



**POPULATION and DISTRIBUTION
of
BEAN GEESE
in the
SLAMANNAN AREA
2006/2007**

THE BEAN GOOSE ACTION GROUP

**REPORT BY
ANGUS MACIVER
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1 Summary

This report details the results of a study undertaken between September 2006 to March 2007, 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)

The first record this winter was on 11th October when 72 birds were seen at Luckenburn Farm. Numbers increased gradually during the month of October with the flock reaching its peak count of 255 birds on 2nd November. The last record was on 27th February when 40 birds were seen at the roost site on Fannyside Muir. It would appear that by the end of December half of the flock had moved elsewhere as counts during Jan/Feb only accounted for c160 geese.

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

Disturbance figures recorded were much less than last year and it is pleasing to note that no birdwatchers were seen to disturb the flock.

Extensive Pheasant/Partridge shooting is now taking place on many areas of the plateau but generally within woodland areas. No conflict with the bean goose flock was noted.

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

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) 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 2006/07 monitoring 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.

3.1.1 Diurnal distribution of Bean Geese

There were over 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. Where two separate visits to the plateau takes place bean geese can be recorded in the same field am and pm.

- Number of Bean Geese.
- Number of other geese.
- 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 September as per the norm but no geese were recorded in September. A flock of 72 bean geese were first seen on the 11th October at 0835hrs which would indicate that they had arrived on the plateau a day or two earlier. The following day the flock total had increased to 114 birds. By the 16th a further increase had taken place with the flock now totalling 126 birds. Gradual increases followed during October but it was not until the 2nd November that our peak count of 255 for the winter was reached.

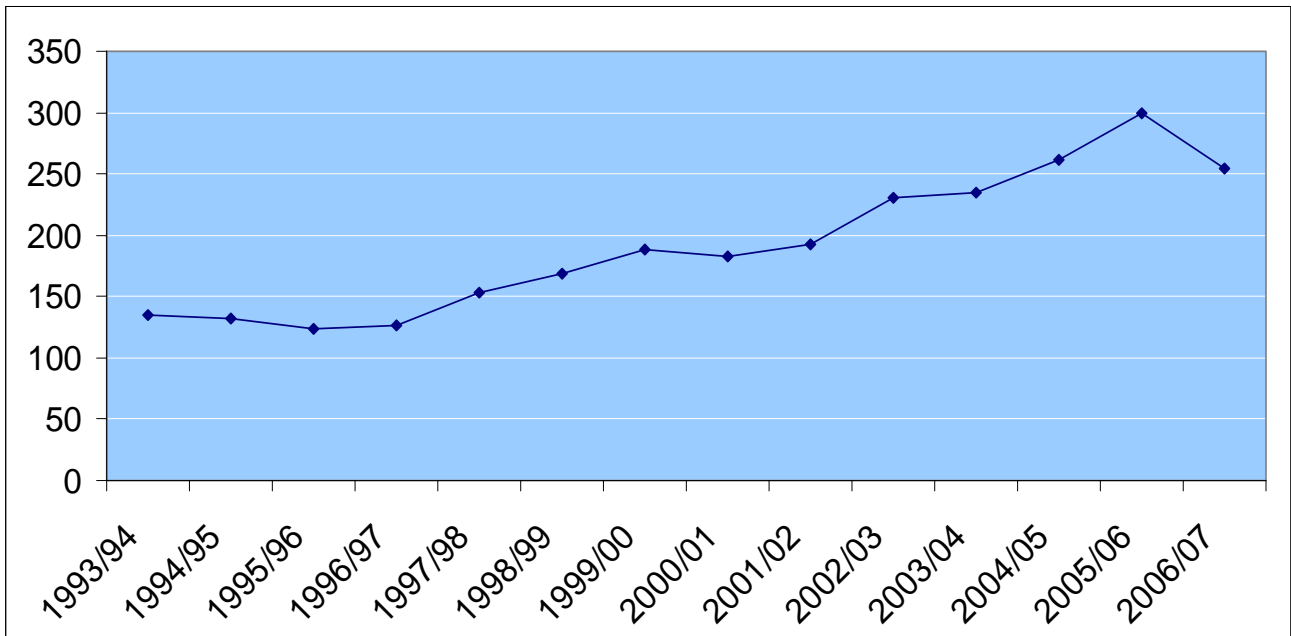
As in previous years Luckenburn Farm was used extensively for feeding in the early part of the winter but thereafter the flock was split up in many different groups covering a wide area.

