

Annex 3a. National midwinter counts and estimates of wader species numbers, used to generate best estimates for 1990s midwinter population sizes

Countries for which no data are available have been highlighted with light shading. The species likely to be present in more than trivial numbers in these countries are indicated by "???" in the appropriate cell. Other species are thought not to occur in these countries or only in very small numbers.

Country	<i>D. ardeola</i>	<i>H. ostralegus</i>	<i>H. himantopus</i>	<i>R. avosetta</i>	<i>P. apricaria</i>	<i>P. squatarola</i>	<i>Ch. alexandrinus</i>	<i>C. hiaticula</i>	<i>V. vanellus</i>	<i>L. limosa</i>	<i>L. lapponica</i>	<i>N. phaeopus</i>	<i>N. tenuirostris</i>	<i>N. arquata</i>
EUROPE														
ICELAND		3,000												100
FAEROES														
ESTONIA														
LATVIA		1								1				
SWEDEN		50			150	3			150					125
NORWAY														???
POLAND										2				
GERMANY: Baltic (Schleswig-Holstein & Meckleburg-Vorpommern)		45				15					2			1,110
DENMARK (Waddensea only)		29,000			2,500	500		2	200		1,500			2,500
GERMANY: Schleswig-Holstein, Waddensea		80,277			1,133	2,586		39	33		7,764			24,717
GERMANY: Niedersachsen, Waddensea		141,557			38	1,750	7,274		15	831	1	415		62,654
NETHERLANDS		290,000		1,000	37,500	27,000		200	112,500	250	22,000			130,000
BELGIUM		2,250		150	6,000	470		35	50,000		30			5,000
UNITED KINGDOM		350,834	1	2,152	101,608	49,347	1	29,387	317,948	10,698	66,517	10		130,703
IRELAND		50,000			120,000	5,000		8,000	200,000	8,000	10,000	3		25,500
FRANCE		44,500	15	17,700	20,000-100,000	24,800	250	12,000	1,000,000 – 2,000,000	5,700	6,500	100		18,500
CZECH REPUBLIC														5
SLOVAKIA										4				26
HUNGARY						104			572					37
AUSTRIA														15
ITALY		15	200	8,000	2,000	1,800	3,000	200	50,000	100	10	5		2,000
SPAIN		1,985	2,005	13,987	5,782	5,799	4,500	2,470	48,290	23,992	394	152		3,075

Country	<i>D. ardeola</i>	<i>H. ostralegus</i>	<i>H. himantopus</i>	<i>R. avosetta</i>	<i>P. apricaria</i>	<i>P. squatarola</i>	<i>Ch. alexandrinus</i>	<i>C. hiaticula</i>	<i>V. vanellus</i>	<i>L. limosa</i>	<i>L. lapponica</i>	<i>N. phaeopus</i>	<i>N. tenuirostris</i>	<i>N. arquata</i>
PORTUGAL		893	976	11,189	365	7,969	2,982	4,770	1,860	40,107	3,646	151		2,467
SLOVENIA							14		90					
CROATIA						48	24	4	420	1	2			200
YUGOSLAVIA									468					35
BOSNIA -HERZEGOVINA														
ROMANIA		1			5									15
GREECE		100	12	3,266	661	614	1,444	26	4,331	17	2			1,559
ALBANIA		32		3,175	768	312	525	137	5,894	155			5	709
UKRAINE				3		254			3	2				75
CYPRUS				8	12	5	93	4	148					10
BULGARIA		2		155	7	23	2		297					12
TURKEY		9	3	903	691	166	738	98	1,826	678		1		540
Total Europe		994,551	3,212	61,726	290,649	134,089	13,573	57,387	974,818	89,701	117,182	412	5	411,689

