Appendix 20
Temperature index terms per month and residuals 1981-1983

Month		Temp^{0}C						
	1981	1982	1983	Median			
Sept	0			0			
Oct	2	2		2			
Nov	2	0		1			
Dec	2	6		4			
Jan		5	0	2.5			
Feb		2	3	2.5			
March		6	3	4.5			
	1981	Resid 1981	1982	Resid 1982	1983	Resid 1983	Median
Sept	0	0					0
Oct	2	0	2	0			2
Nov	2	1	0	-1			1
Dec	2	-2	6	2			4
Jan			5	2.5	0	-2.5	2.5
Feb			2	-0.5	3	0.5	2.5
March			6	1.5	3	-1.5	4.5
11-day term							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0	2	2	2			
1982		2	0	6	5	2	6
1983					0	3	3
Median	0	2	1	4	2.5	2.5	4.5
12-22 day term							
	Sept	Oct	Nov	Dec	Jan	Feb	March
1981	0	0	3	1			
1982	–	0	2	4	9	3	2
1983					3	2	11
Median	0	0	2.5	2.5	6	2.5	6.5
Term	Sept	Oct	Nov	Dec	Jan	Feb	March
11-day term	0	2	1	4	2.5	2.5	4.5
12-22 day term	0	0	2.5	2.5	6	2.5	6.5
0-22 day term	0	2	3.5	6.5	8.5	5	11

Appendix 20
Temperature dataset 11-day term per month and residuals 1995-2001 Wetland Bird Survey

	-4.5	3.7	0.8	1.2	0.8	-5.6	**-1.4**	
	-9	2.7	-3	8.3	0.3	7.5	-3.8	
	0.4	6.6	-2.7	3.6	3.7	6.7	-2	
	2.7	5	**-1**	**3.7**	4.9	-1.7	1.4	
	0.7	**5**	-0.6	2.2	4.8	0.6	0.8	
	-2.3	1.2	-0.8	3.5	3.5	-1.4	-1.8	
	2.3	-0.1	4.3	5.7	2.4	-2.3	-4.7	
Feb	0.1	-10	2.8	1	-4	4.7	-4.4	**2.8**
	-3.2	-8.1	2.8	5.6	-6.3	8.3	1	
	2	3.8	3.3	-0.7	2.6	7.8	4.9	
	4	4.5	-2.4	-0.2	3.3	7.8	2.1	
	-1.3	-0.8	-4.1	8.4	0.3	3.7	**1.4**	
	2.9	**2.8**	2.5	9.1	4.1	3	7.4	
	3.7	-1.5	-1.2	9.1	**1.4**	2.7	4.8	
	-3	-2.6	**1.6**	11.1	8.4	1.5	-0.3	
	6.8	6.3	-0.6	8.1	2.7	0.3	-4	
	5.7	5	-2.1	2.4	0.3	**3.4**	-0.1	
	5	3.4	6.2	**7.4**	1.1	-0.6	11.1	
March	1.1	-4.1	0.7	2.7	-2.3	-0.3		**2.55**
	1.9	0.8	5.7	4.5	1.9	2.9		
	1.3	4.5	4.2	7	1.3	-1		
	-2.1	4.9	**3.9**	3	0.8	-1.5		
	-0.9	4.3	-1.3	-1.6	1.1	5.9		
	8.8	4.5	3.9	1.3	4.4	9.1		
	0.5	2.5	4.5	**4.3**	2.6	10.6		
	-1	**1.9**	-3.3	-0.3	4.3	9.3		
	-2.3	1.6	6	7.7	**1.8**	7.5		
	-4	1.5	3.7	7	0.2	**3.2**		
	1.6	-0.4	5.4	8	6.1	0.3		
April		0.7	**4.2**	-0.4	5.7	-2.8		**4.1**
		0.3	4.3	**4.1**	8.3	-4.6		
		0.6	1.3	1.9	5.3	-2		
		2.2	2.9	-0.5	4.1	5.8		
		6.5	-3.4	3.2	6	0.9		
		10.1	-1.6	-0.4	-0.7	1		
		7.6	8	8.9	-2.2	**-6.1**		
		6.6	5.6	5.5	-3.5	-4.1		
		5.6	2.4	4.3	-2.4	-2.5		
		7.5	9.3	7.5	**2.2**	0.1		
		7.3	7.4	5	-2.6	4.3		

