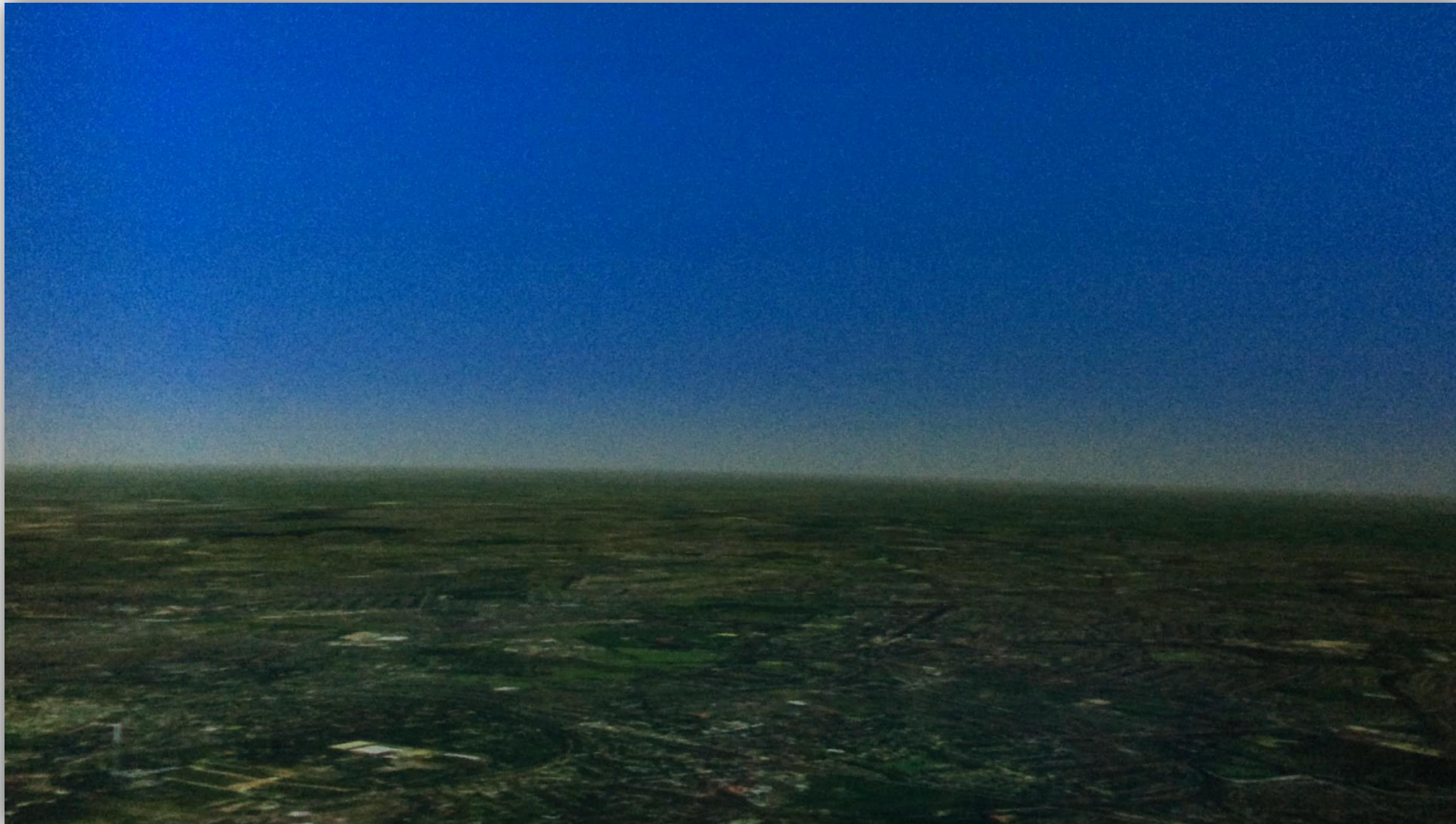


A top-down aerial view of a white commercial airplane flying through a sky filled with soft, white clouds. The airplane is centered in the frame, with its wings spread wide. The tail section is visible at the bottom of the image.

Reporting a Wildlife Strike

A pilot's view of a birdstrike



What is the pilot's responsibility?



“

The pilot in command is responsible for the safety of all crew members, passengers and cargo on board the aircraft

”

What can pilots contribute?



