Bird Incident Rate Report for April to June 2010

Bird incident rates are reported quarterly by aerodrome. This is achieved by querying the database for the number of incidents at aerodromes and summarising by quarter. The results of this query are then divided by the aircraft movements at each aerodrome for the same quarter and multiplied by 10,000 to achieve strikes per 10,000 aircraft movements. Aircraft movements at aerodromes are obtained from the ACNZ, and where available, from individual airport companies. Where no movement data are available, CAA estimates are used. Aerodrome operators are invited to supply more accurate movement data where appropriate.

Definition of 'On-Aerodrome'

Not all bird strike incidents occur within the wildlife management area that relates to the aerodrome stated in the incident report so this report breaks incidents down into 'On aerodrome', 'Off aerodrome' and 'Undefined'.

An "on airport" bird strike is defined within IBIS (ICAO Bird Strike Information System) as one which occurs between 0 to 200 ft inclusive on landing and 0 to 500 ft inclusive on take-off. This definition doesn't align well with the level of 50 ft that is widely used in NZ as the boundary between take-off and climb and between approach and landing. This misalignment makes it inappropriate to use the reported 'Phase of Flight' as the sole factor in determining whether a reported strike is on or off an aerodrome.

This report therefore makes the following assumptions:

- 1. If the distance from the airport is greater than 5 NM the strike is Off Aerodrome
- 2. If no altitude is reported the strike is Off Aerodrome if the flight phase is Cruise or Holding, On Aerodrome if the flight phase is Taxiing, Hover Taxi, Takeoff or Landing and Undefined in all other cases
- 3. If the altitude is reported as zero the strike is Undefined if the flight phase is Parked or Unknown otherwise it is On Aerodrome
- 4. If the altitude is reported as greater than zero but not greater than 200 feet the strike is Undefined if the flight phase is Parked, Unknown or Taxiing otherwise it is On Aerodrome
- 5. If the altitude is reported as greater than 200 ft but not greater than 500 ft the strike is On Aerodrome if the flight phase is Takeoff or Climb, Off Aerodrome if the flight phase is Approach, Descent or Landing and Undefined otherwise
- 6. If the altitude is reported as greater than 500 ft the strike is Undefined if the flight phase is Parked, Taxiing, Hover Taxi or Unknown and Off Aerodrome otherwise

These rules are applied in the above order with later rules having no effect if a strike meets the conditions of earlier rule.

On-Aerodrome Strike Rate per 10,000 Aircraft Movements

(12-Month Moving Average)

The following table shows the 12-month moving average on-aerodrome strike rates for identified aerodromes for the three years ending 30 June 2010.

