



**POPULATION and DISTRIBUTION
of
BEAN GEESE
in the
SLAMANNAN AREA
2007/2008**

THE BEAN GOOSE ACTION GROUP

**REPORT BY
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1 Summary

This report details the results of a study undertaken between September 2007 to March 2008, to monitor the population and distribution of the central Scotland flock of bean geese (*Anser fabalis fabalis*), which use the Slamannan Plateau area of central Scotland. This is a continuation of research started in January 1990, presented elsewhere, (Simpson 1990-1993. Smith et al 1994 and 1995, Simpson and Maciver 1996-2005, Maciver 2006, 2007).

The first record this winter was on 28th September when 41 birds were seen at Blackhill. Numbers increased during the month of October with the flock reaching its peak count of 300 birds on 27th October. The last record was on 24th February when the total flock were seen at the roost site on Fannyside Muir.

The birds utilised the rich pasture at Luckenburn Farm during the early winter as normal before moving to other areas of the plateau from early November onwards.

Disturbance figures recorded were again quite low and it is pleasing to note that no birdwatchers were seen to disturb the flock.

The loss of approximately half the flock last winter has been possibly explained with information received that a large flock of bean geese were seen in south Kintyre during February 2008.

Roosting was observed again at the Fannyside Lochs with the surrounding moorland site being used extensively.

A new Site of Special Scientific Interest (SSSI) on the Slamannan plateau notified for wintering taiga Bean Geese was confirmed by Scottish Natural Heritage's (SNH) Main Board on 5 September 2007. This will help protect Scotland's only population of taiga bean geese (*Anser fabalis fabalis*).

The plateau's importance for bean geese is emphasised by the fact that it is also being considered as a proposed Special Protection Area (SPA) under the EU Birds Directive. SNH have conducted a consultation exercise on the pSPA and have presented the consultation report to Scottish Ministers who determine whether or not the SPA should be classified.

2 Introduction

This study is the continuation of research into the use of the Slamannan Plateau by bean geese (*Anser fabalis fabalis*). It follows on from the work done by Simpson (1989-95), Maciver (1993-95), Smith et al. (1993-95), Simpson and Maciver (1995/96, 1996/97, 1997/98, 1998/99, 1999/00, 2000/01, 2001/02, 2002/03, 2003/04, 2004/05, Maciver 2006/07, 2007/08) for Scottish Natural Heritage (SNH) Falkirk Council, North Lanarkshire Council, Central Scotland Forest Trust (CSFT).

Other members of the Bean Goose Action Group (BGAG): who use the information contained in this report are: Forestry Commission, Forest Enterprise, Scottish Agricultural College, Farming & Wildlife Advisory Group (FWAG), Royal Society for the Protection of Birds.

The 2007/08 survey programme "Population and Distribution of bean geese in the Slamannan Area" again monitored daytime distribution and roost site selection.

2.1 Population and Distribution

- a) Routine observations. (See 3.1.1)
- b) Visiting Roost Sites. (See 3.1.2)

3 Methods

3.1 Field Numbering

The numbering system as used by Smith et al. (1994/95) was again adopted for continuity. As a result of the implementation of the Natural Care Scheme a number of fields at Grangeneuk, Garbethill, Beam and Tippetcraig have been split into different sections in order that the proposed management prescriptions can be monitored for goose usage. Such fields will be numbered 38A, 38B etc.

3.1.1 Diurnal distribution of Bean Geese

There were approximately 100 visits to record bean geese between late September and early March. A visit consists of monitoring all geese species within the study area and takes place several times per week. These routine observations can take place at any time of day with no particular set pattern. On some occasions the flock are seen leaving the roost area with their direction of flight being noted. They are then re-located and observations made of what fields they are feeding in. The duration of a visit is generally between two and six hours. When two separate visits to the plateau occur in one day (e.g. a.m. and p.m.) to the same location bean geese are recorded in the same field a.m. and p.m. The following are recorded on each visit.

- Number of Bean Geese and location.
- Number of other geese and location
- Disturbance factors.

3.1.2 Roost Sites

The roost area is situated at Fannyside Lochs and the nearby Fannyside Muir. In the morning it is necessary to be at the roost area one hour before dawn as bean geese often leave the roost as soon as daylight appears on the horizon. Lighting conditions are often poor so counts of the geese can be difficult. In the evening the birds do not come to roost until well after dusk so counting can again be difficult. Much depends on how the birds leave or arrive. If they move in small groups good counts are possible but if they move in one large flock then it is more demanding.