- ▶ Operational insight on local Runway Safety Team
- ▶ Operational perspective for international coordination
- ▶ Wildlife strike reports

Pilot Role in Runway Safety Teams

- ▶ Provide technical expertise with regards to local procedures and conditions at an aerodrome
- ▶ Collaborate as **partners** with the goal to **improve safety**
- ▶ Share experiences and propose areas for improvement
- ▶ Provide **operational** insight into planned changes



Runway Safety Teams



- ▶ **Wildlife** issues must be assessed from an a holistic point of view
- ▶ Requires an understanding of the international, national and local regulations concerning:
 - ▶ Wildlife
 - ▶ Aerodromes
 - ▶ Environment

WHO is at RISK?





Operational perspective for international coordination

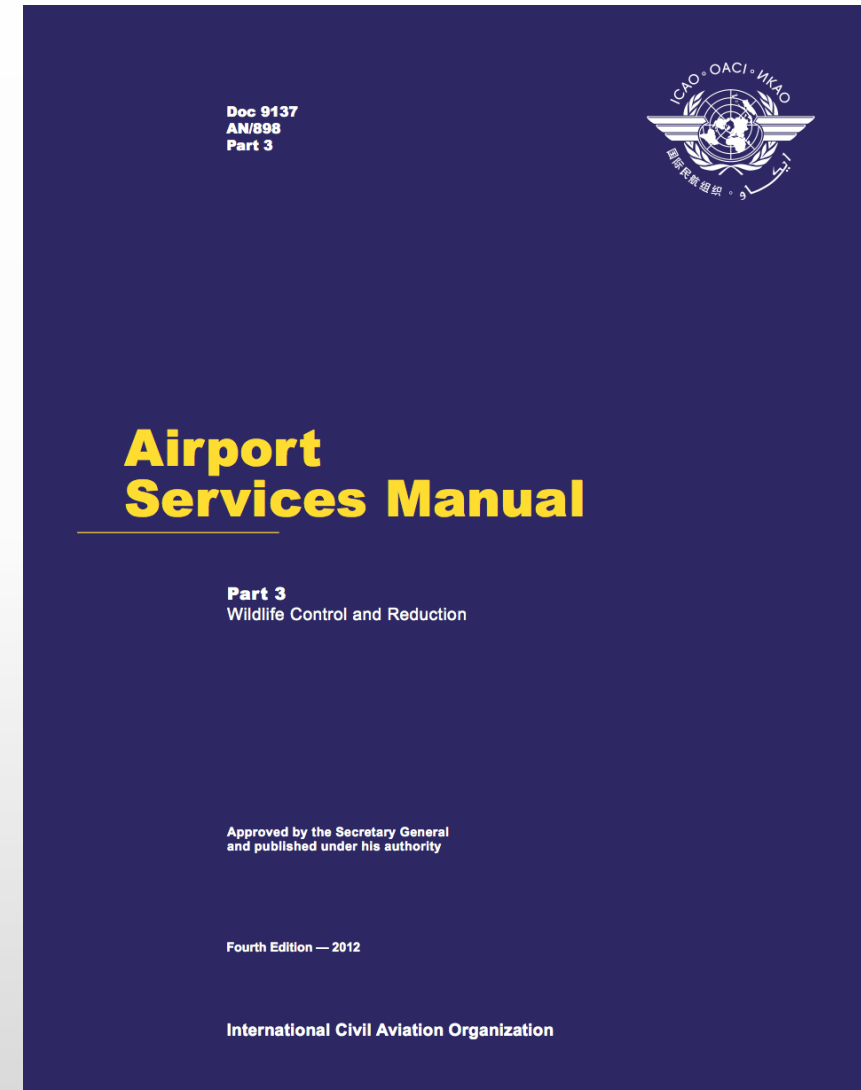
- ▶ IFALPA participates in many different forums
 - ▶ ICAO
 - ▶ CARSAMPAF
 - ▶ World Birdstrike Association
 - ▶ BSC US/CAN
 - ▶ IBIS



Wildlife strike reports

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

b) the collection of information from aircraft operators, aerodrome personnel and other sources on the presence of wildlife on or around the aerodrome constituting a potential hazard to aircraft operations; and





Is the problem/solution local/regional/global?

