

## 2008 Summary Report – Wildlife Strikes to Canadian Aircraft

### 1.1 How This Report is Organized

This report provides a summary of Canadian wildlife strike statistics for 2008. It is intended for the use of all stakeholders involved with Airport Bird and Mammal Control Programs. Included in this group are pilots, airfield staff, airline maintenance personnel, airport managers, and Transport Canada staff. The information contained in this edition reflects the 2008 situation only, and therefore may differ from established trends.

It should be noted that Wildlife Strike incidents are reported from four major sources, each with a different emphasis. A large portion of the information is derived from Canada's major international airports, and therefore reflects wildlife strikes for transport aircraft, and within these, mostly commercial airlines. These sources are:

- i. **Pilot Reports:** These reports are completed by private and commercial pilots in one of several formats. They are submitted voluntarily and regularly by most airline pilots and emphasize aircraft and flight parameters at the time of a strike.
- ii. **Department of National Defense Reports:** Pilots of all DND aircraft and Air Traffic Services personnel are required to complete and submit reports of wildlife strikes. They use forms similar to those used by civilian pilots, but submit them to DND. This information is then forwarded to Transport Canada for incorporation into this report.
- iii. **Airline Headquarters Reports:** Airlines submit summaries of wildlife strike incidents to Transport Canada on a voluntary basis. These reports emphasize aircraft damage, repair costs, and the operational effects of wildlife strikes.
- iv. **Airport Site Reports:** Canadian airport operators are required to submit reports on all wildlife incidents that occur at their sites. These reports are submitted to Transport Canada on an annual basis or throughout the year.

Wildlife strikes are often reported through more than one source. When this occurs, specific information from the different sources is combined into a single incident report. The result is a more complete description of wildlife strike incidents. Once reviewed by Transport Canada, strike data are entered into a database information system for record keeping and analysis. This original data can include:

- Kind of bird or mammal
- Time of occurrence
- Phase of flight
- Aircraft struck
- Altitude of strike
- Aircraft operator
- Date of occurrence
- Sky conditions
- Aircraft damage
- Effect on flight
- Parts damaged
- Airport

## 1.2 2008 Highlights

This report is organized into four major sections:

- i. **Section 1: Introduction**
- ii. **Section 2: Overall 2008 Wildlife Strike Information** - a general overview of the Canadian wildlife strike situation, including strikes which involved either military or civilian aircraft, in Canada or abroad.
- iii. **Section 3: Wildlife Incidents at Canadian Airports** - key aspects of the wildlife strike situation as they apply to Canadian airports, from national to local perspectives.
- iv. **Section 4: Wildlife Incidents Involving Military Aircraft** - a focus on the segment of wildlife strikes involving Canadian military aircraft.

**Note:** The following points should be kept in mind when reviewing the information in this report:

- The summary report has been generated from wildlife strike reports and for all practical reasons provides a reasonably clear description of the 2008 wildlife strike situation. However, there is no way of knowing precisely how many strikes go unreported, or how they may or may not affect information in this report.
- The total number of reported bird strikes has decreased from the calendar years 2007 to 2008 with 1324 strikes reported in 2007 and 1230 strikes reported during 2008.
- The definition of a bird strike, as agreed to by the Bird Strike Committee Canada, is as follows:  
A bird strike is deemed to have occurred whenever:
  - A pilot reports a bird strike;
  - Aircraft maintenance personnel identify damage to an aircraft as having been caused by a bird strike;
  - Personnel on the ground report seeing an aircraft strike one or more birds; or
  - Bird remains, whether whole or in part, are found on an airside pavement area or within 200 feet of a runway, unless another reason for the bird's death is identified.
- A total of 1,230 bird strikes were reported to the Aerodromes and Air Navigation Branch in 2008. Of these, 1,202 occurred at Canadian sites and 18 occurred in the United States of America.
- A total of 11 mammal strikes were reported. The type of mammal that was struck most often was the raccoon (27%).
- Of the incidents reported, 626 did not identify a bird. The types of bird most often struck were shorebirds (19%), followed by perching birds (Y) (9.2%), perching birds (Z) (7.3%), and hawks and eagles (5.4%).
- The month with the highest number of bird strikes was August (19.9%), followed by July (15.4%), and September (14.2%). The time of day in which the most incidents occurred was between 7:00am to 7:00pm. The time with the most amounts of strikes was at 8am (7.2%).

- Fourteen percent of incidents with a reported altitude occurred at ground level and seven percent occurred between 1 and 200 feet AGL. Seventy-one percent did not report strike altitude.
- Thirty percent of the incidents with a reported phase of flight occurred during landing. Twenty-nine percent of incidents with a reported phase of flight occurred during takeoff.
- The aircraft most involved in strikes, irrespective of the number of aircraft movements were Boeing B-737-700 (7.7%), Bombardier CRJ 100/200 (5.2%), and De Havilland DCH-8/300 (5%). Just over three percent (3.2%) of reported incidents did not report the aircraft model.
- The parts of the aircraft most often struck were the wings, windshield, and nose.
- Fifty percent of all strikes to the tail resulted in damage; Thirty-six percent of all strikes to the engines resulted in damage; and Eighteen percent of all strikes to the wings resulted in damage.

**Note:** This report is based on wildlife strike data supplied to Transport Canada by the various sources listed in the introduction, and therefore reflects the nature of the information furnished as well as the interpretation provided by the individuals who prepared the strike report.

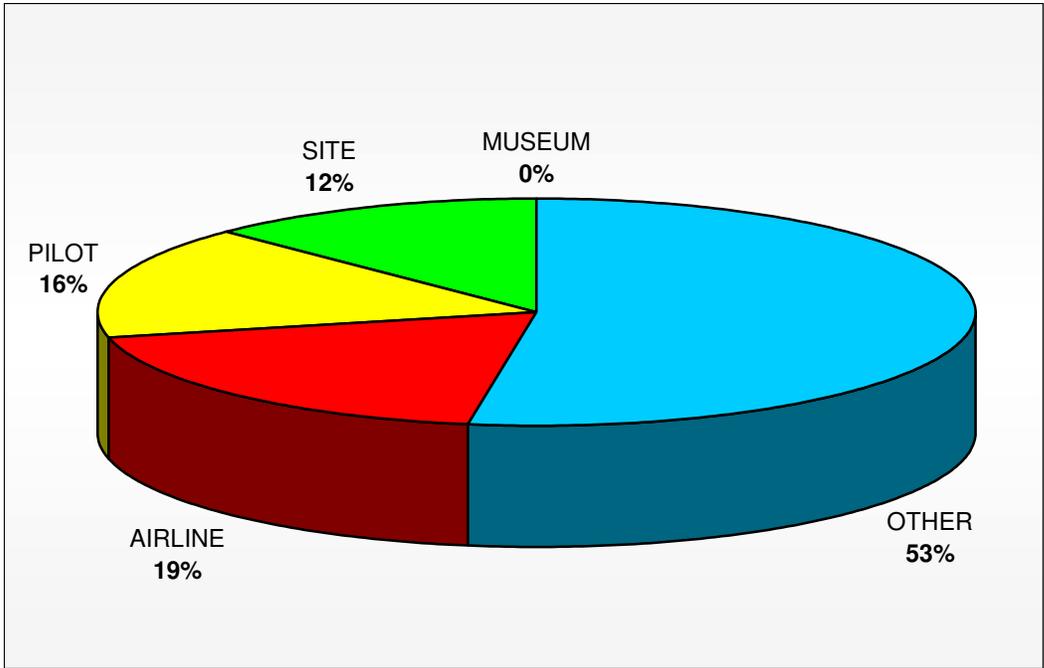
## 2.0 Overall Bird Strike Information

### 2.1a Number of Reported Bird Strikes to Canadian Aircraft

Location	# Of Strikes	% Of Total Strikes
Canada	1202	97.7%
United States	18	1.5%
Foreign	10	0.8%
Unknown	----	----
<b>TOTAL</b>	<b>1230</b>	<b>100%</b>

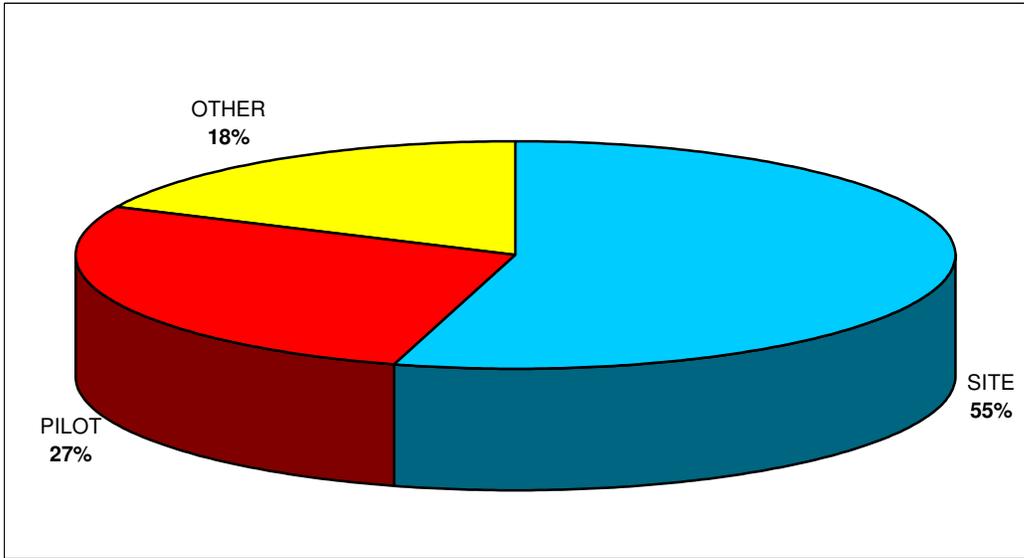
\* Near misses and mammal strikes not included

