



#### Airport Services Manual Part 3

#### Wildlife Control and Reduction

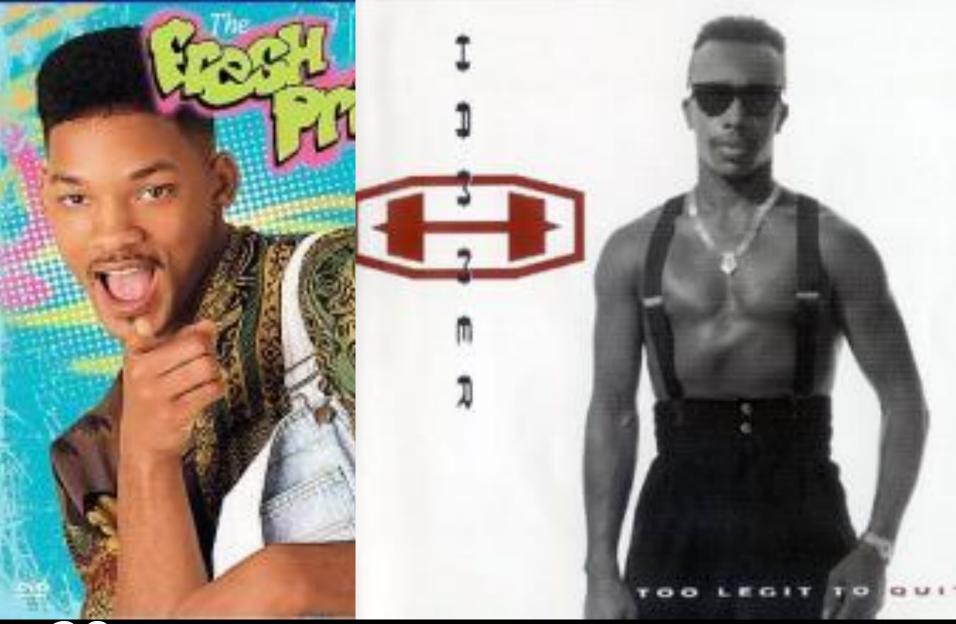
Fourth Edition - 2011

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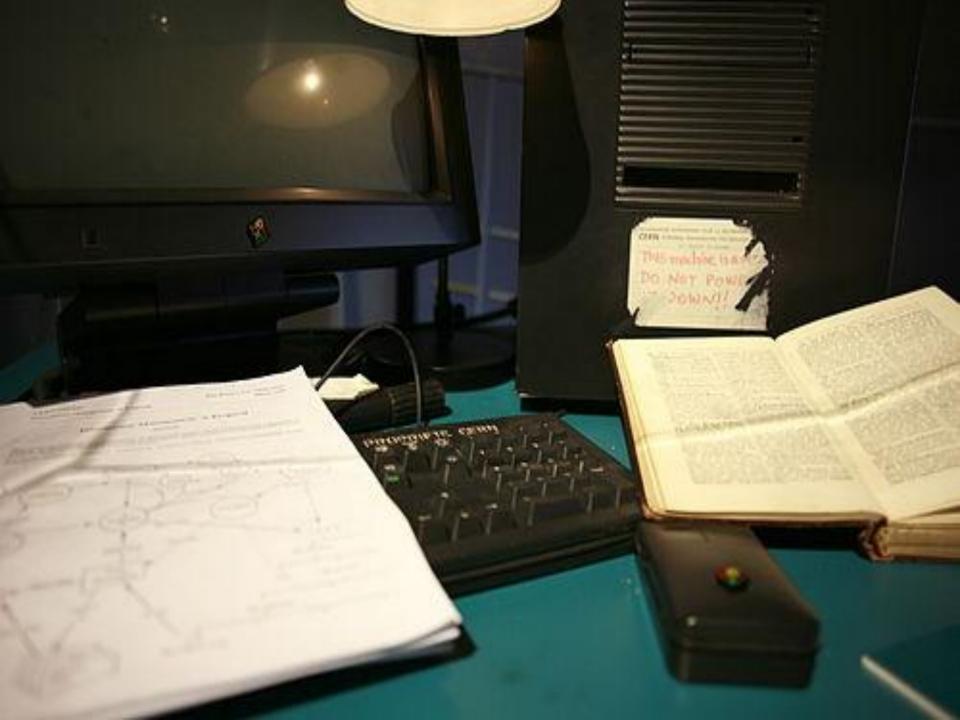
20 years ago...