Abflug / Departures											
vorussicht. estimated	Gate	Flug Flight	nach to	Check-in	planmäßig scheduled	vorussicht. estimated	Gate	Flug Flight	nach to	Check-in	planmäßig scheduled
21:30	F22	LT 302	Korfu/Kerkyra	A	06:00	A18		LH 4794	London/Sta		
21:00	A05	DI 8322	Palma d.Mallorca	D	06:00	015		HF 7083	Palma d.Ma		
	A03	bo&pd&ogen	Rhodos	Z	06:00	A28	Zentralgeb	AZ 439	Malland/Ma		
	C10	DE 7802	Antalya	Z	06:05	B03	Zentralgeb	AF 1223	Paris/COB		
	A28	LT 030	Faro	A	06:05	A11		LH 1045	Berlin/Teo		
	B01	bo&pd&ogen	Heraklion	Z	06:05	A21	Zentralgeb	LH 229	Frankfurt/		
	C01	cancelled!	Las Palmas	C	06:05	001		LH 4566	London/Hoo		
	D08	Ob&kt&iver	Malaga	D	06:05	003		AZ 435	Rom		
	D11	YP 7838	Antalya	C	06:10	C03		BR 947	London/Hes		
	C04	LT 204	Rihen	A	06:10	A18		LH 5574	Florenz		
	A18	DI 8388	Faro	D	06:10	018		SK 860	Kopenhagen		
	A21	Ob&kt&iver	Antalya	D	06:15	C08		DI 7082	Düsseldorf		
	B03	LH 5071	Frankfurt/Main	A	06:30	A09		LH 099	Frankfurt		
*****		KL 1790	Amsterdam	D	07:00	022		DE 8112	Punta Can		
	005	SN 2850	Brüssel	D	07:00	015	Qualifier	SR 559	Zürich		
	D22	BR 4714	London/Batwick	D	07:00	001		LH 5774	Toulouse		

- ▶ How to report a Safety event if there is no place to do it?
- ▶ WWW technology should be use to facilitate this processes
- ▶ In a common language



BIRD STRIKE REPORTING FORM 鳥衝突報告

鳥衝突 (Birdstrike) 鳥とのニアミス (Near-miss)

Operator 運航者	<input type="text"/>	01/02	Effect on Flight フライトへの影響	
Aircraft Make/Model 航空機型式	<input type="text"/>	03/04	none なし	<input type="checkbox"/> 32
Engine Make/Model 発動機型式	<input type="text"/>	05/06	aborted take-off 離陸中止	<input type="checkbox"/> 33
Aircraft Registration 登録番号	<input type="text"/>	07	precautionary landing 目的地外着陸	<input type="checkbox"/> 34
Date 日付	day <input type="text"/> month <input type="text"/> year <input type="text"/>	08	engines shut down 発動機停止	<input type="checkbox"/> 35
Local time 時刻	h <input type="text"/> : m <input type="text"/> JST(UTC +9hrs)	09	other(specify) その他(詳細を記入)	<input type="checkbox"/> 36
dawn <input type="checkbox"/> day <input type="checkbox"/> dusk <input type="checkbox"/> night <input type="checkbox"/>	薄明 昼間 薄暮 夜間	10	Sky Condition 天候状態	37
Aerodrome Name 空港名	<input type="text"/>	11/12	no cloud 快晴	<input type="checkbox"/> A
Runway Used 使用滑走路	<input type="text"/>	13	some cloud 一部雲	<input type="checkbox"/> B
Location if En Route 発生場所	<input type="text"/>	14	overcast 一面雲	<input type="checkbox"/> C
Height AGL 地上よりの高さ	<input type="text"/> ft	15	Precipitation 降水	
Speed(IAS) 指示対気速度	<input type="text"/> kt	16	fog 霧	<input type="checkbox"/> 38
Phase of Flight 衝突事故発生時の飛行区分		17	rain 雨	<input type="checkbox"/> 39
parked <input type="checkbox"/> en route <input type="checkbox"/>	駐機 巡航		snow 雪	<input type="checkbox"/> 40
taxi <input type="checkbox"/> descent <input type="checkbox"/>	タキシング 降下		Bird Species 鳥の種類	41
			sparrow <input type="checkbox"/> swallow <input type="checkbox"/> plover/sandpipe <input type="checkbox"/>	
			gull <input type="checkbox"/> crow <input type="checkbox"/> pigeon <input type="checkbox"/>	
			egret <input type="checkbox"/> kite <input type="checkbox"/> other <input type="checkbox"/>	
			unknown <input type="checkbox"/> other(specify) 不明 その他(鳥種を記入)	



