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Appendix 2
Schedule of survey dates for 1981-83 and 1995-2001 Wetland Bird Survey

1981-82	1982-83	1995	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01
29.09.81	29.10.82	08.01.95	10.12.95	13.10.96	19.10.97	11.10.98	12.09.99	17.09.00
20.10.81	13.11.82	05.02.95	21.01.96	17.11.96	16.11.97	08.11.98	10.10.99	22.10.00
05.11.81	10.12.82	05.03.95	18.02.96	15.12.96	14.12.97	06.12.98	28.11.99	19.11.00
03.12.81	10.01.83		10.03.96	12.01.97	18.01.98	03.01.99	26.12.99	17.12.00
05.01.82	04.02.83		21.04.96	09.02.97	15.02.98	21.02.99	16.01.00	14.01.01
03.02.82	04.03.83			09.03.97	15.03.98	21.03.99	13.02.00	11.02.01
02.03.82				06.04.97	26.04.98	18.04.99	12.03.00	
							09.04.00	

Appendix 3
Severn-Vrynwy Confluence
Schedule of Latin and English names of recorded waterbird and raptor species during 1981-1983 and
1995-2001 Wetland Bird Survey

Latin Name	English name
<i>Tachybaptus ruficollis</i>	Little Grebe
<i>Podiceps cristatus</i>	Great Crested Grebe
<i>Phalacrocorax carbo</i>	Great Cormorant
<i>Ardea cinerea</i>	Grey Heron
<i>Cygnus olor</i>	Mute Swan
<i>Cygnus columbianus</i>	Tundra Swan
<i>Cygnus cygnus</i>	Whooper Swan
<i>Anser brachyrhynchus</i>	Pink-footed Goose
<i>Anser albifrons</i>	Greater White-fronted Goose
<i>Anser anser</i>	Greylag Goose
<i>Anser caerulescens</i>	Snow Goose
<i>Branta canadensis</i>	Canada Goose
<i>Branta leucopsis</i>	Barnacle Goose
<i>Branta bernicla</i>	Brent Goose
<i>Branta ruficollis</i>	Red-breasted Goose
<i>Tadorna tadoma</i>	Common Shelduck
<i>Anas penelope</i>	Eurasian Wigeon
<i>Anas strepera</i>	Gadwall
<i>Anas crecca</i>	Eurasian Teal
<i>Anas platyrhynchos</i>	Mallard
<i>Anas acuta</i>	Northern Pintail
<i>Anas clypeata</i>	Northern Shoveler
<i>Aythya ferina</i>	Common Pochard
<i>Aythya fuligula</i>	Tufted Duck
<i>Bucephala clangula</i>	Common Goldeneye
<i>Mergus serrator</i>	Red-breasted Merganser
<i>Mergus merganser</i>	Goosander
<i>Oxyura jamaicensis</i>	Ruddy Duck
<i>Accipiter nisus</i>	Eurasian Sparrowhawk
<i>Buteo buteo</i>	Common Buzzard
<i>Falco tinnunculus</i>	Common Kestrel
<i>Falco peregrinus</i>	Peregrine Falcon
<i>Rallus aquaticus</i>	Water Rail
<i>Gallinula chloropus</i>	Common Moorhen
<i>Fulica atra</i>	Common Coot
<i>Pluvialis apricaria</i>	European Golden Plover
<i>Vanellus vanellus</i>	Northern Lapwing
<i>Calidris alpina</i>	Dunlin
<i>Lymnocyptes minimus</i>	Jack Snipe
<i>Gallinago gallinago</i>	Common Snipe
<i>Numenius arquata</i>	Eurasian Curlew

Appendix 4
Wildfowl and Wader Counts
Severn-Vrynwy Confluence
Schedule of recorded waterbird species on Transects A, C and E 1981-1983

Date	Table B						
	1982-1983 dataset						
	12.09.82	29.10.82	13.11.82	10.12.82	10.01.83	4.02.83	4.03.83
Water level							
Species							
Little Grebe	-	p	p	p	0	p	p
Great Cormorant	-	p	0	0	0	0	p
Grey Heron	-	p	p	0	p	0	p
Mute Swan	-	13	6	24	31	14	4
Tundra Swan	-	0	0	p	p	0	0
Whooper Swan	-	0	0	4	4	0	0
White-fronted Goose	-	0	0	p	0	p	0
Canada Goose	-	0	0	p	0	p	p
Eurasian Wigeon	-	0	5	123	121	4	92
Eurasian Teal	-	19	65	228	207	227	446
Mallard	-	44	109	406	420	326	205
Northern Pintal	-	0	0	0	0	4	4
Northern Shoveler	-	0	0	0	p	p	0
Common Pochard	-	0	0	0	p	0	0
Tufted Duck	-	0	0	p	p	p	0
Common Goldeneye	-	0	0	p	0	p	0
Eurasian Sparrowhawk	-	p	p	p	p	0	0
Common Kestrel	-	p	p	p	p	p	p
Common Moorhen	-	p	p	p	p	p	p
Common Coot	-	0	0	0	p	p	0
Northern Lapwing	-	32	167	1458	960	1531	174
Common Snipe	-	p	p	p	p	p	p
Eurasian Curlew	-	5	4	5	0	9	17

Appendix 5
Transect C
Schedule of recorded waterbird species 1995-2001 Wetland Bird Survey

	Table A							
	1995 dataset							
Date	08.01.95	05.02.95	05.03.95					
Water level	obt	obt	bbt					
Species								
Little Grebe	0	0	0					
Great Crested Grebe	0	0	0					
Great Cormorant	p	p	p					
Grey Heron	0	p	p					
Mute Swan	5	10	2					
Tundra Swan	0	0	0					
Whooper Swan	23	13	0					
Pink-footed Goose	0	0	0					
Greater White-fronted Goose	0	0	0					
Greylag Goose	0	p	0					
Snow Goose	0	p	0					
Canada Goose	28	454	238					
Barnacle Goose	0	0	0					
Brent Goose	0	0	0					
Red-breasted Goose	0	0	0					
Ruddy Shelduck	0	0	0					
Common Shelduck	0	p	0					
Eurasian Wigeon	240	246	769					
Gadwall	0	p	0					
Eurasian Teal	1200	84	362					
Mallard	162	54	87					
Northern Pintail	85	70	65					
Northern Shoveler	p	p	0					
Common Pochard	0	p	0					
Tufted Duck	0	p	0					
Common Goldeneye	0	0	0					
Red-breasted Merganser	0	0	0					
Goosander	0	0	0					
Ruddy Duck	0	0	0					
Eurasian Sparrowhawk	0	p	0					
Common Buzzard	1	p	0					
Common Kestrel	0	0	0					
Peregrine Falcon	0	0	1					
Water Rail	0	0	0					
Common Moorhen	p	0	0					
Common Coot	0	0	0					
European Golden Plover	0	0	0					
Grey Plover	1	0	0					
Northern Lapwing	785	749	157					
Dunlin	0	0	0					
Jack Snipe	0	0	0					
Common Snipe	p	p	0					
Eurasian Curlew	0	1	124					
obt : over bank top; bbt : below bank top; p : species present								