4 Results and analysis

4.1 Population and distribution

Observations began in late September, with the first record on the 28th of a group of 41 birds being seen at Blackhill. Later that day 81 birds were seen at the roost site at East Fannyside Loch. Numbers increased on 1st October with a count of 137 birds being recorded at Luckenburn. A further large increase took place two days later when a count was made of 230 birds at the same location. By the 10th of the month a further small increase had taken place when 262 birds were recorded. The 27th of the month saw the flock size reach 300 birds and this total was not exceeded. On many occasions however the total flock were not seen during daylight hours or at the roost site.

As in previous years Luckenburn Farm was used extensively for feeding in the early part of the winter, but thereafter the flock split up to feed in many different groups covering a wide area. A noted change this winter was the return of part of the flock to feed at Luckenburn during February.

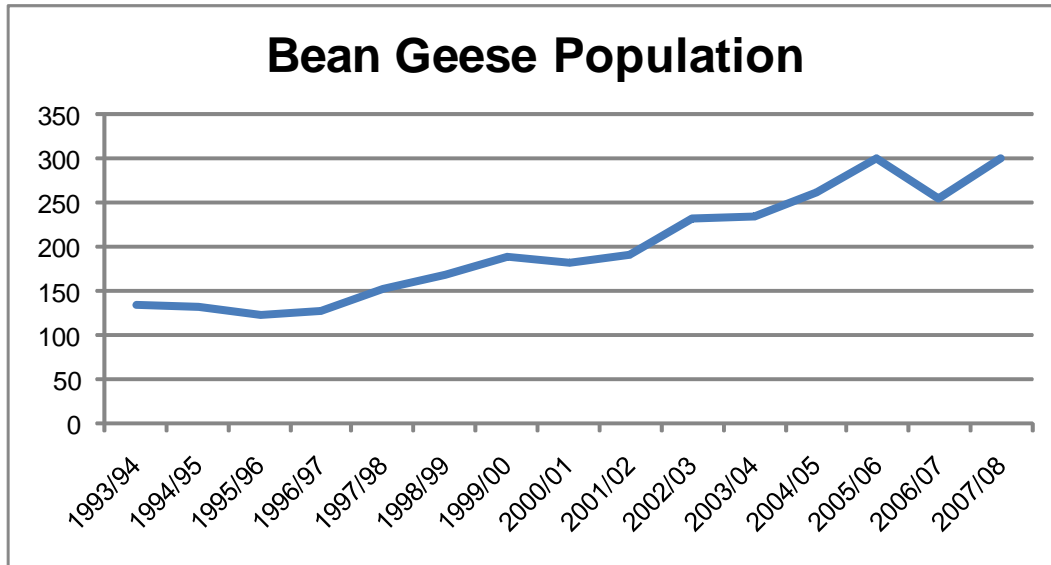
The last record of the winter was on 24th February when the whole flock of 300 birds were seen at the roost site on Fannyside Muir.

Recording of Juvenile Geese

On 13 October 2007 at Luckenburn (NS8172) Carl Mitchell of the Wildfowl and Wetlands Trust (WWT) managed to age 103 birds in a flock of 143 of which 77 were adults and 26 were young (25.2% young). Broods included 3, 2, 2, 2, 2, 2 (mean brood size = 2.17 young).

It should be borne in mind that this was a relatively small sample size (only a third of the birds wintering here) and it may be that this group of birds, might have contained a disproportionately large number of families.

Figure 1 - Peak bean goose population on the Slamannan Plateau



4.1.1 Diurnal distribution (see map - showing location of sites)

- Routine records

The bean geese distribution using all available records taken throughout the winter 2007/08, are recorded by numbered fields in the study area. These are summarised in **Appendix 1**. Additional information on each record is noted in **Appendix 1V**.

- Other Geese species

Two Greylags were present at Luckenburn on 7th October. Numbers did not increase until mid December when 240 were seen at the roost site on Fannyside Muir. After that it was not until 24th January when another flock of 250 birds were seen at the same location. On February 1st, 40 were seen to come in to roost on East Fannyside Loch. On the 28th February 80 Greylag were seen on Fannyside Muir at dusk.

