

# Effective national bird strike reporting procedures and their impact on individual airport risk management

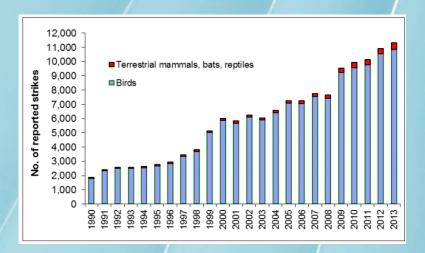
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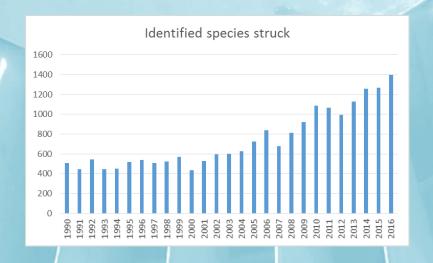
Email; info@birdstrike.co.uk www.birdstrike.co.uk

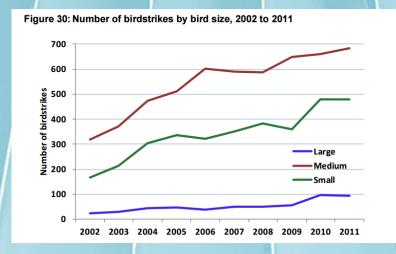


#### Birdstrike events are increasing

 Worldwide rises year on year









#### **UK Increases show 'jumps'**



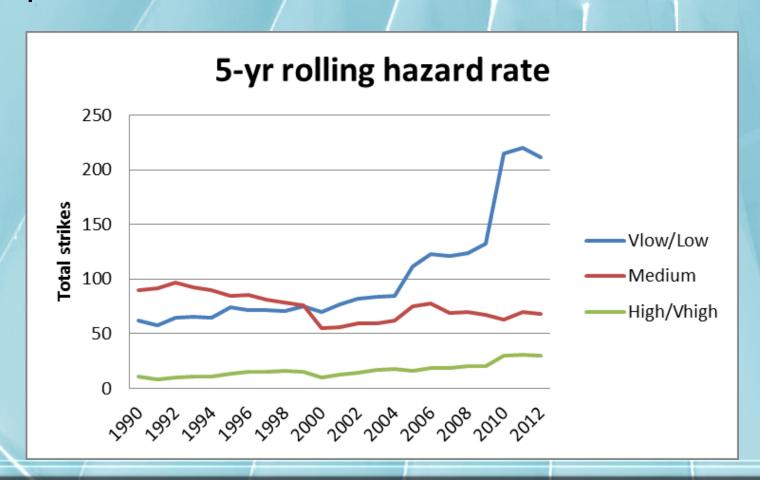
Step changes pre and post 2003.
Another step change increase 2009 (43.9%) 747.8 to 1328.2 to 1911.3

■ Mandatory reporting 2003. Electronic reporting 2009



#### Is UK 'risk' level increasing?

Understand where the 'hazard' lies; ID and species breakdown





#### How do most airports assess risk?

No. Strikes per year (airport data)	>10	3-10	1-2.9	0.3-0.9	0.2-0
Probability category	Very High	High	Moderate	Low	Very Low
Percentage of strikes causing damage (national data)	>20%	10-20%	6-9.9%	2-5.9%	0-1.9%
Severity category	Very High	High	Moderate	Low	Very Low



#### If probability is rising...

SEVERITY	PROBABILITY					
	Very High	High	Moderate	Low	Very Low	
Very High	3	3	3	3	2	
High	3	3	3	2	2	
Moderate	3	3	2		1	
Low	3	2	1	1	1	
<b>Very Low</b>	2	1	1	1	1	

The three risk levels are defined as follows:

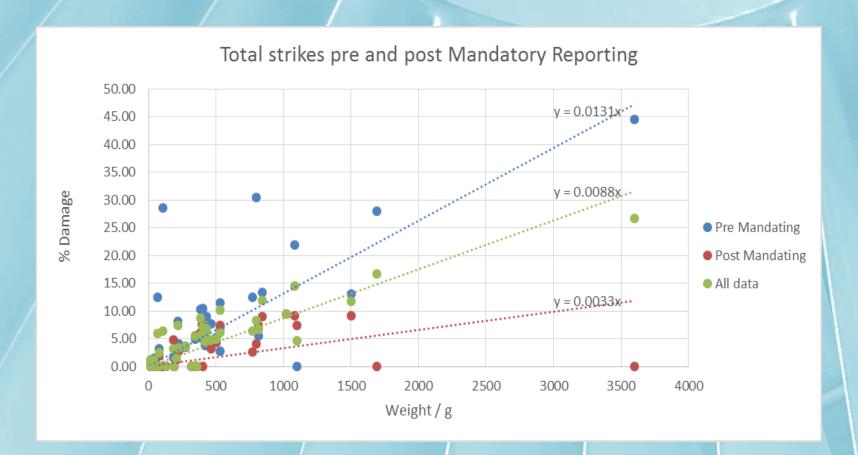
Level 1 No further action required beyond measures currently in place.

Level 2 The current residual risk requires a review of available options and possible action.

Level 3 The current residual risk requires further action to reduce it.



### What Severity impacts?





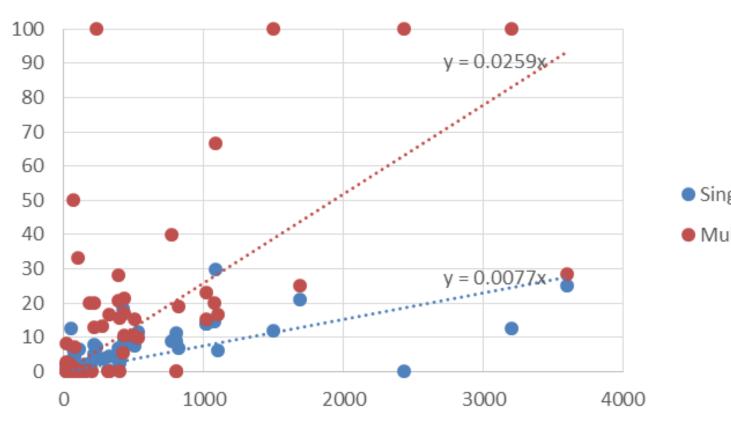
# As frequency has increased, severity has decreased





## No account of multiple impacts

#### Single vs Multiple Strikes)



- Single strikes
- Multiple Strikes



#### Data assessment

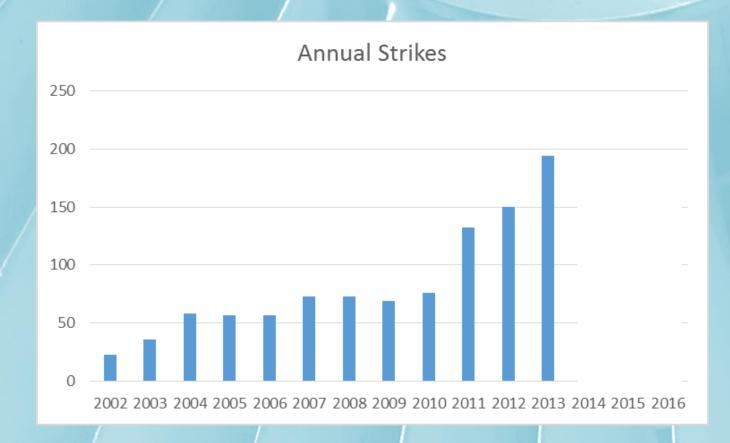
#### Multiple strikes hugely important

 Average mass of multiple strikes (where the number of birds struck was recorded) was;

Overall identified rates



# Individual airport with good recording





### **Amended Severity ratings**

- Revised national severity ratings in 2014 using updated statistics
- 2. Strikes in 'red' list risk used as a KPI by senior airport managers; emphasis on Kestrel control [22 of 37 birds]..
- 3. Revised severity ratings re-targeted high risk management at Large Gulls and large Waterfowl; both flocking groups of large / hazardous species.



#### Summary

- 1. Accurate reporting enables management action
- 2. ID of strikes required to enable control
- Good national reporting embeds in individual airports
- 4. Must ensure airports do not feel penalised but continue to control higher damaging risks
- 5. Data confirms back to basics 'large, and / or flocking birds' are the key target for all.



Thankyou

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