AFRICA

MOROCCO (north of 28°N)		965	1,790	6,587	6,126	4,435	3,000	14,878	2,494	12,076	573	155		802
MOROCCO (south of 28°N)		1,516	57	3	1	1,893	2,000	4,964	2	56	7,192	49		144
LIBYA		???	???	???		???	???	???	???	???	???	???		???
ALGERIA		70	222	214		11		38	2,016	26				72
TUNISIA		2,035	755	3,794		9,494	9,286	306	243	13,222	791	342		935
EGYPT		1,000	200	22,000		2,100	11,000	1,000	5,000	2,000	100	10		500
CANARY ISLANDS (Spain)						300	400	200		50	50	100		
CAPE VERDE ISLANDS			75			3	50	5	2			2		
MAURITANIA		5,084	1,482	1,853		15,880	7,000	60,648		6,106	348,994	15,695		6,689
MALI			2,179	58		3	2	1,470		19,423				87
NIGER			27,403	459			351	203		5,735				6
CHAD			4,172	409				10		13,074				
SUDAN			135	75			5	175		181				4
ERITREA	28	362					7	458		7	1,192	165		448
SENEGAL		6,090	3,042	4,121		4,783	4,000	9,061		5,316	3,811	4,950		1,166
BURKINO FASO			445											
GAMBIA		50	1,000	500		100	250	750		500	400	300		50
REUNION						12		1			5	55		2
GUINEA		1,000	900	16,000		28,000	3,500	68,000		18,000	35,000	36,000		

Country	<i>D. ardeola</i>	<i>H. ostralegus</i>	<i>H. himantopus</i>	<i>R. avosetta</i>	<i>P. apricaria</i>	<i>P. squatarola</i>	<i>Ch. alexandrinus</i>	<i>C. hiaticula</i>	<i>V. vanellus</i>	<i>L. limosa</i>	<i>L. lapponica</i>	<i>N. phaeopus</i>	<i>N. tenuirostris</i>	<i>N. arquata</i>
GUINEA-BISSAU		7,100				39,100	9,000	26,300			108,700	22,000		9,300
SIERRA LEONE						7,232	216	648		8	2,776	1,288		
LIBERIA			10,000			300	50	750			50	1,200		
IVORY COAST			20			32		2				22		
GHANA		31	1,536	1,489		1,510	6	6,159		1,395	304	465		47
TOGO			69			75	2	115		2	133	133		9
BENIN			1,050	62		39	4	226		97		141		10
NIGERIA			836	30			1,000			2,628				
CAMEROON			250	300		1,500	250	1,500				2,000		
DEMOCRATIC REPUBLIC OF CONGO														
CENTRAL AFRICAN REPUBLIC			500	10			500	50		50				10
RWANDA			60	35				8						
ETHIOPIA			1,296	10,688			2	24		86				1
DIJIBOUTI			???	???				???		???				
SOMALIA			???	???				???		???				
EQUATORAL GUINEA			???	???		???	???	???			???	???		???
GABON						7,175		2,187			5,087	4,100		442
BURUNDI			111	61		8	2			54		31		3
UGANDA			823	40			4	32		714				1
KENYA	857	1	2,998	3,449		503	15	1,019	1	188	97	468		177
ANGOLA			1,000	500		1,000		550		100	500	1,000		50
ZAMBIA			500	20				50		2,500				
TANZANIA	6,059		35,000	13,500		12,500		20,000		9,000	3,500	35,000		
MOZAMBIQUE	23		12,000	700		30,000		15,200			7,000	30,000		300
NAMIBIA			2,300	3,000		6,000		800			3,000	200		50
BOTSWANA			3,000	3,000				100		10				
MALAWI			71	2				29						
SWAZILAND			100	10				10						
ZIMBABWE			400	50				50		5				
MADAGASCAR	160		7,500	0		5,500		7,500		500	2,750	7,500		2,750
SOUTH AFRICA	2		13,000	12,000		9,000		5,500		10	400	3,000		510
LESOTHO														
MAURITIUS						48		3			4	47		
Total Africa	7,129	25,304	138,277	105,019	6,127	188,536	51,902	250,979	9,758	113,119	532,409	166,418	0	24,565