The first flock of Pinkfeet were of 600 birds seen on 22nd October at Wester Jaw Farm. During early November this flock stayed in this locality although the numbers recorded were 400 at times. On 12th December a flock of 100 were seen at dusk landing on west Fannyside Loch. In late January a flock of 300 birds were seen in the area of Hillend and Wester Jaw Farms.

A flock of 21 Canada Geese were seen on Fannyside Muir on 28th September. The only record of Barnacle Geese this winter was on 25th November when one bird was seen amongst a small group of bean geese at West Fannyside Farm.

4.1.2 Roost Sites

A total of 27 visits were made to record roosting behaviour. Some negative counts were made at the beginning and end of the wintering period. Negative counts also tend to be made during periods of cold clear weather when the geese often stay out in their feeding areas. Once again the most favoured area was Fannyside Muir. West Fannyside Loch was seen to be used three times and East Fannyside loch nine times. On one evening a group of 30 birds were seen to flight to Garbethill Muir at dusk. A small group of 6 birds that frequented a field on Easter Jawcraig Farm in late November were seen to roost in a flooded mine shaft adjacent to field 109. These figures do not represent a complete picture as the flock often moves during the night between lochs and moor.

5 Disturbance

As observations were not continuous, many occurrences of disturbance were undoubtedly missed. Where bean geese were clearly seen to be disturbed and the cause identified, these were recorded.

The types of disturbance were categorised as follows, and were used in combination if appropriate:

Farming	Birds of Prey`
Formal Shooting	Helicopter
Sheep	Low flying aircraft
Vehicles	Microlight
Foxes	Birdwatchers
Dog Walker	Accidentally flushed

The bean geese were seen to be disturbed on 12 occasions throughout the study period. The following details are from observations during routine visits.

Farming	4
Accidentally flushed	7
Dog Walker	1
Total	12

The farming activities that cause disturbance to the geese generally consist of a farmer visiting the field to check on stock. During tuppung time this can occur once per day at no particular time. The geese generally leave the area and either land on a nearby muir to loaf or fly off to another feeding field. A return to the original field can occur after a period of approximately one hour of loafing. Accidental flushing takes places when geese are hidden by a contour line in a field when a routine search is being made to locate them. They often fly off a short distance before resuming grazing in an adjoining field.

5.1 Ringed Geese

The bean goose flock was searched whenever possible for ringed individuals, but none were seen.

6 Discussion

The population count this winter reached a total of 300 birds, see Figure 1.

In the Yare Valley to the east of Norwich the regular flock there reached a maximum of 136 birds for winter 2007/08. (183-2002/03, 124-2003/04, 136-2004/05,169-2005/06,111-2006/07)

The pattern of feeding was similar to previous years with the birds exploiting rich pasture at Luckenburn Farm on their arrival on the plateau.

From the 1st of November onwards the bean geese flock spread out into other areas of the plateau for the rest of the winter period. A change this winter was the return of part of the flock to

Luckenburn in February. This was made possible by sheep being removed from a field and allowing the grass to recover enough to attract the geese.

Our loss of almost half the flock last winter was a strange happening but it came to light that a flock of c150 bean geese were seen in South Kintyre during February 2007. This record was reported by ornithologists surveying the area for a wind farm. I have spoken with them about their observation and accept their findings. It is difficult to prove that this was part of the Slamannan flock as none of our birds are marked but it is highly possible that it was.

Birdwatching groups have again been catered for with contact being made with the Monitoring Officer to arrange a visit to the plateau to see the bean geese flock. This is a positive way to manage visitors to the area and to minimise disturbance to farmers/landowners and the bean geese.

The data within this report is joint owned by the funding partners, Scottish Natural Heritage, Falkirk Council, North Lanarkshire Council and the Central Scotland Forest Trust. The data is free to be used by others, but its use should acknowledge these organisations.

7 Acknowledgements

The Landowners of the study area, who gave permission for access to their lands for fieldwork.

A grateful thanks to the Willie Eglinton who submitted records to be included this report.

Thanks to Ian Bray and Katrina Marshall, Scottish Natural Heritage for comments to the draft report.

A special thanks to Carl Mitchell, The Wildfowl and Wetlands Trust (WWT) who supplied the information on juveniles within the bean goose flock.

8 References

Simpson, J. 1990, 1991, 1992, 1993. Bean Geese winter Reports. Unpublished.