(Data supplied by Shawbury Meteorological Station 2003)

Appendix 20
Temperature dataset 11-day term per month and residuals 1995-2001 Wetland Bird Survey

					Table										
				Temperature Index											
	1995	1996	1997	1998	1999	2000	2001	Median							
September					0	0		0							
October		0	0	0	1	0		0							
November		5	3	2	1	2		2							
December	6	6	3	9	4	3		5							
January	4	1	10	0	1	6	7	4							
February	3	5	5	2	3	1	4	3							
March	5	2	2	2	1	3		2							
April		0	2	3	5	6		3							
					Table										
		Temperature Index Residuals													
		Resid		Resid		Resid		Resid		Resid		Resid		Resid	Median
	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999	2000	2000	2001	2001	
September									0	0	0	0			0
October			0	0	0	0	0	0	1	1	0	0			0
November			5	3	3	1	2	0	1	-1	2	0			2
December	6	1	6	1	3	-2	9	4	4	-1	3	-2			5
January	4	0	1	-3	10	6	0	-4	1	-3	6	2	7	3	4
February	3	0	5	2	5	2	2	-1	3	0	1	-2	4	1	3
March	5	3	2	0	2	0	2	0	1	-1	3	1			2
April			0	-3	2	-1	3	0	5	2	6	3			3

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table C

Corresponding outliers of Mute Swan and Temperature Index WeBS

Month	Mute Swan populations								Temperature Index					
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
September	_	_	_	_	r	2 m		_	_	_	_	_	(0)	_
December	r	2 a	3 b	14 a	0 b	r	_	r	(6) -4.9	(3) -1.5	(9) -7.6	(4) -9.6	r	_
January	r	0 b	5 a	r	_	r	r	r	(1) -0.1	(10) -8.2	r	_	r	r
February	r	r	r	r	3 m	2 b	9 a	r	r	r	r	(3) -5.3	(1) 0.6	(4) -4.4
March	2 a	r	r	r	0 b	7 a	_	(5) -4.0	r	r	r	(1) -2.3	(3) -1.5	_

a: above trend b: below trend m: median ( ): numbers of low temperature days

_: no count and no temperature data c: corresponding outliers r: reverse corresponding outliers

Table D

Reverse corresponding outliers of Mute Swan and Temperature Index WeBS

Month	Mute Swan populations								Temperature Index					
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
September	_	_	_	_	8a	c	_	_	_	_	_	(0)	c	_
October	_	7 a	3 b	5 m	1 b	28 a	_	_	(0)	(0)	(0)	(1) -0.3	(0)	_
November	_	0 b	2 b	13 a	7 a	9 a	_	_	(5) -4.0	(3) -3.4	(2) -1.0	(1) -3.1	(2) -2.7	_
December	0 b	c	c	c	c	2 a	_	(6) -5.3	c	c	c	c	(3) -3.0	_
January	5 a	c	c	9 a	_	2 b	0 b	(4) -9.0	c	c	(0)	_	(6) -5.6	(7) -5.9
February	10 a	0 b	0 b	3 m	c	c	c	(3) -3.2	(5) -10.0	(5) -4.1	(2) -0.7	c	c	c
March	2 a	0 b	4 a	0 b	c	c	_	(5) -4.0	(2) -4.1	(2) -3.3	(2) -1.6	c	c	_
April	_	2 a	1 m	5 a	1 b	0 b	_	_	(0)	(2) -3.4	(3) -0.5	(5) -3.5	(6) -4.8	_

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Corresponding outliers of Whooper Swan and Temperature Index WeBS

Month	Whooper Swan populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
December	r	16 a	r	r	r	r	_	r	(6) -4.9	r	r	r	r	_
January	r	0 b	r	0 b	_	3 a	10 a	r	(1) -0.1	r	(0)	_	(6) -5.6	(7) -5.9
March	r	0 m	0 m	0 m	r	r	_	r	(2) -4.1	(2) -3.3	(2) -1.6	r	r	_

