Tender Reference No. AFCD/SQ/18/09

Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2009 - 10

Monthly Waterbird Monitoring Winter 2009 - 10 Report



Submitted by The Hong Kong Bird Watching Society Ltd. Approved Charitable Institution of a Public Character to Agriculture, Fisheries and Conservation Department, Hong Kong SAR Government

August 2010



This report is printed on recycled paper

Tender Reference No. AFCD/SQ/18/09

Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

Waterbird Count Coordinator YU Yat Tung

The Hong Kong Bird Watching Society Ltd.

Data Contributors

John Allcock, Geoff Carey, Mike Chalmers, Gary Chow, Forrest Fong, Vivian Fu, Martin Hale, John and Jemi Holmes, Tony Hung, W.M. Hung, Alan Lam, H.F. Lee, Roger Lee, Mike Leven, Richard Lewthwaite, K.W. Ma, Karl Ng, C.C. Pang, Carmen Or, Y.H. Sung, Captain Wong, H.K. Ying, Y.T. Yu, Shenzhen Bird Watching Society, Agriculture, Fisheries and Conservation Department and The Hong Kong Bird Watching Society Ltd.

Copyright

The project is part of the "Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2009-10" funded by Agriculture, Fisheries and Conservation Department, Hong Kong SAR Government (AFCD). All the data shall be the property of the Government with full copyright

Report available for public information

The Hong Kong Bird Watching Society Limited 14/F, Ruby Commercial Building, 480 Nathan Road, Yau Ma Tei, Kowloon, Hong Kong E-mail: hkbws@hkbws.org.hk Website: www.hkbws.org.hk

And

Agriculture, Fisheries and Conservation Department Hong Kong SAR Government 7/F, Cheung Sha Wan Government Offices 303 Cheung Sha Wan Road Kowloon, Hong Kong Website: www.afcd.gov.hk

This publication should be cited as

Anon. 2010. Winter 2009-10 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site. Report by Hong Kong Bird Watching Society to the Agriculture, Fisheries and Conservation Department, Hong Kong Special Administrative Region Government.

TABLE OF CONTENTS

REPORT

1. Introduction	6
2. Methodology	6
3. Results	7
3.1 Species of conservation significance	11
3.2 Other notable counts	15
4. Conclusion	16
5. Acknowledgements	17
6. References	17

TABLE

Table 1.	Comparisons of total waterbird numbers in the Deep Bay and Ramsar Site,
	winter 2006-07 to 2009-10
Table 2.	Numbers of waterbird counts, winter 2009-10 by groups and areas
Table 3.	Peak numbers of different waterbird groups in the Deep Bay area during
	the mid-winter period from 2001-201010
Table 4.	Numbers of waterbird groups recorded in low-tide counts, winter
	2009-1011

FIGURE

Figure 1.	Winter	aggregate	of	species	peak	counts	and	mid-winter	(January)
	waterbi	rd counts, 1	992	-2010					

Map

Map 1.	Map of Hong Kong showing location of the Mai Po Inner Mai Po Deep Bay
	Ramsar Site
Map 2.	Location of major count sites of the Waterbird Monitoring Programme 22
Map 3.	Boundary of Mai Po Inner Deep Bay Ramsar site area

APPENDICE

in i Litelici	
Appendix 1.	Counts of waterbird in October 2009
	Counts of waterbird in November 2009
	Counts of waterbird in December 2009
	Counts of waterbird in January 2010
	Counts of waterbird in February 2010
	Counts of waterbird in March 2010

Appendix 2. Peak count of each waterbird species, winter 2009-10

Appendix 3. Low-tide count, December 2009 Low-tide count, January 2010 Low-tide count, February 2010

Winter 2009-10 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

Report



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

MAI PO INNER DEEP BAY RAMSAR SITE WATERBIRD MONITORING PROGRAMME

Programme 2009/10

Monthly Waterbird Count

Oct 2009 - Mar 2010

Winter 2009-2010 Report

 $Y.T. Yu^1$

1. Introduction

Long-term monitoring of waterbirds provides an indication of the health of the Deep Bay ecosystem. It is an important strategic aspect for the management of the Mai Po Inner Deep Bay Ramsar Site. This Waterbird Monitoring Programme was administered and executed by the Hong Kong Bird Watching Society Limited (HKBWS) under subvention from the Agriculture, Fisheries and Conservation Department (AFCD) from Dec 1997 to March 2004. Starting from April 2004, the Waterbird Monitoring Programme was arranged under a service contract funded by AFCD.

Monthly counts of waterbirds in the site form a major part of this programme, the others being counts of shorebirds during the migration season, and egretry surveys during the breeding season. This report concerns the monthly waterbird monitoring component for the winter period from October 2009 to March 2010 under the contract tender reference no. AFCD/SQ/18/09.

2. Methodology

Coordinated mid-monthly counts of wintering waterbirds in Hong Kong were carried out by members of the HKBWS on 18 October 2009, 15 November 2009, 20 December 2009, 24 January 2010, 21 February 2010 and 7 March 2010. The January count coincided with the Asian Waterfowl Census organized by Wetlands International – Asia Pacific. Counts from November to March have been carried out each winter since 1992-1993; counts in January were first carried out in 1979.

The survey area extends from fishponds at Ma Tso Lung (Hoo Hok Wai) in the east to the coastal fringe at Pak Nai and Nim Wan in the west and the Futian

Yu Yat Tung (Coordinator, Waterbird Monitoring Programme) The Hong Kong Bird Watching Society Limited
 Postal address: 14/F., Ruby Comm. Bldg., 480 Nathan Road, Kowloon, Hong Kong Tel: (852) 2377 4387 Fax: (852) 2314 3687 E-mail: hkbws@hkbws.org.hk

National Nature Reserve in Shenzhen Special Economic Zone, China in the north. Since November 2004, counting of waterbirds in the Hong Kong Wetland Park at Tin Shui Wai was included as a part of this monitoring programme (Map 1 and 2). Figure of each count is mainly presented with two areas: Deep Bay area and Ramsar site. The whole Deep Bay area includes all the counting areas in this study that is mentioned above and details could refer to Map 1 and 2. Figure of Ramsar site only includes the numbers of birds recorded within the boundary of the Mai Po Inner Deep Bay Ramsar site that is shown in Map 3 with an exception of the Mai Po village egretry because this area is not covered by this part of the monitoring programme. Simply speaking, the Deep Bay area figure covers all the numbers of birds in the whole study area, while the Ramsar site covers the numbers of the birds in some parts of the Deep Bay area.

In general, this monitoring programme involves surveying specified areas and counting waterbirds in individual fishponds, *gei wai*, streams, mudflat or marshes. Tidal areas of Inner Deep Bay were surveyed simultaneously so as to ensure the chance of double-counting was as small as possible.

During the winter months, there are substantial numbers of birds in the bay. However, there are very few diurnal tides of a sufficient height to force all waterbirds off the mudflat and onto roost sites inland. Counts were made on dates with a rising tide, preferably one that comes to about 2.0 m. High-tide counts of individual species made one week either side of the count date are included if they are considered to be more accurate than that made on the count day. This methodology used is described in detail in the Waterbird Count Handbook (Carey 2002, Map 1, Map 2).

Daytime high tides were not high enough to move the waterbirds close to the Mai Po Boardwalk birdwatching hide in recent winters. An additional low-tide count was thus arranged in the mid-winter period (i.e. December to February), in order to providing extra information on the number of ducks and gulls in particular present in the intertidal area. Counting was done in synchronous manner at Tsim Bei Tsui police jetty and the Futian National Nature Reserve, Shenzhen. These low-tide counts were scheduled on the same days as high-tide counts.

3. Results

All survey areas in Deep Bay and the Ramsar Site were covered in the winter months, including the Hong Kong Wetland Park at Tin Shui Wai and the Futian National Nature Reserve in Shenzhen Special Economic Zone, China. The results of the six counts are summarized in table 2; results in full are provided in Appendix 1.

The peak monthly count of winter 2009-10 was the January count, in contrast to the previous year, when the peak count was in February. Compared to the previous year, this winter peak count dropped marginally by 1.6% of the whole Deep Bay figure, but increased significantly by 42% in the Ramsar site area. In comparison with the January count of last winter, this year's January count recorded higher figures for both the whole Deep Bay area and the Ramsar site. The figure for the whole Deep Bay area increased 8%, while that for the Ramsar site had a larger increase of 28% (table 1).

Table 1. Comparisons of winter peak monthly and January counts in the whole Deep Bay area and Mai Po Inner Deep Bay Ramsar Site, winter 2006-07, 2007-08, 2008-09 and 2009-10. The Ramsar site covers partly of the whole Deep Bay area and details refer to Map 2 and 3.

		Winter	Winter	Winter	Winter
		2006-07	2007-08*	2008-09	2009-10*
Winter peak	Deep Bay	70,303	90,132	78,155	76,882
monthly count^	Ramsar Site	33,782	56,823	27,526	39,000
January count	Deep Bay	65,909	90,132	71,264	76,882
	Ramsar Site	46,732	56,823	30,539	39,000

[^]Winter peak monthly count is the highest count in the winter period.

* The peak counts of the whole Deep Bay area was the January counts in winter 2007-08 and 2009-10.

Wintering Ducks and Grebes comprised the largest count this winter with a figure of 28,700 in the January count. Shorebirds were the second largest group this winter with a count of 23,926, also in the January count. Ducks and Grebes declined 25% (winter 2008-09: 38,099 birds) and shorebirds remained similar with a very small decrease of 0.6% (winter 2008-09, 24,069 birds) from the same figure of the previous winter. The peak count of Gulls and Terns in this winter was 11,331, very similar to the figures of the previous two winters: 11,212 birds in winter 2008-09 and 11,787 birds in winter 2007-08. Figures of each waterbird group in the winter 2009-10 are listed in table 2.

Table 2. Numbers of waterbird counts, writer 2009-2010 by groups and areas.											
Group	Site	Oct	Nov	Dec	Jan	Feb	Mar				
Cormorants	Deep Bay area	2,964	7,876	6,585	9,045	10,758	4,829				
	Ramsar site	2,822	4,595	5,940	5,661	4,690	3,761				
	Starling Inlet	0	9	7	270	18	28				
Ardeids	Deep Bay area	2,476	2,665	3,353	3,357	2,792	1,963				
	Ramsar site	1,311	1,169	1,944	1,948	1,791	1,177				
	Starling Inlet	277	200	209	163	178	242				
Ducks and	Deep Bay area	3,754	15,113	12,920	28,700	20,557	5,124				
grebes	Ramsar site	151	9,060	7,486	12,219	12,896	3,391				
	Starling Inlet	0	12	22	15	29	29				
Rails and	Deep Bay area	83	243	122	523	323	160				
Coots	Ramsar site	47	67	60	94	249	81				
	Starling Inlet	3	21	25	22	27	20				
Shorebirds	Deep Bay area	5,621	10,451	16,762	23,926	21,340	16,947				
	Ramsar site	4,364	8,787	6,367	12,916	16,902	9,794				
	Starling Inlet	9	17	21	38	1	1				
Gulls and terns	Deep Bay area	32	335	4,181	11,331	7,541	3,953				
	Ramsar site	13	263	3,796	6,162	2,808	2,153				
	Starling Inlet	0	0	0	0	0	0				
Total	Deep Bay area	14,930	36,683	43,923	76,882	63,311	32,976				
	Ramsar site	8,708	23,941	25,593	39,000	39,336	20,357				
	Starling Inlet	289	259	284	508	253	320				

Table 2. Numbers of waterbird counts, winter 2009-2010 by groups and areas.

NC = no count, No count was made at Starling Inlet in March.

Peak counts for each waterbird group since winter 2001-02 are shown in table 3, which indicate trends of each waterbird group in recent winters. Numbers of wintering Great Cormorants increased this winter after a decline last winter. Ardeids recorded the lowest numbers this winter, though numbers have fluctuated over the years. Ducks and Grebes also saw a drop in their numbers after the high counts of the three previous winters. Rails and coots became less numerous recently and the trend has continued in the last two winters after a small increase of their numbers. Shorebirds have boosted their numbers in recent winters and remained relatively high this winter. Finally, Gulls and Terns have become stable in a range of 11-12,000 individuals in recent winters.

Winter	Cormorants	Ardeids	Ducks and	Rails and	Shore-	Gulls and
			Grebes	coots	birds	Terns
2001-02	6,230 (Jan)	4,400	18,987 (Dec)	195 (Jan)	10,242	13,302
2001-02		(Jan)			(Jan)	(Jan)
2002-03	7,959 (Jan)	4,702	20,203 (Jan)	219 (Dec)	9,849	13,191
2002-03		(Jan)			(Feb)	(Jan)
2003-04	8,964 (Jan)	3,963	16,856 (Feb)	362 (Jan)	12,856	8,469
^		(Dec)			(Jan)	(Dec)
2004-05	9,552 (Jan)	6,425	22,521 (Jan)	384 (Feb)	9,806	9,346
2004-05		(Dec)			(Feb)	(Dec)
2005-06	10,347	4,345	19,657 (Feb)	597 (Dec)	13,695	14,417
2003-00	(Jan)	(Jan)			(Feb)	(Feb)
2006-07	10,081	4,396	33,779 (Feb)	798 (Feb)	19,054	12,000
2008-07	(Jan)	(Dec)			(Feb)	(Jan)
2007-08	11,144	3,549	35,066 (Jan)	866 (Jan)	27,720	11,787
2007-08	(Jan)	(Jan)			(Jan)	(Jan)
2008-09	8,736 (Jan)	4,384	38,099 (Feb)	460 (Jan)	24,069	11,212
2008-09		(Feb)			(Feb)	(Dec)
2009-10	10,758	3,357	28,700 (Jan)	523 (Jan)	23,926	11,331
2009-10	(Feb)	(Jan)			(Jan)	(Jan)

Table 3. Peak numbers of different waterbird groups in the Deep Bay area during the mid-winter period (i.e. December to February) from 2001 to 2010.

[^] Counts in mid-winter period of winter 2003-04 were modified by additional counts. Details are referred to Part II: additional counts of waterbirds in Deep Bay Intertidal area in January and February 2004 in Yu (2004) and Anon. (2005).

In order to avoid stochastic biases from using the January count alone and to obtain a more accurate picture of numbers of waterbirds that depend on Deep Bay for at least some part of the winter, the total winter peak count in the mid-winter period (December to February) was also used. This winter the total peak count was 87,379 birds, including 1,122 unidentified shorebirds. This figure is similar to the last winter's figure of 87,633 birds. This is one of the highest sums of peak species counts in winter period. Peak numbers of each waterbird species in mid-winter period are shown in Appendix 2.

Low-tide count was again carried out in the intertidal area at Tsim Bei Tsui Police jetty and Futian National Nature Reserve, Shenzhen in December, January and February. The figures for certain waterbird groups could be amended with using higher counts obtained in the low tide count. Ducks and Grebes had higher numbers in December and January low tide counts, Gulls and Terns also had a higher count in the January low tide counts. Good visibility is the main reason for obtaining this additional information of waterbird numbers. High tide in February was higher than those in the December and January, and so the high tide count provided a better situation for counting than that in the low tide period. The figures used in the report have been adjusted with combining high figures obtained from both high and low tide counts. Figures of different waterbird groups from the low-tide counts are listed in table 4 and details are shown in the Appendix 3.

Table 4. Numbers of waterbird groups recorded in the Deep Bay area during low-tide counts, winter 2009-10. Numbers in parenthesis are the figures from the Ramsar Site area.

	December 2009	January 2010	February 2010
Cormorants	0 (0)	3,089 (0)	383 (0)
Ardeids	0 (0)	300 (0)	527 (163)
Ducks, grebes and	12,920 (750)	26,672 (3,383)	18,601 (8,731)
pelicans			
Rails and Coots	68 (0)	374 (0)	10 (0)
Waders	8,808 (0)	13,029 (0)	16,574 (2,884)
Gulls and terns	3,567 (3,250)	10,738 (6,162)	7,541 (946)
Total	25,664 (4,000)	54,202 (9,545)	43,636 (12,724)
High-tide count total	43,923 (25,593)	76,882 (39,000)	63,311 (39,336)

The ten most numerous waterbird species recorded in the Deep Bay area were (in descending order): Northern Shoveler *Anas clypeata* (20,008), Pied Avocet *Recurvirostra avovsetta* (13,883), Great Cormorant *Phalacrocorax carbo* (10,758), Black-headed Gull *Larus ridibundis* (10,575), Tufted Duck *Aythya fuligula* (4,871), Kentish Plover *Charadrius alexandrinus* (4,303), Eurasian Wigeon *Anas penelope* (3,780), Northern Pintail *Anas acuta* (2,502), Dunlin *Calidris alpina* (2,500) and Marsh Sandpiper *Tringa stagnatilis* (2,310). These ten commonest species contributed to a total figure of 74,890 individuals, constituting 86% of the total winter peak number of all the waterbird. Of these high numbers, some species presented high numbers or large proportion of the high numbers in the Futian National Nature Reserve, Shenzhen, including Northern Shoveler, Black-headed Gull, Kentish Plover and Dunlin.

