



# **Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme**

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Monthly Waterbird Count Data  
April 2009 – March 2010

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Hong Kong Bird  
Watching Society



Agriculture, Fisheries and  
Conservation Department

**Tender Reference No. AFCD/SQ/18/09**

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

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The Hong Kong Bird Watching Society Ltd.

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**Report available for public information**

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# WATERBIRD MONITORING PROGRAMME AT THE MAI PO INNER DEEP BAY RAMSAR SITE

Programme 2008/09

Summer Count

April 2009

## Summary Report - April 2009

Y.T. YU<sup>1</sup>

The 2009 April Waterbird count was scheduled on 12<sup>th</sup> and the count covered all the area in the whole Deep Bay area including the Mai Po Inner Deep Bay Ramsar site, the Hong Kong Wetland Park and the Futian National Nature Reserve, Shenzhen, China. However, coverage in Shenzhen River B (as known as Ma Tso Lung) and Tam Kon Chau was incomplete because waterbird count surveyors could not access some fishponds from the operators in the areas.

A total of 14,865 waterbirds were counted in this count, of which 10,871 (73%) were recorded within the Ramsar site. Shorebirds comprised the largest group of waterbird in this count at a figure of 11,853 (80%) and the second largest group was the Ardeids with 1,376 individuals (10%). High number of the shorebird presented in the count included a count of 3,080 Marsh Sandpipers, which is the new high figure of this species in the Deep Bay area. The figure of the Ardeid is still low in this year and also in the previous year, contrasting to that more than 2,000 individuals of this group were recorded in April 2007.

A comparison with previous year's count and the average for the month is provided in table 1. Both figures of the whole Deep Bay and Ramsar Site are lower than the previous year's figures but those figures were exceptionally high. The whole Deep Bay figure is higher than the average figure in 11%, while the Ramsar site figure is marginally higher than to the average figure in 7%.

Table 1. April waterbird counts 2005-2009.

	2005	2006	2007	2008	2009	Average *	Std. Dev.*
Deep Bay area	10,067	10,388	17,545	28,666	14,865	13,384	5,768
Ramsar Site	8,823	7,301	8,953	17,458	10,871	10,153	2,937

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

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### Summary of Waterbird Count, April 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	30	7	14					19	1		21	2	17	6	6	19	43	0	62	142	6
Great Crested Grebe			4													1			1	5	
Great Cormorant	1	0						0			0	0	0	0	0	3	0	0	3	4	1
Dalmatian Pelican																0			0	0	
Grey Heron	0	3	9					0	19		6	2	0	0	0	49	2	0	51	88	5
Purple Heron																0			0	0	
Great Egret	21	4	33	44	61	16	1	9	7	20	13	24	5	15	12	30	58	122	210	315	150
Intermediate Egret	6	0	1	4			1	0	1		1	0	0	0	1	6	1	5	12	21	1
Little Egret	62	30	189	46	10	12	30	26	10	61	48	11	22	14	25	106	107	98	311	702	21
Swinhoe's Egret																0			0	0	2
Pacific Reef Egret																0			0	0	
Cattle Egret	6	1	6					4			6	26	2	15	16	0	46	0	46	82	21
Chinese Pond Heron	21	7	18		1			5		3	17	5	18	12	22	4	49	1	54	133	1
Striated Heron	0	0						0			0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	7	3	12			1		3			3	1	2	5	0	4	10	1	15	41	52
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									1							0			0	1	
Black-faced Spoonbill			9		15				22	3						4		15	19	53	
Common Shelduck																0			0	0	
Eurasian Wigeon	0	0	10			4		0			0	0	0	0	0	0	0	4	4	14	
Falcated Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	1	0						0			0	0	0	0	0	0	0	0	0	1	
Mallard																0			0	0	
Spot-billed Duck																0			0	0	
Chinese Spotbill																0			0	0	
Burmese Spotbill																3			3	3	
Northern Pintail			3	1												0		1	1	4	
Garganey			129						8							0			0	137	
Northern Shoveler			26													0			0	26	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck																5			5	5	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.																0			0	0	
Slaty-breasted Rail																0			0	0	
Water Rail																0			0	0	
White-breasted Waterhen	8	3	6	1				2	1	1	8	1	6	2	8	0	14	1	15	47	
Watercock																0			0	0	
Common Moorhen	9	3	21					6	19		5	0	1	4	2	8	10	0	18	78	11
Eurasian Coot																0			0	0	
Pheasant-tailed Jacana																0			0	0	

Greater Painted Snipe																		0			0	1	
Black-winged Stilt			605															68			68	675	
Pied Avocet			1	2200	1													194			2201	2395	2396
Oriental Pratincole														1				0			0	1	
Northern Lapwing																		0			0	0	
Grey-headed Lapwing																		0			0	0	
Pacific Golden Plover				46														0			46	46	46
Grey Plover																		16			16	16	
Common Ringed Plover																		0			0	0	
Little Ringed Plover	18	0	15					3	2	3	0	0	1	0	2			0		4	0	4	44
Kentish Plover	1		2	2						2								2			2	4	9
Lesser Sand Plover	1																	32			32	33	
Greater Sand Plover			5							1								57			57	63	
Black-tailed Godwit																		1188			1188	1188	
Bar-tailed Godwit																		68			68	68	
Whimbrel				12						7								0			12	12	19
Eurasian Curlew																		29			29	29	
Far Eastern Curlew																		11			11	11	
Spotted Redshank										18								741			741	759	
Common Redshank			570					4		16								110		4	114	700	
Marsh Sandpiper	2		40							43								3038			3038	3123	
Common Greenshank			42					7		614								1	673	7	680	1337	11
Nordmann's Greenshank																		5			5	5	
Green Sandpiper	2	5						11				0	0	0	0	1	0	11	0	11	11	19	1
Wood Sandpiper	27	1	56					0	21			4	2	1	0	1	3	5	0	8	8	116	
Terek Sandpiper																		82			82	82	
Common Sandpiper	10	6	9	1				2	2	6	9	8	5	5	10	0	27	1	28	28	73	73	1
Grey-tailed Tattler																		2			2	2	
Ruddy Turnstone																		5			5	5	
Red-necked Phalarope			1															0			0	1	
Pintail Snipe																		0			0	0	
Swinhoe's Snipe																		0			0	0	
Pintail/Swinhoe's Snipe																		0			0	0	
Common Snipe	1	1	2							1								0			0	5	
Long-billed Dowitcher																		2			2	2	
Asian Dowitcher																		5			5	5	
Red Knot																		7			7	7	
Great Knot																		207			207	207	
Sanderling																		1			1	1	
Red-necked Stint	3		180	114														0		114	114	297	
Little Stint																		0			0	0	
Temminck's Stint	5		2							10			1					0			0	18	
Long-toed Stint	11		5							5								0			0	21	
Pectoral Sandpiper																		0			0	0	
Sharp-tailed Sandpiper																		5			5	5	
Dunlin																		0			0	0	
Curlew Sandpiper			120															336			336	456	
Spoon-billed Sandpiper																		0			0	0	
Broad-billed Sandpiper			5															2			2	7	
Ruff				1														0		1	1	1	
Small wader spp.																		0			0	0	
Wader sp.																		0			0	0	
Black-tailed Gull				2														0		2	2	2	
Heuglin's Gull				6														0		6	6	6	
Yellow-legged Gull				1														0		1	1	1	



**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2008/09

Summer Count

May 2009

**Summary Report – May 2009**

The 2009 May waterbird count took place on 10th. Coverage of the count is completed to all area, except Shenzhen River B (or called Ma Tso Lung). A fishpond operator denied the waterbird count surveyor to access the area in Ma Tso Lung. Other areas such as the Hong Kong Wetland Park at Tin Shui Wai and the Futian National Nature Reserve at Shenzhen, China were still surveyed in this month.

A total of 5,439 waterbirds were counted in the whole Deep Bay area, of which 3,695 (77%) were recorded within the Ramsar Site area. The largest group of waterbird was comprised by the shorebirds in a total figure of 3,558 individuals (65%) and the second largest group is the ardeids at 1,509 individuals (28%). The number of shorebirds was low, indicating that many shorebirds had undertaken their northward migration.

A comparison with previous years' counts and the average for the month is provided in Table 1. Both figures of the whole Deep Bay area and the Ramsar Site are lower than the same figures of the previous year. The Deep Bay figure has a decrease of 15% from the previous year, while the Ramsar site figure dropped significantly in 24%. In addition, the Deep Bay area is higher than the average figure but the Ramsar site figure is lower.

Table 1. Figures of the May waterbird counts 2005-2009.

