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**Mai Po Inner Deep Bay Ramsar Site
Waterbird Monitoring Programme
2004 - 05**

**Monthly Waterbird Monitoring
Summer 2004 Report**



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Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

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Summer 2004 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

Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

Monthly Waterbird Monitoring Summer 2004 Report

1. Introduction

Comprehensive counts of waterbirds in the Deep Bay area were first carried out as part of an annual waterbird census first undertaken by the Hong Kong Bird Watching Society (HKBWS) in 1979. These continued in January every winter (excluding 1980) until 1992-93 when they were expanded to cover the winter period from November to March. With the establishment of the Mai Po Inner Deep Bay Ramsar Site, a monthly waterbird monitoring programme was developed. There have been monitoring projects from March 1998 to March 2004, coordinated and carried out by the HKBWS under the subvention by the Agriculture, Fisheries and Conservation Department (AFCD). Starting from April 2004, the Waterbird Monitoring Programme became a tender project directly under 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 egret surveys during the breeding season. This report concerns the monthly waterbird monitoring component.

2. Methodology

The methodology used and the areas covered are described in detail in the *Waterbird Count Handbook* (Carey undated, Carey 2002, Map 1, Map 2). In general terms, however, it involves surveying specified areas and, where possible, mapping birds to individual fishponds or *gei wai*. Other variables, such as the vegetation surrounding each pond, the height of exposed edge to the pond and the percentage of pond bottom exposed as a result of drain-down are also measured four times a year. Tidal areas of Inner Deep Bay were surveyed simultaneously so as to ensure as little double-counting as possible occurs. During summer months counts occur at high tide. During the winter months when there are substantial numbers of birds in the bay and when there are no diurnal tides of a sufficient height to force inland all birds off the mudflat and onto roost sites inland, counts occur on a rising tide, preferably one that comes to about 2.0 m. Higher counts of individual species 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.

Monthly summary reports are produced, while seasonal reports are produced bi-annually, i.e. Summer report cover the period from April to September, and the

Winter report from October to March. This report concerns the summer period of 2004.

3. Results

The summer 2004 waterbird count was conducted on 18th April, 16th May, 20th June, 18th July, 15th August and 12th September. Coverage was complete most of the months, except areas of Deep Bay C, D, E, and Lau Fau Shan to Nim Wan in the September count. Numbers of waterbird counted in the whole Deep Bay area from April to September were 13,681, 3,133, 2,697, 3,945, 4,807 and 4,916, of which the numbers in April, July and August were the new high numbers since the summer counts has started from 1998 (Figure 1). In Ramsar Site, the numbers of waterbirds recorded from April to September were 11,748, 2,302, 2,092, 2,237, 2,420, 3,450 and numbers in April and July were also the highest count in this area since 1998 (Figure 2).

Figure 1. Comparison of Waterbird Number in Summer in Deep Bay Area from 1998 to 2004

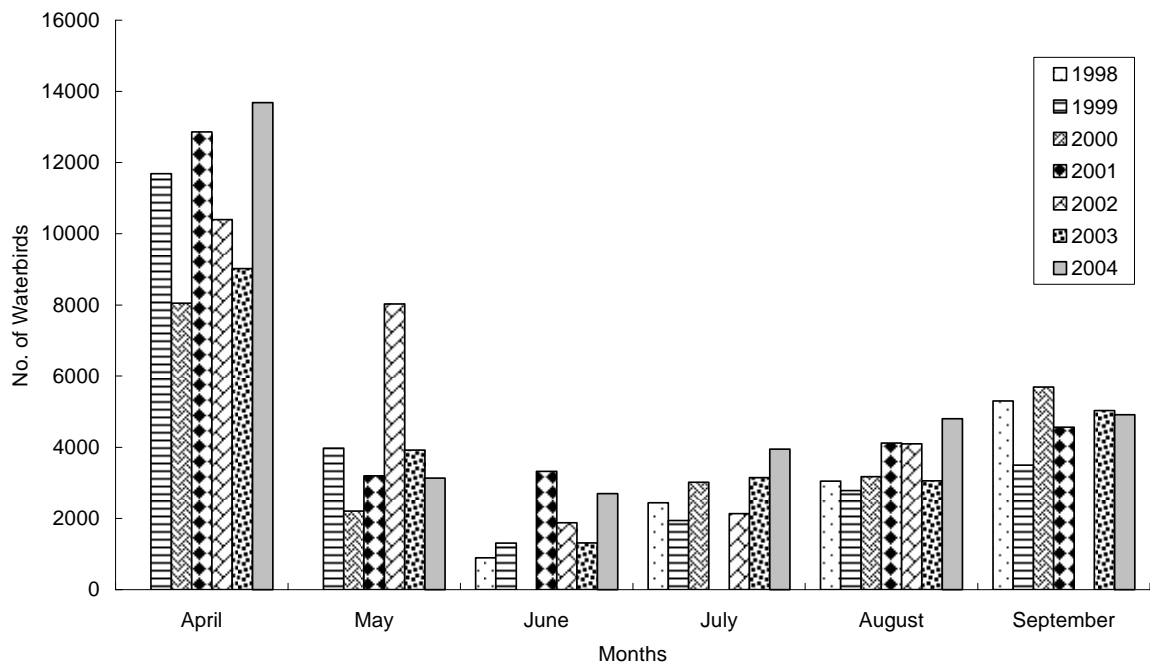
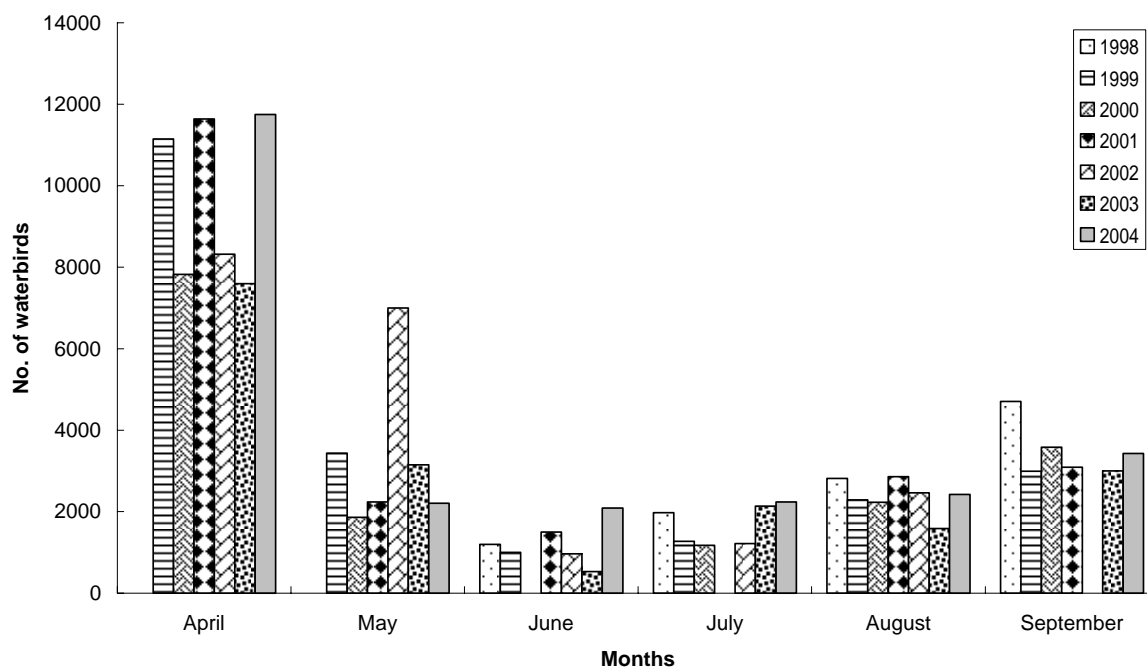


Figure 2. Comparison of Waterbird Number in Summer in Ramsar Site from 1998 to 2004



All counts in summer months since 1998 are listed in Table 1a and 1b. Details of counts in summer 2004 were reported in the monthly summaries which are available from the Waterbird Monitoring Programme website at:

<http://www.hkbws.org.hk/waterbird/>

Summaries of each count are presented in Table 2-7. Discussion below refers each waterbird species group.