						Qua	rter					
Aerodrome	07/3	07/4	08/1	08/2	08/3	08/4	09/1	09/2	09/3	09/4	10/1	10/2
Auckland	2.6	2.6	2.5	2.8	2.7	2.5	2.8	2.1	1.9	2.3	2.4	3.0
Chatham Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	0.0
Christchurch	3.1	2.9	2.5	3.1	2.9	3.2	3.2	2.6	2.6	2.1	1.8	1.9
Dunedin	3.3	2.9	2.2	3.2	2.9	3.3	4.1	3.4	3.4	4.5	4.3	4.1
Gisborne	7.0	6.3	5.7	11.2	10.7	11.5	10.4	6.6	5.9	5.4	4.7	3.0
Hamilton	2.3	2.0	1.8	2.3	2.5	3.0	2.9	2.4	2.1	1.6	1.8	1.9
Hokitika	7.5	10.0	7.5	7.5	5.0	2.5	5.0	2.5	2.5	2.5	2.5	2.5
Invercargill	6.7	7.7	9.4	8.1	8.0	9.9	7.7	7.4	5.7	5.0	7.0	6.5
Kerikeri	1.3	0.0	3.8	3.8	3.8	5.0	3.8	7.5	11.3	10.0	8.8	8.8
Manapouri	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Napier	6.2	4.5	5.6	6.9	5.5	6.4	5.0	4.6	6.5	6.6	8.2	12.9
Nelson	2.3	1.8	1.4	1.6	1.6	1.3	1.9	1.8	1.8	1.7	1.4	1.6
New Plymouth	3.6	3.0	2.1	2.8	3.0	3.7	5.0	5.3	4.7	4.6	4.5	4.4
Ohakea	1.2	1.3	2.0	1.7	2.2	2.7	2.2	2.1	1.7	1.4	1.9	2.5
Palmerston North	3.5	3.0	3.1	3.2	3.1	3.1	3.8	5.0	5.3	6.0	5.6	4.5
Paraparaumu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
Queenstown	3.1	3.9	3.7	3.8	3.6	2.2	3.1	2.4	2.8	2.8	1.8	1.6
Rotorua	7.9	7.1	5.8	5.2	4.7	4.0	4.4	5.4	5.7	6.3	6.8	6.0
Taupo	1.8	1.8	1.5	1.8	2.0	1.7	2.7	2.5	2.3	2.9	2.0	2.4
Tauranga	1.9	1.6	1.5	1.4	1.8	2.1	2.1	2.0	1.3	1.0	0.7	0.7
Timaru	10.0	10.0	10.0	5.0	7.5	5.0	6.3	8.8	7.5	7.5	6.3	3.8
Wanganui	10.0	10.0	10.0	3.3	3.3	0.0	3.3	6.7	3.3	2.2	0.8	1.6
Wellington	1.6	1.1	1.0	1.0	1.2	1.4	1.7	1.7	1.5	1.4	1.3	1.5
Westport	43.6	38.8	24.2	19.4	4.8	9.7	19.4	19.4	29.1	24.4	23.9	23.9
Whangarei	11.0	11.0	10.0	1.0	0.0	0.0	3.0	4.0	9.0	10.0	8.0	9.0
Whenuapai	9.6	10.3	13.6	12.2	12.7	12.1	9.6	7.7	7.9	10.6	9.9	12.5
Woodbourne	6.0	6.2	3.7	4.1	3.5	3.1	2.9	2.9	2.9	2.9	5.4	5.2
Overall	3.3	3.1	2.9	3.1	3.0	3.2	3.4	3.1	3.0	2.9	2.9	3.1

Data with a pink background is based on CAA estimates of aircraft movements for the aerodrome because the CAA has either no data or incomplete data for that aerodrome.

CAA Actions

The CAA uses the following criteria for assessing actions to be taken with regard to identified trends in bird strike rates.

Bird strikes per 10,000 aircraft movements	Risk Category	Trending Down	Constant	Trending Up
≥ 0.0 and < 5.0	Low	Monitor	Monitor	Advise Aerodrome Operator
≥ 5.0 and < 10.0	Medium	Monitor	Advise Aerodrome Operator	Advise Aerodrome Operator, Request Rectification Action
≥ 10.0	High	Advise Aerodrome Operator	Advise Aerodrome Operator, Request Rectification Action	Advise Aerodrome Operator, Request Rectification Action

Analysis

Analysis shows that thirteen aerodromes had bird strike rates above the "trigger level" for CAA Action. Details were forwarded to Manager Aeronautical Services on 27 July 2010

Aerodrome	Risk Category	Trend	CAA Action
Auckland	Low	Constant	Monitor
Chatham Islands	Low	Upward	Advise Aerodrome Operator
Christchurch	Low	Downward	Monitor
Dunedin	Low	Upward	Advise Aerodrome Operator
Gisborne	Low	Downward	Monitor
Hamilton	Low	Constant	Monitor
Hokitika	Low	Downward	Monitor
Invercargill	Medium	Downward	Monitor
Kerikeri	Medium	Upward	Advise Aerodrome Operator, Request Rectification Action
Manapouri	Low	Constant	Monitor
Napier	High	Upward	Advise Aerodrome Operator, Request Rectification Action
Nelson	Low	Constant	Monitor
New Plymouth	Low	Upward	Advise Aerodrome Operator
Ohakea	Low	Constant	Monitor
Palmerston North	Low	Upward	Advise Aerodrome Operator
Paraparaumu	Low	Upward	Advise Aerodrome Operator
Queenstown	Low	Downward	Monitor
Rotorua	Medium	Constant	Advise Aerodrome Operator
Taupo	Low	Upward	Advise Aerodrome Operator
Tauranga	Low	Downward	Monitor
Timaru	Low	Downward	Monitor
Wanganui	Low	Downward	Monitor
Wellington	Low	Constant	Monitor
Westport	High	Downward	Advise Aerodrome Operator
Whanagrei	Medium	Constant	Advise Aerodrome Operator
Whenuapai	High	Downward	Advise Aerodrome Operator
Woodbourne	Medium	Downward	Monitor
Overall	Low	Constant	Monitor