Simpson, J and Maciver, A. A Population and Distribution of Bean Geese in the Slamannan Area 1996-2005, Maciver A 2006, 2007. <http://www.bean-geese.pwp.blueyonder.co.uk/reports1.htm>

Smith, Bainbridge, and O'Brien, Distribution and Habitat Use by Bean Geese in the Slamannan Area 1994, 1995. unpublished RSPB Report.

9 Bean Geese Scotland

Additional information can be found on a web site created and run by volunteers, which operates through the winter season. It can be found at <http://www.bean-geese.pwp.blueyonder.co.uk>

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Appendix I

Bean Geese Survey Data 2007/2008 Bird days per field

FIELD No	Total NUMBER OF BEAN GEESE						TOTAL NUMBER	AVERAGE MONTHLY BIRD DAYS	No of POSITIVE VISITS
	Sep	Oct	Nov	Dec	Jan	Feb			
9	89	3391	20			666	4166	694	27
77		633	464	903	554	475	3029	505	20
401	81	410	340	600		300	1731	289	10
305	112	1081					1193	199	10
48			639	280	118	90	1127	189	14
339			673	142			815	136	9
26		94	11	347	40	72	564	94	11
8	41		161	176	8	42	428	71	12
25				417			417	70	4
14		415					415	69	3
170			223	138	50		411	69	4
303		196				172	368	61	2
80		169	35	116	41		361	60	4
38			78	185		47	310	52	4
343			206			86	292	49	3
400		140	130				270	45	3
24			4	206	60		270	45	7
29				78	130		208	35	2
51			80	66	25		171	29	3
342			49		80		129	22	2
346			67	35			102	17	2
344			62	13			75	13	2
109			41	24	6		71	12	12
53					64		64	11	1
340			62				62	10	1
93			30	7			37	6	2
13			24				24	4	1
30				19			19	3	1
295				8			8	1	1

Appendix II

Greylag Geese Survey Data 2007/2008

Bird-Days per Month

FIELD No	TOTAL NUMBER OF GREYLAG						TOTAL	AVERAGE
	Sep	Oct	Nov	Dec	Jan	Feb		
77				320	450	120	890	148
400				200			200	33
305		2					2	0

Appendix III

Pinkfeet Geese Survey Data 2007/2008

Bird-Days per Month

FIELD No	TOTAL NUMBER OF PINKFEET						TOTAL	AVERAGE
	Sep	Oct	Nov	Dec	Jan	Feb		
120		600	800		300		1700	283
261					300		300	50
101			200				200	33
400				100			100	17
278			37				37	6
100						11	11	2
254					11		11	2

Appendix IV

Bean Geese Survey Records 2007/2008

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
24/09/2007	11:08	LUCKENBURN	9	819722	IP			0		NONE	ROUTINE
28/09/2007	10:30	BLACKHILL	8	817778	IP			41		NONE	ROUTINE
28/09/2007	18:39	LUCKENBURN	305	822722	IP			23		NONE	ROUTINE
28/09/2007	19:20	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
28/09/2007	19:20	EAST FANNYSIDE LOCH	401	807736	OW			81		NONE	ROOST
30/09/2007	12:30	LUCKENBURN	9	819722	IP			89		NONE	ROUTINE
30/09/2007	16:00	LUCKENBURN	305	822722	IP	SHEEP	4	89		NONE	ROUTINE
01/10/2007	12:15	LUCKENBURN	305	822722	IP	SHEEP	4	137		NONE	ROUTINE
02/10/2007	11:25	LUCKENBURN	305	822722	IP	SHEEP	3	115		NONE	ROUTINE
02/10/2007	11:25	LUCKENBURN	9	819722	IP		0	24		NONE	ROUTINE
03/10/2007	12:45	LUCKENBURN	305	822722	IP	SHEEP	3	90		NONE	ROUTINE
03/10/2007	12:45	LUCKENBURN	9	819722	IP		0	11		NONE	ROUTINE
04/10/2007	11:30	LUCKENBURN	9	819722	IP		0	230		NONE	ROUTINE
07/10/2007	09:45	LUCKENBURN	305	822722	IP	SHEEP	4	105		NONE	ROUTINE
07/10/2007	09:45	LUCKENBURN	9	819722	IP		0	139		NONE	ROUTINE
08/10/2007	11:15	LUCKENBURN	9	819722	IP			129		NONE	ROUTINE
08/10/2007	11:20	BLACKHILL	26	821727	J	CATTLE	12	94		NONE	ROUTINE
10/10/2007	11:40	LUCKENBURN	9	819722	IP			160		NONE	ROUTINE
10/10/2007	18:45	LUCKENBURN	9	819722	IP			262		NONE	ROUTINE
10/10/2007	19:32	EAST FANNYSIDE LOCH	401	807736	OW			100		NONE	ROOST
10/10/2007	19:32	FANNYSIDE MUIR	77	804740	M			162		NONE	ROOST
12/10/2007	11:15	LUCKENBURN	305	822722	IP	SHEEP	4	231		NONE	ROUTINE
13/10/2007	12:50	FANNYSIDE MILL	14	811730	M			189		NONE	ROUTINE
14/10/2007	10:45	LUCKENBURN	305	822722	IP	SHEEP	4	23		NONE	ROUTINE
14/10/2007	10:45	LUCKENBURN	9	819722	IP			230		NONE	ROUTINE
15/10/2007	07:20	WEST FANNYSIDE LOCH	400	800735	OW			120		NONE	ROOST
15/10/2007	07:20	FANNYSIDE MUIR	77	804740	M			140		NONE	ROOST