3.1 Cormorant

Great Cormorant is primarily a common winter visitor from October to early April, with a few summer records (Carey *et al.* 2001). It is unusual that one or two birds were recorded over the summer, except in August (Table 8). However, these could refer to be same individuals overwintering in Deep Bay area.

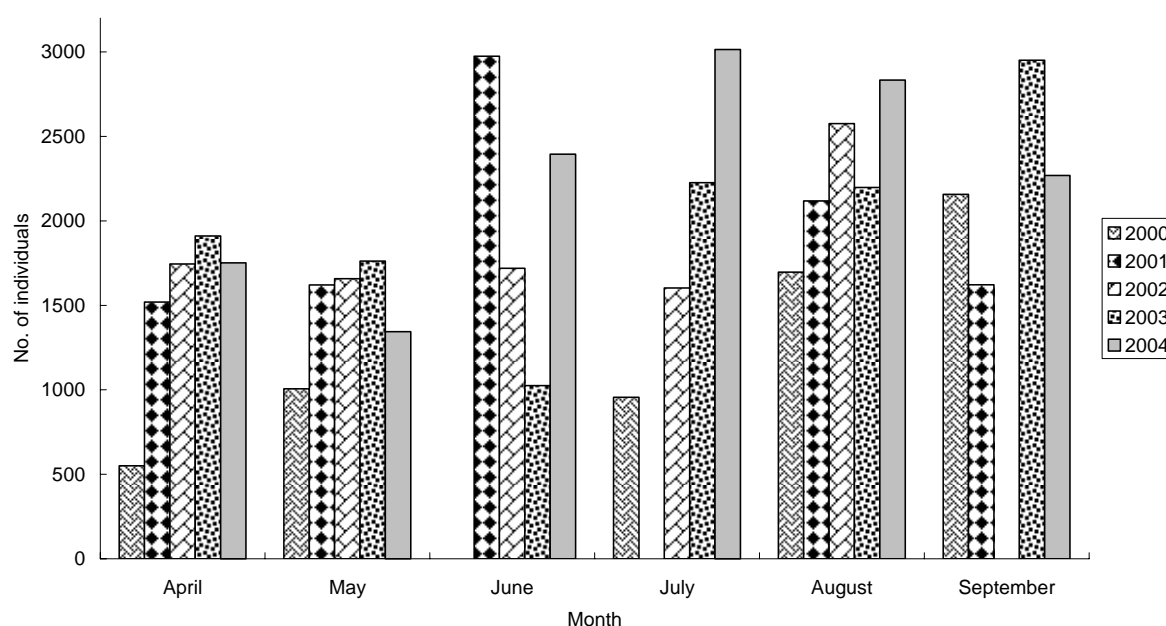
3.2 Ardeids

Members of ardeids usually comprised the largest number among all other bird species groups during the summer months. There are records of breeding ardeids in the vicinity, of the Deep Bay area, in particular the Chinese Pond Heron. The Deep Bay area and its hinterland supported most of the breeding population of the species in Hong Kong (Wong and Wong 2004). Further details of the ardeids breeding population in the Deep Bay area can be referred to the Egret Report (Wong and Wong 2004) under this Waterbird Monitoring Programme, it is available for

download from the website of the programme at
<http://www.hkbws.org.hk/waterbird/>

In summer 2004, the peak count of this group was 3,014 individuals in the July count (Table 8). The most common species in the Deep Bay area is Little Egret *Egretta garzetta*, a peak count of 1,629 individuals was recorded in August. This followed by Great Egret *Egretta alba* of 907 birds in July. The peak count of the locally conservation concern Chinese Pond Heron was 342 birds in the same month. In addition to this, there were also three globally threatened Swinhoe's Egrets *Egretta eulophotes* recorded in the May count from the Mai Po Boardwalk.

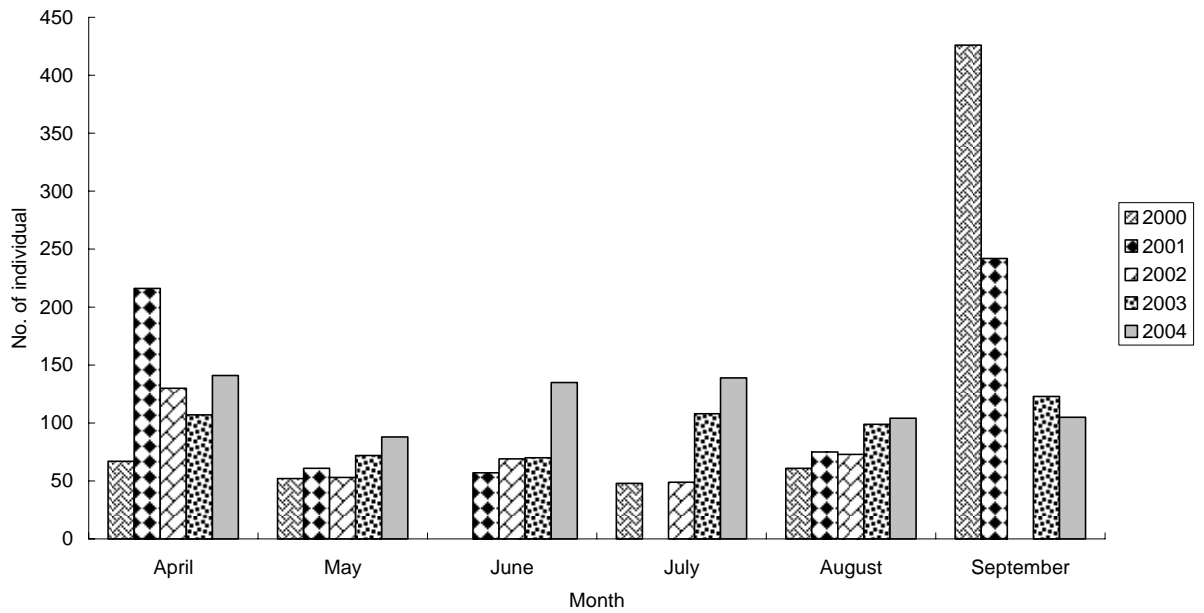
Figure 3. Comparison of number of Ardeids in Deep Bay area in Summer Months (2000-2004)



3.3 Ducks, grebes, pelicans

Most of the species in this group are winter visitors to Hong Kong. The numbers in this group is thus generally low throughout the summer months. Instead of this, most of the records of this group refer to the resident species Little Grebe *Tachybaptus ruficollis*. Although Spot-billed Duck *Anas poecilorhyncha* is also a resident species in the Deep Bay area, its number from the counts is comparatively lower. Peak number of this group was 141 birds in the count of April (Table 8). In addition, there were some early arrival records of wintering Common Teal *Anas crecca* and Northern Shoveler *Anas clypeata* in September.

