



Appendix 8.3 Survey Details



Table 8- 1: Breeding Wader Survey Weather Data 2022

Date	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
25/04/2022	Dry	0/8	20	F1	W	9	08:30:00	11:30:00	10800
26/04/2022	Dry	1/4	15	F1	W	10	08:30:00	11:30:00	10800
11/05/2022	Occasional showers	4/8	16	F2	WNW	13	09:00:00	15:06:00	21960
07/06/2022	None	3/8	16	F2	SE	16	09:30:00	13:02:00	3360
28/06/2022	Showers	6/8	15	F1	SSW	13	06:50:00	12:50:00	10800



Table 8- 2: Breeding Wader Survey Data 2023

Date	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Duration of survey (sec)
14/04/2023	Occasional showers	6/8	>20	F4	W	9	21600
14/04/2023	Occasional showers	6/8	>20	F4	W	9	21600
14/04/2023	Occasional showers	4/8	16	F2	WNW	13	21600
14/04/2023	None	4/8	16	F2	NW	12	1800
14/04/2023	Single shower	6/8	16	F2	NE	14	21600
14/04/2023	None	4/8	16	F2	NW	12	23400
14/04/2023	Dry	3/8	5	F1	W	8	23400
21/04/2023	6/8	10	F3	E	12	6/8	22500
21/04/2023	6/8	10	F3	E	12	6/8	22500
21/04/2023	6/8	10	F3	E	12	6/8	22500
03/05/2023	None	7/8	16	F3	SE	16	10800
03/05/2023	None	7/8	16	F3	SE	16	10800
05/05/2023	None	8/8	16	F2	S	16	25200
05/05/2023	None	8/8	16	F2	S	16	25200
05/05/2023	None	8/8	16	F2	S	16	25200
05/05/2023	None	8/8	16	F2	S	16	25200



Date	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Duration of survey (sec)
05/05/2023	None	8/8	16	F2	S	16	25200
05/05/2023	None	8/8	16	F2	S	16	25200
05/05/2023	None	8/8	16	F2	S	16	25200
05/05/2023	None	8/8	16	F2	S	16	25200
30/05/2023	None	0/8	16	F2	NE	22	21600
30/05/2023	None	0/8	16	F2	NE	22	21600
30/05/2023	None	0/8	16	F2	NE	22	21600
30/05/2023	None	0/8	16	F2	NE	22	21600
31/05/2023	None	0/8	16	F2	NE	22	14400
31/05/2023	None	0/8	16	F2	NE	22	14400
31/05/2023	None	0/8	16	F2	NE	22	14400
31/05/2023	None	0/8	16	F2	NE	22	14400
20/06/2023	None	6/8	16	F2	E	20	21600
20/06/2023	None	6/8	16	F2	E	20	21600
20/06/2023	None	6/8	16	F2	E	20	21600
20/06/2023	None	6/8	16	F2	E	20	21600
20/06/2023	None	6/8	16	F2	E	20	21600



Date	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Duration of survey (sec)
20/06/2023	None	6/8	16	F2	E	20	21600
20/06/2023	None	6/8	16	F2	E	20	21600
20/06/2023	None	6/8	16	F2	E	20	21600

Table 8- 3: Breeding 2022, Merlin Weather Data

Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
25/04/2022	-	EC	Dry	0/8	20	F1	W	9	11:50:00	15:00:00	10800
26/04/2022	-	EC	Dry	2/8	15	F1	W	10	11:45:00	13:50:00	7200
29/04/2022	-	ML	Dry	1/8	1	F1	S	15	10:17:00	14:12:00	14400
29/04/2022	-	ML	Dry	1/8	1	F1	S	15	10:17:00	14:12:00	14400
29/04/2022	-	ML	Dry	1/8	1	F1	S	15	10:17:00	14:12:00	14400
02/06/2022	-	DMC	None	8/8	16	F1	SSE	10	7:45:00	8:00:00	900
02/06/2022	1	DMC	None	8/8	16	F1	SSE	10	8:47:00	9:47:00	3600
02/06/2022	2	DMC	None	8/8	16	F1	SSE	10	9:49:00	10:49:00	3600
02/06/2022	3	DMC	None	8/8	16	F1	SSE	10	10:56:00	11:56:00	3600
02/06/2022	4	DMC	None	8/8	16	F1	SSE	10	12:30:00	1:30:00	3600