3.1 Species of conservation significance

Some species that occur in the Deep Bay Area are of conservation significance due to their being listed as globally threatened by BirdLife International (2000, 2004a, 2009a, 2009b), or because they are species for which Deep Bay supports, or may support, at least 1% of regional or flyway population, as used for implementing the Ramsar Convention criterion 3c. The '1% of regional or flyway population' is based on information provided by Wetlands International (2006) and Li *et al.* (2009). Brief reviews of these important waterbird species are provided below.

Dalmatian Pelican Pelcanus crispusVulnerableSingle bird was recorded in a short period around the December count. Theregional population is estimated as low as only 30 individuals (Yu and Chen 2008).

Great Cormorant Phalacrocorax carbo

An additional coordinated roost count at Mai Po Nature Reserve and Nam Sang Wai in January count recorded a total of 9,045 individuals, a small increase of 3.5% from the previous year's same figure. But the highest count in this winter was 10,758 recorded in the February count. The 1% regional population is set at 1,000 individuals (Wetlands International 2006, Li *et al.* 2009) and the Deep Bay area supported about 9-10% of the regional population of this species in winter 2009-10.

Black-faced Spoonbill Platalea minor

Endangered

The peak count of this globally endangered bird in winter 2009-10 was 496 individuals recorded in the January count, of which a total of 482 birds were present within Hong Kong territory. This is a new high figure for this flag-ship species for Hong Kong. During the 2010 International Black-faced Spoonbill Census, the total world known wintering population was at least 2,346 individuals in the East Asia region (HKBWS unpub. data). Therefore, the Deep Bay area could support 21% of the world population of this species.

Falcated Duck Anas falcata

Near Threatened

Only one individual was recorded in the January and February count, another poor winter for this declining species.

Northern Pintail Anas acuta

The 1% regional population is set at 2,500 individuals (Wetlands International 2006, Li *et al.* 2009). A total of 2,502 individuals were counted in the February count, meaning that the Deep Bay area to support 1% of the regional population of this species this winter. This species is one of the most common ducks wintering in the

Deep Bay area but there have been fluctuations of numbers in recent winters from only 397 individuals in the previous winter to a high of 3,613 individuals in winter 2007-08.

Northern Shoveler Anas clypeata

An extraordinary peak count of 20,008 was recorded in the January count, 38% higher than the previous peak count of 14,523 individuals in winter 2007-08. The regional population is set at 5,000 individuals (Wetlands International 2006, Li *et al.* 2009) and therefore the Deep Bay area supports 4% of the regional population. Most birds were present at Futian National Reserve where a total of 18,943 birds were counted.

Tufted Duck *Aythya fuligula*

The highest count in this winter was 4,871 individuals recorded in the February count. Though a 28% decrease from the peak count of the previous year, this is still a good figure of this species for the Deep Bay area and the previous year peak figure was a very high figure. The 1% regional population is set at 2,500 individuals (Wetlands International 2006, Li *et al.* 2009) and so the Deep Bay area supports approximate 2% of the regional population. Unlike Northern Shoveler, this species was largely present (4,528 birds) in Hong Kong side.

Pied Avocet Recurvirostra avosetta

A total of 13,883 individuals recorded in the February count was the peak count this winter, the second highest count of this species in the Deep Bay area after the figure of 16,123 recorded in winter 2007-08. The bulk of this flock (11,881 birds) was present on the Hong Kong side. This figure was similar number to the previous year (i.e. 13,061 birds) and there was only a 6% increase. The 1% regional population is set at 1,000 individuals (Wetlands International 2006 and Li *et al.* 2009), hence this winter peak count represents 13% of the regional population.

Kentish Plover Charadrius alexandrinus

A large flock in a total of 4,303 individuals was recorded in the January count at Futian, the peak count of this winter. This is also the new highest figure of this species in the Deep Bay area and the previous peak count was 4,000 individuals recorded at Hong Kong side in December 1992. Also in the January count, a group of 470 birds were counted from Mai Po boardwalk in the falling tide period which was presumably part of this flock. The 1% regional population level is set at 1,000 individuals (Wetlands International 2006, Li *et al.* 2009) and so this new high figure

constituted 4.3% of the regional population.

Black-tailed Godwit Limosa limosa

Near Threatened

In the mid-winter period, the peak count was 752 in the January count, a decrease of 4% from the previous year but still a high figure. Later in the winter, the number rose to a higher level at 1,481 birds in the March count which could have included some northward bound passage birds. This species is common in spring and there is a regular wintering group in Hong Kong (Carey *et al.* 2002).

Eurasian Curlew *Numenius arquata* Near Threatened The peak count was 1,075 individuals in the January count, similar to the previous year's figure of 1,065. The 1% regional population is set at 350 individuals (Wetlands International 2006, Li *et al.* 2009) and this wintering population constitutes 3% of the regional population.

Common Greenshank Tringa nebularia

In the mid-winter period a total of 1,146 birds were present in the February count, which was the peak count. This was a significant decrease of 33% from the previous year's figure but it was an unusually high figure and most birds were present on the Futian side. Similar to Black-tailed Godwit, this species also saw a higher number present in early spring, a total of 1,976 in the March count that includes a count of 1,245 at Hong Kong Wetland Park, Tin Shui Wai. This is a new high figure for this species in the Deep Bay area. Also, these figures constituted 1-2% of the regional population as the 1% regional population is set at 1,000 individuals (Wetlands International 2006, Li *et al.* 2009).

Nordmann's Greenshank Tringa guttifer

Endangered

A single bird of this endangered species was recorded in both January and February counts. The global population of this species is estimated at 500-1,000 individuals (BirdLife International 2009a).

Saunders's Gull Larus saundersi

Vulnerable

The peak count this winter was 74 in the February count, a 42% increase from the previous year, and a relatively high count compared to recent winters. The global population is estimated to lie in a range of 7,100 to 9,600 individuals (BirdLife International 2009b) and the 1% population threshold value is set at 85 birds (Wetland International 2006).

3.2 Other notable counts

Greater Crested Grebe Podiceps cristatus

The 1% regional population level is set at 375 individuals (Wetlands International 2006, Li *et al.* 2009) and the wintering population in the Deep Bay area sometimes could reach to this level. The peak count in this winter was 215 birds in the January count and therefore it did not meet the threshold level in this winter.

Great Egret Egretta alba

Usually 1% (i.e. 1,000 individuals by Wetlands International 2006 and Li *et al.* 2009) of the regional population utilizes Deep Bay area in winter. The peak count this winter was 882 in the December count, a 10% decrease from the previous year's peak count.

Common Shelduck Tadorna tadorna

This species was once a common winter visitor in Deep Bay with a peak count of 4,000 individuals, but there has been a severe decline of numbers in recent years. Only six individuals were noted in the midwinter period, lower than nine and 18 birds in the previous two winters.

Common Teal Anas crecca

The peak count this winter was only 627 birds in the January count, a drastic decline of 73% from the peak count of 2,332 in the previous winter. This species is one of the most numerous ducks wintering in the Deep Bay area (Carey *et al.* 2002) and this sharp decline is of conservation concern locally.

Eurasian Coot Fulica atra

This species was more numerous in the past with thousands of birds present in the Deep Bay area but there has been a large decline of numbers in recent winters. The peak count in this winter was 354 in the January count, similar to the figure of 325 in the previous winter.

Little Ringed Plover Charadrius dubius

The peak count in this winter period was 196 recorded in the November count, while 192 birds was the highest during the mid-winter period. These figures indicate a significant decline of 38% from the peak count of 315 birds in the previous winter. The 1% population level is set at 250 individuals (Wetlands International 2006, Li *et al.* 2009) and therefore the Deep Bay area did not support 1% regional population in this

winter.

Spotted Redshank Tringa erythropus

This species also shows a decreasing trend in recent winters, compared with over 1,000 individuals in 1990s (Carey *et al.* 2002) but only 800 birds since 2003. This was a poor winter for this species because the peak count was only 186 birds in the February count, a significant decline of 73% from the previous year's peak count (i.e. 681 birds).

Black-headed Gull Larus ridibundis

Once the most numerous waterbird species in the Deep Bay area, this is now showing a decline of its numbers from over 16,000 individuals in mid-1990s. The peak count in this winter was 10,575 in the January count, with a small decline of 5% from the previous year's peak count. Also, a significant proportion of 4,575 birds were recorded in the Futian side in this January count and only 6,000 birds utilized the mudflat area on Hong Kong side during low tide period. Numbers recorded in high tide period were lower than this figure. This indicates that the birds may have shifted their roosting areas to the Shenzhen side from the Hong Kong side.

Conclusion

Trends of total winter peak count and the January count in figure 1 show that waterbird numbers in the Deep Bay area increased from a relatively low count in winter 2003-04 to reach the highest number ever in winter 2007-08. Since then the numbers have been relatively stable. Therefore, the Deep Bay area already has high numbers in four consecutive winters and this is a very encouraging sign for the conservation of waterbirds in the Deep Bay area.

Low-tide counts this winter were successful to provide additional good counts of ducks and gulls in the Futian area. Situation in Futian National Nature Reserve is still improving as more waterbirds utilize the area, especially in the low-tide period. Small-sized shorebirds, mainly Kentish Plover and Dunlin, were present in high numbers in front of Mai Po boardwalk in early to mid-1990s but numbers have decreased subsequently. In this winter large flocks of both species were found again in the Futian area. The situation in Hong Kong has also improved and figure 1 shows numbers of waterbirds in the Ramar site area also increased this winter. These favourable conditions contributed to the high number of waterbirds in the Deep Bay area in this winter. Though waterbird numbers were high this winter, this is composed of high counts of a few dominant species such as Northern Shoveler and Pied Avocet. In actual fact, other common waterbirds are declining in numbers this winter, for example: Common Teal and Spotted Redshank. Our observations also give the impression that wintering ducks are less diverse than in the past because Northern Shovelers and Tufted Duck predominate. On the other hand, other species which could have significant regional population in the Deep Bay area are showing fluctuating numbers, which would need more data to indicate their trends. These species include Greater Crested Grebe, Great Egret, Eurasian Coot and Little Ringed Plover.

Some disturbance events in the Deep Bay area including the Ramsar Site still occurred over the last twelve months. Cross border fishermen were found operating in the mudflat area in front of the Mai Po boardwalk hide. More attention should be given to any illegal fishing activities in the mudflat areas of Deep Bay during the hovercraft patrols by AFCD to minimize nuisance caused by cross border fishermen in the mudflat area.

Acknowledgements

I would like to thank the following counters for participating the counts: John Allcock, Geoff Carey, Mike Chalmers, Gary Chow, Forrest Fong, Vivian Fu, Martin Hale, John and Jemi Holmes, Tony Hung, W.M. Hung, Alan Lam, H.F. Lee, Roger H. Lee, Mike Leven, R.W. Lewthwaite, K.W. Ma, Karl Ng, C.C. Pang, Carmen Or, Y.H. Sung, Captain Wong, H.K. Ying, Shenzhen Bird Watching Society and AFCD colleagues.

References

Anon. 2009. Winter 2008-09 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site. Report by Hong Kong Bird Watching Society to the Agriculture, Fisheries and Conservation Department, Hong Kong SAR Government.

BirdLife International. 2000. Threatened Birds of the World. Lynx Edicions and BirdLife International. Barcelona and Cambridge, UK.

BirdLife International. 2004a. Threatened Birds of the world 2004. CD-ROM. Cambridge, UK: BirdLife International.

BirdLife International. 2009a. Species factsheet: *Anas falcata*. Download from http://www.birdlife.org on 9/7/2009.

BirdLife International. 2009b. Species factsheet: *Limosa limosa*. Download from http://www.birdlife.org on 9/7/2009.

BirdLife International. 2009c. Species factsheet: *Tringa guttifer*. Download from http://www.birdlife.org on 9/7/2009.

BirdLife International. 2009d. Species factsheet: *Larus saundersi*. Download from http://www.birdlife.org on 9/7/2009.

Carey, G.J. 2002. Waterbird Count Handbook: A guide for participants in the waterbird counts in Hong Kong. 2nd edition. Hong Kong Bird Watching Society. Hong Kong.

Li Z.W.D., Bloem, A., Delany, S., Martakis G. and Quintero, J.O. 2009. Status of waterbirds in Asia – Results of the Asian Waterbird Census: 1987-2007. Wetlands International. Kuala Lumpur, Malaysia.

Wetlands International. 2006. Waterbird Population Estimates – fourth edition. Wetlands International, Wageningen, The Netherlands.

Yu, Y.T. and Chen Z.H. 2008. Dalmatian Pelican *Pelecanus crispus*: the largest waterbird in East Asia, and the rarest? BirdingASIA 9: 62-66.

Winter 2009-10 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

Figure

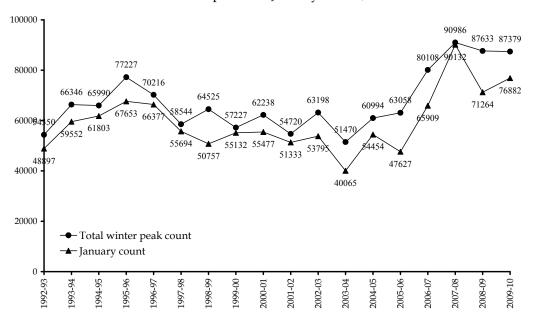


The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

Figure 1. Total winter peak counts and January (mid-winter) counts, 1992-2010. Note: number of waterbird in winter 2003-04 was modified and details are referred to Anon. (2005). Data of winter 1997/98, 1998/99, 1999/00 and 2005/06 have been revised.



Total winter peak and January counts, 1992-2010

Winter 2009-10 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

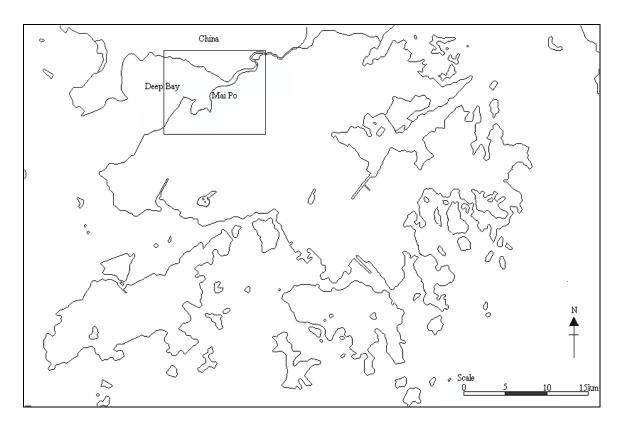
Maps



The Hong Kong Bird Watching Society Limited

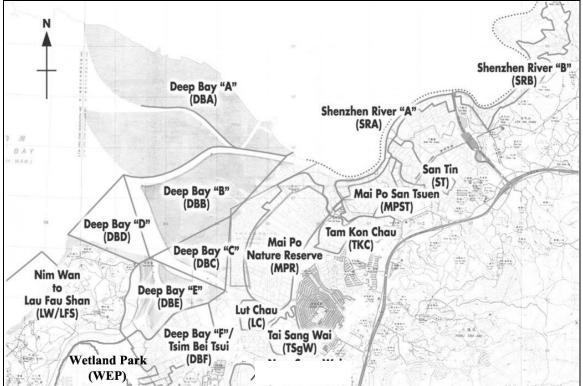


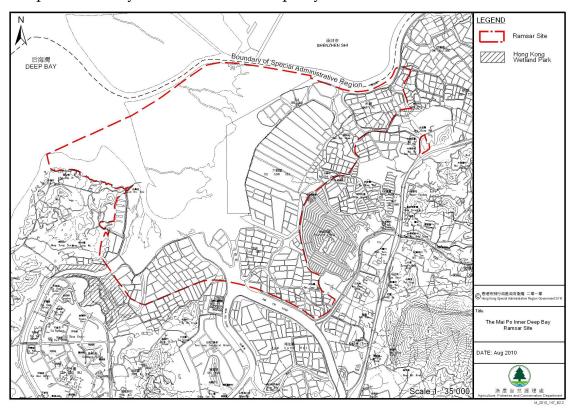
Agriculture, Fisheries and Conservation Department



Map 1. Map of Hong Kong showing location of the Mai Po Inner Deep Bay Ramsar Site

Map 2. Locations of major count areas of the Waterbird Monitoring Programme





Map 3. Boundary of Mai Po Inner Deep Bay Ramsar site area.