Figure 4. Comparison of number of Ducks and Grebes in Deep Bay area in Summer Months (2000-2004)

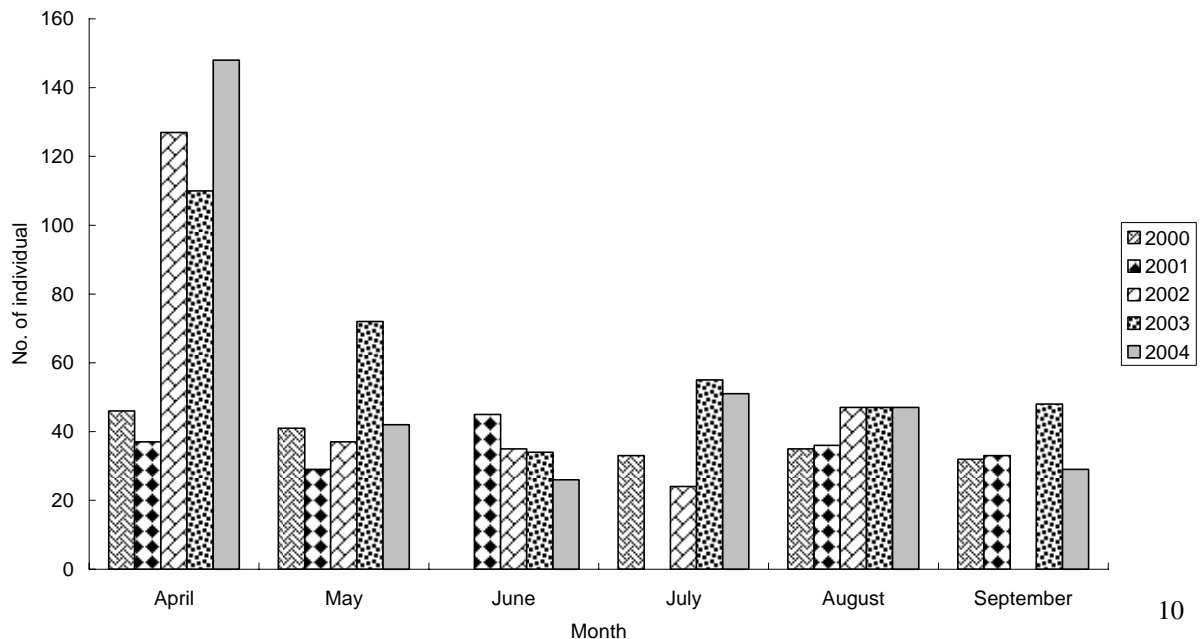


3.4 Rails and coots

Although some are resident in Hong Kong, the genuine secretive behaviour of rails and coots causes difficulty to encounter by counter, and thus we could only present the observable known number in Deep Bay area.

The peak count of this group was 148 birds in the April count, while there are around 20-40 individuals recorded in other months (Table 8). Numbers in this group are mainly comprised of the two most common species, White-breasted Waterhens *Amaurornis phoenicurus* and Common Moorhens *Gallinula chloropus*. A single Watercock *Gallicrex cinerea* recorded in the September count which is believed to be an autumn migrant.

Figure 5. Comparison of number of Rail and Coots in Deep Bay area in Summer Months (2000-2004)



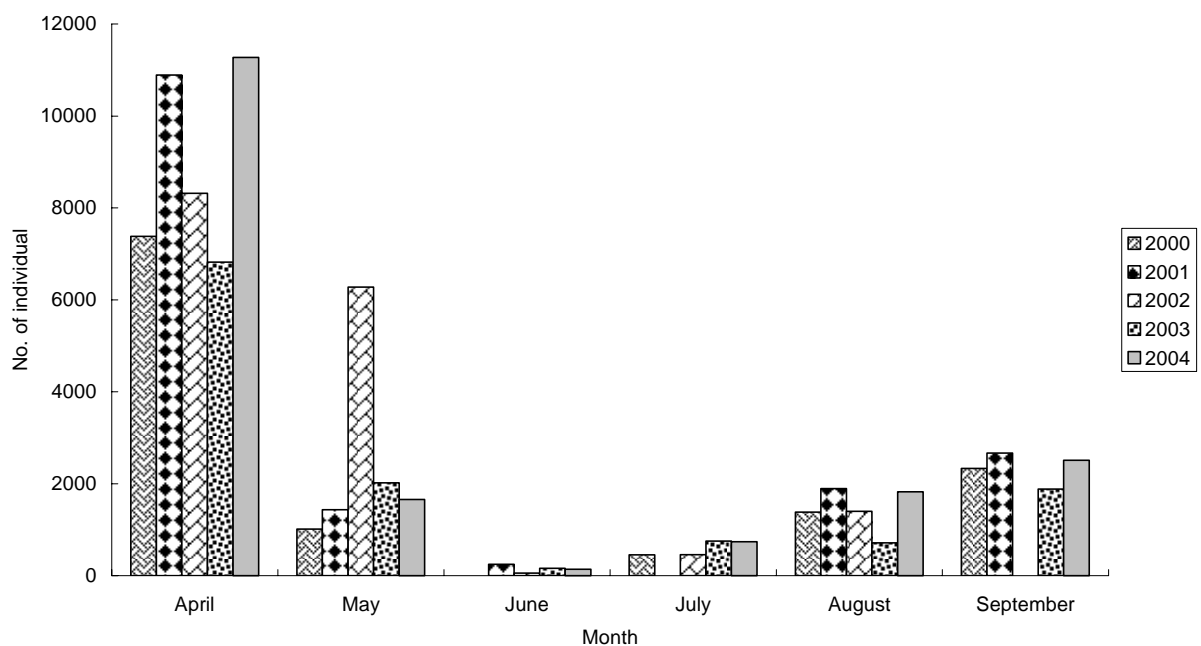
3.5 Shorebirds

Shorebirds are known to pass through Hong Kong in large number during spring and autumn. This species number and composition of this group is closely monitored in the as an individual project in this Programme. Results of the counts can be referred to Shorebird Monitoring Report (e.g. Yu *et. al.* 2003, 2004).

During the summer months, peak count of this group was 11,272 individuals in April (Table 8). The most numerous species in that count was Curlew Sandpiper *Calidris ferruginea*, a total of 4,068 birds was record. Number dropped to only 140 birds in June and bounced back to 2,511 birds in September, this indicated that the shorebirds had started their southward migration. These counts showed the picture of a single-day count to serve the comparison purpose.

Notwithstanding that over ten pairs of Black-winged Stilts *Himantopus himantopus* bred in the vicinity of Deep Bay area in 2004 breeding season. The number was higher and comparatively more successful than that in 2003 when it was firstly documented in Hong Kong. A few pairs of Greater Painted-snipe *Rostratula benghalensis* had also been regularly recorded in the summer waterbird count and found breeding in the Mai Po Nature Reserve. These suggested that the species has established a small summering population in the area. Other notable globally endangered species records included two Nordmann's Greenshanks *Tringa guttifer* in the April count and a single Spoon-billed Sandpiper *Eurynorhynchus pygmeus* recorded in the May count.