April	2005	2006	2007	2008	2009	Average*	Std. Dev.*
Deep Bay area	8,455	4,227	9,630	6,359	5,439	5,175	2,407
Ramsar Site	7,482	3,069	7,443	4,884	3,695	4,136	2,066

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

### Summary of Waterbird Count, May 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	10	7	3					20	1		16	1	17	9	4	12	45	0	57	100	4
Great Crested Grebe			1													0			0	1	
Great Cormorant	0	0						0			0	0	0	0	0	1	0	0	1	1	
Dalmatian Pelican																0			0	0	
Grey Heron	21	0						0	3		0	0	0	0	0	5	0	0	5	29	2
Purple Heron																1			1	1	
Great Egret	32	2	134	4	54	5		14	2	41	10	33	18	8	10	26	79	63	168	393	154
Intermediate Egret	1	2		1				0			2	0	0	0	0	0	1	1	2	6	1
Little Egret	16	13	302	21	45	9	4	24	2	53	40	13	23	24	27	63	105	82	250	679	26
Swinhoe's Egret																0			0	0	1
Pacific Reef Egret																0			0	0	
Cattle Egret	25	0	2					20			4	7	23	4	15	2	55	0	57	102	66
Chinese Pond Heron	31	5	9	1			1	0		3	22	5	7	15	13	7	42	2	51	119	
Striated Heron	0	0						0			0	0	0	0	0	1	0	0	1	1	
B-c Night Heron	16	10	62		1			2		8	2	0	1	1	2	1	6	1	8	106	85
Yellow Bittern	0	0			1			0	3		0	0	0	0	0	0	0	0	0	3	1
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			55		4				11							0		4	4	70	
Common Shelduck																0			0	0	
Eurasian Wigeon	0	0						0			0	0	0	0	0	0	0	0	0	0	
Falcated Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	0	0						0			0	0	0	0	0	0	0	0	0	0	
Mallard																0			0	0	
Spot-billed Duck																3			3	3	
Chinese Spotbill																0			0	0	
Burmese Spotbill																0			0	0	
Northern Pintail																2			2	2	
Garganey																0			0	0	
Northern Shoveler																0			0	0	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck																2			2	2	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.																0			0	0	
Slaty-breasted Rail																0			0	0	
Water Rail																0			0	0	
White-breasted Waterhen	2	2	3					0	8		3	0	4	3	4	8	9	0	17	37	
Watercock																0			0	0	
Common Moorhen	0	0	6					0	6		3	0	0	0	2	3	2	0	5	20	6
Eurasian Coot																0			0	0	
Pheasant-tailed Jacana																0			0	0	

Greater Painted Snipe																0			0	0	
Black-winged Stilt			47					17					5	119					119	188	
Pied Avocet			110	5										795		5			800	910	
Oriental Pratincole														0					0	0	
Northern Lapwing														0					0	0	
Grey-headed Lapwing														0					0	0	
Pacific Golden Plover			3											0					0	3	
Grey Plover														14					14	14	
Common Ringed Plover														0					0	0	
Little Ringed Plover	2	1	8				0	3		3	0	0	4	0	2	7	0		9	23	
Kentish Plover														1					1	1	
Lesser Sand Plover														11					11	11	
Greater Sand Plover			3											56					56	59	1
Black-tailed Godwit														8					8	8	
Bar-tailed Godwit														0					0	0	
Whimbrel														20					20	20	
Eurasian Curlew			1											27					27	28	
Far Eastern Curlew				1										4		1			5	5	
Spotted Redshank			21					19						388					388	428	
Common Redshank			82					20						130					130	232	
Marsh Sandpiper														0					0	0	
Common Greenshank			15					113				1		721	1				722	850	3
Nordmann's Greenshank														1					1	1	
Green Sandpiper	0	0					0	7		0	0	0	0	0	0	0	0	0	0	7	
Wood Sandpiper	1	0	31				0	10		0	0	1	1	0	0	2	0		2	44	
Terek Sandpiper			10											141					141	151	
Common Sandpiper	1	1	6				1		2	9	3	3	1	7	0	15	0		15	34	1
Grey-tailed Tattler														2					2	2	5
Ruddy Turnstone														11					11	11	
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														0					0	0	
Long-billed Dowitcher														0					0	0	
Asian Dowitcher														15					15	15	
Red Knot														9					9	9	
Great Knot														5					5	5	
Sanderling														4					4	4	
Red-necked Stint			71											180					180	251	
Little Stint			1											0					0	1	
Temminck's Stint								1						0					0	1	
Long-toed Stint								3						0					0	3	
Pectoral Sandpiper														0					0	0	
Sharp-tailed Sandpiper														12					12	12	
Dunlin														0					0	0	
Curlew Sandpiper														134					134	134	
Spoon-billed Sandpiper														0					0	0	
Broad-billed Sandpiper														56					56	56	
Ruff														0					0	0	
Small wader spp.								22						0					0	22	
Wader sp.								15						0					0	15	
Black-tailed Gull														0					0	0	



**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2008/09

Summer Count

June 2009

**Summary Report - June 2009**

The 2009 June waterbird count was scheduled on 7<sup>th</sup>. Coverage of this waterbird count was completed mostly in the whole area, including in the Mai Po Inner Deep Bay Ramsar site, Hong Kong Wetland Park and Futian National Nature Reserve. However, part of the area in Shenzhen River B (i.e. Ma Tso Lung) is still inaccessible due to disturbances of a fishpond operator and so the survey in the area was not completed.

A total of 1,927 waterbirds were counted in the whole Deep Bay area, of which 1,011 (52%) were recorded in the Ramsar Site area. Ardeids comprised the largest group of waterbird in this count with a total count of 1,392 individuals (72%). The second largest group is shorebirds in only 377 individuals (20%), indicating that many passage shorebirds had left Mai Po for their northward migration.

A comparison with previous years' counts and the average for the month is provided in Table 1. Both figures of the whole Deep Bay area and the Ramsar Site were lower than the previous year's figures and also the average. This year's Deep Bay figure decreased 22% from the previous year, while the Ramsar site figure has a decrease of 12% from the previous year. Differences between the average and this year's figure are just as small as 5% and 9% respectively to the whole Deep Bay area and the Ramsar site.

Table 1. Figures of the June waterbird counts 2005-2009.

April	2005	2006	2007	2008	2009	Average*	Std. Dev.*
Deep Bay area	1,445	3,065	1,657	2,500	1,927	2,028	752
Ramsar Site	859	1,748	501	1,147	1,011	1,113	489

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

### Summary of Waterbird Count, June 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW/LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	24	0						16	1		7	0	10	3	2	15	30	0	45	78	5
Great Crested Grebe																0			0	0	
Great Cormorant	0	0						0			0	0	0	0	0	1	0	0	1	1	
Dalmatian Pelican																0			0	0	
Grey Heron	12	0						0			0	0	0	0	0	1	0	0	1	13	2
Purple Heron																1			1	1	
Great Egret	55	3	81	4	49	10	3	29	2	68	24	6	10	4	12	102	58	66	226	462	47
Intermediate Egret	0	0						0		1	1	1	0	2	0	8	4	0	12	13	
Little Egret	12	12	186	1	58	10	5	23	3	62	43	3	12	8	16	121	57	74	252	575	11
Swinhoe's Egret																0			0	0	
Pacific Reef Egret																0			0	0	
Cattle Egret	6	2	3		5	2		3			6	0	0	1	0	15	4	7	26	43	51
Chinese Pond Heron	7	9	17		1	1	1	4	4	8	37	5	11	12	24	13	47	3	63	154	
Striated Heron	0	0						0			0	0	1	0	0	1	1	0	2	2	
B-c Night Heron	29	1	63					2			5	2	3	3	5	7	9	0	16	120	79
Yellow Bittern	1	0						1			0	0	0	0	0	0	1	0	1	2	1
Cinnamon Bittern							1									0			0	1	
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			6	6	
Common Shelduck																0			0	0	
Eurasian Wigeon	0	0						0			0	0	0	0	0	0	0	0	0	0	
Falcated Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	0	0						0			0	0	0	0	0	0	0	0	0	0	
Mallard																0			0	0	
Spot-billed Duck																0			0	0	
Chinese Spotbill																0			0	0	
Burmese Spotbill																0			0	0	
Northern Pintail																0			0	0	
Garganey																0			0	0	
Northern Shoveler																0			0	0	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck																1			1	1	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.																0			0	0	
Slaty-breasted Rail																0			0	0	
Water Rail																0			0	0	
White-breasted Waterhen	6	5	2					2	2		5	1	1	1	4	4	10	0	14	33	
Watercock																0			0	0	
Common Moorhen	0	0	12	1				0	2		1	0	0	0	0	0	0	1	1	16	
Eurasian Coot																0			0	0	

Pheasant-tailed Jacana																	0			0	0
Greater Painted Snipe			7														0			0	7
Black-winged Stilt			10				16	8		2							54	18		72	90
Pied Avocet																	103			103	103
Oriental Pratincole																	2			2	2
Northern Lapwing																	0			0	0
Grey-headed Lapwing																	0			0	0
Pacific Golden Plover																	0			0	0
Grey Plover																	5			5	5
Common Ringed Plover																	0			0	0
Little Ringed Plover	3	0	8				5	4	3	2	0	6	0	4	2	13	0		15	37	
Kentish Plover																	0			0	0
Lesser Sand Plover																	0			0	0
Greater Sand Plover																	0			0	0
Black-tailed Godwit																	8			8	8
Bar-tailed Godwit																	0			0	0
Whimbrel																	18			18	18
Eurasian Curlew																	29			29	29
Far Eastern Curlew																	0			0	0
Spotted Redshank																	0			0	0
Common Redshank																	4			4	4
Marsh Sandpiper																	0			0	0
Common Greenshank								14									15			15	29
Nordmann's Greenshank																	0			0	0
Green Sandpiper	0	0					0			0	0	0	0	0	0	0	0		0	0	0
Wood Sandpiper	0	0					7			0	0	0	0	0	0	7	0		7	7	7
Terek Sandpiper																	22			22	22
Common Sandpiper	0	0					0			0	0	0	0	2	3	0	0		3	5	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																	0			0	0
Long-billed Dowitcher																	0			0	0
Asian Dowitcher																	0			0	0
Red Knot																	1			1	1
Great Knot																	6			6	6
Sanderling																	0			0	0
Red-necked Stint																	0			0	0
Little Stint																	0			0	0
Temminck's Stint																	0			0	0
Long-toed Stint																	0			0	0
Pectoral Sandpiper																	0			0	0
Sharp-tailed Sandpiper																	0			0	0
Dunlin																	0			0	0
Curlew Sandpiper																	4			4	4
Spoon-billed Sandpiper																	0			0	0
Broad-billed Sandpiper																	0			0	0
Ruff																	0			0	0
Small wader spp.																	0			0	0
Wader sp.																	0			0	0



**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2009/10

Summer Count

July 2009

**Summary Report - July 2009**

The 2009 July waterbird count took place on 12<sup>th</sup>. All area in the Mai Po Inner Deep Bay Ramsar site was completely covered, but Shenzhen River B area (Ma Tso Lung) was not surveyed due to inaccessible to the waterbird count surveyor, while other sites in the whole Deep Bay area including the Hong Kong Wetland Park and Futian National Nature Reserve at Shenzhen were covered in this count.