Table 8- 4: Breeding 2023 Merlin Weather Data

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Duration of survey (sec)
21/04/2023	JOC	None	4/8	10	F3	E	12	22500
21/04/2023	JOC	None	4/8	10	F3	E	12	22500
21/04/2023	JOC	None	4/8	10	F3	E	12	22500
21/04/2023	JOC	None	6/8	10	F3	E	12	22500
21/04/2023	JOC	None	6/8	10	F3	E	12	22500
05/05/2023	JOC	None	7/8	10	F3	SSW	15	21600
05/05/2023	JOC	None	7/8	10	F3	SSW	15	21600
05/05/2023	JOC	None	7/8	10	F3	SSW	15	21600
05/05/2023	JOC	None	7/8	10	F3	SSW	15	22600
05/05/2023	JOC	None	7/8	10	F3	SSW	15	21600
12/05/2023	NC	None	4/8	20	F2	NNE	17	14400
13/05/2023	HM	Dry	8/8	2	F1	N	18	21600
13/05/2023	HM	Dry	8/8	2	F1	N	18	21600
13/05/2023	HM	Dry	8/8	2	F1	N	18	21600
15/05/2023	KWP	None	5/8	15	F2	W	11	21600
15/05/2023	KWP	None	5/8	15	F2	W	11	21600
15/05/2023	KWP	None	5/8	15	F2	W	11	21600
22/05/2023	EC	None	3/8	15	F3	N	14	21600
22/05/2023	EC	None	3/8	15	F3	N	17	21600
29/05/2023	EC	Dry	2/8	15	F2	NE	24	14400
29/05/2023	EC	Dry	2/8	15	F2	NE	24	14400
29/05/2023	EC	Dry	2/8	15	F2	NE	24	14400
29/05/2023	CD	Dry	2/8	15	F2	NE	24	15660
29/05/2023	CD	None	1/8	15	F2	ENE	14	15660



Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Duration of survey (sec)
29/05/2023	CD	None	1/8	15	F2	ENE	14	15660
29/05/2023	CD	None	1/8	15	F2	ENE	14	15660
09/06/2023	CD	None	6/8	15	F2	NE	19	14400
09/06/2023	CD	None	6/8	15	F2	NE	19	14400
09/06/2023	CD	None	6/8	15	F2	NE	19	14400
12/06/2023	NL	None	6/8	3	F1	SE	19	18000
12/06/2023	NL	None	6/8	3	F1	SE	19	18000
12/06/2023	JOH	None	6/8	4	F1	SE	19	18000
12/06/2023	JOH	None	6/8	4	F1	SE	19	18000
06/07/2023	HM	Occasional showers	8/8	2	F2	SW	19	14400
06/07/2023	HM	Occasional showers	8/8	2	F2	SW	19	14400
06/07/2023	HM	Occasional showers	8/8	2	F2	SW	19	14400
10/07/2023	EC	Heavy Showers	5/8	15	F3	ESE	16	18000
10/07/2023	EC	Heavy Showers	5/8	15	F3	ESE	16	18000
10/07/2023	EC	Heavy Showers	5/8	15	F3	ESE	16	18000