Figure 6. Comparison of number of Shorebirds in Deep Bay area in Summer Months (2000-2004)

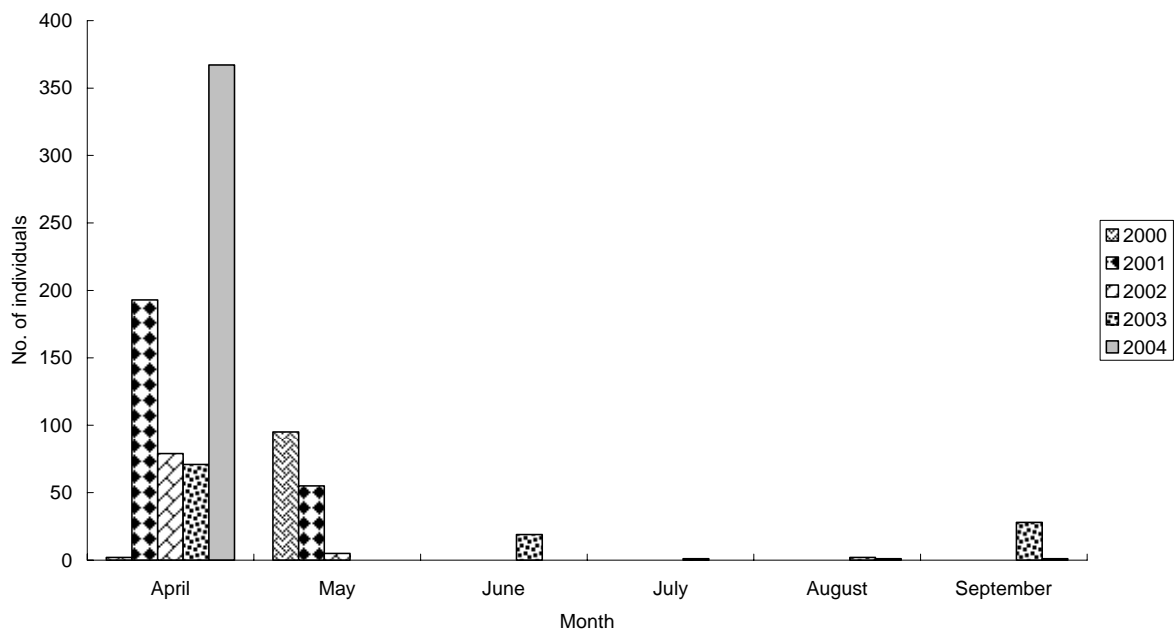


3.6 Gulls and terns

All the gull species in Hong Kong are winter visitors. During the summer months, there are records of some passage marsh terns *Chlidonias spp.*, some of them are occasional summer visitors.

In summer 2004, the peak count of this group were recorded at 367 individuals in April (Table 8), which comprised of three terns species including a flock of 360 Gull-billed Terns *Gelochelidon nilotica*. Subsequently, there were no record in June and July counts and only single of Whiskered Tern *Chlidonias hybridus* and Gull-billed Tern were recorded in August and September respectively.

Figure 7. Comparison of number of Terns in Deep Bay area in Summer Months (2000-2004)



5. Discussion

High numbers in April and August are clearly resulted by presence of the passage shorebirds. The presence of juvenile ardeids in July has also boosted up the number. More waterbirds in the Deep Bay area were counted in April, June, July and August 2004 than the same months in 2003 and also to 2002 (Figure 1). However, it could not yet be concluded to a real increase of waterbird in Deep Bay during summer time. Variations of counts among different years are still in large scale indicating that summer waterbird population is still not stable. Some of these high numbers were resulted by presences of large number of passage shorebirds which turnover rate and actual number of individual utilizing the Deep Bay are still not understood.

Breeding ardeid populations are a good indicator of the condition of the wetland

ecosystem in the Deep Bay area. Information is given in details in Egret Report (Wong and Wong 2004) and this report only presents the information of ardeid population (including non-breeding individuals) in the whole Deep Bay area. Although nesting number of egrets in Deep Bay has increased in 16%, it is outstanding that the Mai Po Village egret, which is previously the largest one in the Ramsar Site area, had been shrunk by some human disturbances in the breeding season of 2004 and number of breeding ardeids decreased drastically (Wong and Wong 2004). A large egret was gradually formed in the mangrove area of the Futian National Nature Reserve, Shenzhen in recent years. It is suggested that some of these breeding ardeids originally nested in Hong Kong might leave the deteriorated breeding habitats in Hong Kong.