A total of 2,314 waterbirds were recorded in the whole Deep Bay area, of which 1,322 (57%) were presented in the Ramsar site area. The largest waterbird group was Ardeids in a figure of 1,479 individuals (64%) and the second was the shorebirds with a figure of 691 (30%). Low number of the shorebirds in this count indicated that the passage shorebirds in the southward migration might not have arrived to the Deep Bay area.

A comparison with previous years' counts and the average for the month is provided in Table 1. Both figures of the whole Deep Bay area and the Ramsar site have decreases from the previous year's figures, in 31% and 37% respectively. Both of these figures are also lower than the average figure. Besides the low number of shorebird in this count, the number of Ardeids in this count was also lower than the previous year (2008: 2169 birds).

Table 1. Figures of the July waterbird counts 2005-2009.

April	2005	2006	2007	2008	2009	Average*	Std. Dev.*
Deep Bay area	4,179	2,835	2,518	3,363	2,314	2,894	723
Ramsar Site	2,748	1,255	980	2,001	1,254	1,659	577

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

**Summary of Waterbird Count, July 2009**

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW/LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	6	0	4					16			12	0	3	2	1	18	25	0	43	62	2
Great Crested Grebe																0			0	0	
Great Cormorant	0	0	1					0			0	0	0	0	0	1	0	0	1	2	
Dalmatian Pelican																0			0	0	
Grey Heron	0	0			1			0	1		0	0	0	0	0	5	0	1	6	7	2
Purple Heron																0			0	0	
Great Egret	17	0	102	9	43	13	51	4	6	5	9	7	7	1	7	87	13	116	216	368	59
Intermediate Egret	0	0		3	3		5	0			1	0	1	0	0	9	1	11	21	22	1
Little Egret	19	0	369	21	24	38	31	44	3	12	24	7	13	4	19	73	74	114	261	701	9
Swinhoe's Egret																0			0	0	
Pacific Reef Egret																0			0	0	
Cattle Egret	30	0	12	2			1	11			0	2	0	0	2	89	13	3	105	149	24
Chinese Pond Heron	25	0	11	2	7	3	5	5	4	8	23	10	7	14	24	11	50	17	78	159	
Striated Heron	0	0	1					1			0	0	0	1	0	1	2	0	3	4	
B-c Night Heron	6	0	36	1				1			2	0	0	1	3	8	4	1	13	58	35
Yellow Bittern	0	0	3					0			0	0	0	0	0	1	0	0	1	4	
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							7									0		7	7	7	
Common Shelduck																0			0	0	
Eurasian Wigeon	0	0						0			0	0	0	0	0	0	0	0	0	0	
Falcated Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	0	0						0			0	0	0	0	0	0	0	0	0	0	
Mallard																0			0	0	
Spot-billed Duck																0			0	0	
Chinese Spotbill																0			0	0	
Burmese Spotbill																0			0	0	
Northern Pintail																0			0	0	
Garganey																0			0	0	
Northern Shoveler																0			0	0	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck																0			0	0	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.																0			0	0	
Slaty-breasted Rail																0			0	0	
Water Rail																0			0	0	
White-breasted Waterhen	4	0	2	2				1	1		5	0	0	3	3	7	6	2	15	28	
Watercock																0			0	0	
Common Moorhen	0	0	23	2				0			1	0	0	0	0	0	0	2	2	26	
Eurasian Coot																0			0	0	

Pheasant-tailed Jacana																	1			1	1
Greater Painted Snipe																	0			0	0
Black-winged Stilt			8														25			25	51
Pied Avocet																	2			2	2
Oriental Pratincole																	0			0	0
Northern Lapwing																	0			0	0
Grey-headed Lapwing																	0			0	0
Pacific Golden Plover																	0			0	0
Grey Plover				1													1		1	2	2
Common Ringed Plover																	0			0	0
Little Ringed Plover	0	0	15				5	5		0	0	0	0	0	0	0	5		0	5	25
Kentish Plover																	0			0	0
Lesser Sand Plover																	0			0	0
Greater Sand Plover																	1			1	1
Black-tailed Godwit																	34			34	34
Bar-tailed Godwit																	0			0	0
Whimbrel																	0			0	0
Eurasian Curlew				33													0		33	33	33
Far Eastern Curlew				2													0		2	2	2
Spotted Redshank																	2			2	2
Common Redshank			53	3													261		3	264	317
Marsh Sandpiper																	6			6	6
Common Greenshank			3														110			110	113
Nordmann's Greenshank																	0			0	0
Green Sandpiper	2	0		2			3			0	0	0	0	0	0	3		2	5	7	
Wood Sandpiper	0	0	48	1			0			0	0	0	0	0	15	0	1		16	64	
Terek Sandpiper																	6			6	6
Common Sandpiper	0	0	13	3			0			0	0	2	1	3	3	3	3	3	9	25	
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																	0			0	0
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																	0			0	0
Long-toed Stint																	0			0	0
Pectoral Sandpiper																	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																	0			0	0
Ruff																	0			0	0
Small wader spp.																	0			0	0
Wader sp.																	0			0	0



**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2009/10

Summer Count

August 2009

**Summary Report - August 2009**

The 2009 August waterbird count was conducted on 9<sup>th</sup>. The count was incomplete as Shenzhen River B (Ma Tso Lung) and Deep Bay C, D and E were not covered in this survey due to inaccessible of the former area and no replacement to be found after withdrawn of the surveyor in very short notice. Previous surveys in this month show that both of these areas would have small numbers of waterbirds in summer time and so this incomplete survey would have only small changes of the total number of the whole Deep Bay area. Besides, the other area including the Hong Kong Wetland Park at Tin Shui Wai and the Futian National Nature Reserve at Shenzhen were covered in this count.

A total of 3,879 waterbirds were recorded in the whole Deep Bay area, of which 2,761 (72%) individuals were present in the Ramsar Site area. The largest group is shorebirds at 2,489 (64%) individuals and ardieds is the second at 1,250 (32%) individuals. Number of shorebird present in the area indicated that the southward migration of shorebird has started but the survey date is earlier in this year and therefore fewer shorebirds were recorded at Mai Po comparing to the previous year.

A comparison with previous year's counts and the average for the month is provided in Table 1. Both figures of the whole Deep Bay area and the Ramsar site are lower than the previous year's figure but similar to the average. There are 30% and 21% decreases from the previous year's figure.

Table 1. Figures of the August waterbird counts 2004-2009.

April	2004	2006	2007	2008	2009	Average*	Std. Dev.*
Deep Bay area	4,807	4,802	4,361	5,532	3,879	3,970	880
Ramsar Site	2,420	3,125	2,692	3,493	2,761	2,612	503

Note: Count in 2005 was incomplete due to thunderstorm.

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

### Summary of Waterbird Count, August 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW/LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	26	0	16					12	1		9	0	8	3	5	16	25	0	41	96	3
Great Crested Grebe																0			0	0	
Great Cormorant	0	0	1					0			0	0	0	0	0	1	0	0	1	2	
Dalmatian Pelican																0			0	0	
Grey Heron	2	0						1	1		0	0	0	1	0	6	2	0	8	11	4
Purple Heron																0			0	0	
Great Egret	5	0	73	2				18	5	21	5	4	4	7	8	126	36	4	166	278	120
Intermediate Egret	1	0						0			1	0	0	0	0	0	0	0	0	2	
Little Egret	25	0	259	1				32	3	14	30	23	13	10	37	116	99	3	218	563	57
Swinhoe's Egret																0			0	0	
Pacific Reef Egret																0			0	0	
Cattle Egret	61	0	1					0			31	0	1	0	5	3	1	0	4	102	11
Chinese Pond Heron	39	0	82					10	2	3	11	5	7	31	35	17	61	0	78	242	2
Striated Heron	0	0		2				0			0	0	0	0	1	1	0	2	3	4	
B-c Night Heron	1	0	36	1				2			1	0	0	0	0	4	3	1	8	45	5
Yellow Bittern	1	0	1					1			0	0	0	0	0	0	0	0	0	3	
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																0			0	0	
Common Shelduck																0			0	0	
Eurasian Wigeon	0	0						0			0	0	0	0	0	0	0	0	0	0	
Falcated Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	0	0						0			0	0	0	0	0	0	0	0	0	0	
Mallard																0			0	0	
Spot-billed Duck																0			0	0	
Chinese Spotbill																0			0	0	
Burmese Spotbill																0			0	0	
Northern Pintail																0			0	0	
Garganey																0			0	0	
Northern Shoveler																0			0	0	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck																0			0	0	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.																0			0	0	
Slaty-breasted Rail																0			0	0	
Water Rail																0			0	0	
White-breasted Waterhen	4	0	2					3	2		2	0	4	4	1	3	13	0	16	25	
Watercock																0			0	0	
Common Moorhen	0	0	15					1			0	0	0	1	0	0	2	0	2	17	
Eurasian Coot																0			0	0	