Table H

Reverse corresponding outliers of Whooper Swan and Temperature Index WeBS

Month	Whooper Swan populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
November	_	0 m	0 m	4 a	0 m	2 a	_	_	(5) -4.0	(3) -3.4	(2) -1.0	(1) -3.1	(2) -2.7	_
December	0 m	c	0 m	0 m	2 a	0 m	_	(6) -5.3	c	(3) -1.5	(9) -7.6	(4) -9.6	(3) -3.0	_
January	23 a	c	0 b	c	_	c	c	(4) -9.0	c	(10) -8.2	c	_	c	c
February	13 a	0 b	0 b	0 m	3 a	0 m	0 m	(3) -3.2	(5) -10.0	(5) -4.1	(2) -0.7	(3) -5.3	(1) -0.6	(4) -4.4
March	0 m	c	c	c	1 a	0 m	_	(5) -4.0	c	c	c	(1) -2.3	(3) -1.5	_

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table I

Corresponding outliers of Eurasian Wigeon and Temperature Index WeBS

Month	Eurasian Wigeon populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	_	0 m	0 m	0 m	85 a	r	_	_	(0)	(0)	(0)	(1) -0.3	r	_
December	r	52 a	0 b	48 a	r	r	_	r	(6) -4.9	(3) -1.5	(9) -7.6	r	r	_
January	r	53 b	r	r	_	155 a	r	r	(1) -0.1	r	r	_	(6) -5.6	r
February	r	r	109 a	0 b	r	r	r	r	r	(5) -4.1	(2) -0.7	r	r	r
March	769 a	r	r	r	8 b	192 a	_	(5) -4.0	r	r	r	(1) -2.3	(3) -1.5	_

Table J

Reverse corresponding outliers of Eurasian Wigeon and Temperature Index WeBS

	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	_	c	c	c	c	2 a	_	_	c	c	c	c	(0)	_
November	_	0 b	0 b	60 a	16 a	210 a	_	_	(5) -4.0	(3) -3.4	(2) -1.0	(1) -3.1	(2) -2.7	_
December	19 b	c	c	c	246 a	1370 a	_	(6) -5.3	c	c	c	(4) -9.8	(3) -3.0	_
January	240 a	c	0 b	80 a	_	c	12 b	(4) -9.0	c	(10) -8.2	(0)	_	c	(7) -5.9
February	246 a	30 b	c	c	150 a	87 m	20 b	(3) -3.2	(5) -10.0	c	c	(3) -5.3	(1) -0.6	(4) -4.4
March	c	126 a	110 a	80 b	c	c	_	c	(2) -4.1	(2) -3.3	(2) -1.6	c	c	_

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table K

Corresponding outliers of Eurasian Teal and Temperature Index WeBS

Month	Eurasian Teal populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	_	0 m	0 m	0 m	200 a	r	_	_	(0)	(0)	(0)	(1) -0.3	r	_
November	_	r	r	40 m	r	r	_	_	r	r	(2) -1.0	r	r	_
December	r	r	0 b	4 a	r	r	_	r	r	(3) -1.5	(9) -7.6	r	r	r
January	r	0 b	r	r	_	155 a	r	r	(1) -0.1	r	r	_	(6) -5.6	r
February	84 m	700 a	r	0 b	r	r	r	(3) -3.2	(5) -10.0	r	(2) -0.7	r	r	r
March	362 a	r	r	r	r	100 a	_	(5) -4.6	r	r	r	r	(3) -1.5	_
April	_	r	r	r	r	35 a	_	_	r	r	r	r	(6) -4.8	_

Table L

Reverse corresponding outliers of Eurasian Teal and Temperature Index WeBS

Month	Eurasian Teal populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	_	c	c	c	c	13 a	_	_	c	c	c	c	(0)	_
November	_	0 b	0b	c	80 a	160 a	_	_	(5) -4.0	(3) -3.4	c	(1) -3.1	(2) -2.7	_
December	0 b	0 b	c	c	100 a	201 a	_	(6) -5.3	(6) -4.9	c	c	(4) -9.6	(3) -3.0	_
January	1200 a	c	0 b	36 a	_	c	0 b	(4) -9.6	c	(10) -8.2	(0)	_	c	(7) -5.9
February	84 a	c	6 b	c	125 a	85 a	15 b	(3) -3.2	c	(5) -4.1	c	(3) -6.3	(1) -0.6	(4) -4.4
March	c	34 b	10 b	38 b	57 a	c	_	c	(2) -4.1	(2) -3.3	(2) -1.6	(1) -2.3	c	_
April	_	3 m	70 a	2 b	0 b	c	_	_	(0)	(2) -3.4	(3) -0.5	(5) -3.5	c	_