15/10/2007	08:10	LUCKENBURN	305	822722	IP	SHEEP	4	248		NONE	ROUTINE
17/10/2007	10:55	LUCKENBURN	305	822722	IP	SHEEP	4	132		FARMING	ROUTINE
17/10/2007	10:55	LUCKENBURN	9	819722	IP			112		FARMING	ROUTINE
17/10/2007	11:10	FANNYSIDE MILL	14	811730	M			107		NONE	ROUTINE
17/10/2007	15:30	LUCKENBURN	9	819722	IP			270		NONE	ROUTINE
19/10/2007	10:30	LUCKENBURN	9	819722	IP			200		NONE	ROUTINE
19/10/2007	19:18	WEST FANNYSIDE LOCH	400	800735	OW			20		NONE	ROOST
19/10/2007	19:22	FANNYSIDE MUIR	77	804740	M			60		NONE	ROOST
19/10/2007	19:18	EAST FANNYSIDE LOCH	401	807736	OW			60		NONE	ROOST
21/10/2007	07:34	FANNYSIDE MUIR	77	804740	M			271		NONE	ROOST
21/10/2007	08:15	LUCKENBURN	9	819722	IP			271		NONE	ROUTINE
22/10/2007	10:55	LUCKENBURN	303	820719	IP	SHEEP	5	196		NONE	ROUTINE
22/10/2007	12:30	WESTER JAW	120	847746	IJ			0		NONE	ROUTINE
23/10/2007	19:10	EAST FANNYSIDE LOCH	401	807736	OW			250		NONE	ROOST
24/10/2007	12:50	LUCKENBURN	9	819722	IP			166		NONE	ROUTINE
25/10/2007	10:30	LUCKENBURN	9	819722	IP			279		NONE	ROUTINE
25/10/2007	10:45	LUCKENBURN	9	819722	IP			294		NONE	ROUTINE
27/10/2007	15:00	LUCKENBURN	9	819722	IP			300		NONE	ROUTINE
28/10/2007	09:30	LUCKENBURN	9	819722	IP			300		NONE	ROUTINE
29/10/2007	11:45	FANNYSIDE MILL	14	811730	M			119		NONE	ROUTINE
01/11/2007	13:40	BEAM FARM	170.B	836763	IJ	SHEEP	50	123		NONE	ROUTINE
31/10/2007	14:30	LUCKENBURN	9	819722	IP			14		NONE	ROUTINE
31/10/2007	15:00	GARBETHILL	80	824748	IJ			169		NONE	ROUTINE
02/11/2007	14:30	PARKHEAD	278	838741	IJ			0		NONE	ROUTINE
02/11/2007	10:45	BEAM FARM	170.B	836763	IJ	SHEEP	50	100		ACC FLUSHED	ROUTINE
02/11/2007	16:00	GARBETHILL	48.D	820756	IJ			130		NONE	ROUTINE
02/11/2007	16:00	BANDOMINIE	343	804765	IJ			160		NONE	ROUTINE
03/11/2007	15:45	GARBETHILL	48.G	820756	IJ			174		NONE	ROUTINE
03/11/2007	13:00	LUCKENBURN	9	819722	IP			20		NONE	ROUTINE
03/11/2007	17:20	FANNYSIDE MUIR	77	804740	M			174		NONE	ROOST
03/11/2007	17:30	GARBETHILL	93	834758	M			30		NONE	ROOST
05/11/2007	11:25	BANDOMINIE	346	801767	IJ			67		NONE	ROUTINE