Source: AFCD

Winter 2009-10 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

Appendix 1



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

Summary of Waterbird Count, October 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	WEP	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	25	4	6					13		1	23	0	26	7	0	33	60	0	93	138	
Great Crested Grebe																0			0	0	
Great Cormorant	102	11	6	180			1	20			7	2	4	74	15	2542	98	182	2822	2964	
Dalmatian Pelican																0			0	0	
Grey Heron	153	5	115	7	13	16	41	23	2	81	8	10	6	6	3	116	49	86	251	605	24
Purple Heron	1	1														5			5	7	
Great Egret	51	4	68	30	65	21	37	63	12	28	14	6	7	5	28	76	33	194	303	515	186
Intermediate Egret	6	0	1	2				0		4	1	0	1	0	0	5	2	2	9	20	2
Little Egret	10	6	219	21	26	80	25	29	25	38	32	77	101	43	35	190	253	164	607	957	55
Swinhoe's Egret																0			0	0	
Pacific Reef Egret																0			0	0	1
Cattle Egret	7	0						0			14	23	16	0	2	8	39	0	47	70	
Chinese Pond Heron	45	12	27	4		4		3	5	8	32	0	13	22	27	13	62	8	83	215	2
Striated Heron	0	0						0			0	0	0	0	0	1	0	0	1	1	
B-c Night Heron	8	0	63	1				0			2	0	0	0	1	3	1	1	5	78	7
Yellow Bittern	0	0						0			0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern																0			0	0	
Great Bittern																0			0	0	
Black Stork																0			0	0	
Black-headed Ibis																0			0	0	
Eurasian Spoonbill																0			0	0	
Black-faced Spoonbill	6		2													0			0	8	
Common Shelduck																0			0	0	
Eurasian Wigeon	0	0	107					1			0	0	0	0	0	5	0	0	5	113	
Falcated Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	61	0	20					0		16	0	0	0	0	0	0	0	0	0	97	
Mallard																0			0	0	
Spot-billed Duck																0			0	0	
Chinese Spotbill																0			0	Ő	
Burmese Spotbill																0			0	Ő	
Northern Pintail	33		80													1			1	114	<u> </u>
Garganey	2		00													24			24	26	
Northern Shoveler			208													0			0	208	ł I
Common Pochard			200													0			0	0	ł I
Baer's Pochard																0			0	0	ł I
Tufted Duck			30													0			0	30	ł I
Greater Scaup			50													0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.			3000		17		3									8		20	28	3028	<u> </u>
Slaty-breasted Rail			5000		17		5									0		20	0	0	
Water Rail																0			0	0	
White-breasted Waterhen	7	3	2					5	-	1	3	0	4	3	2	7	15	0	22	37	1
Watercock	/	3	2					3		1	3	0	4		4	0	13	0	0	0	1
	3	0	9					4		10	0	0	0	0	0	20	5	0	-		2
Common Moorhen Eurasian Coot	3	0	9					4		10	0	0	0	0	0	20	3	0	25 0	46	2
	2									2						0					┝───┤
Pheasant-tailed Jacana	2									3						0			0	5	├ ──┤
Greater Painted Snipe	1	1	1													0			0	1	<u> </u>

Black-winged Stilt	2	1	433	1	I	1	I	27	1	39	I	1	1	l	1 1	52	28	1	80	555	1 1
Pied Avocet	2	1	433					21		59			1			19	20		19	19	
Oriental Pratincole																0			0	0	├─── ┤
																0		-	0		
Northern Lapwing																				0	
Grey-headed Lapwing	1															0			0	0	
Pacific Golden Plover			2									-				0			0	2	<u> </u>
Grey Plover																14			14	14	
Common Ringed Plover																0			0	0	
Little Ringed Plover	12	0	2					0	7	8	80	3	15	0	0	0	96	0	96	127	
Kentish Plover																0			0	0	
Lesser Sand Plover																0			0	0	
Greater Sand Plover																0			0	0	6
Black-tailed Godwit																511			511	511	
Bar-tailed Godwit																2			2	2	
Whimbrel			1													1			1	2	
Eurasian Curlew																103			103	103	
Far Eastern Curlew		1	1		l I	1						1				0	İ		0	0	
Spotted Redshank		1	1	1	1	1		1	1			1				97	1	1	97	97	
Common Redshank	1		84		<u> </u>							1				220	<u> </u>	1	220	304	<u>├</u>
Marsh Sandpiper		1	38	1	ł	1			<u> </u>	4		1				2143	<u> </u>	<u> </u>	2143	2185	<u> </u>
Common Greenshank			97							245						988			988	1330	3
Nordmann's Greenshank			97							243		-				988		-	988	0	
	1	2						0		1	2	1		1	1		7	0		15	
Green Sandpiper	1	3	100					0		1	2	1	4	1	1	1	7	0	8		
Wood Sandpiper	50	0	109					0		46	3	2	0	0	0	20	5	0	25	230	<u> </u>
Terek Sandpiper			10						-							0			0	10	
Common Sandpiper	4	4	6				1	4	3	4	10	7	0	7	12	5	25	1	31	67	
Grey-tailed Tattler																0			0	0	
Ruddy Turnstone																0			0	0	
Red-necked Phalarope																0			0	0	
Pintail Snipe																0			0	0	
Swinhoe's Snipe																0			0	0	
Pintail/Swinhoe's Snipe	2															0			0	2	
Common Snipe	10		3							1						2			2	16	
Long-billed Dowitcher																1			1	1	
Asian Dowitcher																0			0	0	
Red Knot												1				0			0	0	
Great Knot																22			22	22	
Sanderling																0			0	0	
Red-necked Stint												1				0			0	0	<u> </u>
Little Stint																0			0	0	
Temminck's Stint	1	1	-			1									<u> </u>	0		1	0	0	┣────┤
	1	+	+	ł	ł	<u> </u>			<u> </u>	<u>├</u>	1				$\left \right $	0	1	+	1	1	╂────┤
Long-toed Stint				<u> </u>	<u> </u>						1		<u> </u>						-		╂────┤
Pectoral Sandpiper		+		l		 			<u> </u>	<u> </u>		<u> </u>		ļ		0	ļ		0	0	╂────┤
Sharp-tailed Sandpiper			I		L	I										0	<u> </u>	l	0	0	↓
Dunlin																0		ļ	0	0	
Curlew Sandpiper			L		L	L	L									0			0	0	
Spoon-billed Sandpiper																0		ļ	0	0	
Broad-billed Sandpiper																0			0	0	
Ruff																0			0	0	
Small wader spp.																0			0	0	
Wader sp.									ſ			ľ				0			0	0	
Black-tailed Gull			1		1	1						1				0	1	1	0	0	
Heuglin's Gull		1	1	1	l I	1						1				0	İ		0	0	
Yellow-legged Gull	1		1			1						1				0			0	0	<u> </u>
1 vilo v-loggou Guit	L	1	1	I		l.	l	l	1	1	H					U	I	1	0	0	

Slaty-backed Gull	1	1	1		I	1	1	1	I	1	1	1	1	1	1	0	I	1	0	0	1 1
Pallas's Gull																0			0	0	<u> </u>
Large Gull spp.																0			0	0	
Brown-headed Gull																0			0	0	
Black-headed Gull	0	0		2				0			0	0	0	0	0	1	0	2	3	3	
Saunders's Gull	0	0		2				0			0	0	0	0	0	0	0	2	0	0	
Whiskered Tern											10		5	1	13	0	10		10	29	
White-winged Tern											10		5	1	15	0	10		0	0	
Gull-billed Tern																0			0	0	<u> </u>
Caspian Tern																0			0	0	<u> </u>
Total	604	54	4748	247	121	121	108	192	54	538	242	131	203	169	139	7259	789	660	8708	14930	289
Totai	004	34	4/40	241	121	121	100	192	34	330	242	151	203	109	139	1239	/07	000	0/00	14930	209
	Deep Bay Area	%	Ramsar Site	%	SI																
Cormorants	2964	19.9	2822	32.4	0	0															
Ardeids etc	2476	16.6	1311	15.1	277	0															
Ducks, grebes, pelicans	3754	25.1	151	1.7	0	0															
Rails, Coot etc	83	0.6	47	0.5	3	0															
Waders	5621	37.6	4364	50.1	9	0															
Gulls and terns	32	0.2	13	0.1	0	0															
TOTAL	14930		8708		289	0															
Date of count: 18 Oct 2009																					
n/c = site not counted		High tide																			
# indicates count consists of or includes a count ma	ade up to one we	eek either s	side of the	count d	ate																
% = count made at evening roost	1		1				1	1													
	-																			-	łł
Wetland-dependant species																					
. ·	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	WEP	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Species			6	1	4		1									0			0	10	
Osprey Black Kite	3	4	6 11	1	4		1	4			0	1	3	2	7	20	8	1	29	12 56	2
White-bellied Sea Eag	3	4	11	1				4			0	1	3	2	/	20	8	1	0	0	2
	2		4													0			1	7	łł
Eastern Marsh Harrier	2	-	4					<u> </u>		<u> </u>			<u> </u>			0		<u> </u>	1	0	╂────┤
Common Buzzard	0	0						0			0	0	0	0	1	0	0	0	0	-	┣───┤
Greater Spotted Eagle Imperial Eagle	0	0						0			0	0	0	0	0	0	0	0	0	0	┣───┤
Peregrine Falcon	U	0						0			0	0	0	0	0	0	0	U	0	0	┣───┤
Peregrine Falcon Pied Kingfisher	3	1	3					1			0	0	0	0	1	2	1	0	3	11	1
Common Kingfisher	2	1	5			1		2		ł	12	1	2	5	4	2	19	0	21	36	1
	0					1		1	1	1		•	_	2		3	5	-	<u>21</u> 9	36 18	╂────┤
White-throated Kingfisher Black-capped Kingfisher	0	1	3	1		1		1	1	1	2	0	1 0	0	2	0	5	1	2	18	╂────┤
Red-billed Starling	0	0	1	1		<u> </u>		0			0	0	0	0	0	0	0	0	0	0	╂────┤
	0	0	2			<u> </u>	1	5			0	9	0	0	0	6	14	0	21	23	╂────┤
Collared Crow	U	0	2			I	1	3		I	0	9	U	0	0	0	14	1	21	23	

Summary of Waterbird Count, November 2009

Linic clock2554151554005540055400552Great Creat Great G	SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Circat Convolution 255 154 2492 154 2492 154 249 101 1019 306 0 4595 7876 Dehradia Plandia Plandia<	ebe	25	54	15					14	3	4	17	0	25	4	15	15	54	0	69	191	5
Datamant Pelican I	ested Grebe			21		4		1			1						0		5	5	27	
Circy-Heory 121 23 100 47 18 26 82 31 84 9 11 22 17 16 26 28 59 17 517 920 Great Fjort 12 15 33 43 9 18 40 20 0 1 18 3 313 41 70 92.0 233 544 22 23 745 Swinhork Egref 11 24 62 83 6 6 3 33 17 6 17 3 333 41 70 92.0 233 745 Swinhork Egref 1 6 7 6 0 1 4 0 9 0	ormorant	255	154	2492					64	238	4	20	39	15	295	101	4199	396	0	4595	7876	9
Imple Horon 1 - <th< td=""><td>an Pelican</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td>0</td><td>0</td><td></td></th<>	an Pelican																0			0	0	
Create Laret 12 15 33 43 9 18 40 20 4 57 8 12 8 3 12 136 42 110 288 54 Little Erger 11 24 62 83 6 3 33 10 86 17 5 343 41 70 92 203 745 Swihole's Erger 1 6 7 3 83 41 70 92 203 745 Swihole's Erger 1 6 7 6 17 3 33 41 70 92 261 76 76 77 76 77 76 76 77 76 76 76 76 77 76 77 76 77 76 77 76 77 76 76 76 76 76 76 76 76 76 76 76 76 76 76	ron	121	23	102	47	18	26	82	31	84	9	11	22	17	16	26	285	59	173	517	920	40
Greed Egret 12 15 33 43 9 18 40 20 4 57 8 12 136 42 110 288 54 77 Linke Egret 11 24 62 83 6 3 33 10 86 17 6 17 6 17 3 343 41 70 92 203 735 Swinhor's Egret 1 6 3 33 10 86 17 6 17 0 1 0 0 1 0 0 1 0	leron	1															2			2	3	
International Egnet 5 4 - 2 - 0 0 1 0 4 9 1 2 12 27 Swinhov's Egnet - - 8 6 3 3 10 17 3 34 41 70 92 735 Buenche Sett Egnet - - - 0 - 0 - 0		12	15	33	43	9	18	40	20	4	57	8	12	8	3	123	136	42	110	288	541	114
Inthe Fard 11 24 62 83 6 3 33 10 86 17 6 17 3 33 41 70 92 203 745 winhork Sergit 0 0 <t< td=""><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>2</td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td>1</td><td>2</td><td>12</td><td></td><td></td></t<>			4						0	2					0			1	2	12		
Swinders Egret Image: Segret Image:	6		24	62	83		6	3	33	10	86	17	6	17	3	343	41	70	92			32
Pacific RedFigret I							, , , , , , , , , , , , , , , , , , ,								-							
Cattle Figref 1 6 - 0 - 0 1 1 4 0 9 0 5 0 5 21 Chines Pond Heron 0 0 0 0 0 1 1 1 1 1 1 8 9 28 16 30 5 51 183 Striated Heron 1 8 1 1 1 0 0 0																	-			-	-	
Chinese Pond Heron 30 25 26 3 1 1 3 3 18 11 1 8 9 28 16 30 5 51 183 Striated Heron 1 8 1 0		1	6						0			0	1	4	0	9	-	5	0	-	-	
Stritted Heron 0	0	30	-	26	3		1	1	-	3	18		1		-		-			-		4
Be-Night Heron 1 8 1 1 1 0 1 0 1 0				20	5		-	1		5	10		0									
Yellow Bittern 0 0 1 - - 0		1		1			1		-			-		-	1	-	÷		1		\$	10
Cimanon Bittern Image: Constraint of the second secon		0	-	1			1					*			0		-	1	0			10
Great Bittern Image: Control of the second sec		0	0	1					0			0	0	0	0	0	-	0	0	÷	-	
Black Stork Image: start of the start of th																	-			-		<u> </u>
Black-headed Ibis Image: Second Big																	-			-	-	╂────┤
Eurasian Spoonbill 14 5 31 1 15 7 57 4 1 1 5 65 3 15 83 205 Common Shelduk - - - - - - - - - - 0		-		-													-			-	-	
Black-faced Spoonbill 14 5 31 Image: spoon of the system of the s				1													-			-		
Common Shelduck Image		14						1.5	-	67		1				~		-	1.5			<u> </u>
Eurasian Wigeon 34 0 86 290 1 12 43 0 46 4 0 0 0 1 0 346 347 517 Falcated Duck Image: Constraint of the stand of the		14	5	31				15	1	57	4	1			I	5		3	15			
Falcated Duck Image: Common Teal Image: Common																			246	-	÷	┥───┤
Gadwall Image: Common Teal Image: Common Teal </td <td></td> <td>34</td> <td>0</td> <td>86</td> <td>290</td> <td>1</td> <td>12</td> <td>43</td> <td>0</td> <td>46</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>346</td> <td></td> <td></td> <td></td>		34	0	86	290	1	12	43	0	46	4	0	0	0	0	0	1	0	346			
Baikal Teal Image: Markad Spectral Markad Marka																	-					
Common Teal 39 5 16 7 6 5 0 109 2 1 0 0 14 0 18 32 204 Mallard 0			-														-			-		
MallardImage: constraint of the synthesis of the			_		_	_		_	_		-		_	_		_	Ů	_		÷	0	
Spot-billed Duck Image Image <thimage< th=""> Image Image</thimage<>		39	5	16	7	6		5	0	109	2	1	0	0	0	0		0	18		-	7
Chinese Spotbill Image: Spotbill <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>÷</td><td></td><td></td><td>÷</td><td>ÿ</td><td></td></th<>																	÷			÷	ÿ	
Burnese Spotill Image Spotility Image Spotility <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td>																	-			-	-	
Northern Pintail 25 25 260 11 45 1 115 271 386 481 Garganey 7 7 5389 540 330 12 53 0 0 0 0 60 Northern Shoveler 7 5389 5440 330 12 14 2 0 77 5782 5859 11271 Common Pochard 7 5389 5440 330 12 14 2 0 <t< td=""><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td></t<>	1																-			-	-	
Garganey 7 1 53 0 0 0 0 60 Northern Shoveler 7 5389 5440 330 12 14 2 77 5782 5859 11271 Common Pochard 0																	-			-		
Northern Shoveler 7 5389 5440 330 12 14 2 77 5782 5859 11271 Common Pochard 0 </td <td>ı Pintail</td> <td></td> <td></td> <td>25</td> <td>260</td> <td>11</td> <td></td> <td>115</td> <td></td> <td>271</td> <td></td> <td></td> <td></td>	ı Pintail			25	260	11											115		271			
Common Pochard Image: Common Pochard Im	·																-			-		
Baer's Pochard Image: Constraint of the system Image: Constraited of the system Image: Consystem		7		5389	5440	330		12		14		2							5782		11271	
Tufted Duck 1820 32 Image: Constraint of the system 1857	n Pochard												-				0			0	0	
Greater Scaup O <	ochard																0			0	0	
Red-breasted Merganser 0	Juck					1820		32									5		1852	1857	1857	
Duck sp. 500 0 500 500 500 500	Scaup																0			0	0	
	asted Merganser																0			0	0	
	-								500								0		500	500	500	
																	0			0	0	
Water Rail 0 0 0		1	1		1		1										0	1		0	0	
White-breasted Waterhen 2 2 2 3 2 3 4 1 0 0 1 4 3 5 12 29		2	2	2	3		1	2	3	2	3	4	1	0	0	1	-	3	5	12	29	3
		-	1 -	1 -			İ 🗌										0				-	
Common Moorhen 16 0 36 1 1 15 25 13 1 0 0 4 31 23 1 55 142		16	0	36			<u> </u>	1	15	25		13	1	0	0	4	-	23	1	-		18
$\begin{array}{c c c c c c c c c c c c c c c c c c c $, v				<u> </u>	· ·		20			-	Ŷ	v				-			