### 2.1b Bird Strikes: Reporting Sources



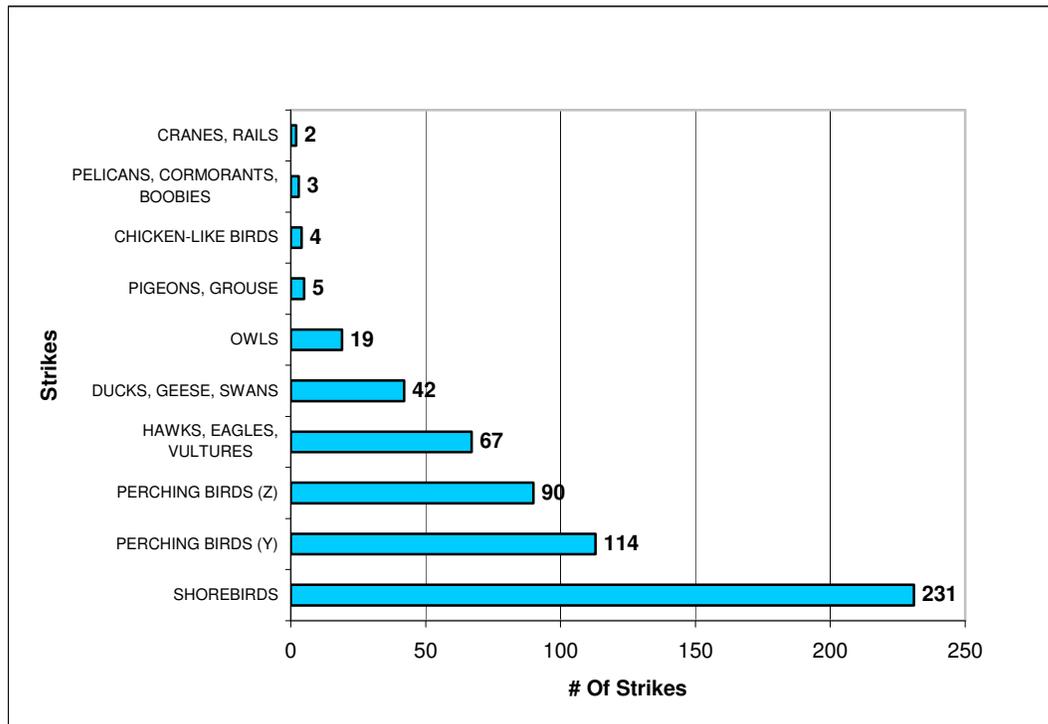
Reporting Source	# Of Strikes	Total Bird Strikes
OTHER	645	52.44%
AIRLINE	232	18.86%
PILOT	200	16.26%
SITE	152	12.36%
MUSEUM	1	0.08%

**2.1c Mammal Strikes: Reporting Sources**



Reporting Source	# Of Strikes	Total Mammal Strikes
PILOT	3	54.55%%
SITE	6	27.27%
OTHER	2	18.18%

## 2.2a Bird Strikes: Top Ten Involved Species



\* 626 reports did not identify the bird species.

Species Name	# Of Strikes
SHOREBIRDS	231
PERCHING BIRDS (Y)	114
PERCHING BIRDS (Z)	90
HAWKS, EAGLES, VULTURES	67
DUCKS, GEESE, SWANS	42
OWLS	19
PIGEONS, GROUSE	5
CHICKEN-LIKE BIRDS	4
PELICANS, CORMORANTS, BOOBIES	3
CRANES, RAILS	2

\***Perched Birds (Y)** – Includes members of the Flycatcher, Pewee, Kingbird, Lark, Swallows, Purple Martin, Starling, Myna, Crow, Jay, Magpies, Ravens, Butcherbird, Titmice, Chickadees, Nuthatch or Creeper families.

\*\***Perched Birds (Z)** – Includes members of the Bulbul, Dipper, Wren, Thrasher, Mockingbird, Catbird, Thrush, Bluebird, Wheatear, Robin, Kinglet, Accentors, Wagtail, Pipit, Waxwing, Shrike, Vireos, Warbler, Ovenbird, Oriole, Meadowlark, Cowbird, Blackbird, Grackle, Tanager, Cardinal, Bunting, Sparrow, Finch, Longspur, Junco, Grosbeak, Siskin, Redpoll, Towhee, Waxbill, Manikin, or Parrot finch family.

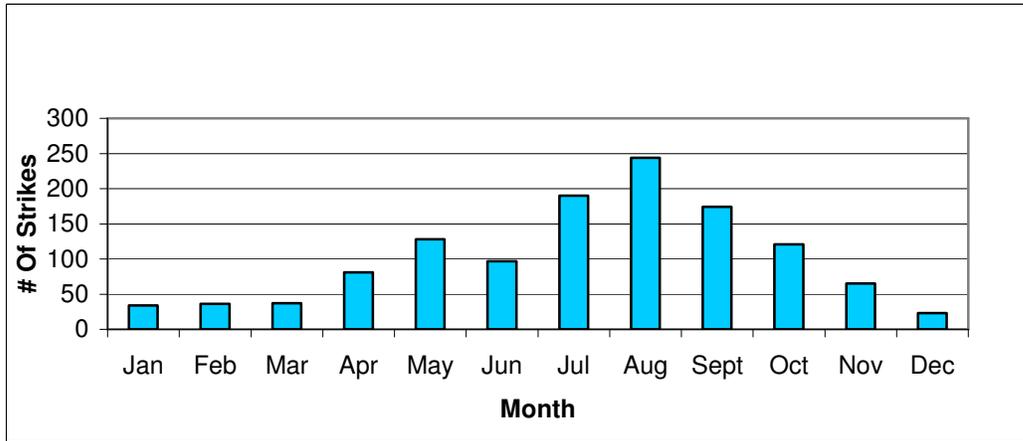
## 2.2b Kind of Bird Involved: All Species

Group Name	Common Name	# Of Strikes	% Of Total
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<b>CHICKEN-LIKE BIRDS</b>			
	GRAY PARTRIDGE	1	0.08%
	PARTRIDGES	2	0.17%
	PTARMIGANS	1	0.08%
<b>CRANES, RAILS</b>			
	SANDHILL CRANE	2	0.17%
<b>DUCKS, GEESE, SWANS</b>			
	BLUE-WINGED TEAL	1	0.08%
	CANADA GOOSE	6	0.50%
	DUCKS	13	1.08%
	DUCKS, GEESE, SWANS	1	0.08%
	GEESE	10	0.83%
	GREEN-WINGED TEAL	1	0.08%
	MALLARD	8	0.66%
	SNOW GOOSE	2	0.17%
<b>HAWKS, EAGLES, VULTURES</b>			
	AMERICAN KESTREL	15	1.24%
	BALD EAGLE	5	0.41%
	COMMON BUZZARD	1	0.08%
	COOPER'S HAWK	1	0.08%
	EAGLES	4	0.33%
	FALCONS	3	0.25%
	GOLDEN EAGLE	1	0.08%
	HAWKS	26	2.16%
	MERLIN	1	0.08%
	PEREGRINE FALCON	2	0.17%
	RED-TAILED HAWK	5	0.41%
	SHARP-SHINNED HAWK	1	0.08%
	SWAINSON'S HAWK	2	0.17%
<b>HERONS, STORKS, IBIS</b>			
	BLUE HERON	2	0.17%
	HERONS	1	0.08%
<b>KINGFISHERS, MOTMOTS, HORNBILL</b>			
	KINGFISHERS, MOTMOTS, HORNBILL	1	0.08%
<b>OWLS</b>			
	BARN OWL	1	0.08%
	BARRED OWL	1	0.08%
	GREAT HORNED OWL	2	0.17%
	SHORT-EARED OWL	1	0.08%
	SNOWY OWL	2	0.17%
	OWLS	12	1%
<b>PELICANS, CORMORANTS, BOOBIES</b>			
	CORMORANTS	2	0.17%
	DOUBLE-CRESTED CORMORANT	1	0.08%
<b>PERCHING BIRDS (Y)</b>			
	BANK SWALLOW	2	0.17%
	BARN SWALLOW	18	1.49%
	CLIFF SWALLOW	1	0.08%
	CROWS	8	0.66%
	CROWS, JAYS, MAGPIES	1	0.08%

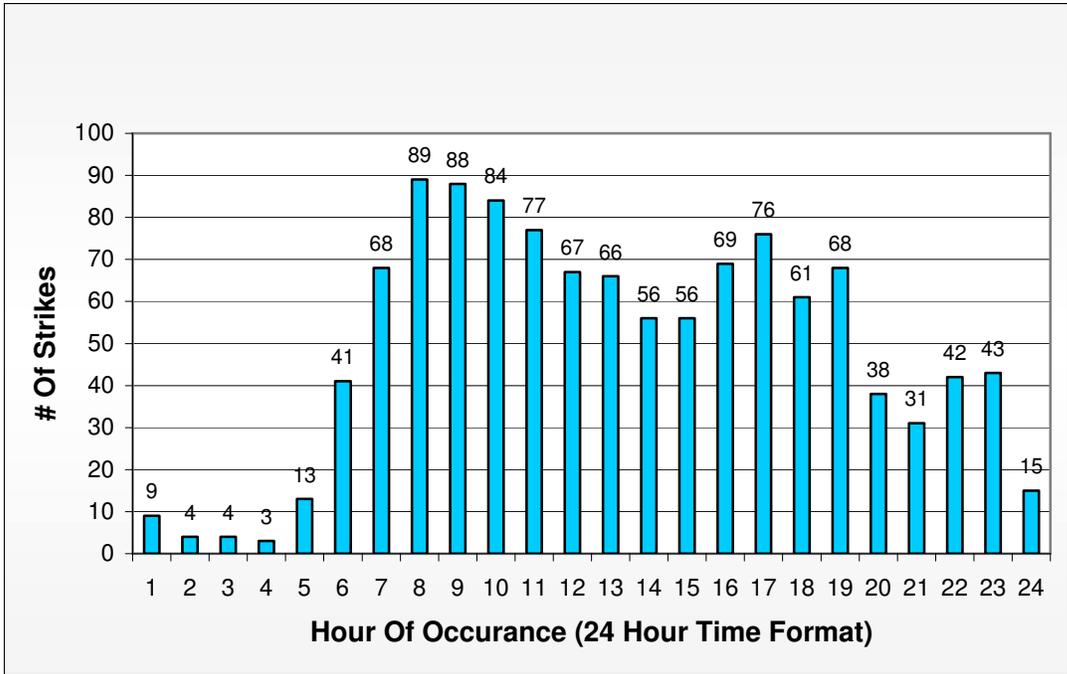
	EURASIAN SKYLARK	1	0.08%
	HORNED LARK	8	0.66%
	LARKS	1	0.08%
	MAGPIE	1	0.08%
	PERCHING BIRDS (Y)	1	0.08%
	RAVENS	5	0.41%
	STARLINGS	34	2.82%
	SWALLOWS	33	2.73%
<b>PERCHING BIRDS (Z)</b>			
	BUNTINGS	2	0.17%
	COMMON SNOW BIRD	1	0.08%
	EASTERN MEADOWLARK	3	0.25%
	FIELD SPARROW	1	0.08%
	FINCHES	2	0.17%
	GRASSHOPPER SPARROW	1	0.08%
	MEADOWLARKS	6	0.50%
	PINE SISKIN	1	0.08%
	SAVANNAH SPARROW	3	0.25%
	SNOW BUNTING	21	1.74%
	SPARROWS	49	4.06%
	VARIED THRUSH	1	0.08%
<b>PIGEONS, GROUSE</b>			
	MOURNING DOVE	1	0.08%
	PIGEONS	3	0.25%
	ROCK PIGEON	1	0.08%
<b>SHOREBIRDS</b>			
	AMERICAN GOLDEN-PLOVER	1	0.08%
	CALIFORNIA GULL	4	0.33%
	COMMON SNIPE	2	0.17%
	DUNLIN	1	0.08%
	FRANKLIN'S GULL	11	0.91%
	GLAUCOUS-WINGED GULL	5	0.41%
	GULLS	140	11.60%
	GULLS, TERNS	1	0.08%
	KILLDEER	16	1.33%
	LEAST SANDPIPER	1	0.08%
	PLOVERS	3	0.25%
	RING-BILLED GULL	27	2.24%
	SANDPIPERS	10	0.83%
	SEMIPALMATED PLOVER	3	0.25%
	SEMIPALMATED SANDPIPER	3	0.25%
	WESTERN GULL	1	0.08%
	WHIMBREL	1	0.08%
	YELLOW-LEGGED GULL	1	0.08%
<b>SWIFT, TREE-SWIFT, HUMMINGBIRD</b>			
	SWIFTS	1	0.08%
<b>UNKNOWN</b>			
	UNKNOWN BIRD	654	51.62%

