Taxonomic List

Noteworthy fauna:

The breeding birds on the Tipperne reserve are monitored annually. Other parts of the Ramsar site are only monitored occasionally, with variable focus on different species, depending on the NOVANA programmes target species for the year.

The Tipperne data are reported in annual newsletters – and the recent one witnesses continued problems with declining wader populations, which seems to be linked to a combination of high predation pressure and a five-year run of years with drought during the breeding seasons. The table given below is summarizing some of the data and the development since the 1970s (Thorup & Laursen 2011).

	Average num	Average numbers of breeding pairs in period						
	1975-1984	1985-1994	1995-2004	2005-2009	2010	2011		
Anas strepera	3	4	2	1	2	4		
Anas platyrhynchos	30	44	50	65	57	43		
Anas querquedula	6	6	4	2	0-1	1		
Anas acuta	15	18	6	1	2	2		
Anas clypeata	16	31	7	4	6	2		
Circus aeruginosus	1	2	2	1	2	2		
Haematopus ostralegus	8	18	13	8	8	7		
Recurvirostra avocetta	252	345	97	68	46	28		
Pluvialis apricaria	0	0	0	0	0	1		
Vanellus vanellus	112	192	128	128	100	114		
Calidris alpina schinzii	15	115	82	33	22	25		
Philomachus pugnax	93	160	75	40	32	20		
Philomachus pugnax	55	78	30	20	10	11		
Gallinago gallinago	15	16	4	4	2	2		
Limosa limosa	81	153	101	72	67	74		
Numenius arquata	0	0	1	5	3	3		
Tringa totanus	98	507	515	174	74	103		
Larus ridibundus	174	289	5	2	1	0		
Larus canus	5	3	2	2	0	0		
Sterna paradiseae	50	90	24	10	4	1		

Breeding waterbirds: The table below gives the most recent information about breeding waterbirds in the whole Ramsar site. Published and unpublished data from the NOVANA programme of the Ministry of Environment and DCE, supplemented with data from the Birdlife Denmark citizen science portal DOFbasen on selected breeding species covered by the EEC Birds Directive Annex 1. Numbers given are annual breeding populations of the species listed. Counting intensity varies over the years. Note: 0 does not necessarily mean the species was absent – rather not counted/reported

		Breeding population (in pairs)						
Species \ Year	2004	2005	2006	2007	2008	2009		
Phalacrocorax carbo	2318	1919	1505	1974	2631	1834		
Botaurus stellaris	3	4	2	3	7	3		
Platalea leucorodia	6	7	14	17	21	21		
Circus aeruginosus	4	6,5	3,5	1,5	2	3		
Porzana porzana	1	1	1	1	1	1		
Crex crex	0	0	0	0	1	1		
Recurvirostra avosetta	130	117	62	43	63	129		
Calidris alpina	68,5	45	40	58	0	0		
Philomachus pugnax	60	55	50	11	51	37		
Sterna sandvicensis	0	400	0	0	0	0		
Sterna paradisaea	0	11	16	0	0	0		
Sterna albifrons	0	0	0	0	0	0		
Asio flammeus	0	0	0	0	0	0		
Luscinia svecica	0	0	1	0	4	1		

Note: this site has not been subject to intensive monitoring programmes for all species/all years. Missing tern *Sterna* numbers in table might thus represent missing coverage rather than absence of these species some years. "Half pairs" represents a range, 0,5 pair is this 0-1 pair.

Migratory waterbirds: Table giving the most recent information about staging waterbirds in the Ramsar site. Published and unpublished data from the NOVANA programme of the Ministry of Environment and DCE, supplemented with data from the Birdlife Denmark citizen science portal DOFbasen on migratory species of national responsibility (for details see Miljø- og Energiministeriet, Skov- og Naturstyrelsen 1999), and selected migrant species (e.g. some raptors and Charadrius morinellus) covered by

the EEC Birds Directive Annex 1. Numbers given are annual maxima of the species listed. Counting intensity varies over the years. Note: 0 does not necessarily mean the species was absent – rather not counted/reported. Averages are thus computed based on years with numbers reported.

	Annual Maxima						Average
Species \ Year	2004	2005	2006	2007	2008	2009	
Gavia stellata	0	6	1	1	0	1	2
Gavia arctica	0	1	0	1	1	0	1
Gavia immer	0	0	0	0	1	0	1
Podiceps cristatus	151	206	344	357	218	160	239
Podiceps grisegena	2	3	1	2	2	14	4
Podiceps auritus	7	0	0	1	0	1	3
Phalacrocorax carbo	477	2643	2509	3270	5604	2478	2830
Botaurus stellaris	1	1	1	1	0	2	1
Ardea cinerea	42	5	1	8	24	1	14
Platalea leucorodia	41	72	54	64	114	92	73
Cygnus olor	1461	1164	1422	1292	1276	2032	1441