Pheasant-tailed Jacana	I 1	1	1	1	1	1	1	1	I	1	1	I.	1	1	1	0			0	1	1 1
Greater Painted Snipe	1															-			0	0	├ ───┤
·	-								-						_	0		4	÷	*	╉────┤
Black-winged Stilt	3		76	4					3						2	2		4	6	90	<u> </u>
Pied Avocet			212	2016												0		2016	2016	2228	2
Oriental Pratincole																0			0	0	╉────┤
Northern Lapwing																0			0	0	┥───┤
Grey-headed Lapwing			2													0		-	0	2	╉────┦
Pacific Golden Plover			2	3												0		3	3	5	
Grey Plover				255												0		255	255	255	
Common Ringed Plover																0			0	0	
Little Ringed Plover	17	0	2	22				2	7	36	48	36	6	7	13	0	84	22	106	196	
Kentish Plover			450	990						130						0		990	990	1570	1
Lesser Sand Plover				18												0		18	18	18	7
Greater Sand Plover																0			0	0	1
Black-tailed Godwit				420												0		420	420	420	
Bar-tailed Godwit				2												0		2	2	2	
Whimbrel				2						2						0		2	2	4	
Eurasian Curlew				128												0		128	128	128	
Far Eastern Curlew				2												0		2	2	2	
Spotted Redshank				1												3		1	4	4	
Common Redshank			70	285					6							0		285	285	361	
Marsh Sandpiper				916			150		118		6					17	5	1066	1088	1207	
Common Greenshank			88	230					132	14				1		71	1	230	302	536	5
Nordmann's Greenshank				1												0		1	1	1	
Green Sandpiper	1	8						0		2	2	1	7	1	4	0	11	0	11	26	
Wood Sandpiper	14	6	84	20				0			13	1	4	1	4	0	15	20	35	147	
Terek Sandpiper				1												0		1	1	1	
Common Sandpiper	3	11	6	3		2		1	4	11	4	7	5	5	15	1	20	5	26	78	
Grev-tailed Tattler																0			0	0	
Ruddy Turnstone																0			0	0	
Red-necked Phalarope																0			0	0	
Pintail Snipe																0			0	0	
Swinhoe's Snipe																0			0	0	
Pintail/Swinhoe's Snipe																0			0	0	
Common Snipe	2	15	16						1					1		0	1		1	35	
Long-billed Dowitcher			10													0			0	0	
Asian Dowitcher																0			0	0	
Red Knot				4												0		4	4	4	
Great Knot				34												0		34	34	34	
Sanderling				51												0		51	0	0	
Red-necked Stint			4	28												0		28	28	32	+
Little Stint			-	20												0		20	0	0	
Temminck's Stint	6		2	15												0		15	15	23	
Long-toed Stint	1	1	2	2			1		+							0		2	2	3	┥───┤
Pectoral Sandpiper	1	1		4			1		+							0		2	0	0	┥───┤
Sharp-tailed Sandpiper				1					+							0			0	0	┼──┤
Dunlin			36	3000					+							0		3000	3000	3036	1
	+	+	30	5000			1		+					<u> </u>		0		3000	3000	<u> </u>	1
Curlew Sandpiper	+			1			1		+							0		1			╂────┤
Spoon-billed Sandpiper#				1												-		1	1	1	┥───┤
Broad-billed Sandpiper	+			1					+							0		1	1	1	┥───┤
Ruff	+								+							0			0	0	┥───┤
Small wader spp.	+			 								<u> </u>				0	L		0	0	┥───┤
Wader sp.												1				0			0	0	1

Black-tailed Gull	1	I	I	1	I	1	1	I.	I	1	I	I	I	1	I	0	I	I	0	0	1 1
Heuglin's Gull				3	1											0		4	4	4	
6				3	1											-		4		-	
Yellow-legged Gull																0			0	0	
Slaty-backed Gull							-			-						0			0	0	
Pallas's Gull																0			0	Ŷ	
Large Gull spp.																0			0	0	
Brown-headed Gull	-	-			-			-				_			_	0			0	0	
Black-headed Gull	0	0	72	245			-	0		-	0	0	0	0	0	0	0	245	245	317	
Saunders's Gull				12												0		12	12	12	
Whiskered Tern																0			0	0	
White-winged Tern																0			0	0	
Gull-billed Tern																0			0	0	
Caspian Tern				2												0		2	2	2	
Total	655	365	9532	14844	2200	66	387	693	966	387	178	128	117	348	697	5120	824	17997	23941	36683	259
	Deep Bay	%	Ramsar	%	SI																
	Area	21.5	Site														<u> </u>	1			
Cormorants	7876	21.5	4595	19.2	9	0															
Ardeids etc	2665	7.3	1169	4.9	200	0															
Ducks, grebes, pelicans	15113	41.2	9060	37.8	12	0															
Rails, Coot etc	243	0.7	67	0.3	21	0	-			-											
Waders	10451	28.5	8787	36.7	17	0															
Gulls and terns	335	0.9	263	1.1	0	0															
TOTAL	36683	 	23941		259	0															
Date of count: 15 Nov 2009																					
n/c = site not counted		High tide	measured a	at TBT:																	
# indicates count consists of or includes a count made	e up to one we	eek either	side of the	count dat	te																
% = count made at evening roost	-																				
Wetland-dependant species																					
																		-			a
	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
Species								(181)		LFS							ponds	intertidal areas	Site	AREA	Inlet
Osprey			6	2	1		1	1								0	1		1	11	
Black Kite	3	3	2	2				5			2	2	2	1	7	22	11	2	35	51	
White-bellied Sea Eag																0			0	0	
Eastern Marsh Harrier	1			2												2	1		2	5	
Common Buzzard	1	l I	1	l	l	1	1		l		l		l	2		2	3		5	6	
Greater Spotted Eagle	1	0					1	0		1	0	0	0	0	0	2	0	0	2	3	
Imperial Eagle	1	0	1	1	1		1	0	1	1	0	0	0	0	1	3	0	0	3	5	
Peregrine Falcon				1			1	-		1		-		-		1		~	1	2	
Pied Kingfisher	0	1	2	-		1		0			0	1	0	2	3	1	3	1	5	11	
Common Kingfisher	4	6	3	1				2	2		6	2	3	3	8	6	18	1	25	46	2
White-throated Kingfisher	2	2	11	2		2	1	2	2	1	0	0	3	0	2	3	6	5	14	32	
Black-capped Kingfisher	1	0		1		<u> </u>		0	-		0	0	0	0	0	0	0	1	1	2	
Red-billed Starling	0	42	30	<u> </u>	<u> </u>		20	0	<u> </u>	1	355	251	300	69	107	400	970	20	1390	1574	8
Collared Crow	1	42	5			1	20	0			0	9	2	0	0	400	11	1	1590	22	0
	1	0	5		<u> </u>	-			<u> </u>			,	-		v	т		1	10		
Japanese Sparrowhawk										1						1			1	1	
Common Kestrel	1			<u> </u>	<u> </u>	-			<u> </u>		<u> </u>		<u> </u>	1	1	1	1		1	2	
Common Kestier		1	1	1	1		1	1	1	1	1	1	1		1		1	1	1	4	1

Summary of Waterbird Count, December 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	32	11	18				11	25	3	4	32	0	20	2	4	35	56	11	102	197	9
Great Crested Grebe			10			65				51						0		65	65	126	
Black-necked Grebe					1											0		1	1	1	
Great Cormorant	306	147	26	258	2		66	88	79	2	54	93	91	88	39	5246	367	327	5940	6585	7
Dalmatian Pelican				1												0		1	1	1	
Grey Heron	192	37	78	10	5	12	26	15	94	11	8	25	10	3	5	273	54	53	380	804	36
Purple Heron																0			0	0	
Great Egret	214	25	30	79	5	6	8	22	25	72	19	9	213	35	33	87	270	101	458	882	129
Intermediate Egret	10	1	1	8				0		1	0	0	0	0	0	2	0	8	10	23	1
Little Egret	88	60	47	48	34	35	3	20	12	46	103	9	231	246	27	38	585	125	748	1047	25
Swinhoe's Egret																0			0	0	
Pacific Reef Egret																0			0	0	
Cattle Egret	0	8						0			2	6	3	11	1	0	21	0	21	31	
Chinese Pond Heron	15	14	17	7		4	9	5		8	37	4	5	2	37	9	51	20	80	173	2
Striated Heron	0	0						0			0	0	0	0	0	0	0	0	0	0	i i
B-c Night Heron	0	0						0			0	0	0	0	0	4	0	0	4	4	16
Yellow Bittern	0	0						0			0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern																0			0	0	
Great Bittern																0			0	0	
Black Stork																0			0	0	
Black-headed Ibis																0			0	0	
Eurasian Spoonbill	4															0			0	4	
Black-faced Spoonbill	71		5				9	3	63		27		3			204	30	9	243	385	
Common Shelduck			-		4											0		4	4	4	
Eurasian Wigeon	11	19	994			1847	7	0	25	730	0	0	0	0	0	147	0	1854	2001	3780	
Falcated Duck								Ŭ					Ű	, , ,	,	0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	60	12	536					0	10		0	0	0	0	0	0	0	0	0	618	13
Mallard								, ,					÷	÷	÷	0			0	0	~~
Spot-billed Duck																0			0	0	
Chinese Spotbill	2															0			0	2	
Burmese Spotbill																0			0	0	
Northern Pintail	16	2			1200	224	103		53							412		1527	1939	2010	
Garganey	10	1			1200		105		25							2		1021	2	28	
Northern Shoveler	1	2	500		35	127	565		20							82		727	809	1312	
Common Pochard		_	200		50	12,	000									0		,2,	0	0	
Baer's Pochard								l								0		1	0	0	1
Tufted Duck	237		80		40		65									168		105	273	590	
Greater Scaup	231		00	1	-10	-	05	1		40						0	1	105	0	40	1 1
Red-breasted Merganser				<u> </u>					<u> </u>	-10			<u> </u>			0			0	40	+
Duck sp.				2290					1				1			0	<u> </u>	2290	2290	2290	+
Slaty-breasted Rail				2270					1				1			0	<u> </u>	2270	0	0	+
Water Rail	+															0			0	0	+
White-breasted Waterhen	0	1		2			1	0	2		0	0	0	0	0	0	0	3	3	6	1
Watercock	0	1		- 2			1	0	2		0	0	0	0	0	0	0	3	0	0	1
Common Moorhen	5	13	29			<u> </u>	2	5	4		2	0	0	0	2	49	4	2	55	111	23
Common wioonnen	3	15	29			L	7	5	4			U	0	0	7	49	4	2	2	5	23

N ((1))	1	I	1	1	1	I	1	I	1		1	1 1	1		1 1	0	1	1		0	1 1
Pheasant-tailed Jacana																0			0	0	
Greater Painted Snipe																0			0	0	
Black-winged Stilt			1													0			0	1	
Pied Avocet			9200			290	55			3		10				0	10	345	355	9558	
Oriental Pratincole																0			0	0	
Northern Lapwing																0			0	0	
Grey-headed Lapwing																0			0	0	
Pacific Golden Plover																0			0	0	
Grey Plover					3					23						0		3	3	26	
Common Ringed Plover																0			0	0	
Little Ringed Plover	7	3	8	54				6	3	27	14	13	0	4	3	0	31	54	85	142	
Kentish Plover			1	1687						78						0		1687	1687	1766	2
Lesser Sand Plover																0			0	0	
Greater Sand Plover																0			0	0	
Black-tailed Godwit																0			0	0	
Bar-tailed Godwit																0			0	0	
Whimbrel										34						0			0	34	
Eurasian Curlew			69	277	6	14	13			9						0		310	310	388	
Far Eastern Curlew			07	211	Ŭ		15									0		510	0	0	
Spotted Redshank				1	1		5									0		5	5	5	
Common Redshank					22		2									0		24	24	24	
Marsh Sandpiper					10		61									0		71	71	71	
Common Greenshank	1		19		10	51	5			19	2				1		2	56	58	98	1
	1		19			51	5			19	2				1	0	2	56			1
Nordmann's Greenshank	6									-	10	2	2	0		0	10	0	0	0	
Green Sandpiper	6	4					_	6	1	2	12	2	3	0	6	0	13	0	13	42	
Wood Sandpiper	7	3	39				2	0	7		12	0	0	0	11	0	9	2	11	81	
Terek Sandpiper																0			0	0	
Common Sandpiper	9	8	30	1	2	1	1	0	8	4	6	4	2	1	15	0	14	5	19	92	1
Grey-tailed Tattler																0			0	0	
Ruddy Turnstone																0			0	0	
Red-necked Phalarope																0			0	0	
Pintail Snipe																0			0	0	
Swinhoe's Snipe																0			0	0	
Pintail/Swinhoe's Snipe																0			0	0	
Common Snipe		4													2	0			0	6	
Long-billed Dowitcher																0			0	0	
Asian Dowitcher																0			0	0	
Red Knot																0			0	0	
Great Knot																0			0	0	
Sanderling																0			0	0	
Red-necked Stint		1	1	3	1			1								0		3	3	3	
Little Stint					1											0		2	0	0	
Temminck's Stint			2	6	1											0		6	6	8	
Long-toed Stint			-	0												0		0	0	0	
Pectoral Sandpiper																0			0	0	
			ł	+	1														0	0	
Sharp-tailed Sandpiper				1026												0		1026	-	-	9
Dunlin Curleus Sandainan				1036												0		1036	1036	1036 0	У
Curlew Sandpiper																*			0	*	
Spoon-billed Sandpiper				+ .												0			0	0	├ ───┤
Broad-billed Sandpiper				1												0		1	1	1	
Ruff				 												0			0	0	
Small wader spp.																0			0	0	8
*** 1		1	700	1380	450	I	850									0		2680	2680	3380	
Wader sp. Black-tailed Gull			700	1380	430		830									0		2080	2080	0	

Heuglin's Gull	1 1	l	1	130	I	1	I	I	I	I		1	1		1 1	0	I	130	130	130	1 1
Yellow-legged Gull				150												0		150	0	0	
Slaty-backed Gull																0			0	0	
Pallas's Gull																0			0	0	
Large Gull spp.																0			0	0	
																1			1	0	
Brown-headed Gull	0	0	201	2566	10		10	0		0.4	0	70	0	0	0	1	70	2500	1	1	
Black-headed Gull	0	0	301	3566	12		10	0		84	0	70	0	0	0	0	70	3588	3658	4043	
Saunders's Gull				/												-		/	,		
Whiskered Tern																0			0	0	
White-winged Tern																0			0	0	
Gull-billed Tern					-											0			0	0	
Caspian Tern																0			0	0	
Total	1297	375	12741	10851	1831	2676	1879	195	414	1248	330	245	581	392	186	6761	1587	17246	25594	42002	284
	-																				
	Deep Bay		Ramsar																		
	Area	%	Site	%	SI																
Cormorants	6585	15.7	5940	23.2	7	0															
Ardeids etc	3353	8.0	1944	7.6	209	0															
Ducks, grebes, pelicans	10998	26.2	7486	29.3	22	0															
Rails, Coot etc	122	0.3	60	0.2	25	0															
Waders	16762	39.9	6367	24.9	21	0															
Gulls and terns	4181	10.0	3796	14.8	0	0															
TOTAL	42001		25593		284	0															
						, , , , , , , , , , , , , , , , , , ,															
Date of count: 20 Dec 2009						1															
n/c = site not counted		High tide m	neasured at '	TBT:																	
# indicates count consists of or includes a count m					nte																
% = count made at evening roost	1																				
8				[1			[
Wetland-dependant species																					
Wettanu-uependant species																				DEED DAV	a. 11
	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF	WEP	NW/	ткс	LC	TSW	MPST	ST	MPNR	Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
Species								(TBT)		LFS							ponds	intertidal areas	Site	AREA	Inlet
Osprey			2	6	2	1	1									0			0	12	1
Black Kite	4	9	3	1	1	2		8			4	9	4	10	4	16	33	7	56	75	
White-bellied Sea Eag																0			0	0	
Eastern Marsh Harrier				1												0			0	1	
Common Buzzard	1	1	1											1		0	2		2	4	
Greater Spotted Eagle	0	0	1	2				1			0	0	0	0	0	0	0	2	2	4	
Imperial Eagle	0	0	1					0			0	0	0	0	1	1	0	0	1	3	
Peregrine Falcon																0			0	0	
Pied Kingfisher	0	1	2	1			3	1	1		0	0	0	0	1	0	0	3	3	8	2
Common Kingfisher	4	0		1			1	3	2		8	0	4	1	4	8	14	1	23	35	2
White-throated Kingfisher	0	1	2	5			2	2	1		2	1	2	0	3	3	6	7	16	23	1
Black-capped Kingfisher	0	0	1	5			2	0			0	0	0	0	0	1	0	7	8	9	
Red-billed Starling	139	250	7	-	1			0	1		71	96	7	8	99	0	182	0	182	677	1
Collared Crow	0	1	2	<u> </u>				0	<u> </u>		0	9	1	0	2	0	102	0	102	15	2
	Ŭ		-	<u> </u>				Ű	<u> </u>		, v	Ĺ	-	ÿ		v		Ŭ	10		
Crested Serpent Eagle	1	1		<u> </u>				<u> </u>	<u> </u>												
Pied Harrier			1	1	1	1		1	1							1			-		