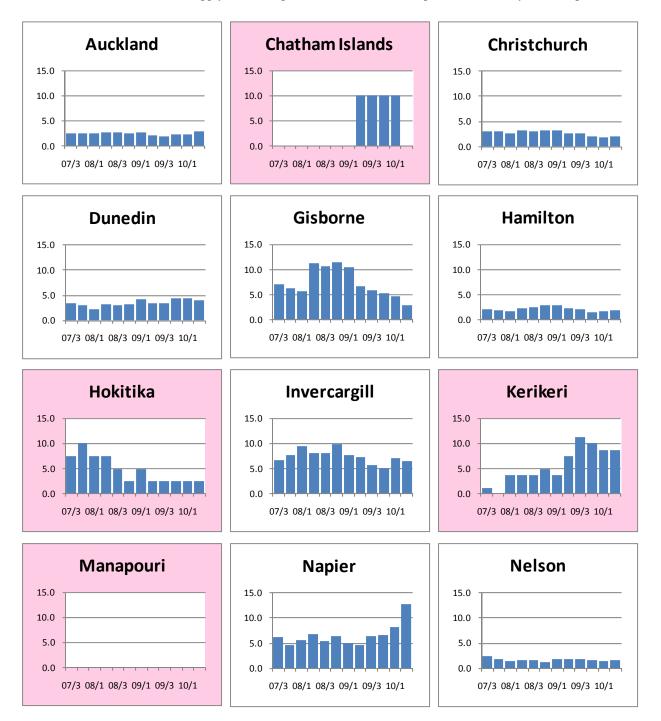
Details for individual aerodromes are shown in the following table

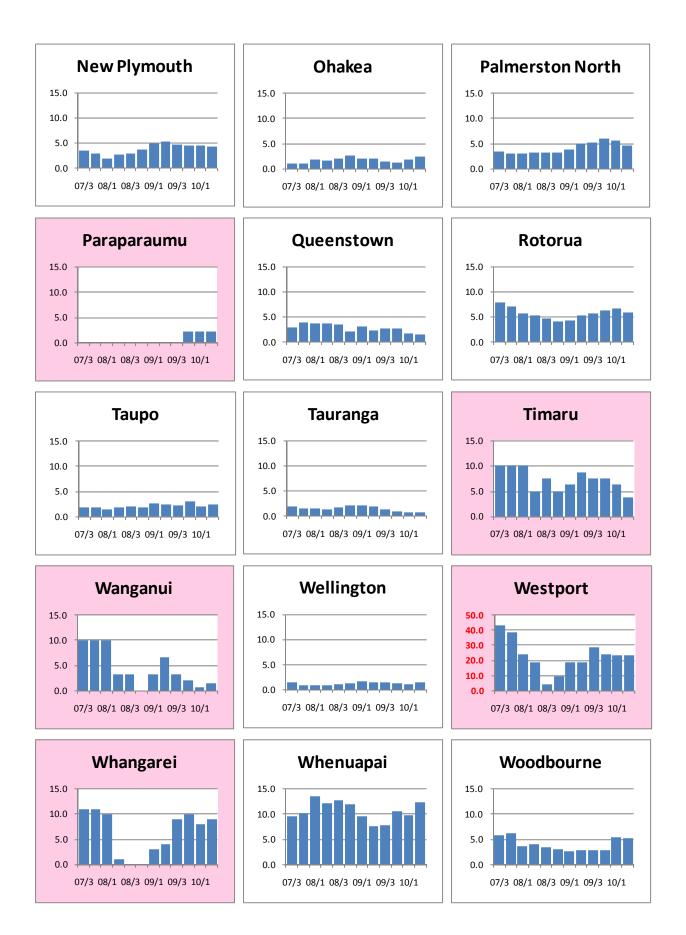
The following table summarises the numbers of aerodromes in each Risk/Trend Category.