Table 8- 5: Breeding 2022 Peregrine and Kestrel Weather Data

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
04/04/2022	ML	Constant	8/8	2	F2	NW	12	9:49:00	15:46:00	14400
04/04/2022	ML	Constant	8/8	2	F2	NW	12	9:49:00	15:46:00	14400
04/04/2022	ML	Constant	8/8	2	F2	NW	12	9:49:00	15:46:00	14400
05/13/2022	EC	Dry	4/8	15	F2	W	13	9:10:00	15:00:00	21600
05/13/2022	EC	Dry	4/8	15	F2	W	13	9:10:00	15:00:00	21600
05/13/2022	EC	Dry	4/8	15	F2	W	13	9:10:00	15:00:00	21600
05/13/2022	EC	Dry	4/8	15	F2	W	13	9:10:00	15:00:00	21600
05/13/2022	EC	Dry	4/8	15	F2	W	13	9:10:00	15:00:00	21600
03/06/2022	DMC	None	4/8	16	F2	N	13	8:19:00	9:19:00	3600
03/06/2022	DMC	None	4/8	16	F2	N	13	9:25:00	10:25:00	3600
03/06/2022	DMC	None	4/8	16	F2	N	13	10:50:00	11:50:00	3600
03/06/2022	DMC	None	4/8	16	F2	N	13	12:05:00	13:05:00	3600
08/06/2022	DMC	Occasional showers	4/8	16	F4	WSW	16	9:00:00	16:00:00	21600
24/06/2022	CMCK	Drizzle/rain	8/8	2	F2	SE	14	9:00:00	15:15:00	21600
24/06/2022	CMCK	Drizzle/rain	8/8	2	F2	SE	14	9:00:00	15:15:00	21600
24/06/2022	CMCK	Drizzle/rain	8/8	2	F2	SE	14	9:00:00	15:15:00	21600
24/06/2022	CMCK	Drizzle/rain	8/8	2	F2	SE	14	9:00:00	15:15:00	21600



Table 8- 6: Breeding 2022 Barn Owl Weather Data

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
04/04/2022	ML	Constant	8/8	2	F2	NW	12	9:49:00	3:46:00	14400
04/04/2022	ML	Constant	8/8	2	F2	NW	12	9:49:00	3:46:00	14400
02/06/2022	EKL	Misty	6/8	<1	F2	NE	13	10:55:00	12:25:00	5400
05/07/2022	CMCK	Dry	8/8	5	F2	W	16	7:00:00	10:30:00	12600
05/07/2022	CMCK	Dry	8/8	5	F2	W	16	7:00:00	10:30:00	12600
05/07/2022	CMCK	Dry	8/8	5	F2	W	16	7:00:00	10:30:00	12600
29/08/2022	NC	None	8/8	Good	F1	SSE	19	8:30:00	10:00:00	5400

Table 8- 7: Breeding 2023 Barn Owl Weather Data

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
April23										
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
17/04/2023	EC	Dry	6/8	10	F2	SSE	10	08:45:00	13:50:00	18000
12/06/2023	HM	Dry	7/8	2	F1	W	19	21:38:00	22:02:00	5400



Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
12/07/2023	NA	None	4/8	16	F1	W	15	21:25:00	23:15:00	6600
02/08/2023	CMCK	None	8/8	10	F3	NNW	17	20:57:00	22:27:00	5400

Table 8- 8: Breeding 2023, Kingfisher, Dipper and Grey Wagtail Watercourse surveys Weather Data

Date	Rain	Cloud	Wind Speed	Wind Direction	Start Time	Finish Time	Temperature
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/5/2023	None	6/8	F2	SW	10:15	14:20	13
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
5/29/2023	None	2/8	F2	NE	10:54	16:30	19
27/4/2023	None	8/8	F2	SE	10.30	16.00	12.00



Date	Rain	Cloud	Wind Speed	Wind Direction	Start Time	Finish Time	Temperature
27/4/2023	None	8/8	F2	SE	10.30	16.00	12.00
27/4/2023	None	8/8	F2	SE	10.30	16.00	12.00
27/4/2023	None	8/8	F2	SE	10.30	16.00	12.00
27/4/23	None	8/8	F2	SSE	10:30:00 AM	4:00:00 PM	12°
27/4/23	None	8/8	F2	SSE	10:30:00 AM	4:00:00 PM	12°
27/4/23	None	8/8	F2	SSE	10:30:00 AM	4:00:00 PM	12°
27/4/23	None	8/8	F2	SSE	10:30:00 AM	4:00:00 PM	12°