Summary of Waterbird Count, January 2010

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	34	29						51	2		30	0	10	5	15	36	80	0	116	212	4
Great Crested Grebe			40	55	12	68	6			25	2					0		141	141	208	
Black-necked Grebe					2													2	2	2	
Great Cormorant%	156*	280*	77*					232*	38*		22*	45*	3384	335*	143*	5661			5661	9045	270
Dalmatian Pelican																0			0	0	
Grey Heron	169	30	44	7	3	1	68	29	69	4	17	12	18	17	3	270	86	79	435	761	42
Purple Heron									1							0			0	1	
Great Egret	168	34	32	60	1	1	9	21		7	11	2	88	150	38	34	272	71	377	656	92
Intermediate Egret	4	0		10				0			0	0	0	0	0	3	3	10	16	17	
Little Egret	178	8	94	101		1		10	1	73	26	1	180	39	373	112	333	102	547	1197	24
Swinhoe's Egret						-			-	7.0					0.0	0			0	0	
Pacific Reef Egret																0			0	0	
Cattle Egret	6	0						0			0	13	7	0	2	0	20	0	20	28	3
Chinese Pond Heron	21	14	14					28		2	29	2	7	28	41	10	84	0	94	196	2
Striated Heron	0	0	17					0	<u> </u>		0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	0	0	1	1				0			2	0	0	0	0	0	2	0	2	2	+
Yellow Bittern	0	0						0			0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern	0	0						0			0	0	0	0	0	0	0	0	0	0	
Great Bittern		1														0			0	0	+
Black Stork		ł														0			0	0	+
Black-headed Ibis	-						-									0			0	0	
																			-	*	
Eurasian Spoonbill			14					20	17							3	21		3	3	
Black-faced Spoonbill	22		14					20	17							423	31		454	496	+
Common Shelduck				6	_			_				-	-		-	0	_	6	6	6	
Eurasian Wigeon	122	0	898	121	3	305	1	0	102	1000	0	0	0	0	0	264	0	430	694	2816	
Falcated Duck									1							0			0	1	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	137	0	242	32			91	0	20		0	0	0	0	0	3	0	123	126	525	11
Mallard																2			2	2	
Spot-billed Duck																4			4	4	
Chinese Spotbill	3															0			0	3	
Burmese Spotbill																0			0	0	
Northern Pintail	11		40	880	150		200		7							324		1150	1474	1612	
Garganey	1			2					54							3		2	5	60	
Northern Shoveler	4		7657	3913	3											218		3916	4134	11795	
Common Pochard																2			2	2	
Baer's Pochard																0			0	0	
Tufted Duck	56		477		2135			69			1					388		2135	2523	3126	
Greater Scaup					4											0			0	4	
Red-breasted Merganser		1						1								0			0	0	
Duck sp.			2200	1980	800		200	1				l				12		2980	2992	5192	
Slaty-breasted Rail		1						1								0			0	0	
Water Rail		1														0			0	0	+
White-breasted Waterhen	0	0		3		1		0	2	2	1	1	1	1	1	2	3	4	9	15	1
Watercock	· · ·		1			1			-	~	4	1	-	1	1	0	5	т Т	0	0	
Common Moorhen	11	14	15					6	27		4	0	0	2	4	71	9	0	80	154	20
Eurasian Coot	6	14	88					0	21		4	0	0	2	4	5	7	0	5	99	20
	0	I	00					I	I			1				3			5	<u> </u>	1

Greater Painted Snipe	I	1	1	1	1	Í.	I	1	2		I	1			i i	0	1		0	2	1 1
Black-winged Stilt	6		90						2							0			0	96	
Pied Avocet	0		2000	8661												0		8661	8661	10661	
Oriental Pratincole			2000	0001												0		0001	0	0	
Northern Lapwing																0			0	0	
Grey-headed Lapwing																0			0	0	
Pacific Golden Plover																0			0	0	
Grey Plover#				637												0		637	637	637	2
Common Ringed Plover				037												0		057	0	0	2
Little Ringed Plover	35	17	20					4	31	14	18	0	36	9	8	0	50	0	50	192	1
Kentish Plover	55	17	4303	470*				4	51	14	10	0	50	,	0	0	50	0	0	4303	1
Lesser Sand Plover			4303	4/0												0			0	4303	
Greater Sand Plover#				13												0		13	13	13	
Black-tailed Godwit#			800*	15												752		15	752	752	
Bar-tailed Godwit#			800	1												0		1	1	1	
Whimbrel				1												0		1	1	1	
Eurasian Curlew#		-		1075												0		1075	1075	1075	
Far Eastern Curlew#		1		1075	<u> </u>	+		<u> </u>								0		10/5	10/5	10/5	
Spotted Redshank		1		1	<u> </u>	+		<u> </u>								0		1	0	0	
		-	2	100					195							0		100	100	297	
Common Redshank		-	33	945					411							0		945	945	1389	
Marsh Sandpiper									309	1	2					40		945 550		1389	2
Common Greenshank			141	550					309	1	2					40			590		2
Nordmann's Greenshank#				1					-	-						÷		1	1	1	
Green Sandpiper	2	4	4.0					1	5	6	6	1	1	0	3	0	8	0	8	29	1
Wood Sandpiper	19	15	40					5	16		1	1	6	2	6	2	15	0	17	113	
Terek Sandpiper								-	-	-		_	-	_		0			0	0	
Common Sandpiper	12	9	19			1		9	6	4	7	7	3	5	22	1	29	1	31	105	2
Grey-tailed Tattler																0			0	0	<u> </u>
Ruddy Turnstone																0			0	0	<u> </u>
Red-necked Phalarope																0			0	0	<u> </u>
Pintail Snipe																0			0	0	<u> </u>
Swinhoe's Snipe																0			0	0	<u> </u>
Pintail/Swinhoe's Snipe											1			1		0	1		1	2	<u> </u>
Common Snipe		1	13						2					2	1	0	2		2	19	<u> </u>
Long-billed Dowitcher																0			0	0	
Asian Dowitcher																0			0	0	
Red Knot#				8												0		8	8	8	
Great Knot#				22												0		22	22	22	
Sanderling																0			0	0	
Red-necked Stint			100													0			0	100	
Little Stint																0			0	0	
Temminck's Stint	3			ļ	L	<u> </u>	L		18		17				6	0			0	44	
Long-toed Stint			10													0			0	10	
Pectoral Sandpiper																0			0	0	
Sharp-tailed Sandpiper																0			0	0	
Dunlin			2500	2230*												0			0	2500	
Curlew Sandpiper																0			0	0	
Spoon-billed Sandpiper																0			0	0	
Broad-billed Sandpiper																0			0	0	
Ruff																0			0	0	
Small wader spp.																0			0	0	30
Wader sp.																0			0	0	
Black-tailed Gull#				22		T										0		22	22	22	
Common Gull		1		2	1	1		1										2	2	2	1

Heuglin's Gull#	1	l	1	700	1	1	1	1	1	1	1	i i	1	I	1	0	1	700	700	700	1 1
Yellow-legged Gull				8												0		8	8	8	
Slaty-backed Gull#				2												0		2	2	2	
Pallas's Gull				2												0		2	0	0	
Large Gull spp.																0			0	0	
Brown-headed Gull																0			0	0	
Black-headed Gull	0	0	4990					0		2	0	325	0	0	2	0	325	0	325	5319	
Saunders's Gull#	0	0	4990	20				0		2	0	525	0	0	2	0	525	20	20	20	
Whiskered Tern				20												0		20	0	0	
White-winged Tern																0			0	0	
Gull-billed Tern																0			0	0	
Caspian Tern				2												0		2	2	2	
Total	1030	175	26116	19941	3113	378	575	253	1298	1140	175	365	3741	261	525	8645	1353	23923	33921	67731	508
Total	1050	1/5	20110	19941	3113	3/0	5/5	255	1290	1140	1/5	305	3/41	201	525	0045	1555	23923	33921	0//31	308
	Deep Bay Area	%	Ramsar Site	%	SI																
Cormorants	9045	13.4	5661	16.7	270	0															
Ardeids etc	3357	5.0	1948	5.7	163	0															
Ducks, grebes, pelicans	25570	37.8	12221	36.0	15	0															
Rails, Coot etc	268	0.4	94	0.3	22	0															
Waders	23416	34.6	12916	38.1	38	0															
Gulls and terns	6075	9.0	1081	3.2	0	0															
TOTAL	67731		33921		508	0															
Date of count: 24 Jan 2010																					
n/c = site not counted	High tide me	easured at TB	T:																		
# indicates count consists of or includes a count ma	ade up to one week	either side of	the count of	date																	
% = count made at evening roost																					
* indicates counts could be overlapped and exclude	ed in the total numb	ers.																			
Wetland-dependant species																					
	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	ткс	LC	тѕw	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Species			-	6			-													1.5	
Osprey			5	6			-	-			0	0	-			4	10	0	4	15	1
Black Kite	1	1	4		<u> </u>			5		<u> </u>	0	0	3	2	4	5	10	0	15	26	
White-bellied Sea Eag			2	1												1			1	1	
Eastern Marsh Harrier	1		3	1							1			1		4	2		4	8	
Common Buzzard	1	0						0			1	0	0	1	1	8	2	0	10	11	
Greater Spotted Eagle	1	0						0			0	0	0	1	1	3	1	0	4	6	
Imperial Eagle		0			<u> </u>			0		<u> </u>	0	0	0	0	0	5	0	0	5	6	
Peregrine Falcon	1	1	4	1		-		0			1	0	0	1	1	3	-		3	5	
Pied Kingfisher		1	4		<u> </u>	2		0	-	<u> </u>	1	0	0	1		0	2	2	4	11	2
Common Kingfisher		1	1		<u> </u>			2	2	<u> </u>	5	1	2	3	5	3	12	0	15	26	6
White-throated Kingfisher	1	0	3		<u> </u>	1		1	1	<u> </u>	4	1	0	2	1	9	7	1	17	24	3
Black-capped Kingfisher	0	0	2	ł				0			0	0	0	0	0	0	0	0	0	2	1
Red-billed Starling	99	12	74		<u> </u>			0		<u> </u>	5	15	12	200	180	994	223	0	1217	1591	
Collared Crow	1	0	1	1				2	1	1	2	4	0	1	2	24	10	0	34	38	3

Summary of Waterbird Count, February 2010

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	15	20	20					39	3		32	0	16	2	10	51	54	0	105	208	7
Great Crested Grebe	15	20	20 44	7	4	94		39	3	8	32	0	10	Z	10	0	54	105	105	157	/
Great Cormorant	97	103	5627	/	4	94		156	66	0	26	20	3	291	63	4306	384	0	4690	10758	18
Dalmatian Pelican	91	103	3027					150	00		20	20	3	291	05	4300	364	0	4090	0	10
Grey Heron	142	19	70	8		3	63	36	111	3	1	13	6	4	2	337	52	74	463	818	24
Purple Heron	142	19	70	0		3	05	30	111	3	1	15	0	4	2	0	32	/4	403	0	24
Great Egret	26	19	54	24		10		62	18	15	6	5	11	234	41	75	310	34	419	600	132
		-	34			10			16	15		-		234				7	-		152
Intermediate Egret	1 30	0	104	7		31		0 175	4	37	0 45	0	0	182	0 34	1 97	2 402	74	10 573	11 850	22
Little Egret	30	35	104	43		31		1/5	4	3/	45	8	25	182	34	97	402	/4		850	22
Swinhoe's Egret																÷			0	÷	
Pacific Reef Egret	0	0						0			0	14	-	0	0	0	16	â	0	0	4
Cattle Egret	9	0	-					0			0	14	2	0	0	0	16	0	16	25	
Chinese Pond Heron	14	13	7	4			3	10		4	8	6	1	18	16	20	41	7	68	124	──┤
Striated Heron	0	0						0			0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	0	0						0			0	0	0	0	0	13	0	0	13	13	<u> </u>
Yellow Bittern	0	0						0			0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern																0			0	0	
Great Bittern																0			0	0	
Black Stork																0			0	0	
Black-headed Ibis																0			0	0	
Eurasian Spoonbill																2			2	2	
Black-faced Spoonbill	16		32	8	4			18	71		10	2		20	2	166	49	12	227	349	
Common Shelduck				5												0		5	5	5	
Eurasian Wigeon	0	0	282	352	38	13	2	0	11	68	0	0	0	0	0	321	0	405	726	1087	
Falcated Duck							1									0		1	1	1	
Gadwall																4			4	4	
Baikal Teal																0			0	0	
Common Teal	9	0	20	63			10	0	28		0	0	0	0	0	0	0	73	73	130	22
Mallard												, ,	÷	÷	, ,	0			0	0	
Spot-billed Duck																0			0	0	
Chinese Spotbill	2															0			0	2	
Burmese Spotbill	2															0			0	0	
Northern Pintail			20	2274			36		18							154		2310	2464	2502	
Garganey			20	14			4		12							0		18	18	30	
Northern Shoveler			1748	3741	70		1		12							589		3812	4401	6149	<u>+</u>
Common Pochard			1/40	5/41	70		1									0		5612	0	014)	+
Baer's Pochard																0		+	0	0	┼──┤
	1	7	242		2000	050		27								÷		2050	-		──┤
Tufted Duck	1	7	343		3000	850		27								643		3850	4493	4871	──┤
Greater Scaup																1		 	1	1	──┤
Red-breasted Merganser			4010	500												0		500	0	0	+
Duck sp.			4910	500												0		500	500	5410	4]
Slaty-breasted Rail				1												0		1	1	1	+
Water Rail				L												0			0	0	<u> </u>
White-breasted Waterhen	1	5	3	3				4		1	1	1	3	0	0	1	6	3	10	23	
Watercock																0			0	0	
Common Moorhen	7	10	10	1			1	4	19		1	0	0	2	2	19	2	2	23	76	26
Eurasian Coot	7		1			210										5		210	215	223	1
Pheasant-tailed Jacana																0			0	0	
Greater Painted Snipe																0			0	0	