05/11/2007	09:00	EASTER JAWCRAIG	109	856757	J	CATTLE	29	6		NONE	ROUTINE
06/11/2007	10:00	WESTER JAW	120	847746	IJ			0		NONE	ROUTINE
07/11/2007	09:00	WESTER JAW	120	847746	IJ			0		NONE	ROUTINE
08/11/2007	09:20	EASTER JAWCRAIG	101	848750	IP			0		NONE	ROUTINE
08/11/2007	13:15	BANDOMINIE	344	807761	J			62		NONE	ROUTINE
08/11/2007	13:25	BANDOMINIE	343	804765	J			46		NONE	ROUTINE
09/11/2007	17:16	EAST FANNYSIDE LOCH	401	807736	OW			290		NONE	ROOST
11/11/2007	07:40	TIPPETCRAIG	339.B	827768	IJ			141		NONE	ROUTINE
14/11/2007	08:00	LOCHGREEN	342	813771	IP			49		NONE	ROUTINE
14/11/2007	08:20	TIPPETCRAIG	339.B	827768	IJ			79		FARMING	ROUTINE
14/11/2007	11:30	GARBETHILL	48.G	820756				10		NONE	ROUTINE
14/11/2007	11:35	FANNYSIDE MILL	24	810735	RIP			1		NONE	ROUTINE
14/11/2007	12:20	EASTER JAWCRAIG	109	856757	J			5		NONE	ROUTINE
15/11/2007	13:25	BLACKHILL	8	817728	IP			16		NONE	ROUTINE
15/11/2007	13:50	GARBETHILL	48.G	820756	IJ			120		ACC FLUSHED	ROUTINE
15/11/2007	13:52	GARBETHILL	48.I	823756	IJ			120		NONE	ROUTINE
15/11/2007	14:30	TIPPETCRAIG	339.B	827768	IJ			42		NONE	ROUTINE
18/11/2007	11:50	BLACKHILL	26	821727	J			11		NONE	ROUTINE
19/11/2007	07:15	TIPPETCRAIG	339.B	827768	IJ			170		NONE	ROUTINE
21/11/2007	14:00	TIPPETCRAIG	339.B	827768	IJ			150		NONE	ROUTINE
22/11/2007	13:20	FANNYSIDE MILL	24	810735	RIP			1		NONE	ROUTINE
22/11/2007	13:55	GARBETHILL	51.C	813757	IJ			80		NONE	ROUTINE
22/11/2007	13:35	GARBETHILL	48.F	813757	IJ			15		ACC FLUSHED	ROUTINE
22/11/2007	17:18	WEST FANNYSIDE LOCH	400	800735	OW			130		NONE	ROOST
22/11/2007	17:18	EAST FANNYSIDE LOCH	401	807736	OW			50		NONE	ROOST
22/11/2007	17:18	FANNYSIDE MUIR	77	804740	M			40		NONE	ROOST
25/11/2007	07:35	TIPPETCRAIG	339.B	827768	IJ			41		NONE	ROUTINE
25/11/2007	07:50	GARBETHILL	80.M	823748	IJ			35		NONE	ROUTINE
25/11/2007	07:59	EASTER FANNYSIDE	38.B	815742	IJ			78		NONE	ROUTINE
25/11/2007	08:15	BLACKHILL	8	817728	IP			13		NONE	ROUTINE
25/11/2007	08:24	WEST FANNYSIDE	13	803726	IJ			24		NONE	ROUTINE
25/11/2007	08:44	EASTER JAWCRAIG	109	856757	J			6		NONE	ROUTINE

