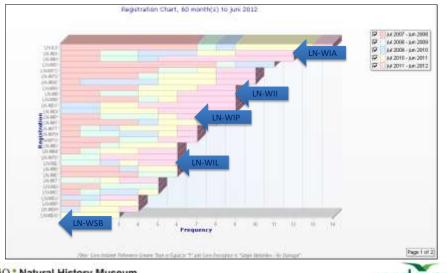


Birdstrikes by flight phase



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Birdstrikes by aircraft registration



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Preliminary results

- The 5 aircraft included in the project struck birds 28 times prior to the project, and 3 times after the project was initiated =>
 - Before: 0,12 birdstrikes per "aircraft-month"After: 0,35 birdstrikes per "aircraft-month"
- Spring season only:

Before: 0,14 birdstrikes per "aircraft-spring-month"After: 0,19 birdstrikes per "aircraft-spring-month"

Very surprisingly! But...

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Discussion

- The data are very scarce! Only 0,5-4 months.
- The project will go on for several years and include another 25 aircraft
- · There could be geographical differences
- · The size or risk of the birds not yet considered
 - Two out of three birdstrikes in 2012 with small birds
- Finally, we cannot rule out the possibility that the project may not be as effective as desired.

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