Pheasant-tailed Jacana																0		0	0	
Greater Painted Snipe																0		0	0	
Black-winged Stilt			3				4	5								5	4	9	17	
Pied Avocet																0		0	0	
Oriental Pratincole																0		0	0	
Northern Lapwing																0		0	0	
Grey-headed Lapwing																0		0	0	
Pacific Golden Plover																0		0	0	
Grey Plover																0		0	0	
Common Ringed Plover																0		0	0	
Little Ringed Plover	3	0	11				0	9	0	0	5	0	9	0	5	0	5	37		
Kentish Plover																0		0	0	
Lesser Sand Plover																3		3	3	
Greater Sand Plover							6									152		152	158	6
Black-tailed Godwit																80		80	80	
Bar-tailed Godwit																0		0	0	
Whimbrel																37		37	37	
Eurasian Curlew																74		74	74	
Far Eastern Curlew																0		0	0	
Spotted Redshank																5		5	5	
Common Redshank	2		10				4									844		844	860	
Marsh Sandpiper																18		18	18	
Common Greenshank			3				3									853		853	859	
Nordmann's Greenshank																0		0	0	
Green Sandpiper	3	0					1		0	0	0	0	0	0	1	0	1	4		
Wood Sandpiper	49	0	28				5	23	0	0	0	0	1	25	5	0	30	131		
Terek Sandpiper																74		74	74	
Common Sandpiper	9	0	1				5		6	6	1	1	6	3	20	0	23	38	1	
Grey-tailed Tattler																1		1	1	
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																0		0	0	
Long-billed Dowitcher																0		0	0	
Asian Dowitcher																3		3	3	
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																0		0	0	
Long-toed Stint																0		0	0	
Pectoral Sandpiper																0		0	0	
Sharp-tailed Sandpiper																0		0	0	
Dunlin																0		0	0	
Curlew Sandpiper																4		4	4	
Spoon-billed Sandpiper																0		0	0	
Broad-billed Sandpiper																0		0	0	
Ruff																0		0	0	
Small wader spp.																0		0	0	
Wader sp.							86									0		0	86	

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						0		0	0	0	0	0	0	0	0	0	0	0	
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	
<b>Total</b>	<b>231</b>	<b>NC</b>	<b>542</b>	<b>6</b>	<b>NC</b>	<b>NC</b>	<b>NC</b>	<b>95</b>	<b>150</b>	<b>38</b>	<b>96</b>	<b>38</b>	<b>43</b>	<b>58</b>	<b>108</b>	<b>2474</b>	<b>277</b>	<b>10</b>	<b>2761</b>	<b>3879</b>	<b>209</b>

	Deep Bay Area	%	Ramsar Site	%	SW	SI															
<b>Cormorants</b>	2	0.1	1	0.0	0	0															
<b>Ardeids etc</b>	1250	32.2	485	17.6	0	199															
<b>Ducks, grebes, pelicans</b>	96	2.5	41	1.5	0	3															
<b>Rails, Coot etc</b>	42	1.1	18	0.7	0	0															
<b>Waders</b>	2489	64.2	2216	80.3	0	7															
<b>Gulls and terns</b>	0	0.0	0	0.0	0	0															
<b>TOTAL</b>	<b>3879</b>		<b>2761</b>		<b>0</b>	<b>209</b>															

Date of count: 9 Aug 2009  
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

<b>Wetland-dependant species</b>																					
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW/LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Osprey			3													1			1	4	
Black Kite	0	0	3					3			0	4	1	1	2	15	9	0	24	29	
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						0			0	0	0	0	0	0	0	0	0	0	
Peregrine Falcon																0			0	0	
Pied Kingfisher	1	0						0			1	0	0	2	2	1	3	0	4	7	
Common Kingfisher	3	0						3	1	1	3	0	4	4	5	2	14	0	16	26	1
White-throated Kingfisher	0	0	2	1				5	1		1	0	0	1	0	2	7	1	10	13	1
Black-capped Kingfisher	0	0						0			0	1	0	0	0	0	1	0	1	1	
Red-billed Starling	0	0						0			0	0	0	0	0	0	0	0	0	0	
Collared Crow	0	0	4					3			0	6	3	0	2	3	12	0	15	21	

**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2009/10

Summer Count

September 2009

**Summary Report - September 2009**

The 2009 September waterbird was scheduled on 20<sup>th</sup>. Coverage of the count was completed in the Ramsar Site area. Shenzhen River B or called Ma Tso Lung is still inaccessible to our waterbird count surveyors but other area of the whole Deep Bay area including the Hong Kong Wetland Park and Futian National Nature Reserve, Shenzhen were surveyed.

A total of 5,913 waterbirds were counted in the whole Deep Bay area, of which 4,059 (69%) were recorded in the Ramsar Site area. Shorebirds (also known as Waders) comprised the largest group of waterbirds in this count with 3,689 (63%) individuals counted, while Ardeids counted in a total of 1,926 individuals (32%) were the second largest group. Small numbers of ducks and Great Cormorants were also present in this count, indicating arrival of some wintering waterbirds in the Deep Bay.

A comparison with previous year's counts and the average for the month is provided in table 1. Both figures of the whole Deep Bay area and the Ramsar Site decreased from the previous year's figures in a level of 20% in the whole Deep Bay area and 7% in the Ramsar Site. This whole Deep Bay area figure is in fact the lowest since 2005. However, both figures are still marginally higher than the average figure.

Table 1. Figures of the September waterbird counts 2005-2009.

April	2005	2006	2007	2008	2009	Average*	Std. Dev.*
Deep Bay area	6,695	5,899	8,170	7,368	5,913	5,732	1,315
Ramsar Site	4,920	3,816	4,262	4,534	4,059	3,855	695

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

**Summary of Waterbird Count, September 2009**

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW/LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	31	0	12					24	3	6	8	1	19	4	3	14	36	0	50	125	1
Great Crested Grebe																0			0	0	
Great Cormorant	0	0						0			0	0	0	1	0	1	1	0	2	2	
Dalmatian Pelican																0			0	0	
Grey Heron	41	0	35		1	11	42	17	8		2	5	2	4	0	40	19	56	115	208	10
Purple Heron																2			2	2	
Great Egret	89	0	66	113	5	31	119	52	8	12	6	11	6	5	7	55	35	308	398	585	158
Intermediate Egret	16	0		6				0			1	1	0	0	0	11	1	6	18	35	
Little Egret	79	0	167	120	17	30	91	89	8	62	10	38	13	12	18	33	96	318	447	787	51
Swinhoe's Egret																0			0	0	
Pacific Reef Egret																0			0	0	
Cattle Egret	33	0						11	2		10	10	9	2	4	1	28	0	29	82	2
Chinese Pond Heron	42	0	16					4	1	10	14	6	17	15	15	11	58	0	69	151	3
Striated Heron	0	0	1					0			0	0	0	0	0	2	0	0	2	3	
B-c Night Heron	14	0	15					11			2	0	0	2	3	12	17	0	29	59	11
Yellow Bittern	0	0	1					3			0	0	0	2	0	1	5	0	6	7	
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							4									3		4	7	7	
Common Shelduck																0			0	0	
Eurasian Wigeon	0	0						0			0	0	0	0	0	0	0	0	0	0	
Falcated Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	0	0						0			0	0	0	0	0	0	0	0	0	0	
Mallard																0			0	0	
Spot-billed Duck																0			0	0	
Chinese Spotbill																0			0	0	
Burmese Spotbill																0			0	0	
Northern Pintail																0			0	0	
Garganey																0			0	0	
Northern Shoveler																0			0	0	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck																1			1	1	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.			12	14												0		14	14	26	
Slaty-breasted Rail																0			0	0	
Water Rail																0			0	0	
White-breasted Waterhen	10	0	2					3			2	0	0	3	3	9	10	0	19	32	
Watercock																0			0	0	
Common Moorhen	2	0	10	1				0	1		0	0	0	0	0	0	0	1	1	14	
Eurasian Coot																0			0	0	
Pheasant-tailed Jacana	1															0			0	1	





**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2009/10

Winter Count

October 2009

**Summary Report - October 2009**

The 2009 October waterbird count was scheduled on 18<sup>th</sup>. It completely covered all the sites in the Mai Po Inner Deep Bay Ramsar site area, the Hong Kong Wetland Park at Tin Shui Wai and the Futian National Nature Reserve at Shenzhen. All other sites within the whole Deep Bay area were surveys except the Shenzhen River B (or called Ma Tso Lung) where was partly surveyed due to disturbances from the fishermen.