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table M

Corresponding outliers of Mallard and Temperature Index WeBS

Month	Mallard populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
September	_	_	_	_	r	r	_	_	_	_	_	r	r	_
October	_	26 m	r	r	500 a	r	_	_	(0)	r	r	(1) -0.3	r	_
November	_	r	r	r	r	r	_	_	r	r	r	r	r	_
December	r	24 m	r	53 a	12 b	0 b	_	r	(6) -4.9	r	(9) -7.6	(4) -9.8	(3) -3.0	_
January	r	22 b	r	r	_	107 a	r	r	(1) -0.1	r	r	_	(6) -5.6	r
February	54 m	84 a	r	9 b	r	r	r	(3) -3.2	(5) -10.0	r	(2) -0.7	r	r	r
March	87 a	r	r	r	20 b	29 a	_	(5) -4.0	r	r	r	(1) -2.3	(3) -1.5	_
April	_	7 b	r	12 m	20 a	r	_	_	(0)	r	(3) -0.5	(5) -3.5	r	_

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table N

Reverse corresponding outliers of Mallard and Temperature Index WeBS

Month	Mallard populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
September	_	_	_	_	46 a	2 b	_	_	_	_	_	(0)	(0)	_
October	_	c	5 b	12 b	c	133 a	_	_	c	(0)	(0)	c	(0)	_
November	_	83 a	19 b	136 a	84 m	86 a	_	_	(5) -4.0	(3) -3.4	(2) -1.0	(1) -3.1	(2) -2.7	_
December	6 b	c	37 a	c	c	c	_	(6) -5.3	c	(3) -1.5	c	c	c	_
January	162 a	c	17 b	30 a	_	c	0 b	(4) -9.0	c	(10) -8.2	(0)	_	c	(7) -5.9
								c	[(1) -0.9]	[(9) -7.9]	[(3) -4.2]	_	c	[(6) -13.1
February	c	c	12 b	c	112 a	121 a	31 b	c	c	(5) -4.1	c	(3) -5.3	(1) -0.6	(4) -4.4
March	c	27 b	50 b	21 b	c	c	_	c	(2) -4.1	(2) -3.3	(2) -1.6	c	c	_
April	_	c	26 a	c	c	9 b	_	_	c	(2) -3.4	c	c	(6) -4.8	(0)

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table O

Coresponding outliers of Northern Pintail and Temperature Index WeBS

Month	Northern Pintail populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	_	0 m	0 m	0 m	4 a	0 m	_	_	(0)	(0)	(0)	(1) -0.3	(0)	_
November	_	r	r	10 m	r	r	_	_	r	r	(2) -1.0	r	r	_
December	r	r	0 b	r	r	r	_	r	r	(3) -1.5	r	r	r	_
January	r	4 b	r	r	_	135 a	r	r	(1) -0.1	r	r	_	(6) -5.6	r
February	r	250 a	r	2 b	r	r	r	r	(5) -10.0	r	(2) -0.7	r	r	r
March	65 a	r	r	r	5 b	38 a	_	(5) -4.0	r	r	r	(1) -2.3	(3) -1.5	_
April	_	r	r	0 m	r	r	_	_	r	r	(3) -0.5	r	r	_

Table P

Reverse corresponding outliersof Northern Pintail and Temperature Index WeBS

Month	Northern Pintail populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
November	_	0 b	0 b	c	10 a	320 a	_	_	(5) -4.0	(3) -3.4	c	(1) -3.1	(2) -2.7	_
December	0 b	2 m	c	2 m	140 a	196 a	_	(6) -5.3	(6) -4.9	c	(9) -7.6	(4) -9.8	(3) -3.0	_
January	85 c	c	0 b	127 a	_	c	0 b	(4) -9.0	c	(10) -8.2	(0)	_	c	(7) -5.9
February	70 a	c	0 b	c	15 b	42 a	40 b	(3) -3.2	c	(5) -4.1	c	(3) -5.3	(1) -0.6	(4) -4.4
March	c	9 b	12 b	42 a	c	c	_	c	(2) -4.1	(2) -3.3	(2) -1.6	c	c	_
April	_	4 a	0 m	c	0 m	0 m	_	_	(0)	(2) -3.4	c	(5) -3.5	(6) -4.8	_