11/01/2008	16:30	GARBETHILL	48.E	817756	IJ			65		NONE	ROUTINE
16/01/2008	14:30	TIPPETCRAIG	339.B	827768	IJ	SHEEP	100	0		NONE	ROUTINE
16/01/2008	15:20	GARBETHILL	53.B	812757	IJ			0		NONE	ROUTINE
19/01/2008	07:32	FANNYSIDE MUIR	77	804740	M			140		NONE	ROOST
19/01/2008	07:55	FANNYSIDE MUIR	77	804740	M			100		NONE	ROOST
19/01/2008	08:10	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
22/01/2008	13:45	BLACKHILL	26	821727	J			0		NONE	ROUTINE
22/01/2008	14:15	BANDOMINIE	343	804765	J			0		NONE	ROUTINE
23/01/2008	11:00	EASTER JAWCRAIG	109	856757	J	SHEEP	20	6		NONE	ROUTINE
24/01/2008	17:25	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
27/01/2008	07:40	FANNYSIDE MUIR	77	804740	M			134		NONE	ROOST
28/01/2008	12:30	WESTER JAW	261	850738	IP			0		NONE	ROUTINE
28/01/2008	12:30	HILLEND	254	847733	IP			0		NONE	ROUTINE
30/01/2008	12:50	EASTER JAWCRAIG	120	847746	IJ			0		NONE	ROUTINE
30/01/2008	14:25	WESTER LOCHGREEN	342	813771	IP			80		NONE	ROUTINE
01/02/2008	15:15	GARBETHILL	48.G	820756	IJ			90		NONE	ROUTINE
01/02/2008	15:35	JAWCRAIG	100	844750	IP			0		NONE	ROUTINE
01/02/2008	17:40	FANNYSIDE MUIR	77	804740	M			80		NONE	ROOST
01/02/2008	17:40	EAST FANNYSIDE LOCH	401	807736	M			100		NONE	ROOST
03/02/2008	11:38	LUCKENBURN	9	819722	RIP			32		NONE	ROUTINE
04/02/2008	13:05	BLACKHILL	8	817728	IP			27		NONE	ROUTINE
05/02/2008	11:15	BANDOMINIE	343	804765	J			86		NONE	ROUTINE
05/02/2008	11:40	LUCKENBURN	9	819722	RIP			15		NONE	ROUTINE
06/02/2008	13:40	BLACKHILL	8	817728	IP			13		NONE	ROUTINE
06/02/2008	13:40	BLACKHILL	26	821727	J			5		NONE	ROUTINE
08/02/2008	07:50	EAST FANNYSIDE	38.B	815742	IJ	SHEEP	17	47		NONE	ROUTINE
09/02/2008	14:40	BLACKHILL	26	821727	J			26		NONE	ROUTINE
13/02/2008	13:00	BLACKHILL	26	821727	J			15		NONE	ROUTINE
13/02/2008	18:00	FANNYSIDE MUIR	77	804740	M			95		NONE	ROOST
13/02/2008	18:00	EAST FANNYSIDE LOCH	401	807736	OW			200		NONE	ROOST
14/02/2008	10:35	LUCKENBURN	9	819722	RIP			135		NONE	ROUTINE
17/02/2008	10:30	LUCKENBURN	9	819722	RIP			117		NONE	ROUTINE

18/02/2008	12:40	LUCKENBURN	9	819722	RIP			173		NONE	ROUTINE
21/02/2008	09:30	LUCKENBURN	9	819722	RIP			166		NONE	ROUTINE
23/02/2008	13:30	LUCKENBURN	303	820719	IP			172		NONE	ROUTINE
24/02/2008	10:50	LUCKENBURN	9	819722	RIP			28		NONE	ROUTINE
24/02/2008	11:10	BLACKHILL	26	821727	J			24		NONE	ROUTINE
24/02/2008	11:10	BLACKHILL	8	817728	IP			2		NONE	ROUTINE
24/02/2008	17:00	BLACKHILL	26	821727	J			2		NONE	ROUTINE
24/02/2008	18:25	FANNYSIDE MUIR	77	804740	M			300		NONE	ROOST
27/02/2008	13:00	LUCKENBURN	9	829722	RIP			0		NONE	ROUTINE
27/02/2008	13:20	BANDOMINIE	343	804765	J			0		NONE	ROUTINE
27/02/2008	13:50	TIPPETCRAIG	339.B	827768	IP	SHEEP	100	0		NONE	ROUTINE
28/02/2008	18:30	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
01/03/2008	18:30	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST

M – Muir, OW – Open water, IP – Improved pasture, RIP - Recently improved pasture, IJ – Improved pasture with some Juncus, J – Juncus dominated pasture.