A total of 14,930 waterbirds were counted in the whole Deep Bay area, of which 8,708 (58%) were recorded in the Ramsar Site. Shorebird comprised the largest group in this count at 5,621 (38%) birds and Ducks at 3,754 (25%) individuals were the second largest group. In addition, a total of 2,964 Great Cormorants were also counted, indicating that wintering waterbirds arrived to the Deep Bay area.

Table 1 shows counts from last five consecutive years and the averages for comparison. Both figures of the whole Deep Bay area and Ramsar Site are not only higher than the previous year's figures, but also the new high since the commencement of this programme. The figure of the whole Deep Bay area is in 41% and 65% higher than the pervious year's and the average figures, while figure of the Ramsar Site is in 36% and 51% higher than these two figures.

Table 1. Figures of the October waterbird counts 2005-2009.

April	2005	2006	2007	2008	2009	Average*	Std. Dev.*
Deep Bay area	9,307	9,360	10,164	10,609	14,930	9,038	2,881
Ramsar Site	6,389	5,808	4,946	6,403	8,708	5,753	1,719

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

Summary of Waterbird Count, October 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW/LFS	WEP	TKC	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	
Falated 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	0	
Burmese Spotbill																0			0	0	
Northern Pintail	33		80													1			1	114	
Garganey	2															24			24	26	
Northern Shoveler			208													0			0	208	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck			30													0			0	30	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.			3000		17		3									8		20	28	3028	
Slaty-breasted Rail																0			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																0			0	0	
Common Moorhen	3	0	9					4		10	0	0	0	0	0	20	5	0	25	46	2
Eurasian Coot																0			0	0	
Pheasant-tailed Jacana	2									3						0			0	5	
Greater Painted Snipe	1															0			0	1	

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

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	2				0				0	0	0	0	0	1	0	2	3			3	3
Saunders's Gull																			0			0	0
Whiskered Tern											10		5	1	13	0	10		10			29	29
White-winged Tern																0			0			0	0
Gull-billed Tern																0			0			0	0
Caspian Tern																0			0			0	0
<b>Total</b>	<b>604</b>	<b>54</b>	<b>4748</b>	<b>247</b>	<b>121</b>	<b>121</b>	<b>108</b>	<b>192</b>	<b>54</b>	<b>538</b>	<b>242</b>	<b>131</b>	<b>203</b>	<b>169</b>	<b>139</b>	<b>7259</b>	<b>789</b>	<b>660</b>	<b>8708</b>	<b>14930</b>			289

	Deep Bay Area	%	Ramsar Site	%	SI																		
<b>Cormorants</b>	2964	19.9	2822	32.4	0	0																	
<b>Ardeids etc</b>	2476	16.6	1311	15.1	277	0																	
<b>Ducks, grebes, pelicans</b>	3754	25.1	151	1.7	0	0																	
<b>Rails, Coot etc</b>	83	0.6	47	0.5	3	0																	
<b>Waders</b>	5621	37.6	4364	50.1	9	0																	
<b>Gulls and terns</b>	32	0.2	13	0.1	0	0																	
<b>TOTAL</b>	<b>14930</b>		<b>8708</b>		<b>289</b>	<b>0</b>																	

Date of count: 18 Oct 2009  
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

<b>Wetland-dependant species</b>																						
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW/LFS	WEP	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet	
Osprey			6	1	4		1									0			0	12		
Black Kite	3	4	11	1				4			0	1	3	2	7	20	8	1	29	56	2	
White-bellied Sea Eag																0			0	0		
Eastern Marsh Harrier	2		4													1			1	7		
Common Buzzard																0			0	0		
Greater Spotted Eagle	0	0						0			0	0	0	0	1	0	0	0	0	1		
Imperial Eagle	0	0						0			0	0	0	0	0	0	0	0	0	0		
Peregrine Falcon																0			0	0		
Pied Kingfisher	3	1	3					1			0	0	0	0	1	2	1	0	3	11	1	
Common Kingfisher	2	1	5					2			12	1	2	5	4	2	19	0	21	36		
White-throated Kingfisher	0	1	3			1		1	1	1	2	0	1	2	2	3	5	1	9	18		
Black-capped Kingfisher	0	0	1	1				1			0	0	0	0	0	0	1	1	2	3		
Red-billed Starling	0	0						0			0	0	0	0	0	0	0	0	0	0		
Collared Crow	0	0	2				1	5			0	9	0	0	0	6	14	1	21	23		

**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

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Programme 2009/10	Winter Count	November 2009
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**Summary Report - November 2009**

The 2009 November waterbird count was conducted on 15<sup>th</sup>. The coverage of this count is completed as all the areas of the whole Deep Bay area including Shenzhen River B (also called Ma Tso Lung), the Hong Kong Wetland Park at Tin Shui Wan and the Ramsar site area, and the Futian National Nature Reserve at Shenzhen, China were also surveyed.

A total of 36,683 waterbirds were recorded in the whole Deep Bay area, of which 23,941 (65%) were recorded in the Ramsar site. Ducks and grebes comprised the largest group of waterbird in this count with a count of 15,113 individuals (41%), while shorebird was the second largest group in a figure of 10,451 (29%). A total of 7,876 (22%) Great Cormorants were present in this count, a relatively high figure in this month.

Table 1 shows counts from last five consecutive years and the averages for comparison. Both figures of the whole Deep Bay area and the Ramsar site are in fact the second highest since the commencement of this programme in 1998. The figure of the whole Deep Bay area has an increase of 8% from the previous year's count, while the figure of the Ramsar Site has a large increase of 45% from last year.

Table 1. Figures of the November waterbird counts 2005-2009.

April	2005	2006	2007	2008	2009	Average*	Std. Dev.*
Deep Bay area	27,372	30,725	55,808	34,071	36,683	31,462	8,870
Ramsar Site	18,019	22,947	23,229	16,463	23,941	20,268	3,109

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

Summary of Waterbird Count, November 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	TKC	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	25	54	15					14	3	4	17	0	25	4	15	15	54	0	69	191	5
Great Crested Grebe			21		4		1			1						0		5	5	27	
Great Cormorant	255	154	2492					64	238	4	20	39	15	295	101	4199	396	0	4595	7876	9
Dalmatian Pelican																0			0	0	
Grey Heron	121	23	102	47	18	26	82	31	84	9	11	22	17	16	26	285	59	173	517	920	40
Purple Heron	1															2			2	3	
Great Egret	12	15	33	43	9	18	40	20	4	57	8	12	8	3	123	136	42	110	288	541	114
Intermediate Egret	5	4		2				0	2		0	0	1	0	4	9	1	2	12	27	
Little Egret	11	24	62	83		6	3	33	10	86	17	6	17	3	343	41	70	92	203	745	32
Swinhoe's Egret																0			0	0	
Pacific Reef Egret																0			0	0	
Cattle Egret	1	6						0			0	1	4	0	9	0	5	0	5	21	
Chinese Pond Heron	30	25	26	3		1	1	3	3	18	11	1	8	9	28	16	30	5	51	183	4
Striated Heron	0	0						0			0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	1	8	1			1		0			0	0	0	1	0	6	1	1	8	18	10
Yellow Bittern	0	0	1					0			0	0	0	0	0	0	0	0	0	1	
Cinnamon Bittern																0			0	0	
Great Bittern																0			0	0	
Black Stork																0			0	0	
Black-headed Ibis																0			0	0	
Eurasian Spoonbill			1													0			0	1	
Black-faced Spoonbill	14	5	31					15	7	57	4	1		1	5	65	3	15	83	205	
Common Shelduck																0			0	0	
Eurasian Wigeon	34	0	86	290	1	12	43	0	46	4	0	0	0	0	0	1	0	346	347	517	
Falcated Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	39	5	16	7	6		5	0	109	2	1	0	0	0	0	14	0	18	32	204	7
Mallard																0			0	0	
Spot-billed Duck																0			0	0	
Chinese Spotbill																5			5	5	
Burmese Spotbill																0			0	0	
Northern Pintail	25		25	260	11				45							115		271	386	481	
Garganey	7								53							0			0	60	
Northern Shoveler	7		5389	5440	330		12		14		2					77		5782	5859	11271	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck					1820		32									5		1852	1857	1857	
Greater Scaup																0			0	0	
Red-breasted Merganser																0			0	0	
Duck sp.								500								0		500	500	500	
Slaty-breasted Rail																0			0	0	
Water Rail																0			0	0	
White-breasted Waterhen	2	2	2	3			2	3	2	3	4	1	0	0	1	4	3	5	12	29	3
Watercock																0			0	0	
Common Moorhen	16	0	36				1	15	25		13	1	0	0	4	31	23	1	55	142	18
Eurasian Coot	1		71													0			0	72	

Pheasant-tailed Jacana	1																0		0	1	
Greater Painted Snipe																	0		0	0	
Black-winged Stilt	3		76	4				3						2		2		4	6	90	
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	
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	2	15	16					1							1	0	1		1	35	
Long-billed Dowitcher																0			0	0	
Asian Dowitcher																0			0	0	
Red Knot				4												0		4	4	4	
Great Knot				34												0		34	34	34	
Sanderling																0			0	0	
Red-necked Stint				4	28											0		28	28	32	
Little Stint																0			0	0	
Temminck's Stint	6		2	15												0		15	15	23	
Long-toed Stint	1			2												0		2	2	3	
Pectoral Sandpiper																0			0	0	
Sharp-tailed Sandpiper																0			0	0	
Dunlin			36	3000												0		3000	3000	3036	1
Curlew Sandpiper																0			0	0	
Spoon-billed Sandpiper#				1												0		1	1	1	
Broad-billed Sandpiper				1												0		1	1	1	
Ruff																0			0	0	
Small wader spp.																0			0	0	
Wader sp.																0			0	0	



**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2009/10

Winter Count

December 2009

**Summary Report - December 2009**

The 2009 December waterbird count was scheduled on 20<sup>th</sup>. The whole Deep Bay area, including the Mai Po Inner Deep Bay Ramsar site, the Hong Kong Wetland Park at Tin Shui Wai and Futian National Nature Reserve, Shenzhen, China were completely surveyed. In addition, a low-tide count was also conducted on the same day at Tsim Bei Tsui police jetty and the Futian National Nature Reserve in order to provide some supplementary data to the regular high tide count.