6. Acknowledgements

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Maps

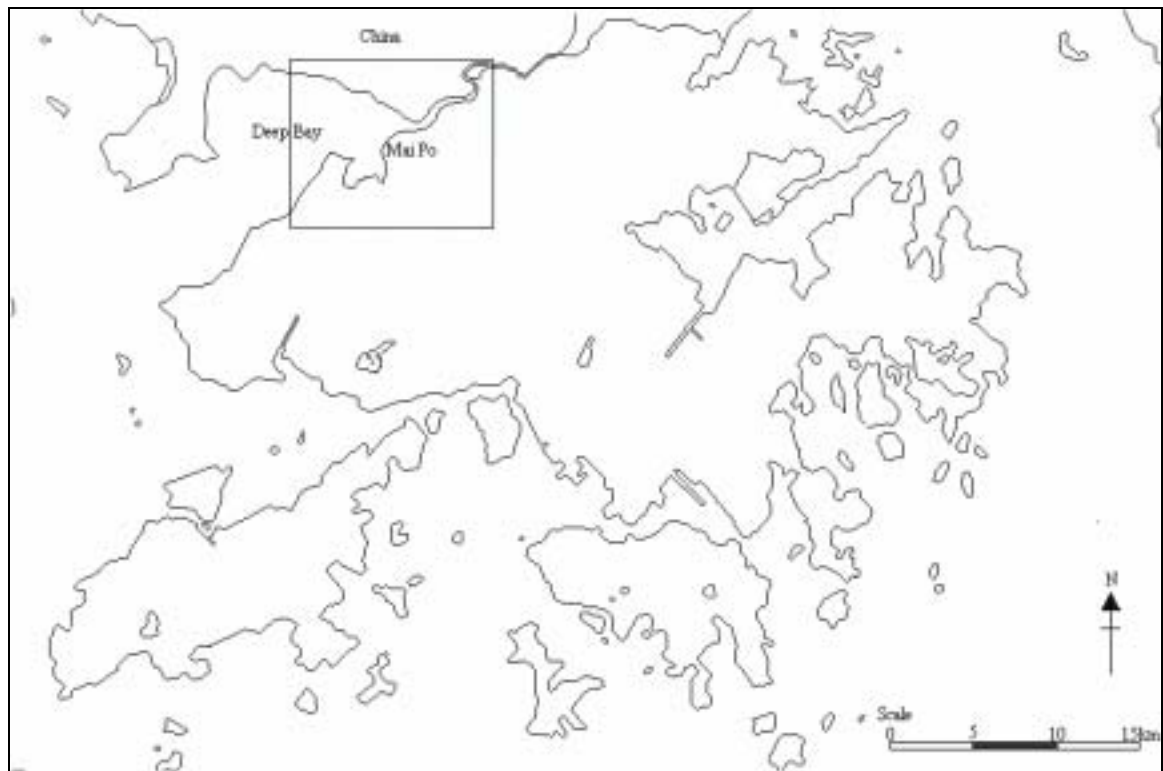


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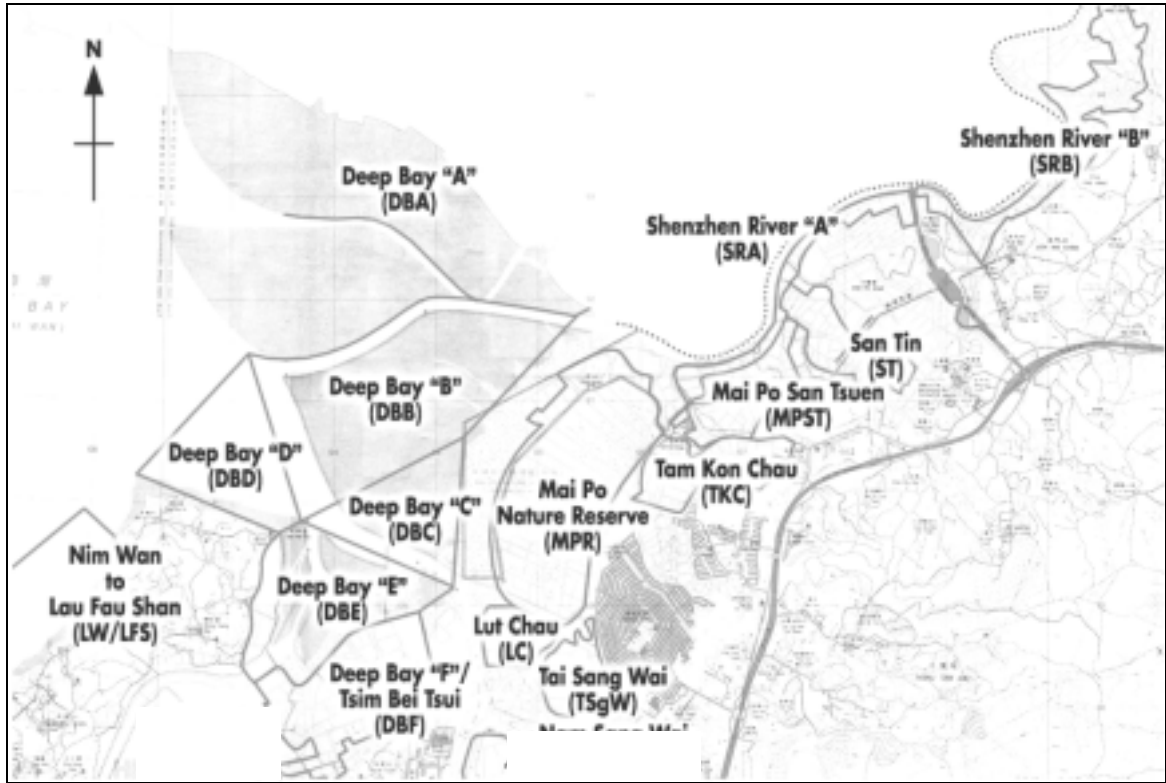


Agriculture, Fisheries and Conservation Department

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



Map 2. Locations of count sites of the Waterbird Monitoring Programme



Summer 2004 Report on Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

Tables



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Agriculture, Fisheries and Conservation Department

Table 1a. Numbers of waterbird in the whole Deep Bay area during summer months, 1998-2004

	1998	1999	2000	2001	2002	2003	2004	Mean	SD
April	nc	11686	8049	12858	10399	9019	13681	10949	2195
May	nc	3973	2206	3201	8028	3925	3133	4078	2040
June	891	1307	Nc	3324	1879	1313	2697	1902	936
July	2439	1941	3020	nc	2135	3145	3945	2771	746
August	3047	2784	3178	4124	4096	3060	4807	3585	755
September	5303	3499	5689	4566	nc	5032	4916	4834	755

Table 1b. Numbers of waterbird in the Ramsar Site during summer months, 1998-2004

	1998	1999	2000	2001	2002	2003	2004	Mean	SD
April	nc	11148	7826	11638	8319	7595	11748	9712	1995
May	nc	3438	1862	2238	7000	3153	2302	3332	1893
June	1194	999	Nc	1500	967	527	2092	1213	535
July	1976	1273	1173	nc	1217	2133	2237	1668	498
August	2817	2287	2232	2858	2463	1588	2420	2381	425
September	4705	2994	3580	3087	nc	3001	3450	3470	653

Table 2. Summary of waterbird count for April 2004.

	Deep Bay Area	%	Ramsar Site	%	SW	SI
Cormorants	1	0.0	1	0.0	0	54
Ardeids	1752	12.8	940	8.0	39	493
Ducks, grebes, pelicans	141	1.0	59	0.5	0	10
Rails and coot	148	1.1	74	0.6	3	2
Shorebirds	11272	82.4	10307	87.7	2	23
Gulls and terns	367	2.7	367	3.1	0	0
Total	13681		11748		44	582

SW: Shuen Wan, SI: Starling Inlet

Table 3. Summary of waterbird count for May 2004.

	Deep Bay Area	%	Ramsar Site	%	SW	SI
Cormorants	2	0.1	1	0.1	0	0
Ardeids	1344	42.9	617	28.0	161	374
Ducks, grebes, pelicans	88	2.8	37	1.7	0	0
Rails and coot	42	1.3	20	0.9	0	2
Shorebirds	1657	52.9	1532	69.4	3	12
Gulls and terns	0	0.0	0	0.0	0	0
Total	3133		2007		164	388

SW: Shuen Wan, SI: Starling Inlet

Table 4. Summary of waterbird count for June 2004.

	Deep Bay Area	%	Ramsar Site	%	SW	SI
Cormorants	2	0.1	1	0.1	0	0
Ardeids	2394	91.0	1904	91.1	36	459
Ducks, grebes, pelicans	135	2.7	56	2.7	0	0
Rails and coot	26	0.8	16	0.8	0	3
Shorebirds	140	5.5	114	5.5	0	3
Gulls and terns	0	0.0	0	0.0	0	0
Total	2697		2091		36	465

SW: Shuen Wan, SI: Starling Inlet

Table 5. Summary of waterbird count for July 2004.

	Deep Bay Area	%	Ramsar Site	%	SW	SI
Cormorants	1	0.0	1	0.0	0	0
Ardeids	3014	76.4	1486	66.4	38	461
Ducks, grebes, pelicans	139	3.5	52	2.3	0	1
Rails and coot	51	1.3	26	1.2	0	2
Shorebirds	740	18.8	672	30.0	0	0
Gulls and terns	0	0.0	0	0.0	0	0
Total	3945		2237		38	464

SW: Shuen Wan, SI: Starling Inlet

Table 6. Summary of waterbird count for August 2004.

	Deep Bay Area	%	Ramsar Site	%	SW	SI
Cormorants	0	0.0	0	0.0	0	0
Ardeids	2833	58.9	897	37.1	76	437
Ducks, grebes, pelicans	104	2.2	17	0.7	0	7
Rails and coot	47	1.0	28	1.2	1	3
Shorebirds	1822	37.9	1476	61.0	3	9
Gulls and terns	1	0.0	0	0.0	0	0
Total	4807		2418		80	456

SW: Shuen Wan, SI: Starling Inlet

Table 7. Summary of waterbird count for September 2004.

	Deep Bay Area	%	Ramsar Site	%	SW	SI
Cormorants	1	0.0	0	0	0	0
Ardeids	2269	46.2	1000	29.2	44	194
Ducks, grebes, pelicans	105	2.1	37	1.1	0	4
Rails and coot	29	0.6	14	0.4	0	1
Shorebirds	2511	51.1	2376	69.3	1	5
Gulls and terns	1	0.0	0	0.0	0	0
Total	4916		3427		45	204

SW: Shuen Wan, SI: Starling Inlet

Table 8. Numbers of waterbird species groups in whole Deep Bay area, summer 2004

	April	May	June	July	August	September
Cormorants	1	2	2	1	0	1
Ardeids	1752	1344	2394	3014	2833	2269
Ducks, grebes, pelicans	141	88	135	139	104	105
Rails and coot	148	42	26	51	47	29
Shorebirds	11272	1657	140	740	1822	2511
Gulls and terns	367	0	0	0	1	1