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table Q

Corresponding outliers of Northern Lapwing and Temperature Index WeBS

Month	Northern Lapwing populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	_	0 m	0 m	0 m	8 a	r	_	_	(0)	(0)	(0)	(1) -0.3	r	_
December	40 a	r	r	r	r	0 b	_	(6) -5.3	r	r	r	r	(3) -3.0	_
January	r	r	r	r	_	r	r	r	r	r	r	_	r	r
February	r	650 a	r	r	r	28 b	r	r	(5) -10.0	r	r	r	(1) -0.6	r
March	157 a	r	r	r	8 b	r	_	(5) -4.0	r	r	r	(1) -2.3	r	_
April	_	2 b	r	5 b	r	7 a	_	_	(0)	r	(3) -0.5	r	(6) -4.8	_

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table R

Reverse corresponding outliers of Northern Lapwing and Temperature Index WeBS

Month	Northern Lapwing populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
September	_	_	_	_	0 b	6 a	_	_	_	_	_	(0)	(0)	_
October	_	c	c	c	c	9 a	_	_	c	c	c	c	(0)	_
November	_	0 b	0 b	180 a	40 m	300 a	_	_	(5) -4.0	(3) -3.4	(2) -1.0	(1) -3.1	(2) -2.7	_
December	c	0 m	130 a	0 m	212 a	c	_	c	(6) -4.9	(3) -1.5	(9) -7.6	(4) -9.8	c	_
January	785 a	170 a	0 b	200 a	_	62 b	0 b	(4) -9.0	(1) -0.1	(10) -8.2	(0)	_	(6) -5.6	(7) -5.9
February	749 a	c	0 b	40 a	139 a	c	6 b	(3) -3.2	c	(5) -4.1	(2) -0.7	(3) -5.3	c	(4) -4.4
March	c	7 b	118 a	74 a	c	0 b	_	c	(2) -4.1	(2) -3.3	(2) -1.6	c	(3) -1.5	_
April	_	c	15 b	c	3 a	c	_	_	c	(2) -3.4	c	(5) -3.5	c	_

Appendix 21

Tables: corresponding and reverse corresponding outliers of Species and Temperature Index 1995-2001 Wetland Bird Survey

Table S

Corresponding outliers of Eurasian Curlew and temperature Index WEBS

Month	Eurasian Curlew populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
October	_	0 m	0 m	0 m	1 a	0 m	_	_	(0)	(0)	(0)	(1) -0.3	(0)	_
January	0 m	r	r	r	_	r	r	(4) -9.0	r	r	r	_	r	r
February	r	48 a	r	r	r	r	r	r	(5) -10.0	r	r	r	r	r
March	124 a	r	r	r	24 b	3 b	_	(5) -4.0	r	r	r	(1) -2.3	(3) -1.5	_
April	_	r	r	r	3 a	2 a	_	_	r	r	r	(5) -3.5	(6) -4.8	_

Table T

Reverse corresponding outliers of Eurasian Curlew and Temperature Index WeBS

Month	Eurasian Curlew populations							Temperature Index						
	1995	1996	1997	1998	1999	2000	2001	1995	1996	1997	1998	1999	2000	2001
January	c	4 a	0 m	0 m	_	0 m	0 m	c	(1) -0.1	(10) -8.2	(0)	_	(6) -5.6	(7) -5.9
February	1 b	c	0 b	18 a	50 a	35 a	0 b	(3) -3.2	c	(5) -4.1	(2) -0.7	(3) -5.3	(1) -0.6	(4) -4.4
March	c	52 a	40 a	23 b	c	3 b	_	c	(2) -4.1	(2) -3.3	(2) -1.6	c	(3) -1.5	_
April	_	1 m	1 m	0 b	c	c	_	_	(0)	(2) -3.4	(3) -0.5	c	c	_

Appendix 22
4-day term per month Wind Index and residuals 1981-1983

	Table						
	Wind Force Index						
	1981	1982	1983	Median			
Sept	1			1.5			
	2						
	2						
	1						
Oct	3	1		1.5			
	3	1					
	1	1					
	1	3					
Nov	1	1		3			
	2	5					
	2	3					
	3	5					
Dec	1	2		1.75			
	1	1					
	1	3					
	3	3					
Jan		3	4	3			
		2	3				
		3	4				
		2	3				
Feb		1	2	2			
		2	2				
		2	1				
		2	5				
March		5	2	2.75			
		4	2				
		2	1				
		4	1				