Downward	Constant	Upward	Total
			Totai
7	6	6	19
2	2	1	5
2	0	1	3
11	8	8	27
	2 2 11	2 2 2 0 11 8	2 2 1 2 0 1

The following graphs show the 12 month moving average on-aerodrome bird-strike rates per 10000 movements for each monitored aerodrome for the three years ending 30 June 2010.

Graphs with a pink background are based on CAA estimates of aircraft movements for the aerodrome because the CAA has either no data or incomplete data for that aerodrome. Operators of these aerodromes are invited to supply more complete movement data to improve the accuracy of this report.



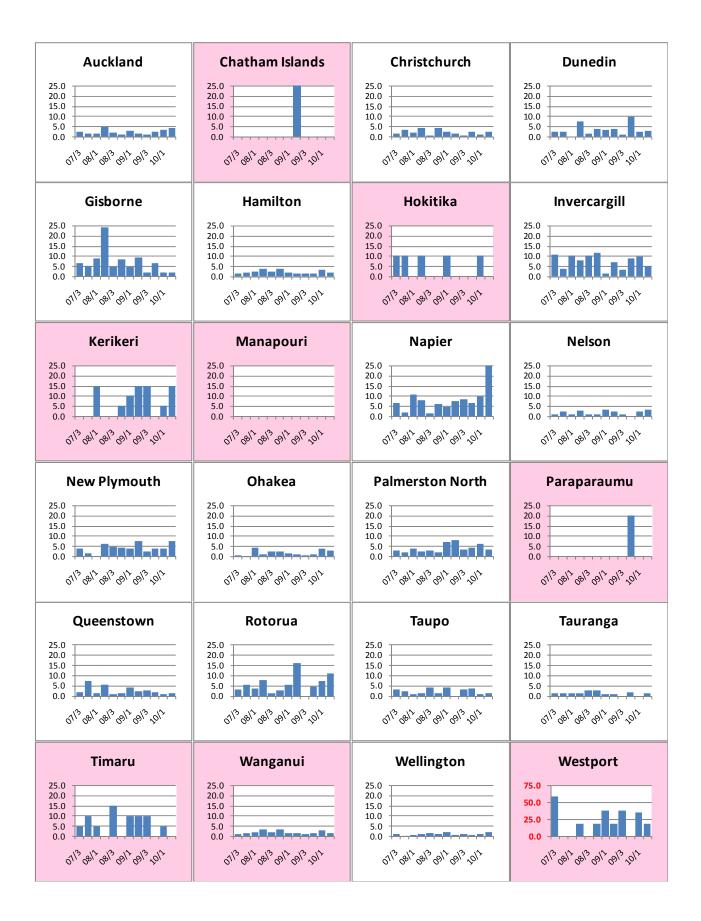


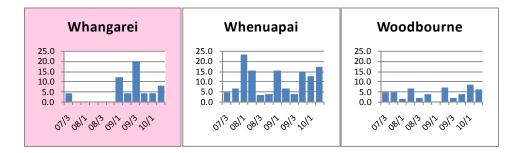
On-Aerodrome Quarterly Strike Rate per 10,000 Aircraft Movements