Cygnus columbianus	290	508	500	200	372	250	353
Cygnus cygnus	1040	2251	2000	1396	1123	701	1419
Anser fabalis	2	10	45	0	18	6	16
Anser fabalis rossicus	2	0	29	0	0	8	13
Anser brachyrhynchus	8500	6082	8380	7055	5500	5300	6803
Anser albifrons albifrons	0	0	272	59	92	229	163
Anser albifrons flavirostris	1	0	0	0	0	0	1
Anser erythropus	0	1	0	0	0	0	1
Anser anser	3605	2113	2975	2090	3353	3909	3008
Branta canadensis	3	100	161	72	32	2	62
Branta leucopsis	7000	15000	10000	30000	12200	13000	14533
Branta bernicla	0	0	0	23	1530	1	518
Branta bernicla bernicla	932	780	711	873	1530	572	900
Branta bernicla brota	1	2	6	300	1	5	53
Branta ruficollis	1	1	0	0	0	3	2
Tadorna tadorna	400	433	144	165	283	330	293
Anas penelope	10442	12614	18342	9401	3410	5019	9871
Anas strepera	51	94	100	126	25	8	67
Anas crecca	6131	4278	5136	5307	2175	5005	4672
Anas platyrhynchos	3108	2678	2336	2307	2120	1080	2272
Anas acuta	1094	731	1015	1434	1009	835	1020
Anas querquedula	3	0	2	0	2	3	3
Anas clypeata	374	506	538	248	213	200	347
Aythya ferina	195	200	613	250	243	262	294
Aythya fuligula	480	330	1070	455	1000	998	722
Aythya marila	42	3	150	10	17	17	40
Somateria mollissima	0	3	2	7	0	4	4
Melanitta nigra	5	300	8	12	1	21	58
Melanitta fusca	0	15	0	0	0	3	9
Bucephala clangula	1150	1035	1950	716	1310	530	1115
Mergus albellus	31	20	41	21	22	29	27
Mergus serrator	515	730	425	264	895	1100	655
Mergus merganser	219	60	84	80	134	59	106
Haliaeetus albicilla	4	3	4	1	3	4	3
Circus aeruginosus	6	9	8	4	7	10	7
Circus cyaneus	24	11	30	13	16	14	18
Circus pygargus	0	1	0	0	0	0	1
Pandion haliaetus	2	3	1	1	4	5	3
Falco vespertinus	0	0	1	0	0	0	1
Falco columbarius	4	3	2	2	1	3	3