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Appendices



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Counts of Waterbirds in April 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	14	32	1					25		5	0	1	6	27	29	29	0	58	140		
Great Cormorant	0	0						0		0	0	0	0	0	1	0	0	1	1		54
Grey Heron	0	1	1	2				0		0	0	0	0	0	102	0	2	104	106	1	9
Purple Heron	1														3			3	4		
Great Egret	3	21	69	12	12	40	78	59	11	27	7	2	8	23	52	90	144	286	424	11	172
Intermediate Egret	0	0		4			3	2		0	3	0	0	0	14	4	7	25	26		5
Little Egret	3	23	247	7		24	17	94	55	55	30	22	61	37	40	237	55	332	715	19	83
Cattle Egret	0	7	64			5		4		2	37	7	10	23	0	60	5	65	159		10
Chinese Pond Heron	2	11	76	2		2		4	10	27	6	10	13	32	7	41	5	53	202	6	4
Striated Heron	0	0						2		0	0	0	0	0	2	2	0	4	4		
B-c Night Heron	0	1	41				7	4		3	1	0	1	0	1	7	8	16	59	2	210
Yellow Bittern	0	0						0		1	0	0	1	0	0	2	0	2	2		
Black-faced Spoonbill			1			4	24								22		28	50	51		
Common Teal	0	0						0		0	0	0	0	0	0	0	0	0	0		10
Chinese Spotbill															1			1	1		
White-breasted Waterhen	3	4	3					8		8	0	1	0	0	9	12	1	22	36	3	2
Common Moorhen	6	26	16					4		32	0	1	6	5	16	36	0	52	112		
Black-winged Stilt			39					23			12				114	31		145	188		
Pied Avocet				1631											0		1631	1631	1631		
Pacific Golden Plover				94											0		94	94	94		
Grey Plover				22											0		22	22	22		
Little Ringed Plover	8	0	1					1		0	0	1	0	0	0	2	0	2	11		12
Lesser Sand Plover				47											0		47	47	47		
Greater Sand Plover			10	214											0		214	214	224		
Black-tailed Godwit				977											0		977	977	977		
Bar-tailed Godwit				10											0		10	10	10		
Whimbrel				19											0		19	19	19		
Eurasian Curlew				13											0		13	13	13		
Spotted Redshank			50	560				1							0	1	560	561	611		
Common Redshank			750												383			383	1133		
Marsh Sandpiper			1	1598				2							0	2	1598	1600	1601		
Common Greenshank			30	139				7							1	6	140	147	177		
Nordmann's Greenshank				2											0		2	2	2		
Green Sandpiper	1	6						2		2	0	1	2	3	0	6	0	6	17		2
Wood Sandpiper	8	7	15					14		0	1	3	0	1	92	18	0	110	141		7
Terek Sandpiper				27											0		27	27	27		
Common Sandpiper	1	9	6					35		8	7	18	4	2	0	46	20	66	90	2	
Grey-tailed Tattler				4											0		4	4	4		
Ruddy Turnstone				5											0		5	5	5		
Red-necked Phalarope				2											0		2	2	2		2
Pintail Snipe		2													0			0	2		
Common Snipe		1													0			0	1		
Asian Dowitcher				10											0		10	10	10		

THE HONG KONG BIRD WATCHING SOCIETY LTD

Counts of Waterbirds in May 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	23	6						29		1	0	0	3	10	12	21	0	33	84		
Great Crested Grebe															0			0	0		
Great Cormorant	0	0						0		0	0	0	0	1	1	0	0	1	2		
Grey Heron	0	0						0		0	0	0	0	1	1	0	0	1	2		2
Great Egret	27	22	173	32			3	26	22	5	9	4	23	11	71	56	40	167	428	12	136
Intermediate Egret	1	0						0		0	0	0	0	9	11	0	0	11	21		2
Little Egret	22	13	170	50			1	30	4	41	18	20	17	10	44	82	60	186	440	41	50
Swinhoe's Egret				3											0			0	3		1
Cattle Egret	0	37						74		7	19	16	9	14	1	121	0	122	177	98	45
Chinese Pond Heron	14	11	51	1			1	16	7	21	11	9	13	18	10	58	3	71	183	8	2
Striated Heron	0	0	2	1				0		0	0	1	0	0	3	0	1	4	7		
B-c Night Heron	3	3	20					14	1	0	1	0	2	0	21	16	1	38	65	1	136
Yellow Bittern	0	0	1					0		0	0	0	0	0	0	0	0	0	1	1	
Black-faced Spoonbill															17			17	17		
Chinese Spotbill															2			2	2		
Burmese Spotbill															2			2	2		
White-breasted Waterhen	1	6	6					4		1	0	1	5	0	8	9	1	18	32		2
Common Moorhen	1	0	4	2				0		0	0	0	0	3	0	0	2	2	10		
Black-winged Stilt			15												69			69	84		
Pied Avocet				56											0		56	56	56		
Pacific Golden Plover															1			1	1		
Grey Plover															9			9	9		
Little Ringed Plover	2	0	1					0		2	0	0	0	0	0	1	0	1	5		2
Kentish Plover															2			2	2		
Lesser Sand Plover															33			33	33		
Greater Sand Plover															89			89	89		
Black-tailed Godwit				10											0		10	10	10		
Bar-tailed Godwit															1			1	1		
Whimbrel				12											3		12	15	15		
Eurasian Curlew															9			9	9		
Far Eastern Curlew															3			3	3		
Spotted Redshank															52			52	52		
Common Redshank															195			195	195		
Marsh Sandpiper															3			3	3		
Common Greenshank															120			120	120		
Green Sandpiper	1	0						0		0	0	0	0	0	0	0	0	0	1		
Wood Sandpiper	0	0						0		0	0	0	0	0	0	0	0	0	0		
Terek Sandpiper															225			225	225		

Counts of Waterbirds in May 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Common Sandpiper	3	0	5					3		0	0	1	0	0	0	2	0	2	12	1	1
Grey-tailed Tattler				7											0		7	7	7	2	9
Ruddy Turnstone															10			10	10		
Red-necked Phalarope				1											0		1	1	1		
Red Knot															7			7	7		
Great Knot															18			18	18		
Sanderling				5											2		5	7	7		
Red-necked Stint															584			584	584		
Sharp-tailed Sandpiper															48			48	48		
Curlew Sandpiper															35			35	35		
Spoon-billed Sandpiper															1			1	1		
Broad-billed Sandpiper				4											10		4	14	14		
Total	98	98	448	184	0	0	5	196	34	78	58	52	72	77	1733	366	203	2302	3133	164	388
	Deep Bay Area	%	Ramsar Site	%	SW	SI															
Cormorants	2	0.06	1	0.04	0	0															
Ardeids etc	1344	42.90	617	26.80	161	374															
Ducks, grebes, pelicans	88	2.81	37	1.61	0	0															
Rails, Coot etc	42	1.34	20	0.87	0	2															
Waders	1657	52.89	1627	70.68	3	12															
Gulls and terns	0	0.00	0	0.00	0	0															
TOTAL	3133		2302		164	388															
Date of count: 16 May 2004																					
n/c = site not counted High tide measured at TBT:																					
# indicates count consists of or includes a count made up to one week either side of the count date																					
% = count made at evening roost																					
Wetland-dependant species																					
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey				1											1			1	2		
Black Kite	0	1	1					2		0	1	0	0	0	2	2	2	6	7		
Pied Kingfisher	1	3	7					0		1	1	3	0	2	5	6	0	11	23	1	3
Common Kingfisher	1	3	6				1	3		1	0	1	2	4	1	7	0	8	23	1	2
White-throated Kingfisher	0	2						1		0	0	0	0	0	0	0	1	1	3		
Collared Crow	0	0	1					15		0	20	2	0	0	0	37	0	37	38	3	