### Overview

Reviewed by 10 birdstrike experts from all parts of the world (expanded to 16 for final draft)

Took about two years to complete review



### Overview

Contains 39 pages

FAA manual + 362 pages Control

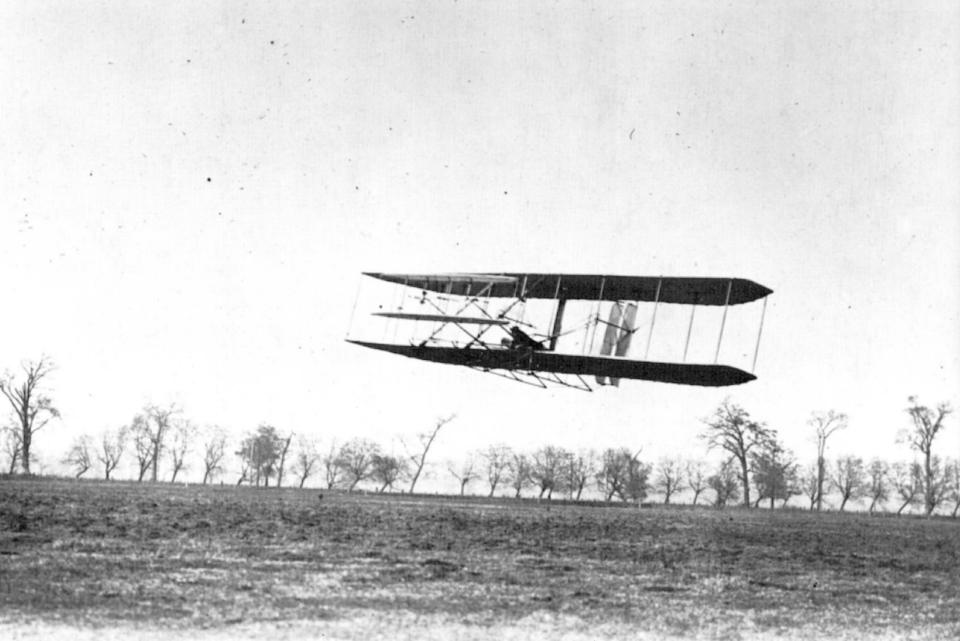
Procedures Manual

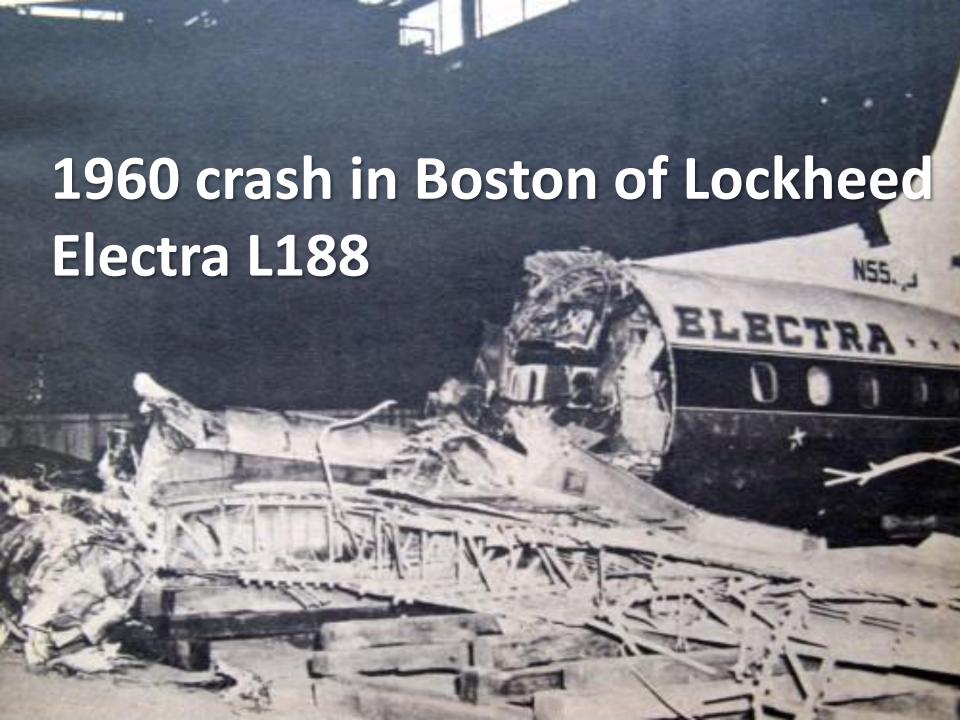
Transport Canada – 270 pages





## Contents







### **National Committees**

Composition Roles/Responsibilities





#### BIRD STRIKE REPORTING FORM

Send to:

Operator	0	/02 Effect on Flight	
Aircraft Make/Model	0	/04 none	□B2
Engine Make/Model		no aborted take-ofj	□B3
Aircraft Registration		precautionary landing	□B4
Date day month year		engines shut down	<b>□</b> 85
Local time		other (specify)	□86
dawn □ A day □ B dusk □ C night □ □			
Aerodrome Name		Sky Condition 37	
Runway Used		no cloud	<b>□</b> A
Location if En Route		some cloud	□B
Height AGL ft 15		overcast	□C
Speed (IAS) kt 16			
Phase of Flight 17		Precipitation	
parked □A en rout	te 🗆	fog	<b>□</b> 88
taxi 🗅 descei	nt 🗆	rain	□39
take-offrun □: approac	ch 🗆	snow	<b>□</b> 40
climb 🖽 landing ro	oll 🗆	ĺ	
Part(s) of Aircraft		Bird Species*	41
Struck Da	maged		
radome 🗆 18		Number of Birds	
windshield □ 19			Seen 42 Struck 43
nose (excluding above) 🗆 20		1	
engine no. 1 🗆 21		2-10	В В
<b>2</b> 🗆 22		11-100	DC DC
<b>3</b> □ 23		more	
<b>4</b> □ 24			
propeller □ 25			
wing/rotor □ 26			