## 2.2c Bird Strikes: Monthly Distribution



Month of Occurrence	# Of Strikes
JANUARY	34
FEBRUARY	36
MARCH	37
APRIL	81
MAY	128
JUNE	97
JULY	189
AUGUST	245
SEPTEMBER	174
OCTOBER	121
NOVEMBER	65
DECEMBER	23
<b>TOTAL</b>	<b>1,230</b>

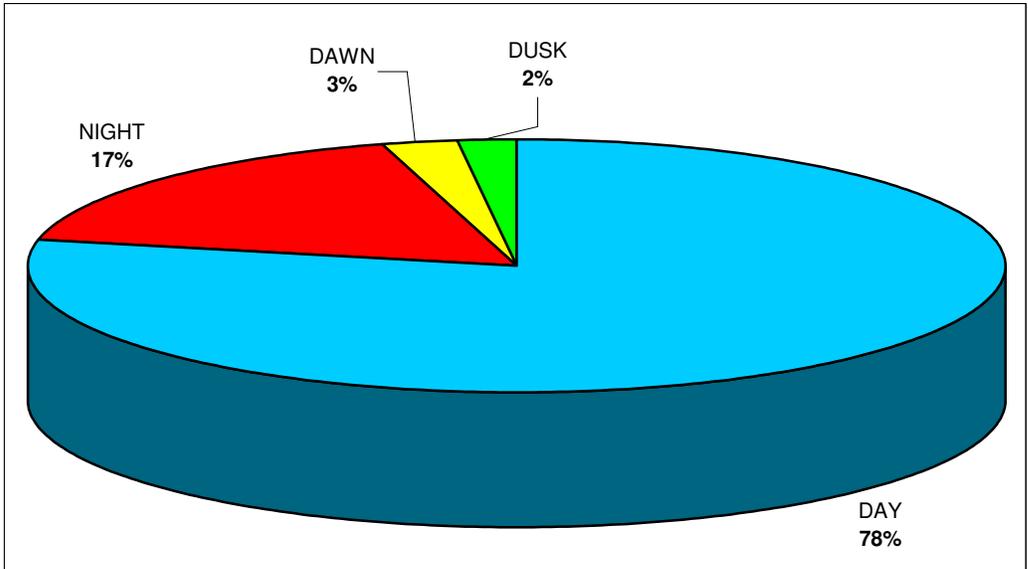
### 2.2d Time of Day



\* 62 reports did not identify time of day

Hour of Occurrence	# Of Strikes
1	9
2	4
3	4
4	3
5	13
6	41
7	68
8	89
9	88
10	84
11	77
12	67
13	66
14	56
15	56
16	69
17	76
18	61
19	68
20	38
21	31
22	42
23	43
24	15