Appendix 5
Transect C
Schedule of recorded waterbird species 1995-2001 Wetland Bird Survey

Date	Table B				
	1995-1996 dataset				
	10.12.95	21.01.96	18.02.96	10.03.96	21.04.96
Water level	bbt	bbt	obt	bbt	bbt
Start time	1015	1000	1015	1000	0815
Finish time	1300	1240	1300	1315	1030
Species					
Little Grebe	0	0	0	p	0
Great Crested Grebe	0	0	0	0	0
Great Cormorant	p	p	p	p	0
Grey Heron	1	1	0	p	0
Mute Swan	0	0	0	0	2
Tundra Swan	0	0	0	0	0
Whooper Swan	0	0	0	0	0
Pink-footed Goose	0	0	0	0	0
Greater White-fronted Goose	0	0	0	0	0
Greylag Goose	0	1	0	0	0
Snow Goose	0	0	0	0	0
Canada Goose	0	p	p	p	p
Barnacle Goose	0	0	p	0	0
Brent Goose	0	0	0	0	0
Red-breasted Goose	0	0	0	0	0
Ruddy Shelduck	0	0	0	0	0
Common Shelduck	0	0	p	0	0
Eurasian Wigeon	19	53	30	128	0
Gadwall	0	0	0	0	0
Eurasian Teal	0	0	700	34	3
Mallard	6	22	84	27	7
Northern Pintail	0	4	250	9	4
Northern Shoveler	0	0	0	2	2
Common Pochard	2	0	0	0	0
Tufted Duck	0	0	0	p	0
Common Goldeneye	0	0	0	0	0
Red-breasted Merganser	0	0	0	0	0
Goosander	0	p	0	0	0
Ruddy Duck	0	0	0	0	0
Eurasian Sparrowhawk	0	0	0	0	0
Common Buzzard	1	0	p	p	0
Common Kestrel	1	0	0	0	0
Peregrine Falcon	0	0	0	0	0
Water Rail	0	0	0	0	0
Common Moorhen	0	0	0	0	0
Common Coot	0	p	0	p	p
Eurasian Oystercatcher	0	0	0	0	0
European Golden Plover	0	0	0	0	0
Northern Lapwing	40	170	650	7	2
Dunlin	0	0	0	0	0
Jack Snipe	0	0	0	0	0
Common Snipe	0	0	p	p	0
Eurasian Curlew	0	4	48	52	1
obt: over bank top	bbt: below bank top		p: species present		

Appendix 5
Transect C
Schedule of recorded waterbird species 1995-2001 Wetland Bird Survey

Table C								
1996-1997 dataset								
Date	13.10.96	17.11.96	15.12.96	12.01.97	09.02.97	09.03.97	06.04.97	
Water level	bbt	bbt	bbt	bbt	bbt	bbt	bbt	
Start time	0830	0930	0900	0830	0900	0900	0830	
Finish time	1130	1130	1215	1130	1130	1215	1130	
Species								
Little Grebe	0	0	0	0	0	0	0	
Great Crested Grebe	0	0	0	0	0	0	0	
Great Cormorant	0	p	p	p	p	0	0	
Grey Heron	p	0	p	p	0	p	p	
Mute Swan	7	0	2	5	0	4	1	
Tundra Swan	0	0	0	0	0	0	0	
Whooper Swan	0	0	16	0	0	0	0	
Pink-footed Goose	0	0	0	0	0	0	0	
Greater White-fronted Goose	0	0	0	0	0	0	0	
Greylag Goose	0	0	0	0	p	p	0	
Snow Goose	0	0	0	0	0	p	0	
Canada Goose	0	p	p	p	p	p	p	
Barnacle Goose	0	0	0	0	0	0	0	
Brent Goose	0	0	0	0	0	0	0	
Red-breasted Goose	0	0	0	0	0	0	0	
Ruddy Shelduck	0	0	0	0	0	0	0	
Common Shelduck	0	0	0	0	0	0	p	
Eurasian Wigeon	0	0	52	0	109	110	0	
Gadwall	0	0	0	0	0	0	0	
Eurasian Teal	0	0	0	0	6	10	70	
Mallard	26	83	24	17	12	50	26	
Northern Pintail	0	0	2	0	0	p	0	
Northern Shoveler	0	0	0	0	0	0	0	
Common Pochard	0	0	0	0	0	0	0	
Tufted Duck	0	0	0	p	p	0	0	
Common Goldeneye	0	0	0	0	0	0	0	
Red-breasted Merganser	0	0	0	0	0	0	0	
Goosander	0	0	p	p	0	p	0	
Ruddy Duck	0	0	0	0	0	0	0	
Eurasian Sparrowhawk	p	0	0	0	0	0	0	
Common Buzzard	p	0	p	p	0	p	p	
Common Kestrel	0	0	0	0	0	0	0	
Peregrine Falcon	0	0	0	0	0	0	0	
Water Rail	0	0	0	0	0	0	0	
Common Moorhen	0	p	0	0	1	0	0	
Common Coot	0	0	0	0	0	p	p	
European Golden Plover	0	0	0	0	0	0	0	
Northern Lapwing	0	0	0	0	0	118	15	
Dunlin	0	0	0	0	0	0	0	
Jack Snipe	0	0	0	0	0	0	0	
Common Snipe	0	0	0	p	0	p	p	
Eurasian Curlew	0	0	0	0	0	40	1	
obt: over bank top	bbt: below bank top		p: species present					

Appendix 5
Transect C
Schedule of recorded waterbird species 1995-2001 Wetland Bird Survey