Country	<i>D. ardeola</i>	<i>H. ostralegus</i>	<i>H. himantopus</i>	<i>R. avosetta</i>	<i>P. apricaria</i>	<i>P. squatarola</i>	<i>Ch. alexandrinus</i>	<i>C. hiaticula</i>	<i>V. vanellus</i>	<i>L. limosa</i>	<i>L. lapponica</i>	<i>N. phaeopus</i>	<i>N. tenuirostris</i>	<i>N. arquata</i>
MIDDLE EAST														
AZERBAIJAN			300	736	1,000	253	1	374	3,126	561				114
BAHREIN		61	68			676	1,934	559	5	122	1,049	110		648
IRAN	410	10,500	2,750	2,000	750	94	7,500	4,250	30,000	12,500	30,000	175		20,000
IRAQ		60	666	1,126	53	13	7,682	108	208	3,380	110	5	6	520
ISRAEL			847	442		62	60	224	2,755	272	3			1
JORDAN			1	17			117		37					
KUWAIT	611	138	5	55		64	410	33			137	525		786
OMAN	3,690	2,025	131	76		1,389	1,459	214	5	22	4,343	5		1,420
QATAR		7	4			40	281	8		1	61	149		51
SAUDI ARABIA	2,185	1,000	657	427		7,000	2,968	8,000	6	5,000	6,000	104		6,000
UNITED ARAB EMIRATES	861	406	144	5		1,572	2,079	526	3	94	3,365			339
YEMEN			230	26			2			8	8			1
Total Middle East	7,757	14,197	5,803	4,910	1,803	11,163	24,493	14,296	36,145	21,960	45,076	1,073	6	29,880
Total: Europe, Africa, Middle East	14,886	1,034,052	147,292	171,655	298,579	333,788	89,968	322,662	1,020,721	224,780	694,667	167,903	11	466,134
Note. <i>Ch alexandrinus</i> totals from Meininger (WSG wader atlas draft)														

Annex 3b. National midwinter counts and estimates of wader species numbers, used to generate best estimates for 1990s midwinter population sizes

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Country	<i>T. erythropus</i>	<i>T. totanus</i>	<i>T. stagnatilis</i>	<i>T. nebularia</i>	<i>T. ochropus</i>	<i>T. glareola</i>	<i>X. cinereus</i>	<i>A. hypoleucos</i>	<i>A. interpres</i>	<i>C. canutus</i>	<i>C. alba</i>	<i>C. minuta</i>	<i>C. temminckii</i>	<i>C. ferruginea</i>	<i>C. maritima</i>	<i>C. alpina</i>	<i>L. falcinellus</i>	<i>P. pugnax</i>	<i>P. lobatus</i>	<i>P. fulicarius</i>
EUROPE																				
ICELAND		200							2,000						5,000					
FAEROES									1,400						1,000					
ESTONIA										5					100					
LATVIA									1											
SWEDEN		60							3		3				1,000	1,750				1
NORWAY		???							5,000 ¹						[40,000-80,000] ²					
POLAND		3				1			1	25	5									
GERMANY: Baltic (Schleswig-Holstein & Meckleburg-Vorpommern)		42		3					5	1	30					1,500				
DENMARK (Waddensea only)		2,000					2		15	4,600	300				75	19,000		5		
GERMANY: Schleswig-Holstein, Waddensea	406	2,364							305	10,781	61			1		19,422				
GERMANY: Niedersachsen, Waddensea	1	3,039		1	6				815	107	1,093			1	14	23,293		1		
NETHERLANDS	50	11,000		5	300			30	5,300	90,000	4,000				305	135,000		1,300		
BELGIUM	30	270			50			20	1,100	30	350				120	2,850		3,000		
UNITED KINGDOM	86	113,547		269	73	1		24	66,520	29,1,591	23,236	4		1	21,300	574,780		346		
IRELAND	13	13,500		500	6			3	2,400	25,000	2,750	1		2	1,750	100,000		11		
FRANCE	250	4,000	5	100-150	200-300	10		500-1,000	9,000	26,700	8,000	1,500	15	40	1,500-2,300	292,000		200-300		
CZECH REPUBLIC					10			1												

¹ Estimate whole country total for 1980-1993 from Nygård 1994.

² Estimate whole country total for 1980-1993 from Nygård 1994.