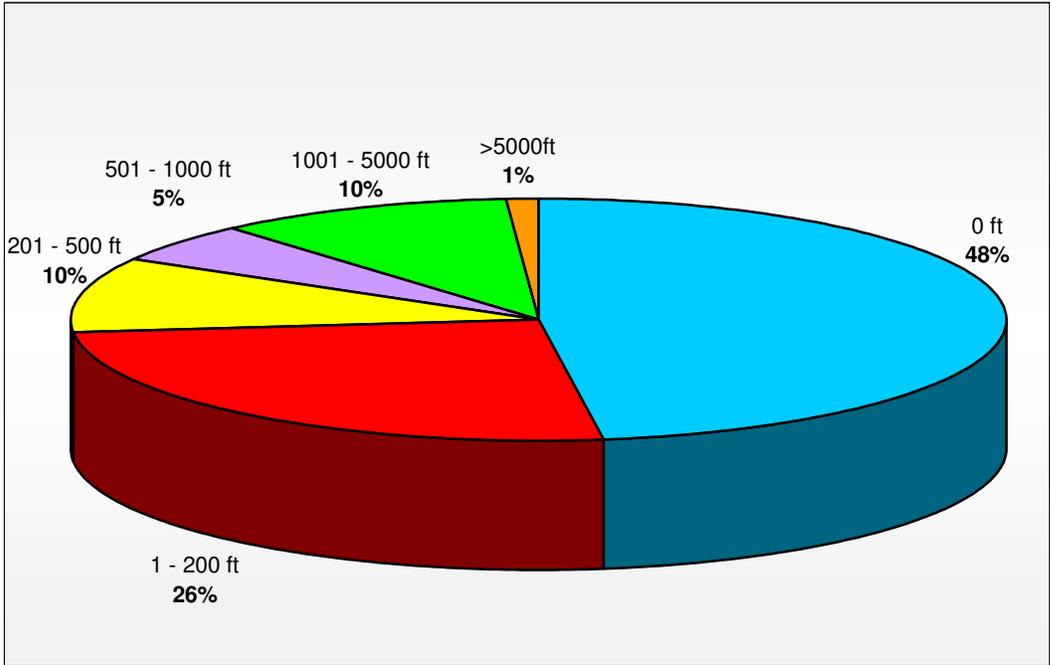
**2.2e Light Conditions**



\*74 reports did not identify the time of day

Light Conditions	# Of Strikes
DAY	904
NIGHT	200
DAWN	30
DUSK	22

**2.2f Altitude Distribution**

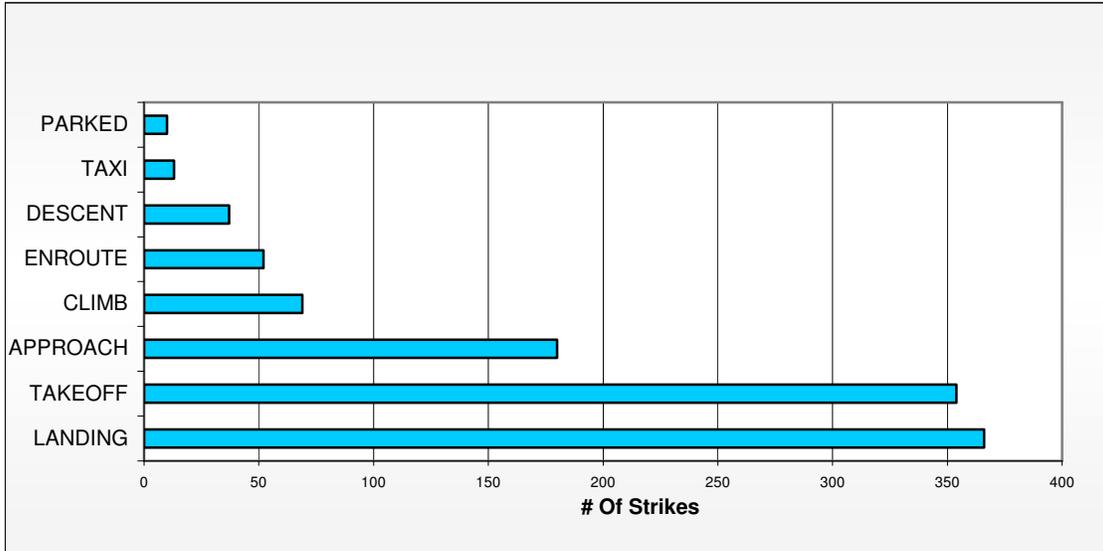


\* 877 reports did not identify the Altitude

Height	# Of Strikes
0 ft	168
1 - 200 ft	91
201 - 500 ft	35

501 - 1000 ft	19
1001 - 5000 ft	36
>5000ft	4

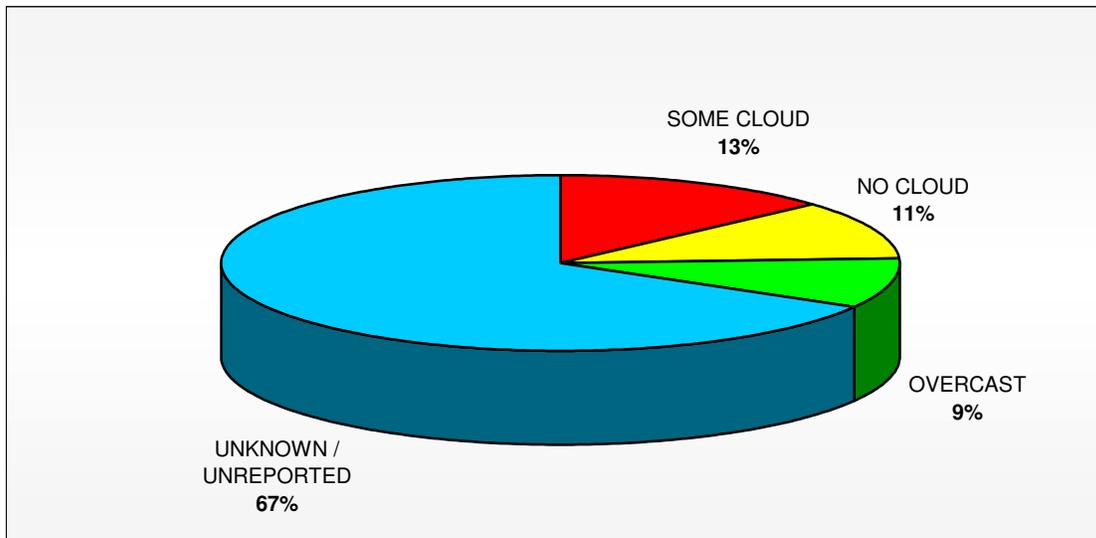
### 2.2g Phase of Flight



\*149 reports did not identify the phase of flight

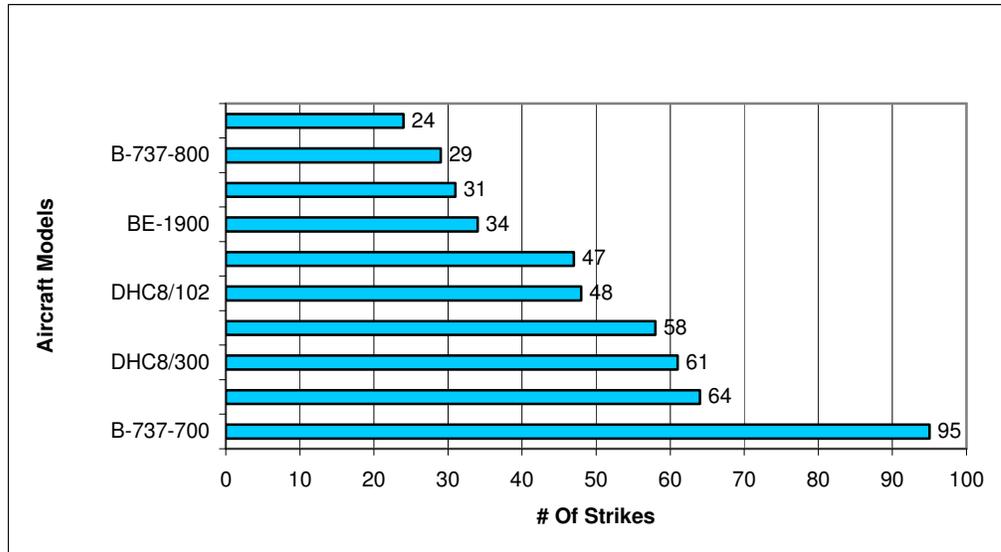
Phase of Flight	# Of Strikes
LANDING	366
TAKEOFF	354
APPROACH	180
CLIMB	69
ENROUTE	52
DESCENT	37
TAXI	13
PARKED	10

### 2.2h Sky Conditions



Sky Condition	# Of Strikes
SOME CLOUD	163
NO CLOUD	134
OVERCAST	111
UNKNOWN/UNREPORTED	822

### 2.2i Aircraft Involved: Top Ten



\* 39 reports did not identify the Aircraft type involved.

Aircraft	# Of Strikes
B-737-700	95
CRJ100/200	64
DHC8/300	61
DHC8 DASH 8	58
DHC8/102	48
A-320	47
BE-1900	34
EMB-190	31
B-737-800	29
CL -600	24

### 2.2j Aircraft Involved: All Reported Strikes

Aircraft Make	Aircraft Model	# Of Strikes
<b>AA COLOMBES</b>		
	DHC8 DASH 8	1
<b>AEROSPATLE</b>		
	ATR-42	4
<b>AIRBUS</b>		
	A-310	6
	A-319	19
	A-320	47

	A-321	11
	A-330	4
	A-340	3
	CC-150 POLARIS	4
<b>ATR</b>		
	ATR-42	3
<b>BAE</b>		
	3212	1
	CANADIAR CF-5	1
	HAWK	15
<b>BEECH</b>		
	BE 10	3
	BE-100 KING	4
	BE-19	2
	BE-1900	33
	BE-200 KING	14
	BE-23 SUNDOWNER	1
	BE-300 KING	1
	BE-35	1
	BE-36	1
	BE-90 KING	3
	BE-95	1
	BE-99	1
<b>BELL</b>		
	BELL-206	3
	CH-146 GRIFFON	11
<b>BOEING</b>		
	737-700	1
	767 209	1
	B-707	11
	B-727-200	11
	B-737	23
	B-737-200	14
	B-737-300	3
	B-737-400	3
	B-737-500	1
	B-737-600	3
	B-737-700	94
	B-737-800	29
	B-747-400	1
	B-757	1
	B-757-200	3
	B-767-200	4
	B-767-300	12
	B-767-400	1
	B-777-200	5
	B-777-300	1
	CC-177 GLOBEMASTER	4
	UNKNOWN/UNREPORTED	2

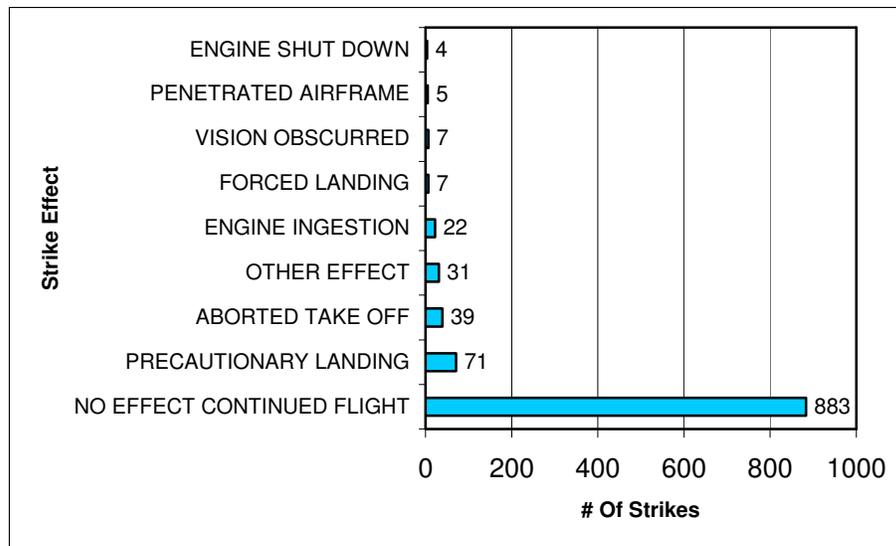
<b>BOEING WICH</b>		
	B-737-700	1
<b>BOMBARDIER</b>		
	BD-700	1
	CHALLENGER 300	2
	CL-215	1
	CL-600	23
	CL-RJ100/200	19
	CL-RJ700	2
	CL-RJ 900	3
	CRJ100/200	49
	CRJ700	1
	CRJ 705	12
	DHC3-OTTER	2
	DHC8/102	13
	DHC8/300	9
	DHC8/400	3
	DHC8 DASH 8	4
	LEARJET-35	1
<b>BRIT AERO</b>		
	BA-31 JETSTR	2
	HAWKER 748	1
<b>BRITISH AC</b>		
	BA-31 JETSTR	1
<b>CANADAIR</b>		
	CANADAIR TUTOR	2
	CL-215	1
	CL-600	1
	CL-601/604	1
	CL-RJ100/200	4
	CL-RJ 900	1
	CRJ100/200	15
	CRJ700	3
	CT-114 TUTOR	3
	Tutor	4
<b>CARAVAN</b>		
	C-208	1
<b>CASA</b>		
	CASA C-212	2
<b>CESSNA</b>		
	C-150	3
	C-152	7
	C-172	17
	C-180	2
	C-182 SKYLAN	1
	C-185 SKYWAG	1
	C-206 STATIO	2
	C-208	8
	C-210 CENTUR	1
	C-310	1

	C-340	1
	C-401	1
	C-425	2
	C-550	1
	C-560	7
	CITATION II	1
	CITATIONJET	2
	L-19/O-1 Bird Dog	5
<b>CIRRUS</b>		
	CIRRUS SR20/22	2
<b>CONVAIR</b>		
	CONVAIR 340	1
	CONVAIR 600	1
	CV-580	1
<b>DASSAULT</b>		
	DA-50 FALCON	2
<b>DEHAVILAND</b>		
	CC-115 BUFFALO	3
	DHC2 BEAVER	3
	DHC3-OTTER	5
	DHC5	2
	DHC6	2
	DHC8/102	35
	DHC8-106	1
	DHC8/300	52
	DHC8/301	2
	DHC8/400	12
	DHC8 DASH 8	53
	GRUMMAN S-2 TRACKER	1
	UNKNOWN/UNREPORTED	3
<b>DIAMOND</b>		
	DA-20 FALCON	4
<b>DORNIER</b>		
	DORNIER 328	1
<b>EMBRAER</b>		
	EMB-110	1
	EMB-135	3
	EMB-145	2
	EMB-170	11
	EMB-190	32
	EMB UNKN	1
<b>EXPERIMENTAL</b>		
	EXPERIMENTAL	1
<b>FAIRCHILD</b>		
	FAIRCH SA227	4
	MISC - OTHER	1
	SA227 AC METRO III	16
	SA227 DC METRO 23	1

<b>GRIFFON</b>		
	BELL	3
<b>GROB</b>		
	GROB	3
<b>GRUMMAN</b>		
	GRUMMAN	2
<b>GULFSTREAM</b>		
	IAI ASTRA JT	1
<b>HAWKER-SDLY</b>		
	HAWKER 748	4
	HS748/AVRO 7	2
<b>ISRAEL AIRCRAFT IND.</b>		
	IAI WESTWIND	1
<b>JETSTREAM</b>		
	UNKNOWN/UNREPORTED	1
<b>KING AIR</b>		
	BE-200 KING	1
<b>LEARJET</b>		
	LEARJET-31	1
	LEARJET-35	1
	LEARJET-45	2
<b>LOCKHEED</b>		
	CC 130 HERCULES	20
	CP-140 AURORA	9
	F-16	1
	L-1011	1
	LOCKHEED P3	1
<b>MAULE</b>		
	MAULE M-7	1
<b>MCDONNELL DOUGLAS</b>		
	C-17	1
	CF-18 HORNET	10
	F-15	1
<b>MILITARY</b>		
	MILITARY	1
<b>MITSUBISHI</b>		
	MU2	1
<b>MOONEY</b>		
	MOONEY-20E	1
<b>MORAVAN</b>		
	Z-242	1
<b>MURPHY</b>		
	MOOSE	1
<b>PILATUS</b>		
	PILATUS PC12	8
	UNKNOWN	1
<b>PIPER</b>		
	PA-23-250	1
	PA-28	3
	PA-30 TWIN COMANCHE	1

	PA-31 NAVAJO	15
	PA-31T CHEYENNE	3
	PA-31T CHEYENNE II	2
	PA-34 SENECA	1
	PA-44 SEMINOLE	3
	PA-46 MALIBU	2
	UNKNOWN/UNREPORTED	1
<b>RAYTHEON</b>		
	BE-1900	1
	BE-200 KING	1
	CT-156 HARVARD II	27
<b>SAAB</b>		
	A-340	21
	SA227 AC METRO III	1
<b>SHORTS</b>		
	360	1
<b>SIKORSKY</b>		
	S-76	5
<b>SWEARINGEN</b>		
	SA226 TC	6
	SA227 AC METRO III	6
<b>TRANSALL</b>		
	C-160	1
<b>VANS (KIT PLANE)</b>		
	UNKNOWN	1
<b>WESTLAND</b>		
	CH-124 SEAKING	2
	CH-149 CORMORANT	3
<b>ZENITH (KIT PLANE)</b>		
	ZODIAC CH601	1
<b>UNKNOWN/UNREPORTED</b>		
	UNKNOWN/UNREPORTED	104