Counts of Waterbirds in June 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	28	13						29		3	0	1	2	29	23	26	0	49	128		
Great Cormorant	0	0						0		0	0	0	0	1	1	0	0	1	2		
Grey Heron	7	0						0		0	0	0	0	0	0	0	0	0	7		
Great Egret	6	13	85	2	81	44	216	31	10	30	2	4	4	4	230	63	346	639	762	7	193
Intermediate Egret	0	0						0		0	0	0	0	0	5	0	0	5	5		2
Little Egret	13	24	130		135	292	347	61	55	73	22	13	37	4	79	187	777	1043	1285	21	55
Cattle Egret	0	9	1			2	39	0		2	0	0	0	0	89	2	41	132	142		109
Chinese Pond Heron	9	15	11			5	4	9	12	23	12	8	7	24	10	44	9	63	149	6	7
Striated Heron	0	0						0		0	2	0	1	0	6	3	0	9	9		
B-c Night Heron	3	3	15			1	2	0		0	3	1	2	2	3	7	3	13	35	2	93
Yellow Bittern	0	0						0		0	0	0	0	0	0	0	0	0	0		
Chinese Spotbill															5			5	5		
Northern Shoveler															2			2	2		
Slaty-breasted Rail															0			0	0		1
Water Rail															0			0	0		
White-breasted Waterhen	1	0				1	2	2	1	2	0	0	1	0	12	1	3	16	22		2
Common Moorhen	0	0	3					0		0	0	0	0	1	0	0	0	0	4		
Greater Painted Snipe															4			4	4		
Black-winged Stilt			15					3							82			82	100		
Little Ringed Plover	1	0	1					2		0	0	0	0	0	1	1	0	2	5		3
Whimbrel						1									0		1	1	1		
Eurasian Curlew															10			10	10		
Common Greenshank								1							15			15	16		
Common Sandpiper	0	0	2					0		1	0	0	0	0	1	0	0	1	4		
Total	68	77	263	2	216	346	610	138	78	134	41	27	54	65	578	334	1180	2092	2697	36	465
	Deep Bay Area	%	Ramsar Site	%	SW	SI															
Cormorants	2	0.05	1	0.05	0	0															
Ardeids etc	2394	91.01	1904	91.01	36	459															
Ducks, grebes, pelicans	135	2.68	56	2.68	0	0															
Rails, Coot etc	26	0.76	16	0.76	0	3															
Waders	140	5.50	115	5.50	0	3															
Gulls and terns	0	0.00	0	0.00	0	0															
TOTAL	2697		2092		36	465															
Date of count: 20 June 2004																					

Counts of Waterbirds in June 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
n/c = site not counted		High tide measured at TBT:																			
# indicates count consists of or includes a count made up to one week either side of the count date																					
% = count made at evening roost																					
Wetland-dependant species																					
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey															0			0	0		1
Black Kite	0	0						2		0	2	0	0	3	0	3	1	4	7		
White-bellied Sea Eag															0			0	0	2	
Pied Kingfisher	1	10						1		0	0	2	2	0	3	5	0	8	19		1
Common Kingfisher	3	3					3	1		1	0	2	4	2	1	10	0	11	20	1	1
White-throated Kingfisher	1	2					1	0	2	0	0	0	0	0	0	0	3	3	6	1	
Black-capped Kingfisher	0	0						0		0	0	0	0	0	0	0	1	1	0		
Red-billed Starling	1	0						0		0	0	0	0	0	0	0	0	0	1		
Collared Crow	0	2						10		0	5	0	0	0	2	15	0	17	19	2	
Crested Serpent Eagle																			0		1
Besra															1	1		1	1		

Counts of Waterbirds in July 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW/ LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	8	18	1					25		9	0	0	12	43	17	29	0	46	133		1
Great Cormorant	0	0						0		0	0	0	0	0	1	0	0	1	1		
Grey Heron	9	0						2		0	2	0	0	0	10	3	0	13	23		
Great Egret	26	8	383		30	2	91	39	2	12	2	5	9	8	290	37	135	462	907		164
Intermediate Egret	0	0						0		0	0	0	0	1	1	0	0	1	2		
Little Egret	45	14	593		79	49	143	74	46	48	16	19	19	17	117	157	275	549	1279		130
Cattle Egret	2	56	1				37	20		2	0	2	2	13	209	24	37	270	344		87
Chinese Pond Heron	30	22	90			3	9	32	6	38	12	24	28	30	18	97	16	131	342		3
Striated Heron	0	0						0		0	1	0	0	0	11	1	0	12	12		
B-c Night Heron	8	6	31					1		4	1	1	2	4	21	5	0	26	79		77
Yellow Bittern	0	0	4					1		0	0	0	0	0	20	1	0	21	25		
Black-faced Spoonbill															1			1	1		
Chinese Spotbill															6			6	6		
White-breasted Waterhen	5	2	4			2	2	1		4	3	1	1	1	11	11	4	26	37		2
Common Moorhen	0	0	14					0		0	0	0	0	0	0	0	0	0	14		
Pheasant-tailed Jacana	1														0			0	1		
Greater Painted Snipe	3														0	2		2	3		
Black-winged Stilt	1		8												67			67	76		
Little Ringed Plover	16	0	4					21	11	0	0	0	0	0	1	21	0	22	53		
Black-tailed Godwit															3			3	3		
Eurasian Curlew															15			15	15		
Common Redshank															412			412	412		
Common Greenshank															133			133	133		
Green Sandpiper	2	1						0		0	0	0	0	0	0	0	0	0	3		
Wood Sandpiper	4	0	9					0		0	0	0	0	0	0	0	0	0	13		
Common Sandpiper	2	0	5					3	1	2	2	2	2	2	2	11	0	13	23		
Grey-tailed Tattler															3			3	3		
Red Knot															2			2	2		
Total	162	127	1147	0	109	56	282	219	66	119	39	54	75	119	1371	399	467	2237	3945	0	464
	Deep Bay Area	%	Ramsar Site	%	SW	SI															
Cormorants	1	0.0	1	0.0	0	0															
Ardeids etc	3014	76.4	1486	66.4	0	461															
Ducks, grebes, pelicans	139	3.5	52	2.3	0	1															
Rails, Coot etc	51	1.3	26	1.2	0	2															
Waders	740	18.8	672	30.0	0	0															

Counts of Waterbirds in July 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Gulls and terns	0	0.0	0	0.0	0	0															
TOTAL	3945		2237		0	464															
Date of count: 18 July 2004																					
n/c = site not counted High tide measured at TBT:																					
# indicates count consists of or includes a count made up to one week either side of the count date																					
% = count made at evening roost																					
Wetland-dependant species																					
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey												1			0			0	1		
Black Kite	0	0						11		1	1	3	1	1	1	16	0	17	19		1
Pied Kingfisher	0	2	4				2	1		1	1	0	0	1	1	2	0	3	13		3
Common Kingfisher	4	6	5				2	2	2	2	3	2	1	5	4	9	2	15	38		5
White-throated Kingfisher	1	2	6				3	3	2	2	1	0	1	2	4	6	2	12	27		2
Black-capped Kingfisher	0	0						0		0	0	0	1	0	0	1	3	4	1		
Red-billed Starling	0	0						0		0	0	0	3	0	0	3	0	3	3		
Collared Crow	2	0	2					14		0	30	1	0	1	0	45	0	45	50		
Bonelli's Eagle																		0	0		3
Black-winged Kite								1										0	1		