						Qu	arter					
Aerodrome	07/3	07/4	08/1	08/2	08/3	08/4	09/1	09/2	09/3	09/4	10/1	10/2
Auckland	2.8	1.9	1.9	4.8	2.2	1.2	3.3	1.9	1.3	2.8	3.5	4.5
Chatham Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0
Christchurch	1.8	3.8	2.4	4.4	1.1	4.8	2.6	2.0	0.9	2.7	1.5	2.7
Dunedin	2.8	2.8	0.0	7.9	1.9	3.9	3.8	4.2	1.5	9.9	2.7	3.3
Gisborne	6.3	5.1	8.8	24.1	4.6	8.5	4.7	9.4	1.7	6.4	1.7	2.0
Hamilton	1.5	1.7	2.4	3.6	2.2	3.9	1.8	1.6	1.3	1.6	3.3	1.7
Hokitika	10.0	10.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0	0.0	10.0	0.0
Invercargill	10.6	3.5	10.2	8.0	10.2	11.5	1.6	6.7	3.2	8.9	9.5	5.0
Kerikeri	0.0	0.0	15.0	0.0	0.0	5.0	10.0	15.0	15.0	0.0	5.0	15.0
Manapouri	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Napier	6.7	1.7	10.5	8.0	1.4	6.1	4.5	7.2	8.4	6.7	10.0	25.2
Nelson	0.8	2.3	0.8	2.6	0.9	0.8	3.2	2.5	0.8	0.0	2.3	3.1
New Plymouth	4.1	1.7	0.0	6.3	4.9	4.5	4.2	7.6	2.7	4.0	3.9	7.5
Ohakea	1.0	0.5	4.3	1.4	2.9	2.6	1.8	1.3	1.0	1.4	4.1	3.4
Palmerston North	3.4	2.4	4.0	2.9	3.1	2.3	7.5	8.0	3.4	4.6	6.5	3.8
Paraparaumu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
Queenstown	1.8	7.2	1.2	5.6	0.9	1.6	4.4	2.2	2.6	1.7	0.8	1.2
Rotorua	3.2	5.6	3.9	8.1	1.3	2.9	5.8	16.2	0.0	4.5	7.5	11.0
Taupo	3.0	2.5	0.9	1.2	4.3	1.2	4.0	0.0	3.4	3.8	1.1	1.5
Tauranga	1.4	1.6	1.2	1.6	2.9	3.0	1.1	1.2	0.0	1.8	0.0	1.4
Timaru	5.0	10.0	5.0	0.0	15.0	0.0	10.0	10.0	10.0	0.0	5.0	0.0
Wanganui	1.5	1.7	2.4	3.6	2.2	3.9	1.8	1.6	1.3	1.6	3.3	1.7
Wellington	1.3	0.6	0.9	1.3	2.0	1.4	2.1	1.1	1.4	1.1	1.4	2.3
Westport	58.1	0.0	0.0	19.4	0.0	19.4	38.8	19.4	38.8	0.0	35.6	19.4
Whakatane	6.7	3.3	6.7	3.3	0.0	0.0	3.3	3.3	13.3	10.0	16.7	3.3
Whangarei	4.0	0.0	0.0	0.0	0.0	0.0	12.0	4.0	20.0	4.0	4.0	8.0
Whenuapai	4.5	6.7	23.3	15.1	3.3	3.6	15.1	6.5	3.6	14.7	12.6	17.1
Woodbourne	4.7	4.8	1.2	6.6	1.8	3.5	0.0	6.8	1.8	3.7	8.5	6.2
Overall	3.1	3.2	3.4	4.8	3.1	3.8	4.4	3.8	2.2	3.8	3.8	5.0

The following table and graphs show the quarterly on-aerodrome strike rates for identified aerodromes for the three years ending 30 June 2010.

Data with a pink background is based on CAA estimates of aircraft movements for the aerodrome because the CAA has either no data or incomplete data for that aerodrome.





The remainder of this report records the results of analysis of individual aerodromes' reported bird strikes and near strikes broken down by on-/off-aerodrome and separately by bird size. One page is also included to cover the same information averaged across all monitored aerodromes.

The version of the report distributed internally within the CAA includes a separate page for each monitored aerodrome but the version delivered to each aerodrome operator will only contain the pages relevant to that operator. The version delivered to the NZAFSC and DOC will carry none of these individual pages.

Strike and Near Strike Rates per 10000 Movements - All Monitored Aerodromes (12 month moving averages)

ON/OFF Aerodrome STRIKE Cluarter ON OFF Undefined Total 07/3 3.8 0.2 0.3 4.1 08/1 3.4 0.2 0.3 4.1 08/3 3.6 0.2 0.3 4.1 08/3 3.6 0.2 0.3 4.1 09/2 3.8 0.2 0.4 4.4 09/3 3.6 0.2 0.3 4.1 09/2 3.8 0.2 0.3 4.4 09/3 3.6 0.3 0.3 4.2 09/4 3.5 0.2 0.3 4.4 09/3 0.6 0.5 0.1 6.2 07/3 5.6 0.5 0.1 6.2 08/4 6.1 0.5 0.2 6.6 08/4 6.1 0.5 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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07/4 1.5 2.8 1.1 0.5 5.9 50.0 Unknown
08/2 1.7 3.2 1.0 0.2 6.1
08/3 1.9 3.5 1.0 0.2 6.6 ≥ 30.0 Medium
08/4 2.0 3.7 0.9 0.2 6.9
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