### 2.3a Effects on Flight/Aircraft



\* 1061 reports did not identify the effect on flight/aircraft

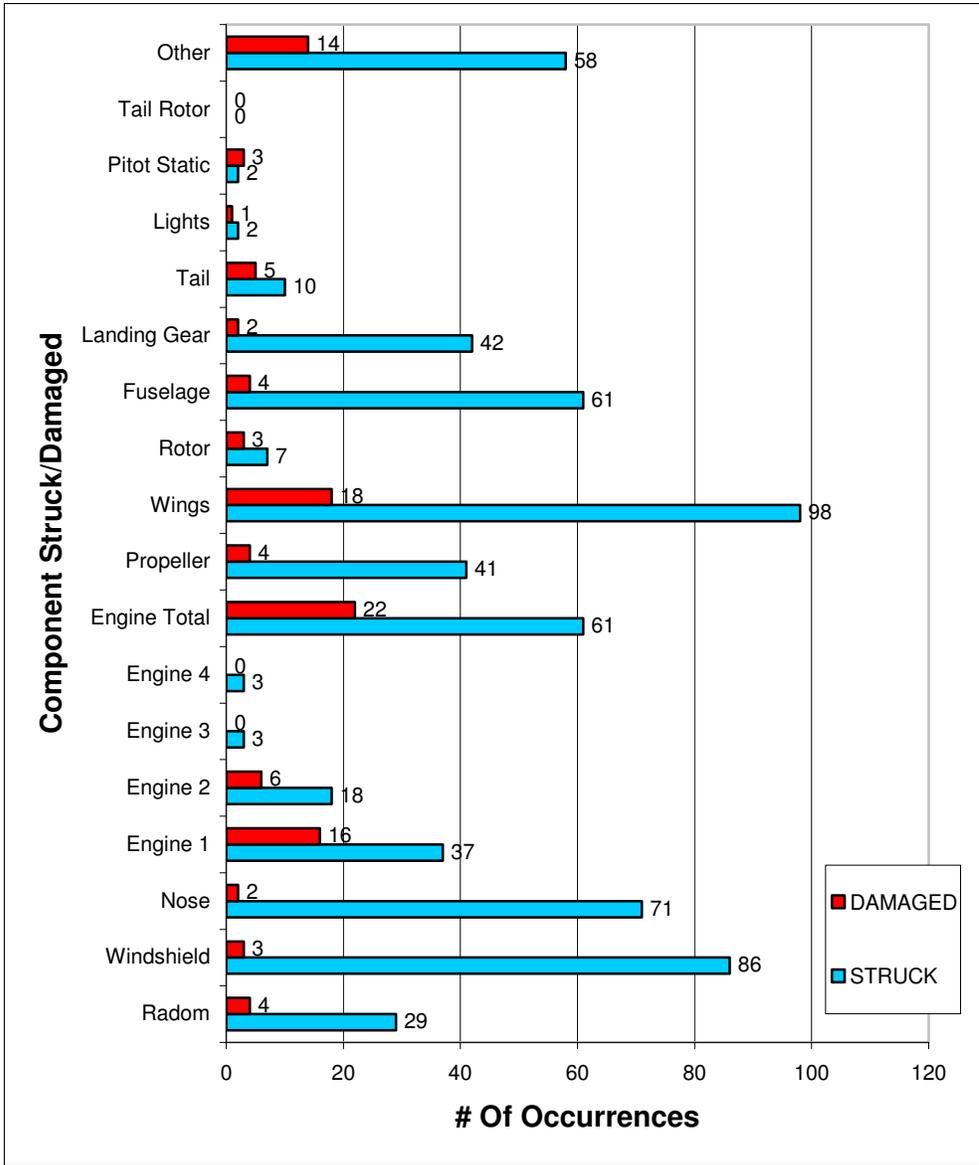
<b>Effect on Flight/Aircraft</b>	<b># Of Strikes</b>
UNKNOWN/UNREPORTED	1061
NO EFFECT CONTINUED FLIGHT	883
PRECAUTIONARY LANDING	71
ABORTED TAKE OFF	39
OTHER EFFECT	31
ENGINE INGESTION	22
FORCED LANDING	7
VISION OBSCURRED	7
PENETRATED AIRFRAME	5
ENGINE SHUT DOWN	4

### **2.3b Effects on Airport Operations**

<b>Operational Impact</b>	<b># Of Strikes</b>
NO OPERATIONAL IMPACT REPORTED	1202
OPERATIONAL IMPACT REPORTED	82

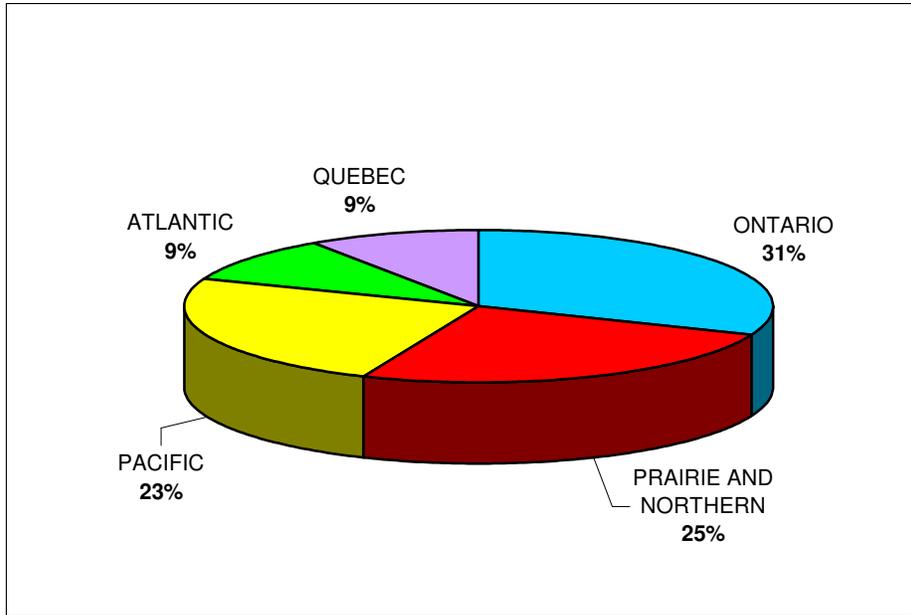
**Note:** Contains any Canadian bird strikes, bird near misses, mammal strikes and mammal near misses

### **2.3c Parts Struck/Damaged**



**3.0 Wildlife Incidents at Canadian Airports**

**3.1a Number of Reported Strikes by Region**



\* 42 (3%) reports did not identify their region

### 3.1b Month of Occurrence by Region

Month of Occurrence	Atlantic	Ontario	Pacific	Prairie and Northern	Québec	Unknown	Total Strikes Reported
JANUARY	3	3	17	5	1	5	34
FEBRUARY	0	5	18	4	5	4	36
MARCH	1	14	11	7	1	3	37
APRIL	5	27	14	20	12	3	81
MAY	4	41	16	45	12	10	128
JUNE	9	22	22	35	5	4	97
JULY	6	65	42	57	15	4	190
AUGUST	25	75	55	63	23	4	245
SEPTEMBER	34	54	27	38	18	3	174
OCTOBER	17	49	23	16	15	1	121
NOVEMBER	7	14	29	8	6	1	65
DECEMBER	4	2	14	3	0	0	23

### 3.1c Number of Reported Strikes: All Canadian Airports

Province	Airport Name	Airport Code	# Of Strikes
<b>ALBERTA</b>			
	BARRHEAD	CEP3	1
	CALGARY INTL	CYYC	45
	CALGARY/SPRINGBANK	CYBW	2
	COLD LAKE	CYOD	23
	EDMONTON CITY CENTRE (BLATCHFORD FIELD)	CYXD	12
	EDMONTON INTL	CYEG	47
	EDMONTON/NAMAQ (HELI)	CYED	3
	EDMONTON/VILLENEUVE	CZVL	2

	EDSON	CYET	2
	FORT MCMURRAY	CYMM	17
	GRANDE PRAIRIE	CYQU	8
	HIGH LEVEL	CYOJ	1
	LETHBRIDGE	CYQL	5
	MEDICINE HAT	CYXH	2
	MOOSE JAW/AIR VICE MARSHAL C.M. MCEWEN AIRPORT	CYMJ	1
	RED DEER REGIONAL	CYQF	2
	ROCKY MOUNTAIN HOUSE	CYRM	1
	PEACE RIVER	CYPE	1
	WETASKIWIN	CEX3	1
<b>BRITISH COLUMBIA</b>			
	ABBOTSFORD	CYXX	33
	BELLA BELLA (CAMPBELL ISLAND)	CAF2	1
	BOUNDARY BAY	CZBB	8
	COMOX	CYQQ	12
	COURTENAY AIRPARK	CAH3	1
	CRANBROOK	CYXC	2
	DAWSON CREEK	CYDQ	2
	FORT ST. JOHN	CYXJ	2
	KAMLOOPS	CYKA	5
	KELOWNA	CYLW	14
	LANGLEY	CYNJ	1
	NANAIMO	CYCD	5
	PENTICTON	CYYF	9
	PITT MEADOWS	CYPK	3
	PORT HARDY	CYZT	4
	PRINCE GEORGE	CYXS	11
	QUALICUM BEACH	CAT4	2
	QUESNEL	CYQZ	2
	SANDSPIT	CYZP	3
	SMITHERS	CYYD	1
	TERRACE	CYXT	1
	VANCOUVER/BURNABY (TERMINAL) (HELI)	CBA2	1
	VANCOUVER (CHILDREN'S HOSP) (HELI)	CAK7	1
	VANCOUVER/HARBOUR (PUBLIC) (HELI)	CBC7	1
	VANCOUVER HARBOUR	CYHC	3
	VANCOUVER INTL	CYVR	113
	VERNON	CYVK	1
	VICTORIA AIRPORT	CAP5	1
	VICTORIA HARBOUR	CYWH	6
	VICTORIA INTL	CYYJ	37
	WILLIAMS LAKE	CYWL	1
<b>MANITOBA</b>			
	CHURCHILL	CYYQ	2
	FORT MCMURRAY	CYMM	1
	ISLAND LAKE	CYIV	2
	LITTLE GRAND RAPIDS	CZGR	1
	PORTAGE LA PRAIRIE/SOUTHPORT	CYPG	3