Black-winged Stilt	1	1	53	I	1	1	1	l	22	1	I	1	1	1	1	0			0	75	1 1
Pied Avocet			2002	11878					22							1		11878	11879	13883	├───┤
Oriental Pratincole			2002	110/0					2							0		110/0	0	0	├ ──┤
Northern Lapwing																0			0	0	┝───┤
Grey-headed Lapwing																0			0	0	┣───┤
																0			0	0	┝───┤
Pacific Golden Plover Grey Plover				120												0		120	120	120	┝───┤
				-																	<u> </u>
Common Ringed Plover		2	2	1				2	17	10	10	0	0	6	2	0	17	1	1	1	<u> </u>
Little Ringed Plover	5	2	2	11				3	17	12	12	0	0	5	2	9	17	11	37	80	<u> </u>
Kentish Plover			1495	1026*												0		2	0	1495	└─── ┤
Lesser Sand Plover				2												0		2	2	2	└─── ┤
Greater Sand Plover				700												0		700	0	0	└─── ┤
Black-tailed Godwit				722												0		722	722	722	┝───┤
Bar-tailed Godwit				1												0		1	1	1	┝───┤
Whimbrel										6						0			0	6	<u> </u>
Eurasian Curlew	-			1044						1						0		1044	1044	1045	
Far Eastern Curlew	-															0			0	0	
Spotted Redshank	-			15					169							2		15	17	186	
Common Redshank			95	10					8					1		0	1	10	11	114	
Marsh Sandpiper				1660					50							0		1660	1660	1710	
Common Greenshank			207	281					68	40						550		281	831	1146	1
Nordmann's Greenshank				1												0		1	1	1	
Green Sandpiper	4	8						4	3	2	10	3	3	2	3	0	22	0	22	42	
Wood Sandpiper	0	19	62	1				0	4		6	0	0	12	3	0	17	1	18	107	
Terek Sandpiper																0			0	0	
Common Sandpiper	2	9	6			1		2	3	8	8	3	6	5	9	1	20	1	22	63	
Grey-tailed Tattler																0			0	0	
Ruddy Turnstone																0			0	0	
Red-necked Phalarope																0			0	0	
Pintail Snipe																0			0	0	
Swinhoe's Snipe																0			0	0	
Pintail/Swinhoe's Snipe														1		0	1		1	1	
Common Snipe		4	2						1							0			0	7	
Long-billed Dowitcher				1												0		1	1	1	
Asian Dowitcher																0			0	0	
Red Knot				3												0		3	3	3	
Great Knot				11												0		11	11	11	
Sanderling																0			0	0	
Red-necked Stint			16													0			0	16	
Little Stint																0			0	0	
Temminck's Stint									3							16			16	19	
Long-toed Stint																0			0	0	
Pectoral Sandpiper																0			0	0	
Sharp-tailed Sandpiper	İ	1	1	1			1		1					1		0			0	0	
Dunlin				482												0		482	482	482	
Curlew Sandpiper	1	1	1						1					1		0			0	0	
Spoon-billed Sandpiper	1	1	1	1			1		1					1		0			0	0	
Broad-billed Sandpiper		1							1							0			0	1	
Ruff		1							-							0			0	0	
Small wader spp.	1															0			0	0	
Wader sp.		1		1			<u> </u>									0			0	0	
Black-tailed Gull				5												0		5	5	5	
Heuglin's Gull		1		121												0		121	121	121	
Yellow-legged Gull		1		3			1									0		3	3	3	<u> </u>
i chow-legged Ouli	L	1	1	3	I	I	L	I	L	I	I	I	I	L		U	I	3	3	3	

Slaty-backed Gull	1	I	I	2	1	l	1	1	1	1	I	1	1	1	1	0		2	2	2	1 1
Pallas's Gull				2												0		2	0		
Large Gull spp.																0			0	0	
Brown-headed Gull																0			0	0	
Relict Gull				1												0		1	0	1	
Black-headed Gull	0	0	1593	533		3		5			1	295	214	1	1	1550	515	536	2601	4196	
Saunders's Gull	0	0	1393	74		5		5			1	293	214	1	1	0	515	74	74	74	
Whiskered Tern		1		/4												0		/4	0	1	
White-winged Tern		1														0			0	0	
Gull-billed Tern																0			0	0	
Caspian Tern				2												0		2	2	2	
Total	388	274	18828	24040	3116	1215	121	545	712	205	167	370	290	782	188	8934	1911	28492	39336	60175	253
	300	2/4	10020	24040	5110	1213	121	343	/12	203	107	370	290	/02	100	0734	1911	20472	39330	00175	233
	Deep Bay Area	%	Ramsar Site	%	SI																
Cormorants	10758	17.9	4690	11.9	18	0															
Ardeids etc	2792	4.6	1791	4.6	178	Ő															
Ducks, grebes, pelicans	20557	34.2	12896	32.8	29	0															
Rails, Coot etc	323	0.5	249	0.6	27	0															
Waders	21340	35.5	16902	43.0	1	0															
Gulls and terns	4405	7.3	2808	7.1	0	0															
TOTAL	60175	7.5	39336	/.1	253	0															
TOTAL	00173		37330		233	U															
Date of count: 21 Feb 2010																					
n/c = site not counted			I	High tide	measur	ed at Tl	BT:														
# indicates count consists of or includes a count made up	to one week	either side																			
% = count made at evening roost																					
* indicates counts could be involving same individuals in	n other areas a	and so not	included in	the tota																	
	1																				
Wetland-dependant species																					
								DBF		NW/							Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	(TBT)	WEP	LFS	ткс	LC	TSW	MPST	ST	MPNR	ponds	intertidal areas	Site	AREA	Inlet
Osprey			3	2		1			1							1	-		1	8	
Black Kite	7	1	12	1		1		18	2		5	8	7	3	5	11	41	1	53	80	
White-bellied Sea Eag	/	1	12	1				10	2		3	0	/	3	3	0	41	1	0	0	
Eastern Marsh Harrier																1			1	1	
Common Buzzard								1	1		2		2	1		3	6		9	10	
Greater Spotted Eagle	0	0						0	1		0	0	0	0	0	3	0	0	9	10	
· · · ·	0	0						0			0	0	0	0	-	2	0	0	2	4	
Imperial Eagle	1	0						0			0	0	0	0	1		0	0	_		
Peregrine Falcon	0	0	2					0		<u> </u>	0	0	0	0	1	0	0	0	0	<u>0</u> 5	1
Pied Kingfisher	0	0	2					0	4	<u> </u>		0	0	*	1		0 19	0	-	<u>5</u> 32	3
Common Kingfisher	1	5	2				1		4		14	2	2	2	1	3	- 2	0	22		5
White-throated Kingfisher	0	1	2				1	4			0	0	1	1	0	2	6	1		12	1
Black-capped Kingfisher	0	0	1				1	0			0	0	1	0	0	0	1	1	2	3	2
Red-billed Starling	88	1	1					0	1		6	415	62	131	82	50	564	0	614	835	10
Collared Crow	0	0	I					I	1	<u> </u>	2	2	- 7	0	1	11	5	0	16	26	2

Summary of Waterbird Count, March 2010

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	WEP	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	31	20						21		4	29	0	12	5	4	150	44	0	194	276	8
Great Crested Grebe			60	1	5	2	16									0		24	24	84	
Great Cormorant	88	86	700	10				169		27	39	38	21	142	80	3429	322	10	3761	4829	28
Dalmatian Pelican																0			0	0	
Grey Heron	26	1	8	32	1	4	51	12	3	82	8	11	3	2	0	172	33	88	293	416	6
Purple Heron																2			2	2	
Great Egret	80	55	7	54	14	1	16	24	4	4	6	4	11	10	18	13	45	85	143	321	203
Intermediate Egret	5	0	1	12				2			0	0	0	0	0	9	2	12	23	29	1
Little Egret	84	21	54	78		2	23	62	22	3	66	12	93	12	72	128	195	103	426	732	32
Swinhoe's Egret								-								0			0	0	
Pacific Reef Egret																0			0	0	
Cattle Egret	0	0						0			1	14	0	5	27	0	20	0	20	47	
Chinese Pond Heron	15	9	4	1				1	1		21	1	2	10	22	10	29	1	40	97	
Striated Heron	0	0		-				0			0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	1	0	16					0			1	0	0	0	0	1	1	0	2	19	
Yellow Bittern	0	0	10					0			0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern	0	0						v			v	v	v	0	0	0	0	Ŭ	0	0	
Great Bittern	2															0			0	2	
Black Stork	2															0			0	0	
Black-headed Ibis																0			0	0	
Eurasian Spoonbill	2															5			5	7	
Black-faced Spoonbill	10		14	2	6	2	43	4		42		5	6	3	2	152	18	53	223	291	
Common Shelduck	10		14	2	0	2	43	4		42		5	0	3	2	132	10	33	17	17	
Eurasian Wigeon	95	0	33	323		1	41	0		20	0	0	0	0	0	94	0	365	459	607	
Falcated Duck	95	0	33	323		1	41	0		20	0	0	0	0	0	<u>94</u> 0	0	303	459	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
	0	0	00	120				0		0	0	0	0	0	0	÷	0	120	÷	-	21
Common Teal	9	0	90	129				0		8	0	0	0	0	0	25	0	129	154 0	261	21
Mallard																0			0	0	
Philippine Duck																1			1	1	
Spot-billed Duck																1			1	1	
Chinese Spotbill																0			0	0	
Burmese Spotbill				_												0		_	0	0	
Northern Pintail	3			5												1		5	6	9	
Garganey				162						42						0		162	162	204	
Northern Shoveler			1212	1252		1	28									290		1281	1571	2783	
Common Pochard																2			2	2	
Baer's Pochard																0			0	0	
Tufted Duck	7	12	53				8	6		1						702		8	710	789	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.							90									0		90	90	90	
Slaty-breasted Rail																0			0	0	
Water Rail																0			0	0	
White-breasted Waterhen	0	1	2					3			2	0	0	1	2	5	3	0	8	16	
Watercock																0			0	0	
Common Moorhen	17	8	22	3			1	6		6	18	0	0	1	8	32	22	4	58	122	20
Eurasian Coot	6					13				1						2		13	15	22	
Pheasant-tailed Jacana																0			0	0	

Greater Painted Snipe	1	1	I	1	I	I	I	1		1	I	i	1	I.	1 1	0	1		0	1	1 1
Black-winged Stilt	4		842	9						5						10		9	19	870	
Pied Avocet	4		125	6120						2						0		6120	6120	6247	
Oriental Pratincole	1		123	0120						2						0		0120	0	0247	
Northern Lapwing			2													0			0	0 2	
Grey-headed Lapwing			2													0			0		
Pacific Golden Plover				10.0		-										0		100	0	0	
Grey Plover				482		-										0		482	482	482	
Common Ringed Plover				-		-										0			0	0	
Little Ringed Plover	21	0	92					46		6	17	2	4	0	12	0	65	0	65	200	ł
Kentish Plover			1200	-												0			0	1200	
Lesser Sand Plover																0			0	0	
Greater Sand Plover																0			0	0	
Black-tailed Godwit			938	543												0		543	543	1481	
Bar-tailed Godwit				1												0		1	1	1	
Whimbrel				1												0		1	1	1	
Eurasian Curlew				512												0		512	512	512	
Far Eastern Curlew				1												0		1	1	1	
Spotted Redshank				51						34						24		51	75	109	
Common Redshank			980	4						6				1		25	1	4	30	1016	
Marsh Sandpiper			800	1170						75						140		1170	1310	2185	
Common Greenshank			250	320						1245						161		320	481	1976	
Nordmann's Greenshank				1												0		1	1	1	
Green Sandpiper	2	4						2		1	5	2	3	0	2	0	11	0	11	21	
Wood Sandpiper	1	12	222					0		12	4	0	0	3	2	2	6	0	8	258	
Terek Sandpiper																0			0	0	
Common Sandpiper	10	6	12			1	1	8		2	14	8	8	5	8	5	39	2	46	88	1
Grey-tailed Tattler																0			0	0	
Ruddy Turnstone																0			0	0	
Red-necked Phalarope																0			0	0	
Pintail Snipe																0			0	0	
Swinhoe's Snipe																0			0	0	
Pintail/Swinhoe's Snipe																0			0	0	
Common Snipe	6		5							1					1	0			0	13	
Long-billed Dowitcher	Ű		1							1						0			0	2	
Asian Dowitcher																0			0	0	
Red Knot				6												0		6	6	6	
Great Knot				33												0		33	33	33	
Sanderling				55												0			0	0	łł
Red-necked Stint			150													0		-	0	150	
Little Stint		1	150	1	<u> </u>	<u> </u>							1			0			0	0	
Temminck's Stint	1	1	5	1		-		12		3				1		0	12		12	20	
Long-toed Stint		1	5	<u> </u>				12		5			<u> </u>	<u> </u>		0	12		0	0	
Pectoral Sandpiper		1	-													0			0	0	├
Sharp-tailed Sandpiper		1	1	1									1		\vdash	0			0	0	<u> </u>
Dunlin	+	+	10	ł									1	ł	$\left \right $	0			0	10	┣───┤
			10	37						23						0		37	37	-	łł
Curlew Sandpiper Spoon-billed Sandpiper	+	+	1	57						23			1	ł	$\left \right $	0		5/	0	<u>61</u> 0	┣───┤
	+			<u> </u>									<u> </u>	<u> </u>	$\left \right $	0			0	0	├ ──┤
Broad-billed Sandpiper															$\left \right $				-		
Ruff	+			ł										<u> </u>		0			0	0	├ ──┤
Small wader spp.				 	<u> </u>	<u> </u>								<u> </u>	\vdash	0			0	0	\vdash
Wader sp.				-	L	L										0			0	0	
Black-tailed Gull				8												0		8	8	8	
Common Gull				1	L	L						ļ				0		1	1	1	
Heuglin's Gull				173												0		173	173	173	

Yellow-legged Gull	I	I	1	1	I	I	1	1		I	1	I	1		1	1	1	1 1	2	2	1 1
Slaty-backed Gull				1												0		1	1	1	
Pallas's Gull				1												0		1	0	0	├ ───┤
Large Gull spp.				2												0		2	2	2	├ ───┤
				2		-					-							2			┝───┤
Brown-headed Gull				1												0		1	0	0	
Relict Gull	0	0	1000	1		20	40	0			0	227	2	0	0	0	220	170(1045	-	
Black-headed Gull	0	0	1800	1636		30	40	0			0	237	2	0	0	0	239	1706 17	1945	3745 17	
Saunders's Gull Whiskered Tern				17												0		1/	17	1/	
				1												<u>,</u>		1	1	1	
White-winged Tern																0			0	0	
Gull-billed Tern				2												0		2	2	2	
Caspian Tern	525	225	0711		26		250	270	20	1655	001	224	1.05	200	2(0	<u>,</u>	1107				220
Total	525	235	9711	13198	26	57	358	378	30	1657	231	334	165	200	260	5611	1107	13639	20357	32976	320
																					
																					
	Deep Bay	%	Ramsar	%	CI.																
	Area	%	Site	%0	SI																
Cormorants	4829	14.6	3761	18.5	28	0															
Ardeids etc	1963	6.0	1177	5.8	242	0															
Ducks, grebes, pelicans	5124	15.5	3391	16.7	29	0															
Rails, Coot etc	160	0.5	81	0.4	20	0															
Waders	16947	51.4	9794	48.1	1	0															
Gulls and terns	3953	12.0	2153	10.6	0	0															
TOTAL	3955	12.0	20357	10.0	320	0															
IUIAL	32970		20357		320	U															
Date of count: 7 March 2010	1		I																		
n/c = site not counted		High tide	measured a	at TBT.																	
# indicates count consists of or includes a count mad	e up to one we				e																
% = count made at evening roost	e up to one we	Jok ertifier t		ount dut	0																
76 Count made at evening roost				1	1	1															
Wetland-dependant species					-								-								
wenand-dependant species																					
	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF	NW/	WEP	ткс	LC	TSW	MPST	ST	MPNR	Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
Species	SILL	SILD	DDA	000	DDC	000	DDL	(TBT)	LFS		me	10	15.0		51		ponds	intertidal areas	Site	AREA	Inlet
Osprey			2	5			1						1			1	1		2	10	1
Black Kite	0	0	_	1			1	2		1	1	0	1	1	0	3	4	2	9	11	1
White-bellied Sea Eag	-			-			-	_		-	-		-			0		_	0	0	
Eastern Marsh Harrier				1												0			0	1	
Common Buzzard	1		1					1					1			3	2		5	7	
Greater Spotted Eagle	0	0	1	<u> </u>				0			0	0	0	0	0	1	0	0	1	1	
Imperial Eagle	0	0	1	2				0			0	1	0	0	0	3	1	2	6	6	├ ───┤
Peregrine Falcon	- ·	0		1							0	1			0	0	1	2	0	1	├── ┤
Pied Kingfisher	1	0	2	1			1	3			1	0	1	0	1	0	4	0	4	9	
Common Kingfisher	1	1	4	<u> </u>	<u> </u>			3		1	9	0	0	1	4	4	4	0	14	24	1
White-throated Kingfisher	1	1	4				1	1	-	1	7	0	1	0	-+	6	3	1	14	18	1
Black-capped Kingfisher	0	0	4				1	0		1	0	0	0	0	0	1	0	0	10	10	
	35	15	20	<u> </u>				0		3	40	0	0	1	1	125	41	0	166	240	
Red-billed Starling	35	15	20	1				3		3	40	8	0	•	0	125	41	1	23	240	1
Collared Crow	1	1	2	1				3			0	8	0	0	0	11	11	1	23	27	1

Winter 2009-10 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

Appendix 2



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

Peak counts of each waterbird species, mid-winter period (December to February) 2009-10.