Date	Table D		14.12.97	18.01.98	15.02.98	15.03.98	26.04.98
	1997-1998 dataset						
	19.10.97	16.11.97					
Water level	bbt	bbt	bbt	obt	bbt	bbt	bbt
Start time	1000	0830	0830	0845	0845	0900	0830
Finish time	1330	1130	1200	1215	1050	1215	1200
Species							
Little Grebe	0	0	0	0	0	0	0
Great Crested Grebe		0	0	0	0	0	0
Great Cormorant	0	p	1	0	p	0	p
Grey Heron	0	p	0	0	0	p	0
Mute Swan	3	2		9	3		5
Tundra Swan	0	0	0	0	0	0	0
Whooper Swan	0	0	0	0	0	0	0
Pink-footed Goose	0	0	0	0	0	0	
Greater White-fronted Goose		0	0	0	0	0	0
Greylag Goose	0	0	0	p	0	p	p
Snow Goose	0	0	0	0	0	0	0
Canada Goose	p	0	0	p	p	0	p
Barnacle Goose	0	0	0	p	0	0	0
Brent Goose	0	0	0	0	0	0	0
Red-breasted Goose	0	0	0	0	0	0	0
Ruddy Shelduck	0	0	0	0	0	0	0
Common Shelduck	0	0	0	0	p	0	0
Eurasian Wigeon	0	0	0	80	0	80	0
Gadwall	0	0	0	0	0	0	0
Eurasian Teal	0	0	0	36	0	38	2
Mallard	5	19	37	30	9	21	12
Northern Pintail	0	0	0	127	2	42	0
Northern Shoveler	0	0	0	p	0	p	0
Common Pochard	0	0	0	p	0	0	0
Tufted Duck	0	0	0	p	0	0	0
Common Goldeneye	0	0	0	0	0	0	0
Red-breasted Merganser	0	0	0	0	0	0	0
Goosander	0	0	0	0	p	p	p
Ruddy Duck	0	0	0	0	0	0	0
Eurasian Sparrowhawk	0	0	0	0	0	p	0
Common Buzzard	0	p	0	p	0	p	0
Common Kestrel	0	0	0	0	0	0	0
Peregrine Falcon	0	0	0	0	0	0	0
Water Rail	0	0	0	0	0	0	0
Common Moorhen	1		3				
Common Coot	0	0	0	0	0	0	0
European Golden Plover	0	0	0	0	0	0	0
Northern Lapwing			130	200	40	74	5
Dunlin	0	0	0	0	0	0	0
Jack Snipe	0	0	0	0	0	0	0
Common Snipe	p	0	0	p	0	0	p
Eurasian Curlew	0	0	0	0	18	23	0
obt: over bank top	bbt: below bank top		p: species present				

Appendix 5
Transect C
Schedule of recorded waterbird species 1995-2001 Wetland Bird Survey

	Table E						
	1998-1999 dataset						
Date	11.10.98	08.11.98	06.12.98	03.01.99	21.02.99	21.03.99	18.04.99
Water level	bbt	bbt	bbt		bbt	bbt	bbt
Start time	0900	0900	0850	nc:	0900	0915	0900
Finish time	1200	1215	1050	counter ill	1100	1130	1100
Species							
Little Grebe	0	0	p	--	0	0	0
Great Crested Grebe	0	0	0	--	0	0	0
Great Cormorant	p	p	p	--	p	0	0
Grey Heron	p	p	p	--	p	p	0
Mute Swan	5	13	14	--	3	0	1
Tundra Swan	0	0	0	--	0	0	0
Whooper Swan	0	4	0	--	3	1	0
Pink-footed Goose	0	0	0	--	0	0	0
Greater White-fronted Goose	0	0	0	--	0	0	0
Greylag Goose	p	0	0	--	0	0	0
Snow Goose	0	0	0	--	0	0	0
Canada Goose	0	p	p	--	p	p	0
Barnacle Goose	0	0	0	--	0	0	0
Brent Goose	0	0	0	--	0	0	0
Red-breasted Goose	0	0	0	--	p	0	0
Common Shelduck	0	0	0	--	0	0	0
Eurasian Wigeon	0	60	48	--	150	8	0
Gadwall	0	p	0	--	0	0	p
Eurasian Teal	0	40	4	--	125	57	0
Mallard	12	138	53	--	112	20	20
Northern Pintail	0	10	2	--	15	5	0
Northern Shoveler	0	0	0	--	p	p	0
Common Pochard	0	p	0	--	0	0	0
Tufted Duck	0	10	0	--	0	p	0
Common Goldeneye	0	0	0	--	0	0	0
Red-breasted Merganser	0	0	0	--	0	0	0
Goosander	0	0	0	--	p	0	0
Ruddy Duck	0	0	0	--	0	0	0
Eurasian Sparrowhawk	0	0	0	--	p	0	p
Common Buzzard	0	0	p	--	p	p	p
Common Kestrel	0	0	0	--	0	p	0
Peregrine Falcon	0	0	0	--	0	0	0
Water Rail	0	0	0	--	0	0	0
Common Moorhen	0	0	p	--	0	0	0
Common Coot	0	0	0	--	0	0	0
European Golden Plover	0	0	0	--	0	0	0
Northern Lapwing	0	180	0	--	139	8	3
Dunlin	0	0	0	--	0	0	0
Jack Snipe	0	0	0	--	0	0	0
Common Snipe	0	6	2	--	9	15	0
Eurasian Curlew	0	0	0	--	50	24	3
obt: over bank top	bbt: below bank top		p: species present				

Appendix 5
Transect C
Schedule of recorded waterbird species 1995-2001 Wetland Bird Survey

Date	Table F							
	1999-2000 dataset							
	12.09.99	10.10.99	28.11.99	26.12.99	16.01.00	13.02.00	12.03.00	09.04.00
Species								
Water level	bbt	bbt, pf	bbt	obt	bbt, pf	bbt	bbt	bbt
Start time	0900	0830	0855	1015	0910	0810	0855	0915
Finish time	1130	1100	1130	1205	1230	1005	1050	1100
				*				
Little Grebe	0	0	0	0	0	0	0	0
Great Crested Grebe	0	0	0	0	0	0	0	0
Great Cormorant	0	p	p	0	p	0	0	0
Grey Heron	1	4	1	0	1	1	0	0
Mute Swan	8	1	7	0	2	2	7	0
Tundra Swan	0	0	0	0	0	0	0	0
Whooper Swan		0	0	2	3	0	0	0
Pink-footed Goose	0	0	0	0	0	0	0	0
Greater White-fronted Goose	0	0	0	0	0	0	0	0
Greylag Goose	0	0	0	0	0	0	0	p
Snow Goose	0	0	0	0	0	0	0	0
Canada Goose	1	15	0	43	0	2	0	0
Barnacle Goose	0	0	0	0	0	0	0	0
Brent Goose	0	0	0	0	0	0	0	0
Red-breasted Goose	0	0	0	0	0	0	0	0
Common Shelduck	0	0	0	0	0	0	0	2
Eurasian Wigeon	0	85	16	246	155	87	192	0
Gadwall	0	0	0	0	0	0	0	0
Eurasian Teal	0	200	80	100	155	85	100	35
Mallard	46	500	84	12	107	121	29	9
Northern Pintail	0	4	10	140	135	42	38	0
Northern Shoveler	0	0	0	p	0	0	0	0
Common Pochard	0	0	p	0	0	0	0	0
Tufted Duck	0	0	0	0	0	0	0	0
Common Goldeneye	0	0	0	0	p	0	0	0
Red-breasted Merganser	0	0	0	0	0	0	0	0
Goosander	0	0	0	p	0	0	p	p
Ruddy Duck	0	0	0	0	0	0	0	0
Eurasian Sparrowhawk	0	0	0	p	p	0	0	0
Common Buzzard	0	0	0	0	p	0	0	0
Common Kestrel	0	0	0	0	0	0	0	0
Peregrine Falcon	0	0	0	0	0	0	0	0
Water Rail	0	0	0	0	0	0	0	0
Common Moorhen	p	0	p	0	0	p	0	0
Common Coot	0	p	p	0	0	0	0	0
European Golden Plover	0	0	0	0	0	0	0	0
Northern Lapwing	0	8	40	212	62	28	0	7
Dunlin	0	0	0	0	0	0	0	0
Jack Snipe	0	0	0	0	0	0	0	0
Common Snipe	0	p	0	0	p	p	p	p
Eurasian Curlew	0	1	0	0	0	35	3	2
obt: over bank top	bbt: below bank top		p: species present		* 20% coverage due to flooding			