	THE PAS	CYQD	2
	THOMPSON	CYTH	3
	WINNIPEG/ST. ANDREWS	CYAV	1
	WINNIPEG INTL	CYWG	34
<b>NEW BRUNSWICK</b>			
	BATHURST	CZBF	1
	FREDERICTON	CYFC	9
	GAGETOWN (HELI)	CYCX	
	MIRAMICHI	CYCH	1
	MONCTON/GREATER MONCTON INTL	CYQM	21
	SAINT JOHN	CYSJ	6
<b>NEWFOUNDLAND</b>			
	WABUSH	CYWK	4
	DEER LAKE	CYDF	8
	GANDER INTL	CYQX	7
	GOOSE BAY	CYYR	3
	ST. ANTHONY	CYAY	2
	ST. JOHN'S INTL	CYYT	11
	STEPHENVILLE	CYJT	2
<b>NORTHWEST TERRITORIES</b>			
	FORT SIMPSON	CYFS	1
	HAY RIVER	CYHY	1
	INUVIK (MIKE ZUBKO)	CYEV	2
	YELLOWKNIFE	CYZF	2
<b>NOVA SCOTIA</b>			
	CHESTER	K3B9	1
	FREDERICTON	CYFC	1
	GREENWOOD	CYZX	9
	HALIFAX INTL	CYHZ	19
	HALIFAX/SHEARWATER	CYAW	1
	SYDNEY	CYQY	4
<b>NUNAVUT</b>			
	IQALUIT	CYFB	1
	RANKIN INLET	CYRT	1
	TULITA	CZFN	1
<b>ONTARIO</b>			
	ARNPRIOR/SOUTH RENFREW MUNI	CNP3	1
	BORDEN (HELI)	CYBN	2
	DRYDEN REGIONAL	CYHD	6
	HAMILTON	CYHM	21
	KAPUSKASING	CYYU	3
	KINGSTON	CYGK	4
	KITCHENER/WATERLOO REGIONAL	CYKF	10
	LONDON	CYXU	17
	MOOSE FACTORY (HELI)	CPN3	1
	MOOSONEE	CYMO	1
	MUSKOKA	CYQA	1
	NORTH BAY	CYYB	4
	OSHAWA	CYOO	3
	OTTAWA/CARP	CYRP	1

	OTTAWA/MACDONALD-CARTIER INTL	CYOW	34
	PEMBROKE	CYTA	1
	PETAWAWA	CYWA	1
	PETERBOROUGH	CYPQ	2
	PICKLE LAKE	CYPL	2
	RED LAKE	CYRL	2
	ROCKCLIFFE	CYRO	3
	SACHIGO LAKE	CZPB	1
	SARNIA (CHRIS HADFIELD)	CYZR	1
	SAULT STE. MARIE	CYAM	6
	SHOUBERT	CYXL	8
	SUDBURY	CYSB	20
	THUNDER BAY	CKE6	1
	THUNDER BAY	CYQT	29
	TIMMINS	CYTS	12
	TIMMINS/PORCUPINE LAKE	CPW5	1
	TORONTO/BUTTONVILLE MUNI	CYKZ	3
	TORONTO/CITY CENTRE	CYTZ	22
	TORONTO/DOWNSVIEW	CYZD	4
	TORONTO/LESTER B. PEARSON INTL	CYYZ	117
	TORONTO/MARKHAM	CNU8	1
	TRENTON 1590	CYTR	8
	TRENTON	CYTN	10
	WESTLOCK	CES4	1
	WINDSOR	CYQG	12
<b>PRINCE EDWARD ISLAND</b>			
	CHARLOTTETOWN 1644	CYYG	4
<b>QUEBEC</b>			
	BAIE-COMEAU	CYBC	4
	BROMONT	CZBM	3
	CHICOUTIMI/ST-HONORT	CYRC	1
	GASPT	CYGP	1
	ISLES-DE-LA-MADELEINE	CYGR	1
	KANGIRSUK	CYAS	1
	LA GRANDE RIVIFRE	CYGL	1
	MONTRÉAL/ST-HUBERT	CYHU	14
	MONTRÉAL INTL (MIRABEL)	CYMX	7
	MONT-JOLI	CYYY	4
	MONTRÉAL/ST-LAZARE	CST3	1
	MONTRÉAL/PIERRE-ELLIOTT-TRUDEAU INTL	CYUL	28
	OTTAWA/GATINEAU	CYND	1
	QUÉBEC/JEAN LESAGE INTL	CYQB	18
	RED SUCKER LAKE	CYRS	1
	REPULSE BAY	CYUT	1
	RIMOUSKI	CYXK	1
	ROUYN-NORANDA	CYUY	3
	SAINT HUBERT	CYHU	1
	SEPT-+LES	CYZV	10
	SOREL	CSY3	1
	ST-AUGUSTIN	CYIF	1

	ST-JEAN	CYJN	2
	TROIS-RIVIFRES	CYRQ	1
	VALCARTIER (W/C J.H.L. (JOE) LECOMTE) (HELI)	CYOY	2
	VAL-D'OR	CYVO	5
	WASKAGANISH	CYKQ	1
<b>SASKATCHEWAN</b>			
	COLD LAKE	CYOD	1
	ESTON	CJR4	2
	LA RONGE (BARBER FIELD)	CYVC	2
	MOOSE JAW/AIR VICE MARSHAL C.M. MCEWEN AIRPORT	CYMJ	37
	PELICAN NARROWS	CJW4	1
	PRINCE ALBERT (GLASS FIELD)	CYPA	6
	POINTS NORTH LANDING	CYNL	1
	REGINA INTL	CYQR	6
	STONY RAPIDS	CYSF	1
	SASKATOON/JOHN G. DIEFENBAKER INTL	CYXE	11
	WINNIPEG INTL	CYWG	1
<b>YUKON</b>			
	DAWSON	CYDA	1
	WHITEHORSE INTL	CYXY	5
<b>UNITED STATES</b>			
	ATLANTIC CITY INTL	KACY	1
	CHICAGO O'HARE INTL	KORD	2
	DULUTH INTL	KDLH	2
	FORT LAUDERDALE INTL	KFLL	1
	GEORGE BUSH INTERCONTINENTAL	KIAH	1
	LAGUARDIA NY	KLGA	1
	LOGAN INTL	KBOS	1
	MIAMI INTL	KMIA	1
	NEWPORT NEWS/WILLIAMSBURG INTL	KPHF	1
	PHILADELPHIA INTL	KPHL	1
	PORT COLUMBUS INTL	KCMH	1
	PORTLAND INTL (OR)	KPDX	1
	SEATTLE TACOMA INTL	KSEA	1
<b>FOREIGN</b>			
	ANTIGUA / SAINT JOHNS & BARBUDA - VC BIRD INTERNATIONAL	ANU	1
	EZEIZA INTL AIRPORT (BUENOS AIRES)	EZE	1
	FRANK PAIS AIRPORT (CUBA)	HOG/MUHG	2
	KANDAHAR INTERNATIONAL AIRPORT	KDH/OAKN	2
	LONDON/HEATHROW	EGLL	2
	PUNTA CANA INTL	MDPC	2
	VARADERO, CUBA (JUAN GUALBERTO GOMEZ)	VRA	2

### 3.1d Bird Strikes: Top Twenty Airports

Airport	Airport Code	# Of Strikes	Movements	On Airport Strike Rate
TORONTO/LESTER B. PEARSON INTL	CYYZ	110	429,262	2.56

VANCOUVER INTL	CYVR	107	337,802	3.17
EDMONTON INTL	CYEG	40	133,245	3.00
CALGARY INTL	CYYC	37	246,370	1.50
VICTORIA INTL	CYYJ	34	174,167	1.95
OTTAWA/MACDONALD-CARTIER INTL	CYOW	34	170,042	2.00
WINNIPEG INTL	CYWG	30	142,810	2.10
THUNDER BAY	CYQT	27	96,369	2.80
ABBOTSFORD	CYXX	26	156,883	1.66
MONTRÉAL/PIERRE-ELLIOTT-TRUDEAU INTL	CYUL	23	225,219	1.02
TORONTO/CITY CENTRE	CYTZ	21	93,253	2.25
MOOSE JAW/AIR VICE MARSHAL C.M. MCEWEN AIRPORT	CYMJ	21	NA	NA
SUDBURY	CYSB	20	14,019	14.27
HAMILTON	CYHM	20	60,786	3.29
HALIFAX INTL	CYHZ	19	89,033	2.13
MONCTON/GREATER MONCTON INTL	CYQM	19	131,858	1.44
FORT MCMURRAY	CYMM	18	14,605	12.32
LONDON	CYXU	16	164,667	0.97
QUÉBEC/JEAN LESAGE INTL	CYQB	16	125,512	1.27
KELOWNA	CYLW	14	81,285	1.72

**Note:** Contains any bird strikes for the top twenty airports where the phase of flight at the time of occurrence was: PARKED or TAXI, regardless of height, or, was APPROACH, DESCENT, LANDING or TAKEOFF and possessed a height < 200 feet AGL or possessed a unreported height, or, was CLIMB and possessed a height < 500 feet AGL or a unreported height, or, contained an UNKNOWN/UNREPORTED phase of flight with the height < 500 feet AGL.

\*\* Strike rate is calculated as the number of strikes per 10,000 movements, based on 2008 data.

### 3.1e Bird Strikes: Species Distribution for Top Twenty Airports

Airport	Bird Species	# Of Strikes
<b>TORONTO/LESTER B. PEARSON INTL</b>		
	AMERICAN KESTREL	1
	BARN SWALLOW	1
	COOPER'S HAWK	1
	DUCKS	1
	FIELD SPARROW	1
	GEESE	2
	GULLS	1
	HORNED LARK	6
	KILLDEER	4
	MEADOWLARKS	2
	MOURNING DOVE	1
	PEREGRINE FALCON	1
	PLOVERS	2
	RING-BILLED GULL	5
	SNOW BUNTING	2
	SPARROWS	8
	STARLINGS	10
	SWALLOWS	5

	SWIFTS	1
	UNKNOWN BIRD	55
<b>Subtotal</b>		<b>110</b>
<b>VANCOUVER INTL</b>		
	BALD EAGLE	2
	BLUE HERON	1
	DUCKS	3
	EAGLES	1
	GULLS	4
	HAWKS	6
	OWLS	3
	SHORT-EARED OWL	1
	SNOW GOOSE	1
	SPARROWS	1
	STARLINGS	2
	SWALLOWS	3
	UNKNOWN BIRD	79
<b>Subtotal</b>		<b>107</b>
<b>EDMONTON INTL</b>		
	AMERICAN KESTREL	1
	CALIFORNIA GULL	3
	DUCKS	1
	FRANKLIN'S GULL	4
	GRAY PARTRIDGE	1
	GREAT HORNED OWL	1
	GULLS	1
	HORNED LARK	1
	MAGPIE	1
	OWLS	1
	RING-BILLED GULL	2
	SAVANNAH SPARROW	1
	SEMIPALMATED SANDPIPER	3
	SNOWY OWL	1
	SWAINSON'S HAWK	1
	UNKNOWN BIRD	17
<b>Subtotal</b>		<b>40</b>
<b>CALGARY INTL</b>		
	CROWS	1
	DUCKS	1
	FRANKLIN'S GULL	1
	GULLS	6
	MALLARD	1
	PARTRIDGES	1
	RED-TAILED HAWK	1
	SANDPIPERS	1
	UNKNOWN BIRD	24
<b>Subtotal</b>		<b>37</b>