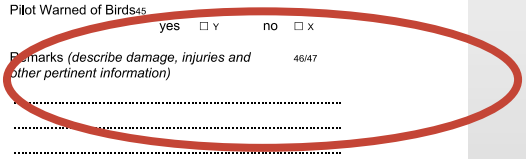
WILDLIFE REPORTING FORMAT

Part 3. Wildlife Control and Reduction
 Chapter 3. Roles and Responsibilities within a Bird/Wildlife Strike Control Programme 3-3

BIRD STRIKE REPORTING FORM

Send to: _____

Operator	01/02	Effect on Flight	<i>none</i> <input type="checkbox"/> 32
Aircraft Make/Model	03/04		<i>aborted take-off</i> <input type="checkbox"/> 33
Engine Make/Model	05/06		<i>precautionary landing</i> <input type="checkbox"/> 34
Aircraft Registration	07		<i>engines shut down</i> <input type="checkbox"/> 35
Date day month year	08		<i>other (specify)</i> <input type="checkbox"/> 36
Local time	09	Sky Condition ³⁷	<i>no cloud</i> <input type="checkbox"/> A
dawn <input type="checkbox"/> A day <input type="checkbox"/> B dusk <input type="checkbox"/> C night <input type="checkbox"/> D	10		<i>some cloud</i> <input type="checkbox"/> B
Aerodrome Name	11/12		<i>overcast</i> <input type="checkbox"/> C
Runway Used	13	Precipitation	<i>fog</i> <input type="checkbox"/> 38
Location if En Route	14		<i>rain</i> <input type="checkbox"/> 39
Height AGL	ft 15		<i>snow</i> <input type="checkbox"/> 40
Speed (IAS)	kt 16	Bird Species*	41
Phase of Flight ¹⁷	<i>parked</i> <input type="checkbox"/> A <i>en route</i> <input type="checkbox"/> E	Number of Birds	<i>Seen</i> ⁴² <i>Struck</i> ⁴³
<i>taxi</i> <input type="checkbox"/> B <i>descent</i> <input type="checkbox"/> F	<i>take-off run</i> <input type="checkbox"/> C <i>approach</i> <input type="checkbox"/> G		<i>1</i> <input type="checkbox"/> A <input type="checkbox"/> A
<i>climb</i> <input type="checkbox"/> D <i>landing roll</i> <input type="checkbox"/> H			<i>2-10</i> <input type="checkbox"/> B <input type="checkbox"/> B
Part(s) of Aircraft	<i>Struck</i> <i>Damaged</i>		<i>11-100</i> <input type="checkbox"/> C <input type="checkbox"/> C
<i>radome</i> <input type="checkbox"/> 18 <input type="checkbox"/>	<input type="checkbox"/> 18 <input type="checkbox"/>		<i>more</i> <input type="checkbox"/> D <input type="checkbox"/> D
<i>windshield</i> <input type="checkbox"/> 19 <input type="checkbox"/>	<input type="checkbox"/> 19 <input type="checkbox"/>	Size of Bird ⁴⁴	<i>small</i> <input type="checkbox"/> S
<i>nose (excluding above)</i> <input type="checkbox"/> 20 <input type="checkbox"/>	<input type="checkbox"/> 20 <input type="checkbox"/>		<i>medium</i> <input type="checkbox"/> M
<i>engine no. 1</i> <input type="checkbox"/> 21 <input type="checkbox"/>	<input type="checkbox"/> 21 <input type="checkbox"/>		<i>large</i> <input type="checkbox"/> L
<i>2</i> <input type="checkbox"/> 22 <input type="checkbox"/>	<input type="checkbox"/> 22 <input type="checkbox"/>	Pilot Warned of Birds ⁴⁵	<i>yes</i> <input type="checkbox"/> Y <i>no</i> <input type="checkbox"/> X
<i>3</i> <input type="checkbox"/> 23 <input type="checkbox"/>	<input type="checkbox"/> 23 <input type="checkbox"/>		
<i>4</i> <input type="checkbox"/> 24 <input type="checkbox"/>	<input type="checkbox"/> 24 <input type="checkbox"/>	Remarks (describe damage, injuries and other pertinent information) ^{46/47}	
<i>propeller</i> <input type="checkbox"/> 25 <input type="checkbox"/>	<input type="checkbox"/> 25 <input type="checkbox"/>		
<i>wing/rotor</i> <input type="checkbox"/> 26 <input type="checkbox"/>	<input type="checkbox"/> 26 <input type="checkbox"/>		
<i>fuselage</i> <input type="checkbox"/> 27 <input type="checkbox"/>	<input type="checkbox"/> 27 <input type="checkbox"/>		
<i>landing gear</i> <input type="checkbox"/> 28 <input type="checkbox"/>	<input type="checkbox"/> 28 <input type="checkbox"/>		
<i>tail</i> <input type="checkbox"/> 29 <input type="checkbox"/>	<input type="checkbox"/> 29 <input type="checkbox"/>		
<i>lights</i> <input type="checkbox"/> 30 <input type="checkbox"/>	<input type="checkbox"/> 30 <input type="checkbox"/>		
<i>other (specify)</i> <input type="checkbox"/> 31 <input type="checkbox"/>	<input type="checkbox"/> 31 <input type="checkbox"/>		