Appendix 5
Transect C
Schedule of recorded waterbird species 1995-2001 Wetland Bird Survey

Table G						
2000-2001 dataset						
Date	17.09.00	22.10.00	19.11.00	17.12.00	14.01.01	11.02.01
Water level	bbtop	bbtop	bbtop	obtop	bbtop	bbtop
Start time	0840	0840	0830	1130	0830	0935
Finish time	1110	1110	1300	1300	1100	1230
Species						
			pc	pc	pc	
Little Grebe	0	0	0	0	0	0
Great Crested Grebe	0	0	0	0	0	0
Great Cormorant	0	p	p	0	0	0
Grey Heron	0	0	0	0	2	3
Mute Swan	2	28	9	2	0	9
Tundra Swan	0	0	0	0	0	0
Whooper Swan	0	0	2	0	10	0
Pink-footed Goose	0	0	0	0	0	0
Greater White-fronted Goose	0	0	0	0	0	0
Greylag Goose	0	0	p	0	0	p
Snow Goose	0	0	0	0	0	0
Canada Goose	0	0	p	p	0	0
Barnacle Goose	0	0	0	0	0	0
Brent Goose	0	0	0	0	0	0
Red-breasted Goose	0	0	0	0	0	0
Common Shelduck	0	0	0	0	0	0
Eurasian Wigeon	0	2	210	1370	12	20
Gadwall	0	0	0	0	0	0
Eurasian Teal	0	13	160	201	0	15
Mallard	2	133	86	0	0	31
Northern Pintail	0	0	320	198	0	40
Northern Shoveler	0	3	0	6	2	6
Common Pochard	0	0	0	0	0	2
Tufted Duck	0	0	0	0	0	0
Common Goldeneye	0	0	0	0	0	0
Red-breasted Merganser	0	0	0	0	0	0
Goosander	0	0	0	0	0	p
Ruddy Duck	0	0	0	0	0	0
Eurasian Sparrowhawk	0	0	0	0	0	0
Common Buzzard	0	0	0	0	0	0
Common Kestrel	0	0	0	0	0	0
Peregrine Falcon	0	0	0	0	0	0
Water Rail	0	0	0	0	0	0
Common Moorhen	0	p	0	0	0	0
Common Coot	p	0	0	0	0	0
European Golden Plover	0	0	0	0	0	
Northern Lapwing	6	9	300	0	0	6
Dunlin	0	0	0	0	0	0
Jack Snipe	0	0	0	0	0	0
Common Snipe	0	0	21	0	2	1
Eurasian Curlew	0	0	0	0	0	0
obt: over bank top	bbt: below bank top		p: species present			
pc: part count due to flooding or mist						

Appendix 6
Severn-Vyrnwy Confluence
1981-1983 dataset of target waterbird species UK and Confluence annual populations

Table 1			
Mute Swan			
UK population			
	1981	1982	1983
September	7140		
October	7880	8210	
November	7810	8520	
December	6640	8270	
January		7140	8550
February		6800	7030
March		6380	6500
Median	7475	7675	7030
Confluence populations			
	1981	1982	1983
September	29.0		
October	14.0	13.0	
November	14.0	6.0	
December	8.0	24.0	
January		20.0	31.0
February		0.0	14.0
March		0.0	4.0
Median	14.0	9.5	14.0
Table 2			
Whooper swan			
UK population			
	1981	1982	1983
September	36		
October	1900	710	
November	2510	3150	
December	1000	1800	
January		1140	1810
February		1490	1680
March		1040	1350
Median	1450	1315	1680
Confluence population			
	1981	1982	1983
September	0		
October	0	0	
November	0	0	
December	0	4	
January		0	4
February		0	0
March			0
Median	0	0	0

Appendix 6
Severn-Vyrnwy Confluence
1981-1983 dataset of target waterbird species UK and Confluence annual populations

Table 3			
Eurasian Wigeon			
Uk population			
	1981	1982	1983
September	15330		
October	84550	114430	
November	147740	173430	
December	183310	199910	
January		209770	138890
February		143410	141030
March		64920	67370
Median	116145	158420	138890
Confluence population			
	1981	1982	1983
September	0.0		
October	0.0	0.0	
November	0.0	5.0	
December	55.0	123.0	
January		60.0	121.0
February		33.0	4.0
March		99.0	92.0
Median	0.0	46.5	92.0
Table 4			
Eurasian Teal			
UK population			
	1981	1982	1983
September	39510		
October	58880	67430	
November	71180	85320	
December	102190	98210	85300
January		68380	62400
February		53470	31970
March		26280	80350
Median	65030	67905	71375
Confluence populations			
	1981	1982	1983
September	0.0		
October	1.0	19.0	
November	4.0	65.0	
December	54.0	228.0	
January		15.0	207.0
February		122.0	227.0
March		139.0	446.0
Median	2.5	93.5	227.0

Appendix 6
Severn-Vyrnwy Confluence
1981-1983 dataset of target waterbird species UK and Confluence annual populations

Table 5			
Mallard			
<i>UK population</i>			
	1981	1982	1983
September	115140	144490	
October	127170	139830	
November	146210	145970	
December	132340	157130	
January		149900	176690
February		102890	123280
March		55360	54670
Median	129755	144490	123280
<i>Confluence population</i>			
	1981	1982	1983
September	23.0		
October	51.0	44.0	
November	128.0	109.0	
December	229.0	406.0	
January		37.0	420.0
February		45.0	326.0
March		67.0	205.0
Median	89.5	56.0	326.0
Table 6			
Northern Pintail			
<i>UK population</i>			
	1981	1982	1983
September	5050	5420	
October	12580	17900	
November	19410	17690	
December	17050	24180	
January		19180	25480
February		14950	13230
March		2440	4410
Median	14815	17690	13230
<i>Confluence population</i>			
	1981	1982	1983
September	0.0		
October	0.0	0.0	
November	0.0	0.0	
December	0.0	0.0	
January		0.0	0.0
February		2.0	2.0
March		4.0	4.0
Median	0.0	0.0	2.0

Appendix 6
Severn-Vyrnwy Confluence
1981-1983 dataset of target waterbird species UK and Confluence annual populations