(Data supplied by the Met Office, Shawbury 2003)

Appendix 22
4-day term per month Wind Index and residuals 1981-1983

		Table					
	Wind Force Index residuals						
	1981	Resid 1981	1982	Resid 1982	1983	Resid 1983	Median
Sept	1	-0.5					1.5
	2	0.5					
	2	0.5					
	1	-0.5					
Oct	3	1.5	1	-0.5			1.5
	3	1.5	1	-0.5			
	1	-0.5	1	-0.5			
	1	-0.5	3	1.5			
Nov	1	-2	1	-2			3
	2	-1	5	2			
	2	-1	3	0			
	3	0	5	2			
Dec	1	-0.75	2	0.25			1.75
	1	-0.75	1	-0.75			
	1	-0.75	3	1.25			
	3	1.25	3	1.25			
Jan			3	0	4	1	3
			2	-1	3	0	
			3	0	4	1	
			2	-1	3	0	
Feb			1	-1	2	0	2
			2	0	2	0	
			2	0	1	-1	
			2	0	5	3	
March			5	2.25	2	-0.75	2.75
			4	1.25	2	-0.75	
			2	-0.75	1	-1.75	
			4	1.25	1	-1.75	

Appendix 22

4-day term per month Wind Force Index and residuals 1995-2001 Wetland Bird Survey

	1995	1996	1997	1998	1999	2000	2001	Median
Sept					1	3		1.75
					2	2		
					2	2		
					1	1		
Oct		2	1	3	3	2		2.00
		3	1	2	2	1		
		2	3	2	2	2		
		1	2	2	2	2		
Nov		3	3	3	6	2		2.00
		1	1	5	2	2		
		1	2	1	5	2		
		1	1	3	3	2		
Dec	1	2	1	1	3	1		1.25
	1	2	1	2	5	1		
	2	1	2	2	5	1		
	1	1	1	2	3	2		
Jan	2	3	2	3	3	2	1	2.00
	2	3	1	3	4	2	1	
	2	2	2	3	4	2	2	
	3	1	2	4	2	2	3	
Feb	2	4	3	3	4	2	3	3.00
	2	4	3	2	3	4	3	
	3	4	3	2	3	2	1	
	2	2	3	3	3	4	2	
March	3	1	1	2	4	1		2.50
	3	2	2	2	2	2		
	2	3	3	2	3	4		
	2	3	2	4	3	3		
April		3	1	3	2	2		2.50
		2	3	2	1	2		
		2	3	3	2	1		
		4	3	2	1	1		

Appendix 22
4-day term per month Wind Force Index and residuals 1995-2001 Wetland Bird Survey

								Table								
								Wind Force Index residuals								
				Resid 1996	1997	Resid 1997	1998	Resid 1998	1999	Resid 1999	2000	Resid 2000	2001	Resid 2001
									1	-0.75	3	1.25		
									2	0.25	2	0.25		
									2	0.25	2	0.25		
									1	-0.75	1	-0.75		
				0	1	-1	3	1	3	1	2	0		
				1	1	-1	2	0	2	0	1	-1		
				0	3	1	2	0	2	0	2	0		
				-1	2	0	2	0	2	0	2	0		
				1	3	1	3	1	6	4	2	0		
				-1	1	-1	5	3	2	0	2	0		
				-1	2	0	1	-1	5	3	2	0		
				-1	1	-1	3	1	3	1	2	0		
				0.75	1	-0.25	1	-0.25	3	1.75	1	-0.25		
	1995	Resid 1995	1996	0.75	1	-0.25	2	0.75	5	3.75	1	-0.25		
Sept				-0.25	2	0.75	2	0.75	5	3.75	1	-0.25		
				-0.25	1	-0.25	2	0.75	3	1.75	2	0.75		
				1	2	0	3	1	3	1	2	0	1	-1
				1	1	-1	3	1	4	2	2	0	1	-1
Oct			2	0	2	0	3	1	4	2	2	0	2	0
			3	-1	2	0	4	2	2	0	2	0	3	1
			2	1	3	0	3	0	4	1	2	-1	3	0
			1	1	3	0	2	-1	3	0	4	1	3	0
Nov			3	1	3	0	2	-1	3	0	2	-1	1	-2
			1	-1	3	0	3	0	3	0	4	1	2	-1
			1	1.5	1	-1.5	2	-0.5	4	1.5	1	-1.5		
			1	-0.5	2	-0.5	2	-0.5	2	-0.5	2	-0.5		
Dec	1	-0.25	2	0.5	3	0.5	2	-0.5	3	0.5	4	1.5		
	1	-0.25	2	0.5	2	-0.5	4	1.5	3	0.5	3	0.5		
	2	0.75	1	0.5	1	-1.5	3	0.5	2	-0.5	2	-0.5		
	1	-0.25	1	-0.5	3	0.5	2	-0.5	1	-1.5	2	-0.5		
Jan	2	0	3	-0.5	3	0.5	3	0.5	2	-0.5	1	-1.5		
	2	0	3	1.5	3	0.5	2	-0.5	1	-1.5	1	-1.5		
	2	0	2											
	3	1	1											