Table 8- 9: Winter 2022/23, Wintering Wetland Birds Surveys Weather Data

Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
17/10/2022	CMCK	Dry	4/8	10	F2	WSW	12	11:25:00	2:33:00
18/10/2022	CMCK	Occasional showers	7/8	10	F2	N	12	12:26:00	15:50:00
18/10/2022	CMCK	Occasional showers	7/8	10	F2	N	12	12:26:00	15:50:00
18/10/2022	CMCK	Occasional showers	7/8	10	F2	N	12	12:26:00	15:50:00
18/10/2022	CMCK	Occasional showers	7/8	10	F2	N	12	12:26:00	15:50:00



Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	10:30:00	13:40:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
05/01/2023	CMCK	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
10/01/2023	HM	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
10/01/2023	HM	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
10/01/2023	HM	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
10/01/2023	HM	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
10/01/2023	HM	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
10/01/2023	HM	Showers	7/8	5	F4	S	12	13:00:00	15:00:00
27/02/2023	EC	Dry	6/8	15	F3	ESE	5	10:50:00	14:00:00



Date	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-
15/03/2023	CMCK	Constant Rain	8/8	2	F3	SE	9	-	-

Table 8- 10: Winter 2022/23, Winter Red Grouse Survey Weather Data

Date	Precipitation	Temperature	Cloud Cover	Wind Speed	Wind Direction	Visibility
30/01/23	Dry	Cool	>75%	F1	W	Good
30/01/23	Dry	Cool	>75%	F1	W	Good
17-2-23	Dry	Cool	50-75%	F3	W	Good
17-2-23	Dry	Cool	50-75%	F3	W	Good



Table 8- 11: Breeding 2022 HH Weather Data

Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
11/05/2022	1	DMC	Occasional showers	1/2	16	F2	NNW	13	09:00:00	15:06:00	21600
09/06/2022	554542, 669528	CMCK	Occasional showers	7/8	3	F2	SSW	16	11:00:00	13:00:00	7200
10/06/2022	12 O'Clock hill	CMCK	Occasional showers	1/4	15	F2	SSW	15	07:30:00	09:30:00	7200
10/06/2022	553611, 669644	CMCK	Dry	1/2	15	F2	SSW	17	11:00:00	13:30:00	9000
13/06/2022	12 O'Clock hill	CMCK	Occasional showers	8/8	15	F2	W	15	09:50:00	15:50:00	21600
23/06/2022	12 O'Clock hill	CMCK	Light drizzle	8/8	5	F1	W	14	07:30:00	14:00:00	21600
05/07/2022	12 O'Clock hill	CMCK	Dry	8/8	5	F4	WNW	16	15:30:00	18:30:00	10800
18/07/2022	554746, 670808	CMCK	Dry	0/8	20	F1	SE	26	09:00:00	15:30:00	21600
19/07/2022	555120, 669673	CMCK	Occasional showers	8/8	3	F1	NW	18	09:00:00	15:30:00	21600
21/07/2022	554738, 670810	CMCK	Dry	7/8	20	F1	NE	19	09:00:00	15:30:00	21600
01/08/2023	555634, 670196	CMCK	Occasional showers	7/8	5	F2	WSW	16	11:00:00	14:00:00	10800
01/08/2023	555444, 670462	CMCK	None	7/8	10	F2	WSW	16	14:30:00	17:30:00	10800
11/08/2023	555533, 670309	CMCK	None	6/8	10	F4	S	19	11:35:00	14:35:00	10800



Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
11/08/2023	556723, 669888	CMCK	Occasional showers	7/8	10	F3	S	19	15:05:00	18:05:00	10800