Table 7			
Northern Lapwing			
UK population			
	1981	1982	1983
December	41319	95000	
January		29088	110400
February		95486	48300
Median	41319	95000	79350
Confluence population			
	1981	1982	1983
December	200	1458	
January		693.0	960.0
February		0	1531
Median	200	693	1245.5
Table 8			
Eurasian Curlew			
UK population			
	1981	1982	1983
December	23420	45800	
January		30104	54100
February		42406	44400
Median	23420	42406	49250
Confluence population			
	1981	1982	1983
December	0.0	5.0	
January		0.0	0.0
February		0.0	9.0
Median	0.0	0.0	4.5

Appendix 7
Severn-Vyrnwy Confluence
1995-2001 Wetland Bird Survey dataset of target waterbird species UK and Transect C annual populations

Table 7							
Northern Lapwing							
UK populations							
	1995	1996	1997	1998	1999	2000	2001
September	—				96649	123724	
October	—	123923	172794	123400	137730	174325	
November	—	188923	398736	191372	471564	259293	
December	281226	304350	464466	258054	349367	272141	
January	313152	261751	64618	435488	419258	321934	258064
February	255368	163108	219013	347278	182181	301157	349548
March	14412	134424	37324	37291	19591	28412	
April	—	5744	9698	5939	6095	6647	
Median	281226	163108	172794	191372	159955	216809	303806
Transect C populations							
	1995	1996	1997	1998	1999	2000	2001
September					0.0	6.0	
October		0.0	0.0	0.0	8.0	9.0	
November		0.0	0.0	180.0	40.0	300.0	
December	40.0	0.0	130.0	0.0	212.0	0.0	
January	785.0	170.0	0.0	200.0	*	62.0	0.0
February	749.0	650.0	0.0	40.0	139.0	28.0	6.0
March	157.0	7.0	118.0	74.0	8.0	0.0	*
April		2.0	15.0	5.0	3.0	7.0	*
Median	453.0	2.0	0.0	40.0	8.0	8.0	3.0

Appendix 7
Severn-Vyrnwy Confluence
1995-2001 Wetland Bird Survey dataset of target waterbird species UK and Transect C annual populations

Table 8							
Eurasian Curlew							
UK populations							
	1995	1996	1997	1998	1999	2000	2001
September	—				86715	87521	
October	—	82275	85621	75687	90607	80704	
November	—	56408	61960	78205	58329	71887	
December	57942	68709	81567	69593	68275	81576	
January	84648	60562	50686	85692	73817	88727	81990
February	88009	64522	78087	91637	72845	99787	83229
March	61645	64238	64896	68173	53596	62656	
April	—	11486	32515	11974	36199	31183	
Median	84648	64238	64896	75687	70560	81140	82609
Transect C populations							
	1995	1996	1997	1998	1999	2000	2001
September					0	0	
October		0	0	0	1	0	
November		0	0	0	0	0	
December	0	0	0	0	0	0	
January	0	4	0	0	*	0	0
February	1	48	0	18	50	35	0
March	124	52	40	23	24	3	
April		1	1	0	3	2	
Median	0.5	1	0	0	1	0	0

**Appendix 8
Severn-Vyrnwy Confluence**

1981-1983 dataset of target waterbird species UK and Confluence seasonal populations and residuals

Table 1							
Mute Swan							
UK populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	7140	7880	7810	6640			
1982		8210	8520	8270	7140	6800	6380
1983					8550	7030	6500
Median	7140	8045	8165	7455	7845	6915	6440
Confluence populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	29.0	14.0	14.0	8.0			
1982		13.0	6.0	24.0	20.0	0.0	0.0
1983					31.0	14.0	4.0
Median	29.0	13.5	10.0	16.0	25.5	7.0	2.0
Confluence population residuals							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	0.5	4.0	-8.0			
1982		-0.5	-4.0	8.0	-5.5	-7.0	-2.0
1983					5.5	7.0	2.0
Table 2							
Whooper Swan							
UK populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	36	1900	2510	1000			
1982		710	3150	1880	1140	1490	1040
1983					1880	1680	1350
Median	36	1305	2830	1440	1510	1585	1195
Confluence populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0	0	0	0			
1982		0	0	4	0	0	0
1983					4	0	0
Median	0	0	0	2	2	0	0
Confluence population residuals							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0	0	0	-2.0			
1982		0	0	2.0	-2.0	0.0	0.0
1983					2.0	0.0	0.0

**Appendix 8
Severn-Vymwy Confluence**

1981-1983 dataset of target waterbird species UK and Confluence seasonal populations and residuals

Table 3							
Eurasian Wigeon							
UK populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	15330	84550	147740	183310			
1982		114430	173940	199910	209770	143410	64920
1983					138890	141030	67370
Median	15330	99490	160840	191610	174330	142220	66145
Confluence populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	0.0	0.0	55.0			
1982		0.0	5.0	123.0	60.0	33.0	99.0
1983					121.0	4.0	92.0
Median	0.0	0.0	2.5	89.0	90.5	18.5	95.5
Confluence population residuals							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	0.0	-2.5	-34.0			
1982		0.0	2.5	34.0	-30.5	14.5	3.5
1983					30.5	-14.5	-3.5
Median	0.0	0.0					
Table 4							
Eurasian Teal							
UK populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	39510	58880	71180	102190			
1982		67430	85320	98210	68380	53470	26280
1983					85300	62400	31970
Median	39510	63155	78250	100200	76840	57935	29125
Confluence populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	1.0	4.0	54.0			
1982		19.0	65.0	228.0	15.0	122.0	139.0
1983					207.0	227.0	446.0
Median	0.0	10.0	34.5	141.0	111.0	174.5	292.5
Confluence population residuals							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	-9.0	-30.5	-87.0			
1982		9.0	30.5	87.0	-96.0	-52.5	-153.5
1983					96.0	52.5	153.5

Appendix 8

Severn-Vyrnwy Confluence

1981-1983 dataset of target waterbird species UK and Confluence seasonal populations and residuals

Table 5							
Mallard							
UK populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	115140	127170	146210	132340	—	—	—
1982	—	139830	145970	157130	149900	102890	55360
1983	—	—	—	—	176690	123280	54670
Median	115140	133500	146090	144735	163295	113085	55015
Confluence populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	23.0	51.0	128.0	229.0	—	—	—
1982	—	44.0	109.0	406.0	37.0	45.0	67.0
1983	—	—	—	—	420.0	326.0	205.0
Median	23.0	47.5	118.5	317.5	228.5	185.5	136.0
Confluence population residuals							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	3.5	9.5	-88.5	—	—	—
1982	—	-3.5	-9.5	88.5	-191.5	-140.5	-69.0
1983	—	—	—	—	191.5	140.5	69.0
Table 6							
Northern Pintail							
UK populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	5050	12580	19410	17050	—	—	—
1982	—	17900	17690	24180	19180	14950	2440
1983	—	—	—	—	25480	13230	4410
Median	5050	15240	18550	20615	22330	14090	3425
Confluence populations							
Year	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0	0	0	0	—	—	—
1982	—	0	0	0	0	2	4
1983	—	—	—	—	0	2	4
Median	0	0	0	0	0	2	4
Confluence population residuals							
Year	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0	0	0	0	—	—	—
1982	—	0	0	0	0	0	0
1983	—	—	—	—	0	0	0