A total of 42,001 waterbirds were counted during the high tide count, while the low tide count produced a figure of 25,664 waterbirds. More wintering ducks were counted during the low tide count and therefore their numbers were combined to counts of the other waterbirds from in the high tide count. There were a total of 43,923 waterbird presented in the whole Deep Bay area, of which 25,593 (58%) were recorded within the Ramsar site area. Details of both high and tide counts are listed in Table 1 below. Shorebirds, or called waders, comprise the largest group of waterbird in this count at a figure of 16,762 (38%) and ducks are the second largest group with a total of 12,920 (29%) present in the count.

A comparison with previous year's count and the average for the month is provided in Table 2. Both figures of the whole Deep Bay area and Ramsar Site are lower than the previous year's figure and the average. The decrease is 32% and 7% comparing to the previous year's figure of whole Deep Bay area and the Ramsar site respectively, while in 5% and 17% comparing to the average. Tide of the counting day was lower than the predicted height that caused the low numbers of this monthly count.

Table 1. Numbers of waterbirds in high-tide and low-tide Waterbird Count in the whole Deep Bay area, December 2009. Numbers in the parenthesis are the figures of the Ramsar site, December 2009.

Groups	High-tide count	Low-tide count	Maximum figure
Cormorants	6,585 (5,940)	0 (0)	6,585 (5,940)
Ardeids	3,353 (1,944)	0 (0)	3,353 (1,944)
Ducks, grebes and pelicans	10,998 (7,486)	12,920 (750)	12,920 (7,486)
Rails and Coots	122 (60)	68 (0)	122 (60)
Waders	16,762 (6,367)	8,808 (0)	16,762 (6,367)
Gulls and terns	4,181 (3,796)	3,567 (3,250)	4,181 (3,796)
<b>Total</b>	<b>42,001 (25,593)</b>	<b>25,664 (4,000)</b>	<b>43,923 (25,593)</b>

Table 2. December waterbird counts 2005-2009.

	2005	2006	2007	2008	2009	Average *	Std. Dev.*
Deep Bay area	39,894	55,983	45,859	64,902	43,923	46,103	8,494
Ramsar Site	26,813	45,596	25,827	27,435	25,593	30,837	6,775

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

Summary of Waterbird Count, December 2009

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	TKC	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	
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																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		1							25							2			2	28	
Northern Shoveler	1	2	500		35	127	565									82		727	809	1312	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck	237		80		40		65									168		105	273	590	
Greater Scaup										40						0			0	40	
Red-breasted Merganser																0			0	0	
Duck sp.				2290												0		2290	2290	2290	
Slaty-breasted Rail																0			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			0	0	
Common Moorhen	5	13	29				2	5	4		2	0	0	0	2	49	4	2	55	111	23
Eurasian Coot	3															2			2	5	1

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

Heuglin's Gull				130													0		130	130	130	
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																	1			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				7													0	7	7	7		
Whiskered Tern																	0			0	0	
White-winged Tern																	0			0	0	
Gull-billed Tern																	0			0	0	
Caspian Tern																	0			0	0	
<b>Total</b>	<b>1297</b>	<b>375</b>	<b>12741</b>	<b>10851</b>	<b>1831</b>	<b>2676</b>	<b>1879</b>	<b>195</b>	<b>414</b>	<b>1248</b>	<b>330</b>	<b>245</b>	<b>581</b>	<b>392</b>	<b>186</b>	<b>6761</b>	<b>1587</b>	<b>17246</b>	<b>25594</b>	<b>42002</b>	<b>284</b>	
	<b>Deep Bay Area</b>	<b>%</b>	<b>Ramsar Site</b>	<b>%</b>	<b>SI</b>																	
<b>Cormorants</b>	<b>6585</b>	<b>15.7</b>	<b>5940</b>	<b>23.2</b>	<b>7</b>	<b>0</b>																
<b>Ardeids etc</b>	<b>3353</b>	<b>8.0</b>	<b>1944</b>	<b>7.6</b>	<b>209</b>	<b>0</b>																
<b>Ducks, grebes, pelicans</b>	<b>10998</b>	<b>26.2</b>	<b>7486</b>	<b>29.3</b>	<b>22</b>	<b>0</b>																
<b>Rails, Coot etc</b>	<b>122</b>	<b>0.3</b>	<b>60</b>	<b>0.2</b>	<b>25</b>	<b>0</b>																
<b>Waders</b>	<b>16762</b>	<b>39.9</b>	<b>6367</b>	<b>24.9</b>	<b>21</b>	<b>0</b>																
<b>Gulls and terns</b>	<b>4181</b>	<b>10.0</b>	<b>3796</b>	<b>14.8</b>	<b>0</b>	<b>0</b>																
<b>TOTAL</b>	<b>42001</b>		<b>25593</b>		<b>284</b>	<b>0</b>																
Date of count: 20 Dec 2009																						
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																						
<b>Wetland-dependant species</b>																						
<b>Species</b>	<b>SRA</b>	<b>SRB</b>	<b>DBA</b>	<b>DBB</b>	<b>DBC</b>	<b>DBD</b>	<b>DBE</b>	<b>DBF (TBT)</b>	<b>WEP</b>	<b>NW/LFS</b>	<b>TKC</b>	<b>LC</b>	<b>TSW</b>	<b>MPST</b>	<b>ST</b>	<b>MPNR</b>	<b>Ramsar ponds</b>	<b>Ramsar intertidal areas</b>	<b>Ramsar Site</b>	<b>DEEP BAY AREA</b>	<b>Starling Inlet</b>	
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				3	1			0	0	0	0	1	0	0	3	3	8	2	
Common Kingfisher	4	0					1	3	2		8	0	4	1	4	8	14	1	23	35	2	
White-throated Kingfisher	0	1	2	5			2	2			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					0			71	96	7	8	99	0	182	0	182	677	1	
Collared Crow	0	1	2					0			0	9	1	0	2	0	10	0	10	15	2	
Crested Serpent Eagle		1																				
Pied Harrier																1						

## WATERBIRD MONITORING PROGRAMME AT THE MAI PO INNER DEEP BAY RAMSAR SITE

Programme 2009/10

Winter Count

January 2010

### Summary Report – January 2010

The 2010 January waterbird count was scheduled on 24<sup>th</sup> and the count completely covered all the Deep Bay area, including the Mai Po Inner Deep Bay Ramsar site, the Hong Kong Wetland Park at Tin Shui Wai and Futian National Nature Reserve, Shenzhen, China. A supplementary low-tide count was also conducted in the same day during the low tide period in order to providing additional information of the numbers of waterbird presented in the area. The low-tide count mainly focuses to the intertidal mudflat of the Deep Bay, which is conducted at Tsim Bei Tsui jetty and Futian National Nature Reserve.

A total of 67,731 and 54,204 waterbirds were counted in the high-tide and low-tide count respectively. Some details of both high and low tide counts are listed in table 1. With combining both counts, total number of waterbird presented in the whole Deep Bay area are 76,882, of which 39,000 (51%) were recorded in the Ramsar site area. The largest group of waterbird is comprised by wintering ducks and grebes at 28,700 individuals (37%) and shorebirds were counted at 23,926 (31%) individuals, being the second largest group. Beside, a total of 9,045 individuals of wintering Great Cormorants were counted in the addition night roost count at Mai Po Nature Reserve and Nam Sang Wai.

A comparison with previous year's count and the average for the month is provided in table 2. Both figures of the whole Deep Bay area and the Ramsar site have increases from the previous year. The whole Deep Bay area figure has a increase of 8%, but the Ramsar site figure has a large increase of 28%. In fact, this whole Deep Bay area figure is the second highest number of all waterbird count in Hong Kong. The highest count was 90,132 recorded in January 2008. On the contrary, the figure of Ramsar site is just very similar to the average figure.

Table 1. Numbers of waterbirds in high-tide and low-tide Waterbird Count in the whole Deep Bay area, January 2010. Numbers in the parenthesis are the figures of the Ramsar site.

Groups	High-tide count	Low-tide count	Maximum figure
Cormorants	9,045 (5,661)	3,089 (0)	9,045 (5,661)
Ardeids	3,357 (1,948)	300 (0)	3,357 (1,948)
Ducks, grebes and pelicans	25,570 (12,221)	26,674 (3,383)	28,700 (12,219)
Rails and Coots	268 (94)	374 (0)	523 (94)
Waders	23,416 (12,916)	13,029 (0)	23,926 (12,916)
Gulls and terns	6,075 (1,081)	10,738 (6,162)	11,331 (6,162)
<b>Total</b>	<b>67,731 (33,921)</b>	<b>54,204 (9,545)</b>	<b>76,882 (39,000)</b>

Table 2. January waterbird counts 2006-2010.