Table 8- 12: Winter 2022/23 Hen Harrier Weather Data

Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
04/10/2022	52.776472, -8.686397	CMCK	Light	8/8	3	F2	SSW	15	16:36:00	19:36:00	7200
05/10/2022	52.776472, -8.686397	CMCK	Showers	7/8	5	F3	WNW	13	17:03:00	19:33:00	10800
06/10/2022	52.776472, -8.686397	CMCK	Showers	6/8	10	F4	SW	15	17:30:00	19:31:00	7200
13/10/2022	52.776472, -8.686397	CMCK	Light showers	8/8	5	F2	SE	15	17:15:00	19:15:00	7200
17/10/2022	52.7746404, -8.6716753	CMCK	Dry	6/8	10	F3	WSW	14	17:06:00	19:06:00	7200
03/11/2022	52.777109, -8.709627	ML	Occasional showers	8/8	15	F1	NNW	8	16:30:00	18:00:00	5400
07/11/2022	52.7764720, -8.6863970	SS	Heavy showers	8/8	16	F5	SSE	12	16:20:00	17:50:00	5400
17/11/2022	52.776472, -8.686397	CMCK	Dry	3/8	10	F1	W	8	15:08:00	17:08:00	7200
14/11/2022	52.775407, -8.669208	CMCK	Dry	3/8	10	F3	SSE	8	15:12:00	17:12:00	7200
15/11/2022	52.776472, -8.686397	CMCK	Dry	3/8	10	F2	SE	8	15:11:00	17:11:00	7200
19/12/2022	52.775402, -8.669208	CMCK	None	4/8	15	F3	SW	12	14:50:00	16:50:00	7200



Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
20/12/2022	52.769137, -8.691509	CMCK	Dry/None	6/8	20	F3	SSW	9	14:50:00	16:50:00	7200
21/12/2022	52.776472, -8.686397	CMCK	None	6/8	10	F3	SW	8	14:49:00	11:45:36	7200
22/12/2022	52.776477, -8.686397	CMCK	Light drizzle	6/8	10	F2	N	7	14:51:00	16:51:00	7200
05/01/2023	52.768839, -8.691444	CMCK	Showers	8/8	5	F3	SW	10	15:05:00	17:05:00	7200
08/02/2023	52.7901149, -8.6572698	HM	Light rain	8/8	2	F2	SW	9	17:04:00	18:34:00	5400
09/01/2023	52.789910, -8.657560	CMCK + JOH	None	6/8	5	F2	W	4	15:40:00	17:10:00	5400
20/02/2023	52.775431, -8.668480	CMCK	Showers	8/8	10	F2	SW	10	16:35:00	18:26:00	6660
21/02/2023	52.785176, -8.672540	CMCK	Occasional showers	8/8	15	F3	SSW	10	17:00:00	18:28:00	5280
22/02/2023	52.771342, -8.661576	EM	Heavy Showers	4/8	15	F4	NW	5	17:15:00	18:30:00	4800
22/02/2023	52.776472, -8.686397	CMCK	Rain Showers	6/8	10	F3	NNW	5	16:30:00	18:30:00	7200
23/02/2023	52.776472, -8.686397	CMCK	None	6/8	10	F2	NNE	8	16:30:00	18:30:00	7200
27/02/2023	52.7771740, -8.7103350	EC	Dry	6/8	15	F2	ESE		16:45:00	18:30:00	5400
06/03/2023	553811.46, 669625.47	CMCK	Showers	7/8	10	F2	W	9	16:52:54	18:52:58	7200
07/03/2023	555180.5, 669491.36	CMCK	None	3/8	15	F1	ENE	6	16:54:24	18:54:26	7200
08/03/2023	554523.82, 669523.13	CMCK	None	8/8	5	F2	ENE	6	16:54:37	18:54:41	7200



Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
09/03/2023	557646.06, 670033.61	CMCK	Raining	8/8	3	F3	ENE	2	16:58:44	18:50:54	7200
13/03/2023	555056.56, 669313.64	CMCK	Showers	6/8	15	F3	WSW	12	17:05:03	19:05:07	7200
13/03/2023	555118.9, 669560.59	CMCK	Showers	6/8	15	F3	WSW	12	17:05:03	19:05:07	7200
13/03/2023	555106.1, 669558.23	CMCK	Showers	6/8	15	F3	WSW	12	17:05:03	19:05:07	7200
15/03/2023	555207.49, 669489.97	CMCK	Light drizzle	8/8	2	F3	SSE	11	17:08:49	19:08:58	7200
15/03/2023	555262.46, 669498.04	CMCK	Light drizzle	8/8	2	F3	SSE	11	17:08:49	19:08:58	7200
20/02/2023	52.776235, -8.686500	EM	None	8/8	15	F3	W	10	17:00:00	18:30:00	5400



Table 8- 13: Breeding 2023 Hen Harrier Weather Data

Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
04/04/2023	HH VP	DMC	None	8/8	16	F4	S	11	10:10:00 AM	12:10:00 PM	7200
04/04/2023	HH VP	DMC	None	8/8	16	F4	S	11	12:15:00 PM	2:15:00 PM	7200
04/04/2023	HH VP	DMC	None	8/8	16	F4	S	11	12:15:00 PM	2:15:00 PM	7200
04/04/2023	HH VP	DMC	None	8/8	16	F4	S	11	2:30:00 PM	4:30:00 PM	7200
04/04/2023	HH VP	DMC	None	8/8	16	F4	S	11	2:30:00 PM	4:30:00 PM	7200
13/04/2023	HH VP	DP	Dry	6/8	>20	F4	W	9	10:15:00 AM	4:00:00 PM	21600
13/04/2023	HH VP	DP	Dry	6/8	>20	F4	W	9	10:15:00 AM	4:00:00 PM	21600
19/04/2023	HH VP	CMCK and EM	None	5/8	10	F3	E	8	10:10	16:40	21600
24/04/2023	HH VP	CMCK and EM	Occasional showers	8/8	10	F3	N	5	10:25	16:55	21600
24/04/2023	HH VP	CMCK and EM	Occasional showers	8/8	10	F3	N	5	10:25	16:55	21600
25/04/2023	HH VP	CMCK and EM	None	3/8	15	F1	N	5	09:30	16:00	21600
25/04/2023	HH VP	CMCK and EM	None	3/8	15	F1	N	5	09:30	16:00	21600
25/04/2023	HH VP	CMCK and EM	None	3/8	15	F1	N	5	09:30	16:00	21600
25/04/2023	HH VP	CMCK	None	3/8	15	F1	N	5	09:30	16:00	21600
26/04/2023	HH VP	CMCK	None	7/8	10	F2	ESE	7	09:45	15:45	19800
26/04/2023	HH VP	CMCK	None	7/8	10	F2	ESE	7	09:45	15:45	19800



Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
26/04/2023	HH VP	CMCK	None	7/8	10	F2	ESE	7	09:45	15:45	19800
26/04/2023	HH VP	CMCK	None	7/8	10	F2	ESE	7	09:45	15:45	19800
26/04/2023	HH VP	CMCK	None	7/8	10	F2	ESE	7	09:45	15:45	19800
26/04/2023	HH VP	CMCK	None	7/8	10	F2	ESE	7	09:45	15:45	19800
26/04/2023	HH VP	CMCK	None	7/8	10	F2	ESE	7	09:45	15:45	19800
26/04/2023	HH VP	CMCK	None	7/8	10	F2	ESE	7	09:45	15:45	19800
26/04/2023	HH VP	CMCK and EM	None	7/8	10	F2	ESE	7	09:45	15:45	19800
03/05/2023	HH VP	CMCK	Single shower	7/8	5	F3	ESE	15	10:15	16:45	21600
03/05/2023	HH VP	CMCK	Single shower	7/8	5	F3	ESE	15	10:15	16:45	21600
04/05/2023	HH VP	EM	Heavy Showers	6/8	15	F4	SE	15	09:30	16:00	21600
04/05/2023	HH VP	EM	Heavy Showers	6/8	15	F4	SE	16	09:30	16:00	21600
04/05/2023	HH VP	CMCK	Light Showers	6/8	16	F3	ESE	16	09:30	12:30	10800
04/05/2023	HH VP	CMCK	Light Showers	8/8	16	F3	E	16	13:45	16:30	9900
04/05/2023	HH VP	CMCK	Light Showers	4/8	10	F3	E	15	10:05	16:35	4/8
04/05/2023	HH VP	DMC	Occasional showers	6/8	16	F3	ESE	15	09:30	12:30	10800
04/05/2023	HH VP	DMC	Occasional showers	8/8	16	F3	E	11	13:45	16:30	9900
05/05/2023	HH VP	EM	Occasional showers	8/8	15	F3	S	11	09:30	16:00	21600
05/05/2023	HH VP	CMCK	Occasional showers	7/8	10	F3	S	15	09:05	15:35	21600



Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
15/05/2023	HH VP	CMCK	None	6/8	10	F2	NW	11	09:55	16:25	21600
16/05/2023	HH VP	CMCK	None	2/8	15	F2	WNW	15	13:00	18:30	18000
17/05/2023	HH VP	CMCK	None	7/8	10	F2	SE	13	10:20	16:50	21600
29/05/2023	Nest Watch	NC	None	2/8	15	F3	E	18	10:30	17:00	23400
29/05/2023	Nest Watch	NC	None	2/8	15	F3	E	18	10:30	17:00	23400
29/05/2023	HH VP	CG	None	3/8	20	F2	E	19	11:30:00	16:30:00	18000
29/05/2023	HH VP	CG	None	3/8	20	F2	E	19	11:30:00	16:30:00	18000
29/05/2023	HH VP	CG	None	3/8	20	F2	E	19	11:30:00	16:30:00	18000
29/05/2023	HH VP	CG	None	3/8	20	F2	E	19	11:30:00	16:30:00	18000
06/06/2023	HH VP	CMCK	None	1/8	15	F1	N	19	10:20	16:50	21600
06/06/2023	HH VP	DMC	None	5/8	16	F2	ENE	22	15:30	17:30	7200
06/06/2023	HH VP	DMC	None	5/8	16	F2	ENE	22	19:00	21:00	7200
07/06/2023	HH VP	DMC	None	6/8	16	F2	ENE	22	15:30	17:30	7200
07/06/2023	HH VP	DMC	None	6/8	16	F2	ENE	22	18:30	21:00	9000
08/06/2023	HH VP	CMCK	None	3/8	15	F2	NE	20	11:20	17:50	21600
09/06/2023	HH VP	CMCK	None	3/8	15	F2	NE	18	09:15	15:45	21600
23/06/2023	HH VP	JOH	Occasional showers	8/8	4	F5	SSE	19	9:55:00 AM	3:00:00 PM	18300
23/06/2023	HH VP	JOH	Occasional showers	8/8	4	F5	SSE	19	9:55:00 AM	3:00:00 PM	18300
23/06/2023	HH VP	JOH	Occasional showers	8/8	4	F5	SSE	19	9:55:00 AM	3:00:00 PM	18300
01/08/2023	HH VP	CMCK	Occasional showers	7/8	5	F2	WSW	16	11:00	14:00	10800
01/08/2023	HH VP	CMCK	None	7/8	10	F2	WSW	16	14:30	17:30	10800
11/08/2023	HH VP	CMCK	None	6/8	10	F4	S	19	11:35	14:35	10800



Date	VP Name	Observer	Rain	Cloud	Visibility (km)	Wind Speed	Wind Direction	Temp.	Start Time	End Time	Duration of survey (sec)
11/08/2023	HH VP	CMCK	Occasional showers	7/8	10	F3	S	19	15:05	18:05	10800