**Appendix 8
Severn-Vyrnwy Confluence**

1981-1983 dataset of target waterbird species UK and Confluence seasonal populations and residuals

Table 7							
Northern Lapwing							
UK populations							
	Dec	Jan	Feb				
1981	41319						
1982	95000	29088	95486				
1983		110400	48300				
Median	68159	69744	71893				
Confluence populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	73.0	150.0	200.0			
1982		32.0	167.0	1458.0	693.0	0.0	119.0
1983					960.0	1531.0	174.0
Median	0.0	52.5	158.5	829.0	826.5	765.5	146.5
Confluence population residuals							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	20.5	-8.5	-629.0			
1982		-20.5	8.5	629.0	-133.5	-765.5	-27.5
1983					133.5	765.5	27.5
Table 8							
Eurasian Curlew							
UK populations							
	Dec	Jan	Feb				
1981	23420						
1982	45800	30104	42406				
1983		54100	44400				
Median	34610	42102	43403				
Confluence populations							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	0.0	0.0	0.0			
1982		5.0	4.0	5.0	0.0	0.0	5.0
1983					0.0	9.0	17.0
Median	0.0	2.5	2.0	2.5	0.0	4.5	11.0
Confluence population residuals							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0.0	-2.5	-2.0	-2.5			
1982		2.5	2.0	2.5	0.0	-4.5	-6.0
1983					0.0	4.5	6.0

Appendix 9
Severn-Vyrnwy Confluence
1995-2001 Wetland Bird Survey dataset of target waterbird species UK and Transect C seasonal populations and residuals

Table 2								
Whooper Swan								
UK populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995	—	—	—	3155	3265	3129	2433	—
1996		1223	3221	3963	3477	3066	2501	87
1997		1619	2355	3171	2615	3381	2727	405
1998		645	2492	2530	2450	3781	3065	44
1999	40	1273	3720	3241	2788	2673	1801	80
2000	40	3414	4823	5177	6701	3373	4594	321
2001	—	—	—	—	5429	4868	—	—
Median	40	1273	3221	3206	3265	3373	2614	87
Transect C populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995				0	23	13	0	
1996		0	0	16	0	0	0	0
1997		0	0	0	0	0	0	0
1998		0	4	0	0	0	0	0
1999	0	0	0	2		3	1	0
2000	0	0	2	0	3	0	0	0
2001					10	0		
Median	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0
Transect C population residuals								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995				0.0	21.5	13.0	0	
1996		0.0	0.0	16.0	-1.5	0.0	0	0
1997		0.0	0.0	0.0	-1.5	0.0	0	0
1998		0.0	4.0	0.0	-1.5	0.0	0	0
1999	0.0	0.0	0.0	2.0	-1.5	3.0	1	0
2000	0.0	0.0	2.0	0.0	1.5	0.0	0	0
2001					8.5	0.0		

Appendix 9
Severn-Vyrnwy Confluence
1995-2001 Wetland Bird Survey dataset of target waterbird species UK and Transect C seasonal populations and residuals

Table 3								
Eurasian Wigeon								
UK populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995	—	—	—	339319	340373	236965	107151	—
1996	—	189205	217865	333173	347552	298630	209171	3415
1997	—	208099	258030	314821	405562	339155	156637	11286
1998	—	164995	203642	369798	327099	268666	183100	2258
1999	43537	171956	237816	312719	347191	248381	98498	4819
2000	78512	277058	263661	344815	325806	275426	158171	19673
2001	—	—	—	—	382015	290273	—	—
Median	61024.5	189205	237816	336246	347191	275426	157404	4819
Transect C populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995	—	—	—	19	240	246	769	—
1996	—	0	0	52	53	30	128	0
1997	—	0	0	0	0	109	110	0
1998	—	0	60	48	80	0	80	0
1999	0	85	16	246	—	150	8	0
2000	0	2	210	1370	155	87	192	0
2001	—	—	—	—	12	20	—	—
Median	0.0	0.0	16.0	50.0	66.5	87.0	119.0	0.0
Transect C population residuals								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995	—	—	—	-31.0	173.5	159.0	650.0	—
1996	—	0	-16.0	2.0	-13.5	-57.0	9.0	0
1997	—	0	-16.0	-50.0	-66.5	22.0	-9.0	0
1998	—	0	44.0	-2.0	13.5	-87.0	-39.0	0
1999	0	85	0.0	196.0	—	63.0	-111.0	0
2000	0	2	194.0	1320.0	88.5	0.0	73.0	0
2001	—	—	—	—	-54.5	-67.0	—	—

Appendix 9
Severn-Vyrnwy Confluence
1995-2001 Wetland Bird Survey dataset of target waterbird species UK and Transect C seasonal populations and residuals

Table 5								
Mallard								
UK populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995	—	—	—	146804	136030	90616	52636	—
1996	—	131070	133215	145567	131631	91149	55435	24065
1997	—	123070	140213	134675	146694	98406	57121	25568
1998	—	130578	140105	151114	122955	88168	54683	22475
1999	123188	139026	139450	145590	128916	85482	49470	22856
2000	119082	136129	133686	139169	133541	93178	60170	28107
2001	—	—	—	—	147684	101082	—	—
Median	121135	131070	139450	145578	133541	91149	55059	24065
Transect C populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995	—	—	—	6	162	54	87	—
1996	—	26	83	24	22	84	27	7
1997	—	5	19	37	17	12	50	26
1998	—	12	138	53	30	9	21	12
1999	46	500	84	12	—	112	20	20
2000	2	133	86	0	107	121	29	9
2001	—	—	—	—	0	31	—	—
Median	24	26	84	18	26	54	28	12
Transect C population residuals								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995	—	—	—	-12.0	136.0	0.0	59.0	—
1996	—	0.0	-1.0	6.0	-4.0	30.0	-1.0	-5.0
1997	—	-21.0	-65.0	19.0	-9.0	-42.0	22.0	14.0
1998	—	-14.0	54.0	35.0	4.0	-45.0	-7.0	0.0
1999	22.0	474.0	0.0	-6.0	—	58.0	-8.0	8.0
2000	-22.0	107.0	2.0	-18.0	81.0	67.0	1.0	-3.0
2001	—	—	—	—	-26.0	-23.0	—	—

Appendix 9
Severn-Vyrnwy Confluence
1995-2001 Wetland Bird Survey dataset of target waterbird species UK and Transect C seasonal populations and residuals