Haematopus ostralegus	Falco rusticolus	1	0	0	1	0	0	1
Haematopus estralegus	Falco peregrinus	3	4	3	2	3	4	3
Recursiristra avosetta	Fulica atra	2200	2400	2810	4200	2400	4340	3058
Charadrius morinellus	Haematopus ostralegus	12	7	25	9	11	12	13
Pluvialis apricaria 7600 8500 4200 10000 5800 10600 77 77 77 77 78 78 78	Recurvirostra avosetta	948	779	628	466	2020	1150	999
Pluvialis squatarola	Charadrius morinellus	7	46	25	58	28	73	40
Vanellus vanellus 1637 1508 1225 953 1378 1163 13 Calidris canutus 540 496 682 323 331 121 4 Calidris alba 12 134 143 89 77 100 Calidris alpina 6300 4000 2447 3600 4950 5350 44 Philomachus pugnax 41 16 19 55 119 134 Lymnocryptes minimus 0 0 1 0 0 0 Gallinago gallinago 247 29 245 43 169 71 1 Gallinago media 1 0 0 0 0 0 0 0 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64	Pluvialis apricaria	7600	8500	4200	10000	5800	10600	7783
Calidris canutus 540 496 682 323 331 121 4 Calidris alba 12 134 143 89 77 100 Calidris ferreginea 7 25 2 3 2 2 Calidris alpina 6300 4000 2447 3600 4950 5350 44 Philomachus pugnax 41 16 19 55 119 134 Lymnocryptes minimus 0 0 1 0 0 0 Gallinago gallinago 247 29 245 43 169 71 1 Gallinago media 1 0 0 0 0 0 0 Limosa limosa 26 52 37 30 30 15 1 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161	Pluvialis squatarola	58	85	5	31	38	24	40
Calidris alba 12 134 143 89 77 100 Calidris ferruginea 7 25 2 3 2 2 Calidris alpina 6300 4000 2447 3600 4950 5350 44 Philomachus pugnax 41 16 19 55 119 134 Lymnocryptes minimus 0 0 1 0 0 0 Gallinago gallinago 247 29 245 43 169 71 1 Gallinago media 1 0 0 0 0 0 0 Limosa limosa 26 52 37 30 30 15 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius arquata 67 44 237 64 155 88 1 Tringa totanus 912 865 758 363 376 301 5	Vanellus vanellus	1637	1508	1225	953	1378	1163	1311
Calidris ferroginea 7 25 2 3 2 2 Calidris alpina 6300 4000 2447 3600 4950 5350 44 Philomachus pugmax 41 16 19 55 119 134 Lymnocryptes minimus 0 0 1 0 0 0 Gallinago gallinago 247 29 245 43 169 71 1 Gallinago media 1 0 0 0 0 0 0 Limosa limosa 26 52 37 30 30 15 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 T	Calidris canutus	540	496	682	323	331	121	416
Calidris alpina 6300 4000 2447 3600 4950 5350 44 Philomachus pugnax 41 16 19 55 119 134 Lymnocryptes minimus 0 0 1 0 0 0 Gallinago gallinago 247 29 245 43 169 71 1 Gallinago media 1 0 0 0 0 0 0 Limosa limosa 26 52 37 30 30 15 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301	Calidris alba	12	134	143	89	77	100	93
Philomachus pugnax 41 16 19 55 119 134 Lymnostyptes minimus 0 0 1 0 0 0 Gallinago gallinago 247 29 245 43 169 71 1 Gallinago media 1 0 0 0 0 0 0 Limosa limosa 26 52 37 30 30 15 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erysthropus 43 34 72 25 22 61 Tringa nebularia 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7	Calidris ferruginea	7	25	2	3	2	2	7
Lymnocyptes minimus 0 0 1 0 0 0 Gallinago gallinago 247 29 245 43 169 71 1 Gallinago media 1 0 0 0 0 0 0 Limosa limosa 26 52 37 30 30 15 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1	Calidris alpina	6300	4000	2447	3600	4950	5350	4441
Gallinago gallinago 247 29 245 43 169 71 1 Gallinago media 1 0 0 0 0 0 Limosa limosa 26 52 37 30 30 15 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1 2 1 Sterna sandvicensis 1 0 0 0 0 0	Philomachus pugnax	41	16	19	55	119	134	64
Gallinago media 1 0 0 0 0 Limosa limosa 26 52 37 30 30 15 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 <	Lymnocryptes minimus	0	0	1	0	0	0	1
Limosa limosa 26 52 37 30 30 15 Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1 Sterna caspia 3 1 3 6 7 4 Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Gallinago gallinago	247	29	245	43	169	71	134
Limosa lapponica 1490 1094 3352 2066 1900 2180 20 Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1 Sterna caspia 3 1 3 6 7 4 Sterna sandvicensis 1 0 0 0 0 0 Sterna paradisaea 0 0 0 3 0 0	Gallinago media	1	0	0	0	0	0	1
Numenius phaeopus 14 9 82 1 35 161 Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1 Sterna caspia 3 1 3 6 7 4 Sterna sandvicensis 1 0 0 0 0 0 Sterna paradisaea 0 0 0 3 0 0	Limosa limosa	26	52	37	30	30	15	32
Numenius arquata 67 44 237 64 155 88 1 Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Pbalaropus lobatus 1 1 2 1 2 1 Sterna caspia 3 1 3 6 7 4 Sterna sandvicensis 1 0 0 0 0 0 Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Limosa lapponica	1490	1094	3352	2066	1900	2180	2014
Tringa erythropus 43 34 72 25 22 61 Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1 Sterna caspia 3 1 3 6 7 4 Sterna sandvicensis 1 0 0 0 0 0 Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Numenius phaeopus	14	9	82	1	35	161	50
Tringa totanus 912 865 758 363 376 301 5 Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1 Sterna caspia 3 1 3 6 7 4 Sterna sandvicensis 1 0 0 0 0 0 Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Numenius arquata	67	44	237	64	155	88	109
Tringa nebularia 285 1178 829 556 626 833 7 Phalaropus lobatus 1 1 2 1 2 1 Sterna caspia 3 1 3 6 7 4 Sterna sandvicensis 1 0 0 0 0 0 Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Tringa erythropus	43	34	72	25	22	61	43
Phalaropus lobatus 1 1 2 1 2 1 Sterna caspia 3 1 3 6 7 4 Sterna sandvicensis 1 0 0 0 0 0 Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Tringa totanus	912	865	758	363	376	301	596
Sterna caspia 3 1 3 6 7 4 Sterna sandvicensis 1 0 0 0 0 0 Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Tringa nebularia	285	1178	829	556	626	833	718
Sterna sandvicensis 1 0 0 0 0 0 Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Phalaropus lobatus	1	1	2	1	2	1	1
Sterna birundo 7 0 1 25 5 1 Sterna paradisaea 0 0 0 3 0 0	Sterna caspia	3	1	3	6	7	4	4
Sterna paradisaea 0 0 0 3 0 0	Sterna sandvicensis	1	0	0	0	0	0	1
	Sterna hirundo	7	0	1	25	5	1	8
Sum of angual maxima 70302 76316 79247 90862 65730 71095	Sterna paradisaea	0	0	0	3	0	0	3
7002 7000 7000 7000	Sum of annual maxima	70302	76316	79247	90862	65730	71095	