Appendix 24

3-day per month dataset of water stage heights and residuals at Crew Green 1995-2001 Wetland Bird Survey

Table

Water stage heights of raw dataset and residuals

Month	1995	Resid 1995	1996	Resid 1996	1997	Resid 1997	1998	Resid 1998	1999	Resid 1999	2000	Resid 2000	2001	Resid 2001
Sept									0.215	-0.09	0.324	0.019		
									0.181	-0.124	0.58	0.275		
									0.167	-0.138	**0.425**	0.123		
Oct			0.396	-0.753	1.38	0.229	0.768	-0.363	**2.737**	1.586	2.125	0.974		
			0.355	-0.796	**1.151**	0	**0.875**	-0.276	2.849	1.698	**1.854**	0.703		
			0.294	-0.857	0.988	-0.163	0.985	-0.166	2.356	1.205	1.604	0.453		
Nov			1.309	-1.406	1.054	-1.661	4.006	1.291	**2.715**	0	**3.675**	0.96		
			1.206	-1.509	**1.074**	-1.641	3.446	0.731	2.777	0.062	3.566	0.851		
			1.203	-1.452	1.134	-1.581	**3.721**	1.006	2.308	-0.407	4.13	1.415		
Dec	0.537	-1.592	1.269	-0.86	3.865	1.736	1.238	-0.891	4.586	2.757	5.614	3.485		
	0.491	-1.638	**1.154**	-0.975	**3.089**	0.96	**1.168**	-0.961	5.846	3.717	**5.097**	2.968		
	0.443	-1.681	1.105	-1.024	2.639	0.51	1.11	-1.019	**5.685**	3.556	4.38	2.251		
Jan	3.747	0.805	1.289	-1.653	**0.4**	-2.542	5.116	2.174	2.228	-0.716	3.709	0.766	1.453	-1.489
	3.039	0.097	**1.156**	-1.788	0.389	-2.553	4.621	1.679	**3.951**	1.009	**2.942**	0	**1.359**	-1.583
	3.044	0.102	1.006	-1.936	0.62	-2.322	**5.042**	2.1	5.007	2.065	2.249	-0.693	1.273	-1.669
Feb	4.337	2.119	**2.207**	-0.011	**1.041**	-1.177	0.68	-1.538	**2.218**	0	2.619	0.401	**2.819**	0.601
	3.808	1.59	1.861	-0.357	1.044	-1.174	**0.643**	-1.575	1.975	-0.243	3.39	1.172	2.447	0.229
	3.246	1.028	3.803	1.585	0.936	-1.282	0.606	-1.61	2.412	0.194	**3.143**	0.925	3.733	1.515
March	**3.459**	1.671	0.767	-1.021	1.969	0.181	2.38	0.592	**0.752**	-1.036	2.575	0.757		
	3.017	1.229	0.821	-0.967	**1.647**	-0.141	**1.928**	0.14	0.674	-1.114	**2.022**	0.234		
	3.766	1.977	**0.773**	-1.015	1.446	-0.342	1.667	-0.121	1.016	-0.772	1.672	-0.116		
April			2.3	0.62	0.37	-1.11	**2.561**	1.061	**1.48**	0	1.199	-0.281		
			1.747	0.267	**0.343**	-1.137	2.195	0.715	1.599	0.119	**1.051**	-0.429		
			1.569	0.089	0.335	-1.145	3.044	1.564	1.282	-0.198	0.934	-0.546		