### Risk Assessment

Species Group	Overall Risk Ranking	Relative Hazard Percentage
Canada Geese	1.1	100
Snow Geese	2	94
Seagulls (all species)	3	8
Ducks	4	
Vultures	5	5
Flocking Birds*	6	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Raptors	7	Carlotte State State State
Egrets/Herons	8	
Crows	9	
Songbirds	10	
Shorebirds	11	
Kestrels	12	<1
Owls	13	Se A <1 To A South Control of the Co
Swallows	14	
Groundhogs	15	
Deer	16	<1
Foxes	17	
Rabbits	18	

<sup>\*</sup> Flocking birds consists of species such as red-winged blackbirds, starlings, grackles, etc.

# Staff Training







# Aircraft Operator Duties











#### **Typical Attractants**

Food

Water

Shelter





# **Chemical Repellants**









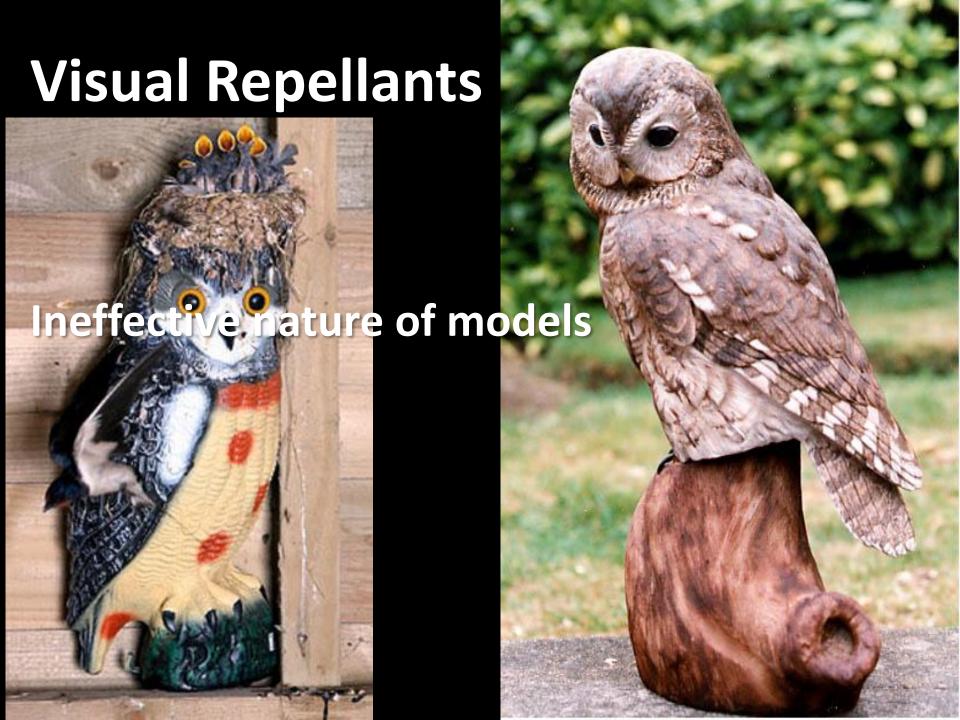
## **Auditory Devices**

Gas Cannons
Distress Calls



## **Auditory Devices**

















## **Best Practices**



# International Birdstrike Committee

**Recommended Practices No. 1** 

Standards For Aerodrome Bird/Wildlife Control

## Incompatible Land Use



### ICAO Doc 9184 (Part 2)

#### Airport Planning Manual

Part 2 Land Use and Environmental Control

Approved by the Secretary General and published under his authority

Third Edition - 2002

International Civil Aviation Organization

# **Evaluating Wildlife Program**



## **14 Basic Questions**

- 1. Is there a wildlife control officer responsible for the management of wildlife on the airport?
- 2. Has a land use plan been established with regard to effective land use on and off airport as it pertains to the wildlife control programme?
- 3. What ecological measures are implemented to reduce wildlife attractiveness at the airport and in the vicinity?
- 4. Is there a habitat management programme on the airport?
- 5. Are garbage dumps forbidden around the airport? At what distance?
- 6. Is the airport fence suitable to prevent hazardous animal incursions?
- 7. Which scaring methods are implemented at the airport?



# **Emerging Technologies**





# USA/Canada Birdstrike Conference 2011



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