Cormorants

Great Cormorants	10,758

Ardeids and Ciconiiformes

Grey Heron	818
Purple Heron	1
Great Egret	882
Intermediate Egret	23
Little Egret	1,197
Swinhoe's Egret	0
Pacific Reef Egret	0
Cattle Egret	31
Chinese Pond Heron	196
Striated Heron	0
Black-crowned Night Heron	13
Yellow Bittern	0
Cinnamon Bittern	0
Great Bittern	0
Black Stork	0
Black-headed Ibis	0
Eurasian Spoonbill	4
Black-faced Spoonbill	496
Sub-total:	3,661

Ducks, Grebes and Pelicans

,		
Little Grebe		212
Great Crested Grebe		215
Black-necked Grebe		2
Dalmatian Pelican		1
Common Shelduck		6
Eurasian Wigeon		3,780
Falcated Duck		1
Gadwall		4
Baikal Teal		0
Common Teal		627
Mallard		2
'Unassigned' Spotbill		4
Chinese Spotbill		3
Burmese Spotbill		0
Northern Pintail		2,502
Gargeney		60
Northern Shoveler		20,008
Common Pochard		2
Baer's Pochard		0
Tufted Duck		4,871
Greater Scaup		40
Red-breasted Merganser		0
	Sub-total:	32,340

Rails and Coots

Slaty-breasted Rail		1
Water Rail		0
White-breasted Waterhen		23
Watercock		0
Common Moorhen		154
Eurasian Coot		354
	Sub-total:	532

Shorebirds

Shorebirds	
Pheasant-tailed Jacana	0
Greater Painted Snipe	2
Black-winged Stilt	375
Pied Avocet	13,883
Oriental Pratincole	0
Northern Lapwing	0
Grey-headed Lapwing	0
Pacific Golden Plover	0
Grey Plover	637
Common Ringed Plover	1
Little Ringed Plover	192
Kentish Plover	
Lesser Can d Plasser	4,303 2
Lesser Sand Plover	
Greater Sand Plover	13
Black-tailed Godwit	752
Bar-tailed Godwit	1
Whimbrel	34
Eurasian Curlew	1,075
Far Eastern Curlew	1
Spotted Redshank	186
Common Redshank	297
Marsh Sandpiper	1,710
Common Greenshank	1,146
Nordmann's Greenshank	1
Green Sandpiper	42
Wood Sandpiper	113
Terek Sandpiper	0
Common Sandpiper	105
Grey-tailed Tattler	0
Ruddy Turnstone	0
Red-necked Phalarope	0
Pintail Snipe	0
Swinhoe's Snipe	0
Pintail/Swinhoe's Snipe	2
	19
Common Snipe	19
Long-billed Dowitcher	0
Asian Dowitcher	
Red Knot	8
Great Knot	22
Sanderling	0
Red-necked Stint	100
Little Stint	0
Temminck's Stint	44
Long-toed Stint	10
Pectoral Sandpiper	0
Sharp-tailed Sandpiper	0
Dunlin	2,500
Curlew Sandpiper	0
Spoon-billed Sandpiper	0
Broad-billed Sandpiper	1
Ruff	0
Unidentied small-sized Shorebird	0
Unidentified Tringa	1,122
Sub-total:	28,700
	20,700

Gulls and Terns

Black-tailed Gull	22
Common Gull	2
Heuglin's Gull	700
Yellow-legged Gull	8
Slaty-backed Gull	2
Pallas's Gull	0
Unidentified large Gull	0
Relict Gull	1

Brown-headed Gull		1
Black-headed Gull		10,575
Saunders's Gull		74
Whiskered Tern		1
White-winged Tern		0
Gull-billed Tern		0
Caspian Tern		2
	Sub-total:	11,388

Summary of sub-totals of different waterbird groups, December 2009 to February 2010.

Group	Sub-total
Cormroants	10,758
Ardeids	3,661
Ducks, Grebes and Pelicans	32,340
Rails and Coots	532
Shorebirds	28,700
Gulls and Terns	11,388
Total	87,379

Winter 2009-10 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

Appendix 3



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	0	0	14					0		0	0	0	0	0	0	0	0	0	14	
Great Crested Grebe															0			0	0	
Great Cormorant	0	0	36					0		0	0	0	0	0	0	0	0	0	36	
Dalmatian Pelican															0			0	0	
Grey Heron	0	0	74					0		0	0	0	0	0	0	0	0	0	74	
Purple Heron															0			0	0	
Great Egret	0	0	35					0		0	0	0	0	0	0	0	0	0	35	
Intermediate Egret	0	0	1					0		0	0	0	0	0	0	0	0	0	1	
Little Egret	0	0	88					0		0	0	0	0	0	0	0	0	0	88	
Swinhoe's Egret															0			0	0	
Pacific Reef Egret															0			0	0	
Cattle Egret	0	0						0		0	0	0	0	0	0	0	0	0	0	
Chinese Pond Heron	0	0	23					0		0	0	0	0	0	0	0	0	0	23	
Striated Heron	0	0						0		0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	0	0	13					0		0	0	0	0	0	0	0	0	0	13	
Yellow Bittern	0	0						0		0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern															0			0	0	
Great Bittern															0			0	0	
Black Stork															0			0	0	
Black-headed Ibis															0			0	0	
Eurasian Spoonbill															0			0	0	
Black-faced Spoonbill			31												0			0	31	
Common Shelduck				6											0			0	6	
Eurasian Wigeon	0	0	187	750				0		0	0	0	0	0	0	0	750	750	937	
Falcated Duck															0			0	0	
Gadwall															0			0	0	
Baikal Teal															0			0	0	
Common Teal	0	0	27					0		0	0	0	0	0	0	0	0	0	27	
Mallard			1												0			0	1	
Spot-billed Duck															0			0	0	
Chinese Spotbill															0			0	0	
Burmese Spotbill															0			0	0	
Northern Pintail			1												0			0	1	
Garganey															0			0	0	
Northern Shoveler															0			0	0	
Common Pochard															0			0	0	
Baer's Pochard															0			0	0	
Tufted Duck			1443												0			0	1443	
Greater Scaup															0			0	0	
Red-breasted Merganser															0			0	0	
Duck sp.			10171	320											0			0	10491	
Slaty-breasted Rail															0			0	0	
Water Rail															0			0	0	
White-breasted Waterhen	0	0	2					0		0	0	0	0	0	0	0	0	0	2	
Watercock															0			0	0	
Common Moorhen	0	0	26					0		0	0	0	0	0	0	0	0	0	26	

Eurasian Coot	l	l	40	i	i	1	1 1		ĺ		1 1	1	1	1 1	0		I	0	40	1 1
Pheasant-tailed Jacana			40												0			0	<u> </u>	
Greater Painted Snipe															-			-	-	
			0												0			0	0	
Black-winged Stilt			8												0			0	8	
Pied Avocet			8260												0			-	8260	
Oriental Pratincole															0			0	0	
Northern Lapwing															0			0	0	<u> </u>
Grey-headed Lapwing															0			0	0	
Pacific Golden Plover															0			0	0	
Grey Plover															0			0	0	
Common Ringed Plover	0	0	22					0		0	0	0	0	0	0		0	0	0	
Little Ringed Plover	0	0	33					0		0	0	0	0	0	0	0	0	0	33	
Kentish Plover			4												0			0	4	
Lesser Sand Plover															0			0	0	
Greater Sand Plover															0			0	0	
Black-tailed Godwit															0			0	0	
Bar-tailed Godwit															0			0	0	
Whimbrel															0			0	0	
Eurasian Curlew			73												0			0	73	
Far Eastern Curlew															0			0	0	
Spotted Redshank															0			0	0	
Common Redshank															0			0	0	
Marsh Sandpiper															0			0	0	
Common Greenshank															0			0	0	
Nordmann's Greenshank															0			0	0	
Green Sandpiper	0	0						0		0	0	0	0	0	0	0	0	0	0	
Wood Sandpiper	0	0	49					0		0	0	0	0	0	0	0	0	0	49	
Terek Sandpiper															0			0	0	
Common Sandpiper	0	0	5					0		0	0	0	0	0	0	0	0	0	5	
Grey-tailed Tattler															0			0	0	
Ruddy Turnstone															0			0	0	
Red-necked Phalarope															0			0	0	
Pintail Snipe															0			0	0	
Swinhoe's Snipe															0			0	0	
Pintail/Swinhoe's Snipe															0			0	0	
Common Snipe			1												0			0	1	
Long-billed Dowitcher															0			0	0	
Asian Dowitcher															0			0	0	
Red Knot															0			0	0	
Great Knot															0			0	0	
Sanderling															0			0	0	
Red-necked Stint															0			0	0	
Little Stint															0			0	0	
Temminck's Stint			5												0			0	5	
Long-toed Stint															0			0	0	
Pectoral Sandpiper														Ī	0			0	0	
Sharp-tailed Sandpiper															0			0	0	
Dunlin															0			0	0	
Curlew Sandpiper															0			0	0	
Spoon-billed Sandpiper															0			0	0	
Broad-billed Sandpiper	1														0		1	0	0	+
Ruff	1			<u> </u>	<u> </u>										0		1	0	0	+
Small wader spp.				1											0			0	0	
oman water spp.	1	I	I									l	1	1	U	1			U	

W7 1	1	I	270	I	I I	I	I	i -	i i	i i	ı	I	l		0	1	1		250	i i
Wader sp. Black-tailed Gull			370												0			0	370 0	<u> </u>
Heuglin's Gull				75											0			0	75	
Yellow-legged Gull			-	3											0		-	0	3	
Slaty-backed Gull				3											0			0	0	<u>├</u>
Pallas's Gull															0			0	0	
Large Gull spp.															0			0	0	<u> </u>
Brown-headed Gull															0			0	0	<u> </u>
Black-headed Gull	0	0	237	3250				0		0	0	0	0	0	0	0	3250	3250	3487	
Saunders's Gull	0	0	231	5250				0		0	0	0	0	0	0	0	5250	0	0	
Whiskered Tern				-											0			0	0	
White-winged Tern															0			0	0	
Gull-billed Tern															0			0	0	
Caspian Tern				2											0			0	2	
Total	0	0	21258	4406	0	0	0	0	0	0	0	0	0	0	0	0	4000	4000	25664	0
Total	v	0	21250	1100	U	U	0	0	•	U	v	U	0	U	0	0	4000	4000	23004	0
	Deep Bay	<i></i>	Ramsar																	
	Area	%	Site	%	SI															
Cormorants	36	0.1	0	0.0	0	0														
Ardeids etc	265	1.0	0	0.0	0	0														
Ducks, grebes, pelicans	12920	50.3	750	18.8	0	0														
Rails, Coot etc	68	0.3	0	0.0	0	0														
Waders	8808	34.3	0	0.0	0	0														
Gulls and terns	3567	13.9	3250	81.3	0	0														
TOTAL	25664		4000		0	0														
Date of count: 20 Dec 2009 (low tide)																				
n/c = site not counted		High tide me	easured at T	BT:																
# indicates count consists of or includes a count made up	to one week eith	ner side of the	e count date																	
% = count made at evening roost																				
Wetland-dependant species																				
								DBF	NW/							Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
	SRA	SRB	DBA	DBB	DBC	DBD	DBE	(TBT)	LFS	ткс	LC	TSW	MPST	ST	MPNR		intertidal areas	Site	AREA	Inlet
Species								()							_	Ponno				
Osprey			2								_				0			0	2	
Black Kite	0	0	1	-				0		0	0	0	0	0	0	0	0	0	1	
White-bellied Sea Eag															0		-	0	0	
Eastern Marsh Harrier															0		-	0	0	↓
Common Buzzard															0			0	0	↓
Greater Spotted Eagle	0	0	-					0		0	0	0	0	0	0	0	0	0	0	↓
Imperial Eagle	0	0	1					0		0	0	0	0	0	0	0	0	0	1	├
Peregrine Falcon	<u> </u>	<u>^</u>	-								6	6		6	0	<i>c</i>	<u>^</u>	0	0	├
Pied Kingfisher	0	0	3					0		0	0	0	0	0	0	0	0	0	3	├
Common Kingfisher	0	0	3					0		0	0	0	0	0	0	0	0	0	3	
White-throated Kingfisher	0	0	<u> </u>					0		0	0	0	0	0	0	0	0	0	0	
Black-capped Kingfisher	0	0	1	L	<u> </u>		L	0		0	0	0	0	0	0	0	0	0	1	
Red-billed Starling	0	0	65					0		0	0	0	0	0	0	0	0	0	65	├
Collared Crow	0	0	3					0	1	0	0	0	0	0	0	0	0	0	3	

Summary of Waterbird Count during Low Tide, January 2010

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	0	0	9					0		0	0	0	0	0	0	0	0	0	9	
Great Crested Grebe			61		154										0		154	154	215	
Black-necked Grebe			2																2	
Great Cormorant	0	0	3089					0		0	0	0	0	0	0	0	0	0	3089	
Dalmatian Pelican															0			0	0	
Grey Heron	0	0	95					0		0	0	0	0	0	0	0	0	0	95	
Purple Heron															0			0	0	
Great Egret	0	0	39					0		0	0	0	0	0	0	0	0	0	39	
Intermediate Egret	0	0						0		0	0	0	0	0	0	0	0	0	0	
Little Egret	0	0	122					0		0	0	0	0	0	0	0	0	0	122	
Swinhoe's Egret															0			0	0	
Pacific Reef Egret															0			0	0	
Cattle Egret	0	0						0		0	0	0	0	0	0	0	0	0	0	
Chinese Pond Heron	0	0	20					0	Γ	0	0	0	0	0	0	0	0	0	20	
Striated Heron	0	0						0		0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	0	0						0	Γ	0	0	0	0	0	0	0	0	0	0	
Yellow Bittern	0	0						0		0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern															0			0	0	
Great Bittern															0			0	0	
Black Stork															0			0	0	
Black-headed Ibis															0			0	0	
Eurasian Spoonbill															0			0	0	
Black-faced Spoonbill			24												0			0	24	
Common Shelduck					4										0		4	4	4	
Eurasian Wigeon	0	0	1128		1670			0		0	0	0	0	0	0	0	1670	1670	2798	
Falcated Duck															0			0	0	
Gadwall															0			0	0	
Baikal Teal															0			0	0	
Common Teal	0	0	307		320			0		0	0	0	0	0	0	0	320	320	627	
Mallard															0			0	0	
Spot-billed Duck															0			0	0	
Chinese Spotbill															0			0	0	
Burmese Spotbill															0			0	0	
Northern Pintail			21		170										0		170	170	191	
Garganey															0			0	0	
Northern Shoveler			18943		1065										0		1065	1065	20008	
Common Pochard									Γ						0			0	0	
Baer's Pochard															0			0	0	
Tufted Duck			750						Γ						0			0	750	
Greater Scaup															0			0	0	
Red-breasted Merganser									Γ						0			0	0	
Duck sp.			2070												0			0	2070	
Slaty-breasted Rail															0			0	0	
Water Rail			1												0			0	0	
White-breasted Waterhen	0	0	4					0		0	0	0	0	0	0	0	0	0	4	
Watercock															0			0	0	

FundancionImage: boldImage: bol	Common Moorhen	0	0	16	1	0	1	0	0	0	0	0	0	0	0	0	16	1 1
Phonote onder plane signalPhonote onder Plane signal <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td>0</td><td>354</td><td></td></th<>													0			0	354	
Gener Pointered SeriesSer													0			0		
black org blac corg bl																-		
Pad AsociPad ></td> <td></td> <td></td> <td>271</td> <td></td> <td>-</td> <td>-</td> <td></td>				271												-	-	
One and particular between particu																-		
Norhend ConversionImage				10000												-		
Geree Matched Larwing Sine																-	-	
Pacific dolorPacific																1		
Grey hororJoror <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td>													-				-	
Common Rungel ProverImage </td <td></td> <td></td> <td></td> <td>40</td> <td></td> <td>1</td> <td></td> <td></td>				40												1		
InteInte000 </td <td></td> <td></td> <td></td> <td>40</td> <td></td> <td>-</td> <td>-</td> <td></td>				40												-	-	
Kentish ProvenceImage: Set of the set of		0	0	6		0		0	0	0	0	0		0	0	1		<u> </u>
Laser SamPleerImage: SamPlee		0	0			0		0	0	0	0	0	-	0	0	-		<u> </u>
GrantsmidPloymeImage: Simple standsmidImage: Simple standsm				33			-									-		<u> </u>
Biak-biad GolvinImach of the state of the st							-									-		<u> </u>
Bar-bill Bar-bill binderImageI				250												-	-	<u> </u>
WaindedWaindedWain <td></td> <td></td> <td></td> <td>250</td> <td></td> <td><u> </u></td>				250														<u> </u>
Intensional caleIntensional caleInte														-		-		<u> </u>
Far Basen CurlewIntoInt				2(2										-			-	<u> </u>
Sported exclamaleImage: sport of a state				263									-			-		├ ───┤
Common RedshankImage: Single Pinet				10.0												-	-	├── ┤
Marsh SandpiperInterZ4						 										-		<u> </u>
Common GreenshankImage: bit image: bit im						 												L
Nordmant's GreenshankIndicatorIn	· · ·																	
Green Sandpiper000				332												-		
Wood Sandpiper0005000<																		
Teck SandpiperImage:										-				-		-		
Common Sandpiper0014100000000000000001414Grey-tailed Tattler11111111111111000 <td></td> <td>0</td> <td>0</td> <td>5</td> <td></td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td></td> <td></td> <td></td>		0	0	5		0		0	0	0	0	0		0	0			
Grey-tailed TailerImage: ShipeImage: S																-	-	
Raddy TurnstoneImage: ShipeImage: Ship	* *	0	0	14		0		0	0	0	0	0		0	0	-		
Red-necked PhalaropeImage: Single interpretation of the synthmetry into the synth	Grey-tailed Tattler												0			0	0	
Pintail Snipe<	Ruddy Turnstone												0			0	0	
Swinke's SnipeImage: Snipe	Red-necked Phalarope												0			0	0	
Pintail/Swindoe's SnipeImage: SnipeIma	Pintail Snipe												0			0	0	
Common SnipeImage: Snipe </td <td>Swinhoe's Snipe</td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td>0</td> <td></td>	Swinhoe's Snipe												0			0	0	
Long-billed DowitcherImage: Description of the state of th	Pintail/Swinhoe's Snipe												0			0	0	
Asian DowitcherImage: state of the state of t	Common Snipe			3									0			0	3	
Asian DowitcherImage: state of the state of t	Long-billed Dowitcher												0			0	0	
Great KnotImage: Single Si													0			0	0	
Great KnotImage: Single Si	Red Knot												0			0	0	
Red-necked StintImage: Stint StintImage: Stint StintImage: Stint Stint StintImage: Stint Sti	Great Knot												0			0	0	
Little StintImage: Stint standImage: Stin	Sanderling												0			0	0	
Temminck's StintImage: Stint stin stin	Red-necked Stint												0			0	0	
Temminck's StintImage: Stint stimt startImage: Stint startI													0	1		0	0	
Long-toed StintImage: Stint of the standardImage: Stint of the standard <thimage: st<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td>0</td><td>0</td><td></td></thimage:>													0			0	0	
Pectoral SandpiperImage: SandpiperIma	Long-toed Stint												0			0	0	
Sharp-tailed Sandpiper Image: Sharp-tailed Sandpiper <	V						1	1								1		
Dunlin 10 10 I<							1	1	1					İ		-	-	
Curlew Sandpiper O				10			1	1	1					l l		-		
														1				
	Spoon-billed Sandpiper												0	1		0	0	