Reported by * Send all bird remains including feather fragments to:
 (Optional)

THIS INFORMATION IS REQUIRED FOR AVIATION SAFETY

Figure 3-1. Sample Form 1



U.S. Department of Transportation Federal Aviation Administration		<h2 style="margin: 0;">BIRD / OTHER WILDLIFE STRIKE REPORT</h2>																																	
1. Name of Operator		2. Aircraft Make/Model																																	
4. Aircraft Registration		5. Date of Incident _____ / _____ / _____ Month Day Year																																	
7. Airport Name		8. Runway Used																																	
10. Height (AGL)		11. Speed (IAS)																																	
12. Phase of Flight		13. Part(s) of Aircraft Struck or Damaged																																	
<input type="checkbox"/> A. Parked <input type="checkbox"/> B. Taxi <input type="checkbox"/> C. Take-off Run <input type="checkbox"/> D. Climb <input type="checkbox"/> E. En Route <input type="checkbox"/> F. Descent <input type="checkbox"/> G. Approach <input type="checkbox"/> H. Landing Roll		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th style="text-align: center;">Struck</th> <th style="text-align: center;">Damaged</th> </tr> </thead> <tbody> <tr> <td>A. Radome</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>B. Windshield</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>C. Nose</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>D. Engine No. 1</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>E. Engine No. 2</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>F. Engine No. 3</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>G. Engine No. 4</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>				Struck	Damaged	A. Radome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B. Windshield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C. Nose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D. Engine No. 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E. Engine No. 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F. Engine No. 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G. Engine No. 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Struck	Damaged																														
A. Radome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
B. Windshield	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
C. Nose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
D. Engine No. 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
E. Engine No. 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
F. Engine No. 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
G. Engine No. 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th style="text-align: center;">Struck</th> <th style="text-align: center;">Damaged</th> </tr> </thead> <tbody> <tr> <td>H. Propeller</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>I. Wing/Rotor</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>J. Fuselage</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>K. Landing Gear</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>L. Tail</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>M. Lights</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>N. Other: (Specify)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>				Struck	Damaged	H. Propeller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I. Wing/Rotor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	J. Fuselage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	K. Landing Gear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L. Tail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M. Lights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N. Other: (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Struck	Damaged																																
H. Propeller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
I. Wing/Rotor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
J. Fuselage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
K. Landing Gear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
L. Tail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
M. Lights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
N. Other: (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
14. Effect on Flight		15. Sky Condition																																	
<input type="checkbox"/> None <input type="checkbox"/> Aborted Take-Off <input type="checkbox"/> Precautionary Landing <input type="checkbox"/> Engines Shut Down <input type="checkbox"/> Other: (Specify)		<input type="checkbox"/> No Cloud <input type="checkbox"/> Some Cloud <input type="checkbox"/> Overcast																																	
17. Bird/Other Wildlife Species		16. Precipitation																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">18. Number of birds seen and/or struck</th> </tr> <tr> <th style="text-align: center;">Number of Birds</th> <th style="text-align: center;">Seen</th> <th style="text-align: center;">Struck</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;">2-10</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;">11-100</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;">more than 100</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>		18. Number of birds seen and/or struck			Number of Birds	Seen	Struck	1	<input type="checkbox"/>	<input type="checkbox"/>	2-10	<input type="checkbox"/>	<input type="checkbox"/>	11-100	<input type="checkbox"/>	<input type="checkbox"/>	more than 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Fog <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> None															
		18. Number of birds seen and/or struck																																	
Number of Birds	Seen	Struck																																	
1	<input type="checkbox"/>	<input type="checkbox"/>																																	
2-10	<input type="checkbox"/>	<input type="checkbox"/>																																	
11-100	<input type="checkbox"/>	<input type="checkbox"/>																																	
more than 100	<input type="checkbox"/>	<input type="checkbox"/>																																	
		19. Size of Bird(s)																																	
		<input type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large																																	
20. Pilot Warned of Birds <input type="checkbox"/> Yes <input type="checkbox"/> No																																			
21. Remarks <i>(Describe damage, injuries and other pertinent information)</i>																																			
DAMAGE / COST INFORMATION																																			
22. Aircraft time out of service: _____ hours		23. Estimated cost of repairs or replacement (U.S. \$): \$ _____																																	
		24. Estimated other Cost (U.S.\$) (e.g. loss of revenue, fuel, hotels): \$ _____																																	
Reported by (Optional)		Title																																	
		Date																																	
<p><small>Paperwork Reduction Act Statement: The information collected on this form is necessary to allow the Federal Aviation Administration to assess the magnitude and severity of the wildlife-aircraft strike problem in the U.S. The information is used in determining the best management practices for reducing the hazard to aviation safety caused by wildlife-aircraft strikes. We estimate that it will take approximately 6 minutes to complete the form. The information collected is voluntary. Please note that an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection is 2120-0045. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave SW, Washington, DC 20591. Alt: Information Collection Clearance Officer, ABA-20</small></p>																																			