Counts of Waterbirds in August 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	33	11						39		4				9	8	9	0	17	104		7
Grey Heron	1							1							4	0	0	4	6		
Purple Heron																		0	0		1
Great Egret	7	10	530	12		3	32	33	10	10	11	3	9	3	94	28	47	169	767		229
Intermediate Egret	3															0	0	0	3		3
Little Egret	12	31	820	5		20	150	235	30	60	99	15	18	11	123	200	175	498	1629		77
Cattle Egret	2	18								23	11		63		34	82	0	116	151		26
Chinese Pond Heron	25	22	42					24		22	4	17	32	19	5	71	0	76	212		7
Striated Heron														2	24	2	0	26	26		
B-c Night Heron	1	2	14					10		2	2		2	2	3	4	0	7	38		94
Yellow Bittern													1			1	0	1	1		
White-breasted Waterhen	1	2					8	7			1		4	2	12	6	8	26	37		3
Common Moorhen			8												2	0	0	2	10		
Greater Painted Snipe															0	2		2	0		
Black-winged Stilt			3					10							21			21	34		
Oriental Pratincole															2			2	2		
Pacific Golden Plover															2			2	2		
Little Ringed Plover	36		7					32	1	7				18		25	0	25	101		3
Lesser Sand Plover															13			13	13		
Greater Sand Plover															174			174	174		
Black-tailed Godwit															24			24	24		
Bar-tailed Godwit															1			1	1		
Whimbrel															35			35	35		1
Eurasian Curlew															28			28	28		
Common Redshank								1							530			530	531		
Marsh Sandpiper															34			34	34		1
Common Greenshank			4												269			269	273		
Green Sandpiper	3							1								0	0	0	4		
Wood Sandpiper	87		129					2		8				3	98	11	0	109	327		
Terek Sandpiper															98			98	98		
Common Sandpiper	3	3	12					10		6	8	4	5	1	2	22	0	24	54		2
Grey-tailed Tattler															5			5	5		
Asian Dowitcher															2			2	2		
Red-necked Stint															12			12	12		
Temminck's Stint																		0	0		2
Sharp-tailed Sandpiper															1			1	1		
Dunlin															1			1	1		

Counts of Waterbirds in August 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Curlew Sandpiper															61			61	61		
Broad-billed Sandpiper															5			5	5		
Whiskered Tern								1										0	1		
Little Tern															2			2	2		
Total	214	99	1569	17	0	23	190	406	41	142	136	39	166	38	1729	463	230	2420	4809	0	456
	Deep Bay Area	%	Ramsar Site	%	SW	SI															
Cormorants	0	0.0	0	0.0	0	0															
Ardeids etc	2833	58.9	897	37.1	0	437															
Ducks, grebes, pelicans	104	2.2	17	0.7	0	7															
Rails, Coot etc	47	1.0	28	1.2	0	3															
Waders	1822	37.9	1478	61.1	0	9															
Gulls and terns	1	0.0	0	0.0	0	0															
TOTAL	4807		2420		0	456															
Date of count: 18 July 2004																					
n/c = site not counted High tide measured at TBT:																					
# indicates count consists of or includes a count made up to one week either side of the count date																					
% = count made at evening roost																					
Wetland-dependant species																					
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey												1							1		
Black Kite		4						5		1	1	1	7			4		4	19		1
White-bellied Sea Eagle								1											1		
Peregrine Falcon															1			1	1		
Pied Kingfisher		2	3					1					4		2			2	12		3
Common Kingfisher	2	9	4					17	1	4	2	1	11	3	1	15		16	55		5
White-throated Kingfisher	1	2	4				5	4		1		1	3	1	2	6		8	24		2
Black-capped Kingfisher															1		5	6	1		
Collared Crow	1	1	1					4			13	3				16		16	23		
Bonelli's Eagle																					
Black-winged Kite								2											2		

Counts of Waterbirds in September 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	17	7						27		3	0	2	4	27	11	20	0	31	98		4
Great Cormorant	0	0						0		0	0	0	0	1	0	0	0	0	1		
Grey Heron	1	0	5					6		2	0	1	8	0	19	10	2	31	42		
Great Egret	16	12	314	126				171		10	6	6	4	2	68	126	188	382	735	3	98
Intermediate Egret	3	2						0		0	0	0	0	0	0	0	0	0	5		4
Little Egret	14	39	599	25				182		25	18	67	28	19	84	196	94	374	1100	11	70
Cattle Egret	3	2						1		0	5	36	6	6	19	48	0	67	78	22	9
Chinese Pond Heron	10	32	52					18		30	9	19	24	30	20	83	2	105	244	6	6
Striated Heron	0	0	1	1				0		0	0	0	0	0	3	0	1	4	5		
B-c Night Heron	1	1	9					16		3	0	3	3	0	11	21	0	32	47	2	4
Yellow Bittern	1	1	1					3		0	0	0	1	4	1	3	0	4	12		3
Black-faced Spoonbill															1			1	1		
Common Teal	0	0						0		0	0	0	0	0	1	0	0	1	1		
Burmese Spotbill															5			5	5		
Northern Shoveler				1											0		1	1	1		
White-breasted Waterhen	6	0						5		1	0	1	0	5	4	6	0	10	22		1
Watercock								1							0	1		1	1		
Common Moorhen	0	1	2					0		3	0	0	0	0	0	3	0	3	6		
Black-winged Stilt								38				2			89	38	1	128	129		
Pacific Golden Plover															42			42	42		
Grey Plover															10			10	10		
Little Ringed Plover	0	0						18		0	0	0	0	0	0	18	0	18	18		
Lesser Sand Plover															6			6	6		
Black-tailed Godwit															128			128	128		
Whimbrel				8											4		8	12	12		
Eurasian Curlew															40			40	40		
Spotted Redshank															8			8	8		
Common Redshank			1					25							330	25		355	356		1
Marsh Sandpiper								17							345	17		362	362		
Common Greenshank			1												1127			1127	1128		
Green Sandpiper	3	2						2		0	0	8	0	1	0	5	0	5	16		1
Wood Sandpiper	6	1	67					26		1	0	0	0	0	7	21	6	34	108		
Common Sandpiper	4	7	3					30		0	1	14	1	3	15	42	2	59	78	1	3
Common Snipe			1					3							0	2		2	4		
Asian Dowitcher															7			7	7		
Red Knot															5			5	5		
Great Knot															6			6	6		
Red-necked Stint				12				6							0	6	12	18	18		

Counts of Waterbirds in September 2004

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Long-toed Stint			5												0			0	5		
Sharp-tailed Sandpiper															1			1	1		
Curlew Sandpiper															24			24	24		
Gull-billed Tern				1											0		1	1	1		
Total	85	107	1061	174	0	0	0	595	0	78	39	159	79	98	2441	691	318	3450	4916	45	204
	Deep Bay Area	%	Ramsar Site	%	SW	SI															
Cormorants	1	0.02	0	0.00	0	0															
Ardeids etc	2269	46.16	1000	28.99	44	194															
Ducks, grebes, pelicans	105	2.14	38	1.10	0	4															
Rails, Coot etc	29	0.59	14	0.41	0	1															
Waders	2511	51.08	2397	69.48	1	5															
Gulls and terns	1	0.02	1	0.03	0	0															
TOTAL	4916		3450		45	204															
Date of count: 12 Sep 2004																					
n/c = site not counted High tide measured at TBT:																					
# indicates count consists of or includes a count made up to one week either side of the count date																					
% = count made at evening roost																					
Wetland-dependant species																					
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey				1											0			0	1		
Black Kite	0	0						1		0	3	2	5	1	2	11	1	14	14	3	
Peregrine Falcon															0			0	0	1	
Pied Kingfisher	0	1	1					4		0	1	0	0	0	4	3	2	9	11		1
Common Kingfisher	6	8	2					13		2	2	8	3	10	4	25	0	29	58	1	4
White-throated Kingfisher	1	2	6					7		1	1	2	1	4	5	9	0	14	30	1	4
Black-capped Kingfisher	0	0						0		0	0	0	0	1	0	0	0	0	1		
Red-billed Starling	0	0						1		0	0	0	0	0	0	0	0	0	1		
Collared Crow	0	0						0		0	5	5	0	1	0	8	0	8	11		