Durand hills d Canada in an	1		i.	i	i -	1	I	1	i -	1	1	1	i i	Í.	0	I	i -	0	0	i i
Broad-billed Sandpiper Ruff															0			0	0	
																			-	
Small wader spp.			520												0			0	0	
Wader sp.	-		530		10										0		10	-	530	
Black-tailed Gull					12										0		12	12	12	
Common Gull					1										0		1	145	1	
Heuglin's Gull					145										0		145	145	145	
Yellow-legged Gull					5										0		5	5	5	
Slaty-backed Gull															0			0	0	
Pallas's Gull					-										0			0	0	
Large Gull spp.	-														0			0	0	
Brown-headed Gull	-														0			0	0	
Black-headed Gull	0	0	4575		6000			0		0	0	0	0	0	0	0	6000	6000	10575	
Saunders's Gull															0			0	0	
Whiskered Tern															0			0	0	
White-winged Tern															0			0	0	
Gull-billed Tern															0			0	0	
Caspian Tern															0			0	0	
Total	0	0	44658	0	9546	0	0	0	0	0	0	0	0	0	0	0	9546	9545	54204	0
			D																	
	Deep Bay	%	Ramsar	%	SI															
Commente	Area 3089	5.7	Site	0.0	•	0														
Cormorants Ardeids etc	3089	0.6	0		0	0														
			-	0.0	0	-														
Ducks, grebes, pelicans	26674	49.2	3383	35.4	~	0														
Rails, Coot etc	374	0.7	0	0.0	0	0														
Waders	13029	24.0	0	0.0 64.6	0	0														
Gulls and terns	10738	19.8	6162	04.0																
TOTAL	54204		9545		0	0														
Date of count: 24 Jan 2010	TT: 1 .: 1	1																		
n/c = site not counted	High tide meas																			
# indicates count consists of or includes a count made up	to one week eith	her side of th	e count dat	e																
% = count made at evening roost	-																			
Wetland-dependant species																_		_		
Emonion	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ТКС	LC	TSW	MPST	ST	MPNR	Ramsar ponds		Ramsar Site	DEEP BAY	Starling Inlet
Species Osprey			3					(161)	LFS						0	ponus	areas	0	AREA	Infet
Black Kite	0	0	4					0		0	0	0	0	0	0	0	0	0	3	
	0	0	4		-			0		0	0	0	0	0	0	0	0	0	4 0	
White-bellied Sea Eag																		0	-	
Eastern Marsh Harrier															0				0	
Common Buzzard	0	0	1					0		0	0	0	0	0	0	0	0	0		
Greater Spotted Eagle	0	0						0		0	0	0	0	0	0	0	0	0	0	
Imperial Eagle	0	0	1					0		0	0	0	0	0	0	0	0	0	1	
Peregrine Falcon	-														0			0	0	
Pied Kingfisher	0	0	3					0		0	0	0	0	0	0	0	0	0	3	
Common Kingfisher	0	0	5	L	L			0		0	0	0	0	0	0	0	0	0	5	
White-throated Kingfisher	0	0	7	L	L			0	ļ	0	0	0	0	0	0	0	0	0	7	
Black-capped Kingfisher	0	0	3					0		0	0	0	0	0	0	0	0	0	3	
Red-billed Starling	0	0	64				1	0	1	0	0	0	0	0	0	0	0	0	64	
Collared Crow	0	0						0		0	0	0	0	0	0	0	0	0		

Summary of Waterbird Count during Low Tide, February 2010

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	0	0	7					0		0	0	0	0	0	0	0	0	0	7	
Great Crested Grebe			63		141										0		141	141	204	
Great Cormorant	0	0	383					0		0	0	0	0	0	0	0	0	0	383	
Dalmatian Pelican															0			0	0	
Grey Heron	0	0	118	42				0		0	0	0	0	0	0	0	42	42	160	
Purple Heron															0			0	0	
Great Egret	0	0	50	52				0		0	0	0	0	0	0	0	52	52	102	
Intermediate Egret	0	0		3				0		0	0	0	0	0	0	0	3	3	3	
Little Egret	0	0	140	64				0		0	0	0	0	0	0	0	64	64	204	
Swinhoe's Egret															0			0	0	
Pacific Reef Egret															0			0	0	
Cattle Egret	0	0						0		0	0	0	0	0	0	0	0	0	0	
Chinese Pond Heron	0	0	12	2				0		0	0	0	0	0	0	0	2	2	14	
Striated Heron	0	0						0		0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	0	0	1	1				0		0	0	0	0	0	0	0	0	0	1	
Yellow Bittern	0	0						0		0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern															0			0	0	
Great Bittern															0			0	0	
Black Stork															0			0	0	
Black-headed Ibis															0			0	0	
Eurasian Spoonbill															0			0	0	
Black-faced Spoonbill			43												0			0	43	
Common Shelduck					6										0		6	6	6	
Eurasian Wigeon	0	0	408	650	440			0		0	0	0	0	0	0	0	1090	1090	1498	
Falcated Duck															0			0	0	
Gadwall															0			0	0	
Baikal Teal															0			0	0	
Common Teal	0	0	181	56	270			0		0	0	0	0	0	0	0	326	326	507	
Mallard															0			0	0	
Spot-billed Duck															0			0	0	
Chinese Spotbill															0			0	0	
Burmese Spotbill															0			0	0	
Northern Pintail			80	5	1440										0		1445	1445	1525	
Garganey					20										0		2	2	20	
Northern Shoveler			4684	155	1850										0		2005	2005	6689	
Common Pochard					2										0		2	2	2	
Baer's Pochard															0			0	0	
Tufted Duck			319	10	2670										0		2680	2680	2999	
Greater Scaup				-											0			0	0	
Red-breasted Merganser				1											0			0	0	
Duck sp.			4110	1034				1				1			0		1034	1034	5144	
Slaty-breasted Rail															0			0	0	
Water Rail			1	1				1	l		l			l	0			0	0	
White-breasted Waterhen	0	0	4	1				0	l	0	0	0	0	0	0	0	0	0	4	
Watercock	Ŭ	, , , , , , , , , , , , , , , , , , ,	· ·					Ŭ		Ť	Ť	Ŭ	ÿ	Ŭ	0	ÿ	ÿ	0	0	
Common Moorhen	0	0	4					0		0	0	0	0	0	0	0	0	0	4	
Eurasian Coot	Ť	, v	2					Ť		Ŭ	Ť	Ŭ	ÿ	Ť	0	ÿ	Ű	0	2	

Conder JunciesConder		1	l	1	1		ı ı	i 1	. I	1					1 1	0		1		0	і I
linkorglinkorglink <thl< td=""><td>Pheasant-tailed Jacana</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>÷</td><td></td><td></td><td>0</td><td>0</td><td></td></thl<>	Pheasant-tailed Jacana															÷			0	0	
Ind A work																-			-	-	
Dramale mondeImage																					
Nather matrix scalesNather matrix <br< td=""><td></td><td></td><td></td><td>9627</td><td>1875</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1875</td><td></td><td></td><td></td></br<>				9627	1875													1875			
Gray-Jack LapsingJot <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td>*</td><td></td></th<>																-			-	*	
Pache ControlPache																			-	-	
Grog NoverCoreDes </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>																			-		
Common Regnet ProgramCom <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td>																-			-	-	
Link Bayer000				20												-			-		
Kathle PloverKathle																-			-	-	
Less and PloorIsone and Ploo		0	0		8				0		0	0	0	0	0		0	8			
Grader Sand PloorImageIm				45															0		
Biade-and GodivithImage-and GodivityImage-and	Lesser Sand Plover															0			0	0	
Bartulad GolvinImageImag	Greater Sand Plover															0			0		
WhinderdImage	Black-tailed Godwit			396												0			0	396	
iurusIurus	Bar-tailed Godwit															0			0	0	
Jar Lasanc Curlow Image	Whimbrel															0			0	0	
Spotted ReshankImage: Spotted Reshan	Eurasian Curlew			316	235											0		235	235	551	
Common ReishankCommon ReishankCommon ReishankCommon GreenshankCommon	Far Eastern Curlew															0			0	0	
Markb SampigerImage: Sampiger SampigerImage: Sampiger Sampiger SampigerImage: Sampiger	Spotted Redshank															0			0	0	
Markh SandpigerImage: SandpigerImage	Common Redshank			225												0			0	225	
Common GreenshankCom <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td>0</td><td>0</td><td></td></th<>																0			0	0	
Nordmany: Greenshank Green Sandpiper000				269												0			0	269	
Green Subplicy000<																0			0		
Wood Sandpiver000<		0	0						0		0	0	0	0	0	-	0	0	-		
Terek SandpiperImage:			-	30					Õ							-	-		-	-	
Common Sandpiper0010000000000001Grey-tailed Tattler000<		0	•	50					0		0	Ŭ	0	0	Ŭ			0	÷		
Grey-tailed TattlerImage: Sector of the sector		0	0	1					0		0	0	0	0	0		0	0			
Ruddy TurnstoneImage: SingeImage: Sing		0	0	1					Ū		0	Ŭ	0	0	v		0				
Red-necked PhalaropeImage: SinjeImage:																-			-	-	
Pintail SinpeImage: Sinpe Sin																-			-	-	
Swinhoe's SnipeImage: Snip																			-		
Pintail/Swinboe's SnipeImage: SnipeIma																-			-		
Common SnipeIII <th< td=""><td>Dintail/Swinhoo's Snipe</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>÷</td><td></td><td></td><td>÷</td><td>*</td><td></td></th<>	Dintail/Swinhoo's Snipe															÷			÷	*	
Long-billed DowitcherImage: Description of the second																					├─── ┤
Asian DowitcherIII																				-	<u> </u>
Red KnotImage: constraint of the systemImage: constraint of the systemRed																					<u> </u>
Great KnotImage: Second se																-			-		<u> </u>
SanderlingImage: Sa						-										-			-	-	
Red-necked Stint Image: Constraint of the standard stand																			-		
Little StintImage: stint stin stin																-			-		
Temminck's Stint13013000303031Long-toed StintIIIIIII0000Pectoral SandpiperIIIIIII00000Sharp-tailed SandpiperIIIIIII000000DuninIIIIIIIII000000Spoon-billed SandpiperIIIIIIIIII0I0000000000III <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>÷</td><td></td><td></td><td>÷</td><td>*</td><td></td></t<>																÷			÷	*	
Long-toed StintImage: constraint of the systemImage:																					
Pectoral SandpiperImage: splay base in the splay base in th				1	30													30			\vdash
Shap-tailed Sandpiper Image: Constraint of the stand product of the stand																					\vdash
DunlinImage: Constraint of the systemImage: Constrai																			-		\vdash
Curlew Sandpiper Image: Curlew Sandpiper																-			-		
Spon-billed Sandpiper Image: Spon-billed Sandpiper Image:																-			-		\square
Broad-billed Sandpiper Image: Sandpiper Sandpiper Image: Sandpiper Sandpiper Image: Sandpiper Sandpiper Image: Sandpiper Sandpiper Image: Sandpiper Sandpiper Image: Sandpiper Sandpiper Image: Sandpiper Sandpiper Image: Sa																-			-		
Ruff 0	Spoon-billed Sandpiper															÷			÷	*	
Small wader spp. 0 0 0																				*	
	Ruff																				
Wader sp. 0 736 3121	Small wader spp.																				
	Wader sp.			2385	736											0		736	736	3121	

	1	1	1	I	1	ı	ı	I.	I	1	ı -	1					1			i i
Black-tailed Gull															0			0	0	
Heuglin's Gull															0			0	0	
Yellow-legged Gull															0			0	0	
Slaty-backed Gull															0			0	0	
Pallas's Gull															0			0	0	
Large Gull spp.															0			0	0	
Brown-headed Gull															0			0	0	
Black-headed Gull	0	0	6595	500	410			0		0	0	0	0	0	0	0	910	910	7505	
Saunders's Gull				36											0		36	36	36	
Whiskered Tern															0			0	0	
White-winged Tern															0			0	0	
Gull-billed Tern															0			0	0	
Caspian Tern															0			0	0	
Total	0	0	30894	5493	7249	0	0	0	0	0	0	0	0	0	0	0	12724	12724	43636	0
	-				,	Ū	Ū	, ,						÷	,	÷				, , , , , , , , , , , , , , , , , , ,
	Deep Bay		Ramsar																	
	Area	%	Site	%	SI															
Cormorants	383	0.9	0	0.0	0	0														
Ardeids etc	527	1.2	163	1.3	0	0														
Ducks, grebes, pelicans	18601	42.6	8731	68.6	0	0														
Rails, Coot etc	10	0.0	0	0.0	0	0														
Waders	16574	38.0	2884	22.7	0	0														
Gulls and terns	7541	17.3	946	7.4	0	0														
TOTAL	43636		12724		0	0														
Date of count: 21 Feb 2010 (low tide)																				
n/c = site not counted		High tide m																		
# indicates count consists of or includes a count made up to o	one week eith	ner side of th	e count dat	e																
% = count made at evening roost																				
Wetland-dependant species																				
· · ·	SRA	SRB	DBA	DDD	DBC	DDD	DBE	DBF	NW/	ткс	LC	TSW	MPST	ст	MDND	Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
Species	SKA	экв	DBA	DBB	DBC	DRD	DBF	(TBT)	LFS	ткс	LC	15w	MP51	51	MPNK	ponds	intertidal areas	Site	AREA	Inlet
Osprey			4												0			0	4	
Black Kite	0	0	2					0		0	0	0	0	0	0	0	0	0	2	
White-bellied Sea Eag															0			0	0	
Eastern Marsh Harrier			1												0			0	1	
Common Buzzard			1												0			0	1	
Greater Spotted Eagle	0	0						0		0	0	0	0	0	0	0	0	0	0	
Imperial Eagle	0	0						0		0	0	0	0	0	0	0	0	0	0	
Peregrine Falcon				1									-		0			0	0	
Pied Kingfisher	0	0		1				0		0	0	0	0	0	0	0	0	0	0	
Common Kingfisher	0	0	1	1				0		0	0	0	0	0	0	0	0	0	1	
White-throated Kingfisher	0	0	2					0		0	0	0	0	0	0	0	0	0	2	
Black-capped Kingfisher	0	0	1	<u> </u>		<u> </u>	<u> </u>	0		0	0	0	0	0	0	0	0	0	1	
Red-billed Starling	0	0	1	<u> </u>		<u> </u>	<u> </u>	0		0	0	0	0	0	0	0	0	0	0	
Collared Crow	0	0	-					0		0	0	0	0	0	0	0	0	0	0	
Conarca Crow	U	0	1	L		L	L	U		U	U	U	U	U	U	U	U	0	U	