Country	<i>T. erythropus</i>	<i>T. totanus</i>	<i>T. stagnatilis</i>	<i>T. nebularia</i>	<i>T. ochropus</i>	<i>T. glareola</i>	<i>X. cinereus</i>	<i>A. hypoleucos</i>	<i>A. interpres</i>	<i>C. canutus</i>	<i>C. alba</i>	<i>C. minuta</i>	<i>C. temminckii</i>	<i>C. ferruginea</i>	<i>C. maritima</i>	<i>C. alpina</i>	<i>L. falcinellus</i>	<i>P. pugnax</i>	<i>P. lobatus</i>	<i>P. fulvicarius</i>
SLOVAKIA					13			2												
HUNGARY					7			1											1	
AUSTRIA					21			4												
ITALY	700	2,400	5	150	100			400	50	80	150	3,000	10	5		50,000		100		
SPAIN	1,160	3,308		517	292	87		742	1,039	95	1,332	8,630	10	952	342	41,035		1,628		
PORTUGAL	48	4,575		130					958	502	440	1,309		143		53,224		82		
SLOVENIA	50	41			2			4								200				
CROATIA	1	441		1	48			11				3				267				
YUGOSLAVIA					47	20		113								1				
BOSNIA -HERZEGOVINA		11						5												
ROMANIA		5			15				1		5					30				
GREECE	46	2,654		21	14	10		6		32	21	1,800				7,953		6		
ALBANIA	200	1,575		62	17			8	6		37	1,406	5			5,250		80		
UKRAINE					5					55	5					187		60		
CYPRUS		89			1	1		46				47				16		2		
BULGARIA		10			22			2	7		13	65				77				
TURKEY	48	1,487	4	26	7	14		3	8	40	21	2,512	4	10		4,507		26		
Total Europe	3,089	166,621	14	1,755	1,657	145	0	2,075	93,934	449,644	41,852	20,277	44	1,155	32,506	1,332,342	0	6,803	0	1

AFRICA

MOROCCO (north of 28°N)	58	1,542		58	27	24		301	1,035	806	1,461	16,617		497		46,638		152		
MOROCCO (south of 28°N)	6	711		111		31		2	555	8,405	3,935	475		272		10,200		25		
LIBYA	???	???		???				???	???		???	???		???		???		???		
ALGERIA	146	221		39				135			526	237						26		
TUNISIA	125	2,238		118					1,164		3,000	8,297		7,100		50,548		206		
EGYPT	100	10,000	200	200	500	1,000		500	100		1,000	30,000	100	10		30,000		5,000	10	
CANARY ISLANDS (Spain)		100							300		300					200				
CAPE VERDE ISLANDS		4		6				1	75		150	10		100						
MAURITANIA	216	107,279		4,252					7,702	259,358	21,580	15,306		238,802		948,776		7,909		
MALI	1,153	3	18	518	3	87		17	13		1	8,597	1	1,094				42,993		
NIGER	17,543	3,224	3,170	2,013	448	9,992		1,046				27,179	67	232		2		93,768		
CHAD	25	23	79	9	9	194		4				457		7				75,318		

Country	<i>T. enythropus</i>	<i>T. totanus</i>	<i>T. stagnatilis</i>	<i>T. nebularia</i>	<i>T. ochropus</i>	<i>T. glareola</i>	<i>X. cinereus</i>	<i>A. hypoleucos</i>	<i>A. interpres</i>	<i>C. canutus</i>	<i>C. alba</i>	<i>C. minuta</i>	<i>C. temminckii</i>	<i>C. ferruginea</i>	<i>C. maritima</i>	<i>C. alpina</i>	<i>L. falcinellus</i>	<i>P. pugnax</i>	<i>P. lobatus</i>	<i>P. fulvicaeus</i>
SUDAN						7	928	83	2			1093		219				1,138		
ERITREA		1,449		156				2,900	731		269	674		2,203		10		4		
SENEGAL	87		100	1,241						3,910	3,591	20,549		16,981		827		118,759		
BURKINO FASO																		552		
GAMBIA	10	10		200				1	250		500	2,000		3,000		200		200		
REUNION			1	18	2	3		2	23	12	1	1		98						
GUINEA	50	48,000		8,300					5,500	8,000	5,000	8,500		94,000						
GUINEA-BISSAU		38,400		1,400					7,900	31,300	24,300	59,700		326,500		710				
SIERRA LEONE				680				[9,200] ⁴		20,000	8,056	2,808		30,072						
LIBERIA		950		3,000				[25,000-30,000] ⁵		100	300	200	50	650						
IVORY COAST	1		13	6	10	54	1	27				19				18				
GHANA	8,314	119	77	5,279		124		398	230	74	4,716	12,353		19,503				60		
TOGO	33	3		87	5	151	1	44	6			11		2		37				
BENIN	149	20	162	411	182	1,371		197	10		24	56		24				77		
NIGERIA	1,659	389	60	79	7	74		119				199	93	2				43,113		
CAMEROON	100	100		4,000							3,000	2,000		15,000						
DEMOCRATIC REPUBLIC OF CONGO																				
CENTRAL AFRICAN REPUBLIC		100	100	500	100	1,000		500			50	100	100	100				500		
RWANDA			6		4	15		26										19		
ETHIOPIA		1	61	10	6	14		18				22,745	7	219				27,014	8	
DIJIBOUTI								???				???		???				???		
SOMALIA								???				???		???				???		
EQUATORAL GUINEA	???	???		???				???	???	???	???	???		???						
GABON		525		1,812				77	365	1,167	13,087			14,112						
BURUNDI	30	4	29	48	15	137		20	5		12	28		7				851		
UGANDA	31	1	35	42	7	300	390	68				783		40				244		
KENYA	12	4	707	288	75	342	10	548	390		683	9,615	87	1,717				4,463	2	
ANGOLA			1,500	5,000	1,000	28,000		11,000	5,000	200	3,000	12,000		10,500				21,000		
ZAMBIA			1,000	2,000		40,000		5,000				3,000		1,000				15,000		
TANZANIA				7,000			6,000		2,000		8,000	120,000		90,000				100,000		