<b>VICTORIA INTL</b>		
	BARN SWALLOW	3
	CLIFF SWALLOW	1
	EURASIAN SKYLARK	1
	GLAUCOUS-WINGED GULL	4
	GULLS	3
	KILLDEER	3
	OWLS	1
	RED-TAILED HAWK	2
	SPARROWS	4
	SWALLOWS	4
	UNKNOWN BIRD	8
<b>Subtotal</b>		<b>34</b>
<b>OTTAWA/MACDONALD-CARTIER INTL</b>		
	BUNTINGS	1
	GULLS	4
	HAWKS	1
	OWLS	1
	PIGEONS	1
	SNOW BUNTING	1
	SPARROWS	2
	STARLINGS	3
	SWALLOWS	5
	UNKNOWN BIRD	14
	YELLOW-LEGGED GULL	1
<b>Subtotal</b>		<b>34</b>
<b>WINNIPEG INTL</b>		
	BARN SWALLOW	1
	FRANKLIN'S GULL	1
	GULLS	5
	HAWKS	6
	KILLDEER	1
	MALLARD	1
	MEADOWLARKS	2
	RED-TAILED HAWK	1
	RING-BILLED GULL	1
	UNKNOWN BIRD	11
<b>Subtotal</b>		<b>30</b>
<b>THUNDER BAY</b>		
	BARRED OWL	1
	CROWS	1
	GULLS	7
	KILLDEER	3
	MERLIN	1
	OWLS	1
	RING-BILLED GULL	4

	STARLINGS	1
	UNKNOWN BIRD	8
<b>Subtotal</b>		<b>27</b>
<b>ABBOTSFORD</b>		
	BARN OWL	1
	BARN SWALLOW	7
	GULLS	5
	MALLARD	1
	OWLS	2
	SWALLOWS	3
	UNKNOWN BIRD	7
<b>Subtotal</b>		<b>26</b>
<b>MONTREAL/PIERRE-ELLIOTT-TRUDEAU INTL</b>		
	AMERICAN KESTREL	1
	STARLINGS	1
	SWALLOWS	2
	UNKNOWN BIRD	19
<b>Subtotal</b>		<b>23</b>
<b>MOOSE JAW/AIR VICE MARSHAL C.M. MCEWEN AIRPORT</b>		
	HAWKS	1
	STARLINGS	2
	UNKNOWN BIRD	18
<b>Subtotal</b>		<b>21</b>
<b>TORONTO/CITY CENTRE</b>		
	CANADA GOOSE	1
	CORMORANTS	1
	DUCKS	1
	FALCONS	1
	GULLS	2
	SPARROWS	2
	SWALLOWS	2
	UNKNOWN BIRD	11
<b>Subtotal</b>		<b>21</b>
<b>HAMILTON</b>		
	GULLS	3
	SWALLOWS	1
	UNKNOWN BIRD	16
<b>Subtotal</b>		<b>20</b>
<b>SUDBURY</b>		
	GOLDEN EAGLE	1
	GULLS	5
	RING-BILLED GULL	1
	SNOW BUNTING	1

	SPARROWS	2
	STARLINGS	3
	UNKNOWN BIRD	7
<b>Subtotal</b>		<b>20</b>
<b>HALIFAX INTL</b>		
	GULLS	2
	HAWKS	1
	SPARROWS	1
	UNKNOWN BIRD	15
<b>Subtotal</b>		<b>19</b>
<b>MONCTON/GREATER MONCTON INTL</b>		
	CROWS	1
	GULLS	7
	GULLS, TERNS	1
	SANDPIPERS	1
	SNOW BUNTING	1
	UNKNOWN BIRD	8
<b>Subtotal</b>		<b>19</b>
<b>FORT MCMURRAY</b>		
	FRANKLIN'S GULL	1
	GULLS	5
	OWLS	1
	SANDPIPERS	3
	STARLINGS	1
	UNKNOWN BIRD	7
<b>Subtotal</b>		<b>18</b>
<b>QUÉBEC/JEAN LESAGE INTL</b>		
	GEESE	1
	GULLS	2
	UNKNOWN BIRD	13
<b>Subtotal</b>		<b>16</b>
<b>LONDON</b>		
	BARN SWALLOW	1
	FINCHES	2
	GEESE	1
	GULLS	1
	MEADOWLARKS	1
	RED-TAILED HAWK	1
	SPARROWS	3
	STARLINGS	1
	UNKNOWN BIRD	5
<b>Subtotal</b>		<b>16</b>
<b>KELOWNA</b>		
	HAWKS	1

	SPARROWS	2
	STARLINGS	2
	UNKNOWN BIRD	9
<b>Subtotal</b>		<b>14</b>
<b>Total of Top Twenty</b>		<b>652</b>
<b>Total of All Strikes</b>		<b>1230</b>

**Note:** Contains any bird strikes for the top twenty airports where the phase of flight at the time of occurrence was: PARKED or TAXI, regardless of height, or, was APPROACH, DESCENT, LANDING or TAKEOFF and possessed a height < 200 feet AGL or possessed a unreported height, or, was CLIMB and possessed a height < 500 feet AGL or a unreported height, or, contained an UNKNOWN/UNREPORTED phase of flight with the height < 500 feet AGL.

### 3.1f Month of Occurrences: Strikes for Top Ten Airports

Airport Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TORONTO/LESTER B. PEARSON INTL	1	3	8	12	6	6	15	30	14	10	5	0
VANCOUVER INTL	10	9	5	3	8	9	20	14	6	5	10	8
EDMONTON INTL	0	0	0	4	4	6	12	8	2	1	3	0
CALGARY INTL	2	1	0	3	8	6	8	6	1	1	0	1
VICTORIA INTL	2	1	2	2	0	3	5	7	6	2	2	2
OTTAWA/MACDONALD-CARTIER INTL	1	0	0	0	5	3	14	3	4	1	2	1
WINNIPEG INTL	0	0	0	0	4	6	11	6	3	0	0	0
THUNDER BAY	0	0	0	1	4	0	2	9	3	7	1	0
ABBOTSFORD	0	0	1	0	1	1	4	9	3	1	5	1
MONTRÉAL/PIERRE-ELLIOTT-TRUDEAU INTL	1	1	0	3	2	2	3	4	4	3	0	0
<b>Total Strikes Reported</b>	<b>17</b>	<b>15</b>	<b>16</b>	<b>28</b>	<b>42</b>	<b>42</b>	<b>95</b>	<b>96</b>	<b>46</b>	<b>31</b>	<b>28</b>	<b>13</b>

**Note:** Contains any bird strikes for the top ten airports where the phase of flight at the time of occurrence was: PARKED or TAXI, regardless of height, or, was APPROACH, DESCENT, LANDING or TAKEOFF and possessed a height < 200 feet AGL or possessed a unreported height, or, was CLIMB and possessed a height < 500 feet AGL or a unreported height, or, contained an UNKNOWN/UNREPORTED phase of flight with the height < 500 feet AGL.

### 3.1g Phase of Flight: Strikes for Top Ten Airports

Airport Name	Approach	Climb	Descent	Enroute	Landing	Parked	Take-off	Taxi	Unknown / Unreported
TORONTO/ LESTER B. PEARSON INTL	15	7	3	2	40	3	43	1	3
VANCOUVER INTL	16	8	1	2	54	1	25	1	4
EDMONTON INTL	10	1	2	0	16	0	15	0	1
CALGARY INTL	15	3	0	0	18	0	9	0	0
VICTORIA INTL	2	0	1	1	10	0	7	1	13
MOOSE JAW/ AIR VICE MARSHAL C.M. MCEWEN AIRPORT	6	1	1	11	0	1	0	0	14
WINNIPEG INTL	4	2	0	0	8	0	11	1	6
OTTAWA/MACDONALD-CARTIER INTL	2	1	0	0	12	0	18	0	1
ABBOTSFORD	1	3	1	3	11	0	8	1	4
THUNDER BAY	1	0	1	0	12	0	12	0	2
<b>Total</b>	<b>72</b>	<b>26</b>	<b>10</b>	<b>19</b>	<b>181</b>	<b>5</b>	<b>148</b>	<b>5</b>	<b>49</b>

### 3.1h Strikes Involving Mammals: By Airport

AIRPORT NAME	Bats	Fox	White-tailed Deer	Squirrels	Skunks	Raccoons	Rabbits
CHURCHILL		1					
EDMONTON/COOKING LAKE			1				
LETHBRIDGE				1			
QUÉBEC/JEAN LESAGE INTL					2	2	
RED LAKE		1					
TORONTO/LESTER B. PEARSON INTL							1
VICTORIA INTL	1						
WINNIPEG INTL							1
<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>

### 4.0 Military Wildlife Incident Information

#### 4.1a Number of Reported Military Strikes: By Site

Airport	Airport Code	# Of Strikes
ABBOTSFORD	CYXX	2
BARRHEAD	CEP3	1
BORDEN (HELI)	CYBN	2
BROMONT	CZBM	3
CHESTER	K3B9	1
COLD LAKE	CYOD	24
COMOX	CYQQ	9
DULUTH INTL	KDLH	2
EDMONTON CITY CENTRE (BLATCHFORD FIELD)	CYXD	1
EDMONTON/NAMAO (HELI)	CYED	3
GAGETOWN (HELI)	CYCX	1
GOOSE BAY	CYYR	1
GREENWOOD	CYZX	9
HALIFAX/SHEARWATER	CYAW	1
KANDAHAR INTERNATIONAL AIRPORT	KDH/OAKN	2
LETHBRIDGE	CYQL	1
LONDON	CYXU	1
MONTRÉAL INTL (MIRABEL)	CYMX	1
MONTRÉAL/ST-HUBERT	CYHU	1
MOOSE JAW/AIR VICE MARSHAL C.M. MCEWEN AIRPORT	CYMJ	38
NEWPORT NEWS/WILLIAMSBURG INTL	KPHF	1
NORTH BAY	CYYB	1
OTTAWA/MACDONALD-CARTIER INTL	CYOW	1
PEMBROKE	CYTA	1
PENTICTON	CYYF	1
PETAWAWA	CYWA	1
PORTAGE LA PRAIRIE/SOUTHPORT	CYPG	3