Table 7								
Northern Lapwing								
UK populations								
	1995	1996	1997	1998	1999	2000	2001	
Sept	—				96649	123724		
Oct	—	123923	172794	123400	137730	174325		
Nov	—	188923	398736	191372	471564	259293		
Dec	281226	304350	464466	258054	349367	272141		
Jan	313152	261751	64618	435488	419258	321934	258064	
Feb	255368	163108	219013	347278	182181	301157	349548	
March	14412	134424	37324	37291	19591	28412		
April	—	5744	9698	5939	6095	6647		
Median	281226	163108	172794	191372	159955	216809	303806	
Transect C populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995	—	—	—	40	785	749	157	—
1996	—	0	0	0	170	650	7	2
1997	—	0	0	130	0	0	118	15
1998	—	0	180	0	200	40	74	5
1999	0	8	40	212	—	139	8	3
2000	6	9	300	0	62	28	0	7
2001	—	—	—	—	0	6	—	—
Median	3	0	40	20	116	40	41	5
Transect C population residuals								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995				20.0	669.0	709.0	116.0	
1996		0.0	-40.0	-20.0	54.0	610.0	-34.0	-3.0
1997		0.0	-40.0	110.0	-116.0	-40.0	77.0	10.0
1998		0.0	140.0	-20.0	84.0	0.0	33.0	0.0
1999	-3.0	8.0	0.0	192.0		99.0	-33.0	-2.0
2000	3.0	9.0	260.0	-20.0	-54.0	-12.0	-41.0	2.0
2001					-116.0	-34.0		

Appendix 9
Severn-Vyrnwy Confluence
1995-2001 Wetland Bird Survey dataset of target waterbird species UK and Transect C seasonal populations and residuals

Table 8								
Eurasian Curlew								
UK populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995				57942	84648	88009	61645	
1996	88063	82275	56408	68709	60562	64522	64238	11486
1997	86358	85621	61960	81567	50686	78087	64896	32515
1998	85746	75687	78205	69593	85692	91637	68173	11974
1999	86715	90607	58329	68275	73817	72845	53596	36199
2000	87521	80704	71887	81576	88727	99787	62656	31183
2001					81990	83229		
Median	86715	82275	61960	69151	81990	83229	63447	31183
Transect C populations								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995				0	0	1	124	
1996		0	0	0	4	48	52	1
1997		0	0	0	0	0	40	1
1998		0	0	0	0	18	23	0
1999	0	1	0	0		50	24	3
2000	0	0	0	0	0	35	3	2
2001					0	0		
Median	0	0	0	0	0	18	32	1
Transect C population residuals								
	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1995				0	0	-17.0	92.0	
1996		0	0	0	4	30.0	20.0	0.0
1997		0	0	0	0	-18.0	8.0	0.0
1998		0	0	0	0	0.0	-9.0	-1.0
1999	0	1	0	0		32.0	-8.0	2.0
2000	0	0	0	0	0	17.0	-29.0	1.0
2001					0	-18.0		

Appendix 10
Tables of mean temperatures at European Meteorological Stations 1981-1983

Table of mean temperatures, Reykjavik, Iceland						
Mean maximum temperature C°						
	Aug	Sept	Oct	Nov	Dec	Jan
1981	12.6	10.7	3.0	2.1	0.0	—
1982	12.7	8.7	6.9	2.0	1.2	1.1
1983	—	—	—	—	—	0.4
Median	12.7	9.7	5.0	2.1	0.6	0.8
Mean minimum temperature° C						
	Aug	Sept	Oct	Nov	Dec	Jan
1981	8.0	5.1	-2.0	-3.0	-4.7	—
1982	6.6	2.9	2.6	-3.3	-4.4	-4.0
1983	—	—	—	—	—	-4.9
Median	7.30	4.00	0.30	-3.15	-4.55	-4.45
(Icelandic Meteorology Office 2004)						
Mean minimum temperature° C residuals						
	Aug	Sept	Oct	Nov	Dec	Jan
Resid 1981	0.70	1.10	-2.30	0.15	-0.15	—
Resid 1982	-0.70	-1.10	2.30	-0.15	0.15	0.45
Resid 1983	—	—	—	—	—	-0.45
	Aug	Sept	Oct	Nov	Dec	Jan
Median max temp	12.7	9.7	5.0	2.1	0.6	0.8
Median min temp	7.3	4.0	0.3	-3.15	-4.55	-4.45
Whooper Swan	—	0	0	0	2	2
Eurasian Wigeon	—	0.0	0.0	2.5	89.0	90.5
Eurasian Teal	—	0.0	10.0	34.5	141.0	111.0
Northern Pintail	—	0.0	0.0	0.0	0.0	0.0

Appendix 11

Table of mean temperatures at European Meteorological Stations 1995-2001 Wetland Bird Survey

Table of mean temperatures, Reykjavik, Iceland						
Mean maximum temperature C°						
	Aug	Sept	Oct	Nov	Dec	Jan
1995	12.7	10.4	6.2	3.6	2.5	1.0
1996	13.2	12.8	7.7	0.8	2.6	4.5
1997	14.4	10.9	8.2	6.1	5.2	4.0
1998	13.9	11.6	5.5	4.7	3.7	3.4
1999	14.2	11.9	8.2	5.0	1.9	2.4
2000	13.9	12.0	7.4	3.5	2.7	3.1
2001						3.4
Median	13.90	11.75	7.55	4.15	2.65	3.40
Mean minimum temperature C°						
	Aug	Sept	Oct	Nov	Dec	Jan
1995	8.8	6.0	1.4	-0.2	-2.4	-4.3
1996	8.1	9.0	2.2	-4.4	-1.6	-0.2
1997	9.0	5.8	3.5	2.2	0.4	-1.4
1998	9.1	6.1	0.5	-0.4	-1.0	-1.7
1999	9.4	5.9	3.5	-0.3	-3.5	-2.1
2000	8.6	6.2	2.7	-1.3	-2.0	-1.7
2001						-1.2
Median	8.90	6.05	2.45	-0.35	-1.80	-1.70
(Royal Meteorological Society 1995-2001)						
Mean minimum temperature° C residuals						
	Aug	Sept	Oct	Nov	Dec	Jan
Resid 1995	-0.10	-0.05	-1.05	0.15	-0.60	-2.60
Resid 1996	-0.80	2.95	-0.25	-4.05	0.20	1.50
Resid 1997	0.10	-0.25	1.05	2.55	2.20	0.30
Resid 1998	0.20	0.05	-1.95	-0.05	0.80	0.00
Resid 1999	0.50	-0.15	1.05	0.05	-1.70	-0.40
Resid 2000	-0.30	0.15	0.25	-0.95	-0.20	0.00
Resid 2001						0.50
Median data						
	Aug	Sept	Oct	Nov	Dec	Jan
Median max temp	13.90	11.75	7.55	4.15	2.65	3.40
Median min temp	8.90	6.05	2.45	-0.35	-1.80	-1.70
Whooper Swan		0.0	0.0	0.0	0.0	1.5
Eurasian Wigeon		0.0	0.0	16.0	50.0	66.5
Eurian Teal		0.0	0.0	40.0	2.0	18.0
Northern Pintail		0.0	0.0	10.0	2.0	44.0