	2006	2007	2008	2009	2010	Average*	Std. Dev.*
Deep Bay area	47,627	65,909	90,132	71,264	76,882	59,069	13,518
Ramsar Site	24,740	46,372	56,823	30,539	39,000	39,163	10,333

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

Summary of Waterbird Count, January 2010

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW / LFS	TKC	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																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						0			0	0	0	0	0	0	0	0	0	0	
B-c Night Heron	0	0						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	
Great Bittern																0			0	0	
Black Stork																0			0	0	
Black-headed Ibis																0			0	0	
Eurasian Spoonbill																3			3	3	
Black-faced Spoonbill	22		14					20	17							423	31		454	496	
Common Shelduck																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																0			0	0	
Duck sp.			2200	1980	800		200									12		2980	2992	5192	
Slaty-breasted Rail																0			0	0	
Water Rail																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																0			0	0	
Common Moorhen	11	14	15					6	27		4	0	0	2	4	71	9	0	80	154	20
Eurasian Coot	6		88													5			5	99	1
Pheasant-tailed Jacana																0			0	0	

Greater Painted Snipe																		0			0		2	
Black-winged Stilt	6		90															0			0		96	
Pied Avocet			2000	8661														0			8661	8661	10661	
Oriental Pratincole																		0			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																		0			0		0	
Little Ringed Plover	35	17	20				4	31	14	18	0	36	9	8	0	50	0	0		50	0	192	1	
Kentish Plover			4303	470*														0			0		4303	
Lesser Sand Plover																		0			0		0	
Greater Sand Plover#				13														0			13	13	13	
Black-tailed Godwit#			800*															752			752	752	752	
Bar-tailed Godwit#				1														0			1	1	1	
Whimbrel				1														0			1	1	1	
Eurasian Curlew#				1075														0			1075	1075	1075	
Far Eastern Curlew#				1														0			1	1	1	
Spotted Redshank																		0			0		0	
Common Redshank			2	100				195										0			100	100	297	
Marsh Sandpiper			33	945				411										0			945	945	1389	
Common Greenshank			141	550				309	1	2								40			550	590	1043	2
Nordmann's Greenshank#				1														0			1	1	1	
Green Sandpiper	2	4					1	5	6	6	1	1	0	3	0	8	0	0		8	0	8	29	1
Wood Sandpiper	19	15	40				5	16		1	1	6	2	6	2	15	0	0		17	0	113		
Terek Sandpiper																		0			0		0	
Common Sandpiper	12	9	19			1	9	6	4	7	7	3	5	22	1	29	1	0		31	1	105	2	
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			1		0	1		0		1	0	1	2	
Common Snipe		1	13				2						2	1	0	2		0		2	0	19		
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						18		17					6	0			0		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														0			22	22	22	
Common Gull				2														0			2	2	2	

Heuglin's Gull#				700												0		700	700	700	
Yellow-legged Gull				8												0		8	8	8	
Slaty-backed Gull#				2												0		2	2	2	
Pallas's Gull																0			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#				20												0		20	20	20	
Whiskered Tern																0			0	0	
White-winged Tern																0			0	0	
Gull-billed Tern																0			0	0	
Caspian Tern				2												0		2	2	2	
<b>Total</b>	<b>1030</b>	<b>175</b>	<b>26116</b>	<b>19941</b>	<b>3113</b>	<b>378</b>	<b>575</b>	<b>253</b>	<b>1298</b>	<b>1140</b>	<b>175</b>	<b>365</b>	<b>3741</b>	<b>261</b>	<b>525</b>	<b>8645</b>	<b>1353</b>	<b>23923</b>	<b>33921</b>	<b>67731</b>	508
	<b>Deep Bay Area</b>	<b>%</b>	<b>Ramsar Site</b>	<b>%</b>	<b>SI</b>																
<b>Cormorants</b>	<b>9045</b>	<b>13.4</b>	<b>5661</b>	<b>16.7</b>	<b>270</b>	<b>0</b>															
<b>Ardeids etc</b>	<b>3357</b>	<b>5.0</b>	<b>1948</b>	<b>5.7</b>	<b>163</b>	<b>0</b>															
<b>Ducks, grebes, pelicans</b>	<b>25570</b>	<b>37.8</b>	<b>12221</b>	<b>36.0</b>	<b>15</b>	<b>0</b>															
<b>Rails, Coot etc</b>	<b>268</b>	<b>0.4</b>	<b>94</b>	<b>0.3</b>	<b>22</b>	<b>0</b>															
<b>Waders</b>	<b>23416</b>	<b>34.6</b>	<b>12916</b>	<b>38.1</b>	<b>38</b>	<b>0</b>															
<b>Gulls and terns</b>	<b>6075</b>	<b>9.0</b>	<b>1081</b>	<b>3.2</b>	<b>0</b>	<b>0</b>															
<b>TOTAL</b>	<b>67731</b>		<b>33921</b>		<b>508</b>	<b>0</b>															
Date of count: 24 Jan 2010																					
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																					
* indicates counts could be overlapped and excluded in the total numbers.																					
<b>Wetland-dependant species</b>																					
<b>Species</b>	<b>SRA</b>	<b>SRB</b>	<b>DBA</b>	<b>DBB</b>	<b>DBC</b>	<b>DBD</b>	<b>DBE</b>	<b>DBF (TBT)</b>	<b>WEP</b>	<b>NW / LFS</b>	<b>TKC</b>	<b>LC</b>	<b>TSW</b>	<b>MPST</b>	<b>ST</b>	<b>MPNR</b>	<b>Ramsar ponds</b>	<b>Ramsar intertidal areas</b>	<b>Ramsar Site</b>	<b>DEEP BAY AREA</b>	<b>Starling Inlet</b>
Osprey			5	6												4			4	15	1
Black Kite	1	1	4					5	1		0	0	3	2	4	5	10	0	15	26	
White-bellied Sea Eag																1			1	1	
Eastern Marsh Harrier			3	1												4			4	8	
Common Buzzard	1										1			1		8	2		10	11	
Greater Spotted Eagle	1	0						0			0	0	0	1	1	3	1	0	4	6	
Imperial Eagle	1	0						0			0	0	0	0	0	5	0	0	5	6	
Peregrine Falcon	1			1												3			3	5	
Pied Kingfisher	1	1	4			2		0			1	0	0	1	1	0	2	2	4	11	2
Common Kingfisher	1	1	1					2	2		5	1	2	3	5	3	12	0	15	26	6
White-throated Kingfisher	1	0	3			1		1	1		4	1	0	2	1	9	7	1	17	24	3
Black-capped Kingfisher	0	0	2					0			0	0	0	0	0	0	0	0	0	2	1
Red-billed Starling	99	12	74					0			5	15	12	200	180	994	223	0	1217	1591	
Collared Crow	1	0	1					2	1		2	4	0	1	2	24	10	0	34	38	3

**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2009/10

Winter Count

February 2010

**Summary Report - February 2010**

The 2010 February waterbird count took place on 21<sup>st</sup>. This count completely covered the whole Deep Bay area, including the Mai Po Inner Deep Bay Ramsar site, the Hong Kong Wetland Park at Tin Shui Wai and Futian National Nature Reserve, Shenzhen, China. A supplementary low-tide count took place on the same day and counting was conducted at Tsim Bei Tsui police jetty and the Futian National Nature Reserve during the low-tide period.

A total of 63,311 waterbirds were recorded in the whole Deep Bay area, of which 39,336 (62%) were present within the Ramsar site. The largest waterbird count in this February count is comprised by shorebirds (or called waders) at 21,340 individuals (36%) and the second largest group is ducks in a similar figure of 20,557 (34%). Great Cormorants were counted at 10,758 individuals, higher than that of the previous month (i.e. 9045 individuals) and it is unusual because winter peak number is usually recorded in January. Low-tide count in this month could provide a higher count of Gulls and Terns. Details of both high and low tide counts are shown in table 1.

A comparison with previous year's count and the average for the month is provided in table 2. The figure of the whole Deep Bay area has a decrease of 19% from the previous year's figure but that was an exceptional high figure and this year's figure is still higher than the average figure in 28%. On the other hand, the figure of Ramsar site is higher than that of the figure of the previous year and the average in 43% and 19% respectively.

Table 1. Numbers of waterbirds in high-tide and low-tide Waterbird Count in the whole Deep Bay area, February 2010. Numbers in the parenthesis are the figures of the Ramsar site.

Groups	High-tide count	Low-tide count	Maximum figure
Cormorants	10,758 (4,690)	383 (0)	10,758 (4,690)
Ardeids	2,792 (1,791)	527 (163)	2,792 (1,791)
Ducks, grebes and pelicans	20,557 (12,896)	18,601 (8,731)	20,557 (12,896)
Rails and Coots	323 (249)	10 (0)	323 (249)
Waders	21,340 (16,902)	16,574 (2,884)	21,340 (16,902)
Gulls and terns	4,405 (2,808)	7,541 (946)	7,541 (2,808)
<b>Total</b>	<b>60,175 (39,336)</b>	<b>43,636 (12,724)</b>	<b>63,311 (39,336)</b>

Table 2. February waterbird counts 2006-2010.