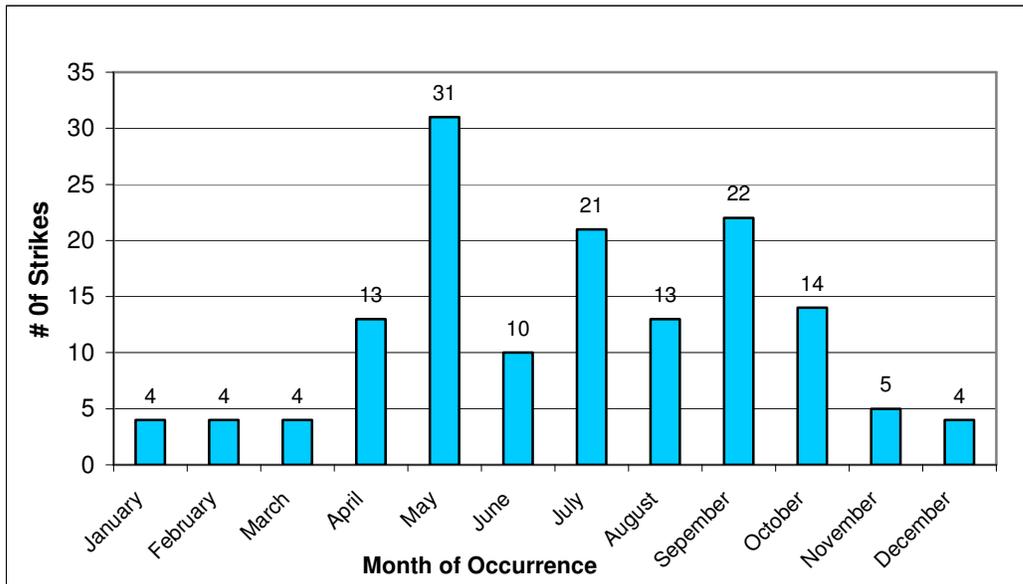
QUALICUM BEACH	CAT4	1
REGINA INTL	CYQR	1
STEPHENVILLE	CYJT	1
ST-JEAN	CYJN	2
ST. JOHN'S INTL	CYYT	1
SYDNEY	CYQY	1
TRENTON	CYTN	10
TRENTON 1590	CYTR	8
VALCARTIER (W/C J.H.L. (JOE) LECOMTE) (HELI)	CYOY	2
WESTLOCK	CES4	1
WINNIPEG INTL	CYWG	4

\*These figures include all strikes reported by DND, both on airport and en route.

#### 4.2a Kind of Bird Involved

Common Name	# Of Strikes	% Of Total Strikes
UNKNOWN BIRD	94	64.83%
GULLS	11	7.59%
SPARROWS	6	4.14%
STARLINGS	6	4.14%
HAWKS	4	2.76%
SWALLOWS	3	2.06%
AMERICAN KESTREL	2	1.38%
FRANKLIN'S GULL	2	1.38%
MALLARD	2	1.38%
SAVANNAH SPARROW	2	1.38%
BUNTINGS	1	0.69%
CROWS	1	0.69%
LARKS	1	0.69%
RING-BILLED GULL	1	0.69%
SNOW BUNTING	1	0.69%
SANDPIPERS	1	0.69%
PINE SISKIN	1	0.69%
LEAST SANDPIPER	1	0.69%
DOUBLE-CRESTED CORMORANT	1	0.69%
GEESE	1	0.69%
DUCKS	1	0.69%
DUNLIN	1	0.69%
EASTERN MEADOWLARK	1	0.69%
<b>TOTAL</b>	<b>145</b>	<b>100.00%</b>

#### 4.2.b Month of Occurrence



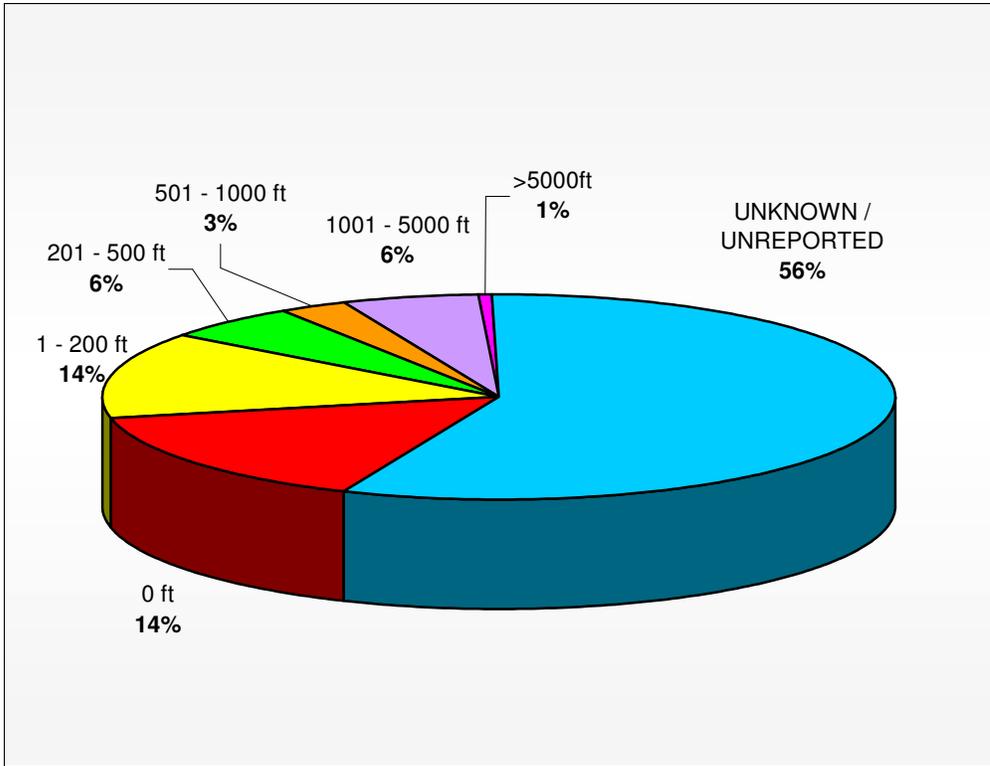
Month of Occurrence	# Of Strikes
JANUARY	4
FEBRUARY	4
MARCH	4
APRIL	13
MAY	31
JUNE	10
JULY	21
AUGUST	13
SEPTEMBER	22
OCTOBER	14
NOVEMBER	5
DECEMBER	4

#### 4.2c Aircraft Involved

Aircraft Make	Aircraft Model	# Of Strikes
<b>AIRBUS</b>		
	A-310	4
	CC-150 POLARIS	4
<b>BAE</b>		
	HAWK	15
<b>BEECH</b>		
	BE-200 KING	1
<b>BELL</b>		
	CH-146 GRIFFON	11
<b>BOEING</b>		
	B-707	1
	CC-177 GLOBEMASTER	4
<b>BOMBARDIER</b>		
	CHALLENGER 300	1

<b>CANADAIR</b>		
	CT-114 TUTOR	7
	CANADIAR CF-5	1
<b>CASA</b>		
	CASA C-212	1
<b>CESSNA</b>		
	L-19/O-1 Bird Dog	5
<b>DEHAVILAND</b>		
	CC-115 BUFFALO	3
	DHC5	2
<b>GRIFFON</b>		
	BELL	3
<b>GROB</b>		
	GROB	3
<b>ISRAEL AIRCRAFT IND.</b>		
	IAI WESTWIND	1
<b>LOCKHEED</b>		
	CC 130 HERCULES	17
	CP-140 AURORA	9
	F-16	1
	LOCKHEED P3	1
<b>MCDONNELL DOUGLAS</b>		
	CF-18 HORNET	10
	F-15	1
<b>MILITARY</b>		
	MILITARY	1
<b>RAYTHEON</b>		
	CT-156 HARVARD II	27
<b>TRANSALL</b>		
	C-160	1
<b>WESTLAND</b>		
	CH-124 SEAKING	2
	CH-149 CORMORANT	3
<b>UNKNOWN / UNREPORTED</b>		
	UNKNOWN / UNREPORTED	5

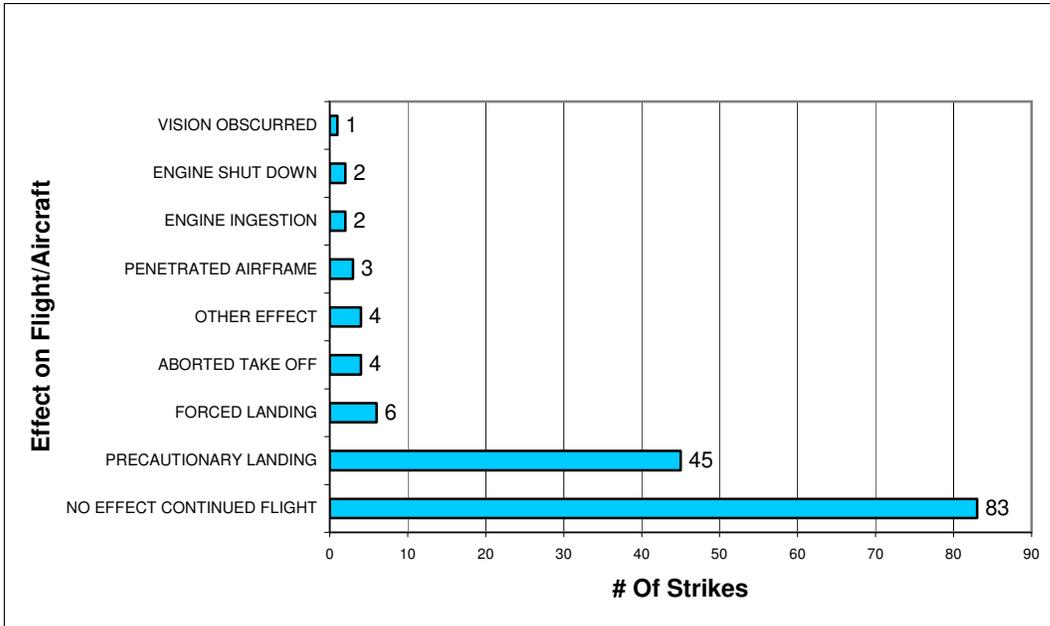
#### 4.2d Altitude of Strikes



\*82 reports did not identify the altitude at which the strike occurred

Height	# Of Strikes
0 ft	22
1 - 200 ft	20
201 - 500 ft	8
501 - 1000 ft	4
1001 - 5000 ft	8
>5000 ft	1
UNKNOWN / UNREPORTED	82

**4.3a Bird Strikes: Effects on Flight/Aircraft**



Strike Effect	# Of Strikes
NO EFFECT CONTINUED FLIGHT	78
PRECAUTIONARY LANDING	45
FORCED LANDING	6
ABORTED TAKE OFF	4
OTHER EFFECT	4
PENETRATED AIRFRAME	3
ENGINE INGESTION	2
ENGINE SHUT DOWN	2
VISION OBSCURRED	1

**4.3b Parts Struck/Damaged**