Appendix 12

Tables: corresponding and reverse corresponding outliers of species populations and mean minimum temperature per month outliers recorded at European Meteorological Stations 1995-2001 Wetland Bird Survey

Eurotemp95														
Table 1A														
Corresponding outliers														
Species	Eurasian Wigeon populations							Mean minimum temperatures° C at De Bilt, Holland						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	-	r	r	r	85 a	2 a	-	-	r	r	r	7.2 a	7.7 a	-
November	-	0 b	r	r	r	210 a	-	-	3.1 b	r	r	r	5.4 a	-
December	r	r	r	r	246 a	1370 a	-	r	r	r	r	2.1 a	2.7 a	-
January	r	53 b	0 b	80 a	-	155 a	12 b	r	-2.2 b	-4.1 b	1.8 a	-	1.7 a	0 b
Table 2A														
Reverse corresponding outliers														
Month	Eurasian Wigeon populations							Mean minimum temperatures° C at De Bilt, Holland						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	-	0 m	0 m	0 m	c	c	-	-	6.7 b	5.6 b	6.8 b	c	c	-
November	-	c	0 b	60 a	16 m	c	-	-	c	4.1 a	0.6 b	3 b	c	-
December	19 b	52 a	0 b	48 a	c	c	-	-3.8 a	-2 b	2.2 a	2 b	c	c	-
January	240 a	c	c	c	-	c	c	0.8 m	c	c	c	-	c	c

Appendix 12

Tables: corresponding and reverse corresponding outliers of species populations and mean minimum temperature per month outliers recorded at European Meteorological Stations 1995-2001 Wetland Bird Survey

Table 3A														
Corresponding outliers														
Month	Eurasian Teal populations							Mean minimum temperatures ^o C at De Bilt, Holland						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	-	r	r	r	200 a	13 a	-	-	r	r	r	7.2 a	7.7 a	-
November	-	0 b	r	r	r	160 a	-	-	3.1 b	r	r	r	5.4 a	-
December	0 b	0 b	r	r	100 a	201 a	-	-3.8 b	-2 b	r	r	2.1 a	2.7 a	-
January	r	0 b	0 b	36 a	-	155 a	0 b	r	-2.2 b	-4.1 b	1.8 a	-	1.7 a	0 b
Table 4A														
Reverse corresponding outliers														
Month	Eurasian Teal populations							Mean minimum temperatures ^o C at De Bilt, Holland						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	-	0 m	0 m	0 m	c	c	-	-	8 a	6.7 b	5.6 b	c	c	-
November	-	c	0 b	40 m	80 a	c	-	-	c	4.1 a	0.6 b	3 b	c	-
December	c	c	0 b	4 a	c	c	-	c	c	2.2 a	2 b	c	c	-
January	1200 a	c	c	c	-	c	c	0.8 m	c	c	c	-	c	c

Appendix 12

Tables: corresponding and reverse corresponding outliers of species populations and mean minimum temperature per month outliers recorded at European Meteorological Stations 1995-2001 Wetland Bird Survey

Table 7A														
Corresponding outliers														
Month	Northern Pintail populations							Mean minimum temperatures° C at De Biit, Holland						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	-	r	r	r	4 a	r	-	-	r	r	r	7.2 a	r	-
November	-	0 b	r	r	r	320 a	-	-	3.1 b	r	r	r	5.4 a	-
December	0 b	r	r	r	140 a	198 a	-	-3.8 b	r	r	r	2.1 a	2.7 a	-
January	r	4 b	0 b	127 a	-	135 a	0 b	r	-2.2 b	-4.1 b	1.8 a	-	1.7 a	0 b
Table 8A														
Reverse corresponding outliers														
Month	Northern Pintail populations							Mean minimum temperatures° C at De Biit, Holland						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	-	0 m	0 m	0 m	c	0 m	-	-	6.7 b	5.6 b	6.8 b	c	7.7 a	-
November	-	c	0 b	10 m	10 m	c	-	-	c	4.1 a	0.6 b	3 b	c	-
December	c	2 m	0 b	2 m	c	c	-	c	-2 b	2.2 a	2 b	c	c	-
January	85 a	c	c	c	-	c	c	0.8 m	c	c	c	-	c	c

Appendix 12

Tables: corresponding and reverse corresponding outliers of species populations and mean minimum temperature per month outliers recorded at European Meteorological Stations 1995-2001 Wetland Bird Survey

Table 9A															
Corresponding outliers															
Month	Northern Lapwing populations							Mean minimum temperatures° C at De Bilt, Holland							
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001	
September	-	-	-	-	0 b	r	-	-	-	-	-	-	10.5 b	r	-
October	-	r	r	r	8 a	9 a	-	-	r	r	r	7.2 a	7.7 a	-	
November	-	0 b	r	r	r	300 a	-	-	3.1 b	r	r	r	5.4 a	-	
December	r	0 b	130 a	0 b	212 a	r	-	r	-2 b	2.2 a	2 b	2.1 a	r	-	
January	r	r	0 b	200 a	-	r	0 b	r	r	-4.1 b	1.8 a	-	r	0 b	
Table 10A															
Reverse corresponding outliers															
Month	Northern Lapwing populations							Mean minimum temperatures° C at De Bilt, Holland							
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001	
September	-	-	-	-	c	6 a	-	-	-	-	-	c	12.1 b	-	
October	-	0 m	0 m	0 m	c	c	-	-	6.7 b	5.6 b	6.8 b	c	c	-	
November	-	c	0 b	180 a	40 m	c	-	-	c	4.1 a	0.6 b	3 b	c	-	
December	40 a	c	c	c	c	0 b	-	-3.8 b	c	c	c	c	2.7 a	-	
January	785 a	170 a	c	c	-	62 b	c	0.8 m	-2.2 b	c	c	-	1.7 a	c	
Table 11A															
Corresponding outliers															
Month	Eurasian Curlew populations							Mean minimum temperatures° C at De Bilt, Holland							
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001	
October	-	r	r	r	1 a	r	-	-	r	r	r	7.2 a	r	-	
January	0 m	r	r	r	-	r	r	0.8 m	r	r	r	-	r	r	
Table 12A															
Reverse corresponding outliers															
Month	Eurasian Curlew populations							Mean minimum temperatures° C at De Bilt, Holland							
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001	
October	-	0 m	0 m	0 m	c	0 m	-	-	6.7 b	5.6 b	6.8 b	c	7.7 a	-	
January	c	4 a	0 m	0 m	-	0 m	0 m	c	-2.2 b	-4.1 b	1.8 a	-	1.7	0 b	
a: above trend b: sub-trend m: median c: corresponding outlier r: reverse corresponding outlier															