Time to find the report format.....



- ▶ Average turn around 25-60 min
- ▶ Easy and accessible processes
- ▶ Cabin procedures



Branta canadensis maxima



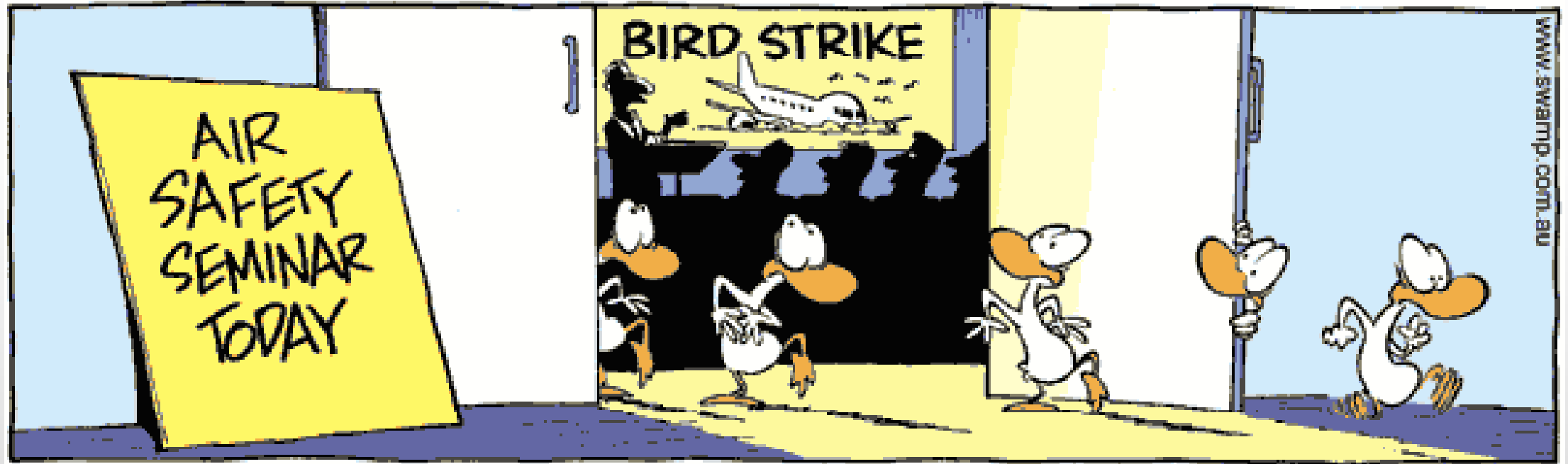
Primary flight display (PFD)





The Mission of IFALPA is to promote the highest level of aviation safety worldwide and to be the global advocate of the piloting profession; providing representation, services and support to both our members and the aviation industry.

Nowbody should be left out!!!





Thank you



@ifalpa



www.ifalpa.org



facebook.com/ifalpa