³ 250,000-500,000 – Niklaus in Summers *et al.* (1987)

⁴ Tye (1987)

⁵ 1980s totals from Gatter (1988)

Country	<i>T. erythropus</i>	<i>T. totanus</i>	<i>T. stagnatilis</i>	<i>T. nebularia</i>	<i>T. ochropus</i>	<i>T. glareola</i>	<i>X. cinereus</i>	<i>A. hypoleucos</i>	<i>A. interpres</i>	<i>C. canutus</i>	<i>C. alba</i>	<i>C. minuta</i>	<i>C. temminckii</i>	<i>C. ferruginea</i>	<i>C. maritima</i>	<i>C. alpina</i>	<i>L. falcinellus</i>	<i>P. pugnax</i>	<i>P. lobatus</i>	<i>P. fulvicarius</i>
MOZAMBIQUE			3,500	35,000	70	10,000	5	15,000	15,000	50	15,000	17,000		55,000				2,000		
NAMIBIA			700	2,300		10,050		3,100	12,000	500	35,000	10,000		26,000				8,200		
BOTSWANA			3,000	3,000		20,000		5,000				10,000		1,000				10,000		
MALAWI		3	10	25	19	107		77	1			28		15				62		
SWAZILAND			200	500		2000		500				1,000		1,000				500		
ZIMBABWE			1,000	1,000		30,000		10,000				3,000		1,000				5,000		
MADAGASCAR				2,750		5,500	1,000		27,500		750	5,500						500		
SOUTH AFRICA			6,000	14,000	10	51,000		12,000	17,000	6,000	60,000	50,000		90,000				45,000		
LESOTHO				20		200	13	100				100						200		
MAURITIUS				17				1	72		12	3		922						
Total Africa	14,871	212,631	18,695	105,665	2,067	202,167	8349	65,035	104,641	339,080	205,384	468,652	505	1,048,787	0	1,088,166	0	586,210	20	0

MIDDLE EAST

AZERBAIJAN		609					231									2,772				
BAHREIN	4	1,434	33	277	2	2	2500	12	248		24	2,894	5	1,847		2,812		26		
IRAN	375	20,000	750	550	1,125	35	100	100	1,000		12,500	1,125	175	30		70,000	750	175	826	
IRAQ	272	530	211	74	85	9	4	5	4		98	5,414	28	10		10,464	16	2,278		
ISRAEL	170	951	8	37	42	6		163	133			591	5	4		204		44		
JORDAN	1	125		2	8	1	205				262	211				16		2		
KUWAIT		810	10	16	1		207		44		2,554	218				1,534			648	
OMAN	5	1,476	6	477	19	33	19	127	1,005		11	5,382	31	4,572		14,796		135		
QATAR		66		9	2	1	4000	2	15		200	76		1		390				
SAUDI ARABIA	16	9,000	63	500	7	23	185	20	3,000		109	51,000	7	4,000		116,000	6,000	1,176	31	
UNITED ARAB EMIRATES		2,372	17	171	4	6		41	272			786	20	555		7,323		38		
YEMEN	1	21		29	46			4		6		41		1						
Total Middle East	844	37,394	1,098	2142	1,341	116	7451	474	5,721	6	15,758	67,738	271	11,020	0	226,311	6,766	3,874	1,505	0
Total: Europe, Africa, Middle East	18,804	416,646	19,807	109,562	5,065	202,428	15800	67,584	204,296	788,730	262,994	556,667	820	1,060,962	32,506	2,646,819	6,766	596,887	1,525	1