	2006	2007	2008	2009	2010	Average *	Std. Dev.*
Deep Bay area	56,889	70,303	55,439	78,155	63,311	49,547	15,646
Ramsar Site	42,943	33,782	40,248	27,526	39,336	33,146	10,592

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

Summary of Waterbird Count, February 2010

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	WEP	NW/LFS	TKC	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			44	7	4	94				8						0		105	105	157	
Great Cormorant	97	103	5627					156	66		26	20	3	291	63	4306	384	0	4690	10758	18
Dalmatian Pelican																0			0	0	
Grey Heron	142	19	70	8		3	63	36	111	3	1	13	6	4	2	337	52	74	463	818	24
Purple Heron																0			0	0	
Great Egret	26	19	54	24		10		62	18	15	6	5	11	234	41	75	310	34	419	600	132
Intermediate Egret	1	0		7				0			0	0	0	2	0	1	2	7	10	11	
Little Egret	30	35	104	43		31		175	4	37	45	8	25	182	34	97	402	74	573	850	22
Swinhoe's Egret																0			0	0	
Pacific Reef Egret																0			0	0	
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	
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	
Falcatid 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																0			0	0	
Northern Pintail			20	2274			36		18							154		2310	2464	2502	
Garganey				14			4		12							0		18	18	30	
Northern Shoveler			1748	3741	70		1									589		3812	4401	6149	
Common Pochard																0			0	0	
Baer's Pochard																0			0	0	
Tufted Duck	1	7	343		3000	850		27								643		3850	4493	4871	
Greater Scaup																1			1	1	
Red-breasted Merganser																0			0	0	
Duck sp.			4910	500												0		500	500	5410	
Slaty-breasted Rail				1												0		1	1	1	
Water Rail																0			0	0	
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			53														0		0	75	
Pied Avocet			2002	11878					2								1	11878	11879	13883	
Oriental Pratincole																	0		0	0	
Northern Lapwing																	0		0	0	
Grey-headed Lapwing																	0		0	0	
Pacific Golden Plover																	0		0	0	
Grey Plover				120													0	120	120	120	
Common Ringed Plover				1													0		1	1	
Little Ringed Plover	5	2	2	11				3	17	12	12	0	0	5	2	9	17	11	37	80	
Kentish Plover			1495	1026*													0		0	1495	
Lesser Sand Plover				2													0	2	2	2	
Greater Sand Plover																	0		0	0	
Black-tailed Godwit				722													0	722	722	722	
Bar-tailed Godwit				1													0	1	1	1	
Whimbrel										6							0		0	6	
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							0		16	19	
Long-toed Stint																	0		0	0	
Pectoral Sandpiper																	0		0	0	
Sharp-tailed Sandpiper																	0		0	0	
Dunlin				482													0	482	482	482	
Curlew Sandpiper																	0		0	0	
Spoon-billed Sandpiper																	0		0	0	
Broad-billed Sandpiper										1							0		0	1	
Ruff																	0		0	0	
Small wader spp.																	0		0	0	
Wader sp.																	0		0	0	
Black-tailed Gull				5													0	5	5	5	
Heuglin's Gull				121													0	121	121	121	
Yellow-legged Gull				3													0	3	3	3	

Slaty-backed Gull				2												0		2	2	2	
Pallas's Gull																0			0	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				74											0		74	74	74		
Whiskered Tern		1													0			0	1		
White-winged Tern															0			0	0		
Gull-billed Tern															0			0	0		
Caspian Tern				2											0		2	2	2		
<b>Total</b>	<b>388</b>	<b>274</b>	<b>18828</b>	<b>24040</b>	<b>3116</b>	<b>1215</b>	<b>121</b>	<b>545</b>	<b>712</b>	<b>205</b>	<b>167</b>	<b>370</b>	<b>290</b>	<b>782</b>	<b>188</b>	<b>8934</b>	<b>1911</b>	<b>28492</b>	<b>39336</b>	<b>60175</b>	253
	<b>Deep Bay Area</b>	<b>%</b>	<b>Ramsar Site</b>	<b>%</b>	<b>SI</b>																
<b>Cormorants</b>	<b>10758</b>	<b>17.9</b>	<b>4690</b>	<b>11.9</b>	<b>18</b>	<b>0</b>															
<b>Ardeids etc</b>	<b>2792</b>	<b>4.6</b>	<b>1791</b>	<b>4.6</b>	<b>178</b>	<b>0</b>															
<b>Ducks, grebes, pelicans</b>	<b>20557</b>	<b>34.2</b>	<b>12896</b>	<b>32.8</b>	<b>29</b>	<b>0</b>															
<b>Rails, Coot etc</b>	<b>323</b>	<b>0.5</b>	<b>249</b>	<b>0.6</b>	<b>27</b>	<b>0</b>															
<b>Waders</b>	<b>21340</b>	<b>35.5</b>	<b>16902</b>	<b>43.0</b>	<b>1</b>	<b>0</b>															
<b>Gulls and terns</b>	<b>4405</b>	<b>7.3</b>	<b>2808</b>	<b>7.1</b>	<b>0</b>	<b>0</b>															
<b>TOTAL</b>	<b>60175</b>		<b>39336</b>		<b>253</b>	<b>0</b>															
Date of count: 21 Feb 2010																					
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																					
* indicates counts could be involving same individuals in other areas and so not included in the total.																					
<b>Wetland-dependant species</b>																					
<b>Species</b>	<b>SRA</b>	<b>SRB</b>	<b>DBA</b>	<b>DBB</b>	<b>DBC</b>	<b>DBD</b>	<b>DBE</b>	<b>DBF (TBT)</b>	<b>WEP</b>	<b>NW/LFS</b>	<b>TKC</b>	<b>LC</b>	<b>TSW</b>	<b>MPST</b>	<b>ST</b>	<b>MPNR</b>	<b>Ramsar ponds</b>	<b>Ramsar intertidal areas</b>	<b>Ramsar Site</b>	<b>DEEP BAY AREA</b>	<b>Starling Inlet</b>
Osprey			3	2		1			1							1			1	8	
Black Kite	7	1	12	1				18	2		5	8	7	3	5	11	41	1	53	80	
White-bellied Sea Eag																0			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			0	0	0	0	0	1	0	0	1	1	
Imperial Eagle	1	0						0			0	0	0	0	1	2	0	0	2	4	
Peregrine Falcon																0			0	0	
Pied Kingfisher	0	0	2					0			0	0	0	0	1	2	0	0	2	5	1
Common Kingfisher	1	3						0	4		14	2	2	2	1	3	19	0	22	32	3
White-throated Kingfisher	0	1	2				1	4			0	0	1	1	0	2	6	1	9	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						0			6	415	62	131	82	50	564	0	614	835	10
Collared Crow	0	0	1					1	1		2	2	7	0	1	11	5	0	16	26	2

**WATERBIRD MONITORING PROGRAMME AT THE  
MAI PO INNER DEEP BAY RAMSAR SITE**

Programme 2009/10

Winter Count

March 2010

**Summary Report - March 2010**

The 2010 March waterbird count was conducted on 7<sup>th</sup>. This count completely covered the whole Deep Bay area, including the Mai Po Inner Deep Bay Ramsar site, the Hong Kong Wetland Park at Tin Shui Wai and Futian National Nature Reserve, Shenzhen, China.

A total of 32,976 waterbirds were counted in the whole Deep Bay area, of which 20,357 (62%) waterbirds were present in the Ramsar site area. The largest waterbird group in this count was comprised by shorebirds at 16,947 individuals and the second largest was ducks, grebes and pelicans at 5,124 individuals. Comparing to the figures of these waterbird groups in the previous month, many wintering ducks had started their northward migration back to their breeding ground (2010 Feb: 20,557 individuals) but some shorebirds still remained in Deep Bay (2010 Feb: 21,340) in this month.

A comparison with previous year's count and the average for the month is provided in table. The figure of the whole Deep Bay area is similar to the same figure of the previous year and it is higher than the average figure in 27%. On the contrary, the figure of the Ramsar site is decreased marginally by 3% from the previous year's figure and still higher than the average figure in 14%.

Table 1. March waterbird counts 2006-2010.

	2006	2007	2008	2009	2010	Average *	Std. Dev.*
Deep Bay area	25,207	36,606	55,156	32,515	32,976	26,026	12,209
Ramsar Site	18,963	23,711	30,324	21,764	20,357	17,574	7,725

\* Figures of average and the SD are calculated from the count since 1998 to the latest count.

Summary of Waterbird Count, March 2010

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW/LFS	WEP	TKC	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	0	20	0	20	47	
Chinese Pond Heron	15	9	4	1				1	1	21	1	2	10	22	10	29	29	1	40	97	
Striated Heron	0	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	0	1	1	0	2	19	
Yellow Bittern	0	0						0		0	0	0	0	0	0	0	0	0	0	0	
Cinnamon Bittern																0			0	0	
Great Bittern	2															0			0	2	
Black Stork																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																17			17	17	
Eurasian Wigeon	95	0	33	323		1	41	0		20	0	0	0	0	0	94	0	365	459	607	
Falcatad Duck																0			0	0	
Gadwall																0			0	0	
Baikal Teal																0			0	0	
Common Teal	9	0	90	129				0		8	0	0	0	0	0	25	0	129	154	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	