All of the flock were present on the plateau until the end of December but thereafter it would appear from observations that c100 birds left the area. Extensive observations took place in the surrounding area during January/February but the missing geese were not found. A large flock of Pinkfeet accompanied by some Greylag were present at the nearby Drum Farm at this time but no bean geese were seen here. Drum Farm is located to the south of Beam Farm and therefore just outside the normal study area. The highest count during January and February was c160. There were no reports from any other area in Scotland of a large flock of bean geese so it is thought that the birds had returned to Scandinavia.

The final record this winter was on 27th February when 40 birds were seen at the roost area on Fannyside Muir.

Recording of Juvenile Geese

A visit was made by Richard Hearn of the Wildfowl and Wetlands Trust (WWT) in October to age the bean goose flock. Out of a total of 121 birds 22 juveniles were identified. This gives a proportion of young as 18.2%. To identify young in a flock of bean geese the recorder looks at the scapular feathers above the shoulder. Young birds are not fully developed at this time of the year and the pattern on such feathers can determine juveniles from adults.



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 2006/07, are recorded by numbered fields in the study area, are summarised in **Appendix**. Additional information on each record is noted in **Appendix**.

- Other Geese species

Greylag Geese were less numerous this winter. Only small numbers were seen during December and January and it was not until February that a peak count of 203 birds was made at the roost area.

Pinkfeet numbers reached a high of c900 birds during December and were most often seen in the upper Avon valley area near Slamannan. This Pinkfeet flock were not seen to mix with the bean geese.

4.1.2 Roost Sites

A total of 23 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 twice. These figures do not represent a complete picture as the flock often moves

during the night between loch and moor. Additional counts again took place by ornithologists carrying out a survey of bean goose roosting behaviour for Scotts UK Ltd the company that owns part of Fannyside Muir.

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 8 occasions throughout the study period. The following details are from observations during routine visits.

Farming	5
Accidentally flushed	3
Total	8

The farming activities that cause disturbance to the geese generally consist of a farmer visiting the field to check on stock. During tugging 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. There were two records of bean geese being chased off a recently improved pasture. Within the count area there are some scarecrows to scare wintering geese.

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 255 birds which is a decrease on last years count which was of 300 birds.

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

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

On the 9th of November bean geese were seen feeding on pasture at Wester Lochgreen and Bandominie. By the 20th of the month feeding had resumed at Tippetcraig and by early December the birds had returned to feed at Beam.

This pattern continued for the rest of the winter with the flock being split up during daylight hours and feeding in many different areas.

A Natural Care scheme for Bean Geese was implemented in April 2006 and several farmers/landowners have joined up to take advantage of the financial benefits that the scheme offers.

SNH continue to work on the notification of SSSI status and the proposed Special Protection Area for a part of the Slamannan Plateau.

Extensive Pheasant/Partridge shooting is now taking place on many areas of the plateau but mainly within conifer woodlands. No conflict with the bean goose flock was noted.

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.

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 Katrina Marshall S.N.H for comments on a draft of this report.

A special thanks to Richard Hearn from 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.
Smith, Bainbridge, and O'Brien, Distribution and Habitat Use by Bean Geese in the Slamannan Area 1994, 1995.

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 2006/2007

Bird days per field

FIELD NO	TOTAL NUMBER OF BEAN GEESE					TOTAL NUMBER	AVERAGE MONTHLY BIRD DAYS	No OF POSITIVE VISITS
	Oct	Nov	Dec	Jan	Feb			
77	174	71	275	465	769	1754	351	22
26	261	665		170	565	1661	332	16
306	836	180				1016	203	9
9	527	343				870	174	7
305	704					704	141	7
278				659		659	132	6
48			130	320	116	566	113	5
339		89	191		151	431	86	8
14	294	112				406	81	4
400	73			70	242	385	77	5
8	2			368		370	74	6
251			96	243		339	68	3
24			75		243	318	64	3
93		180		35	100	315	63	3
351		285				285	57	3
344			219	8		227	45	6
401	224					224	45	1
170			216			216	43	2
343		61	142			203	41	4
51			139	60		199	40	4
80				164		164	33	3
29	76	68				144	29	3
38		111				111	22	2
255				100		100	20	1
340		72				72	14	2
333					70	70	14	1
338			55			55	11	1
279				54		54	11	1
342			40			40	8	1
346			31			31	6	1
335				15		15	3	1
109				8		8	2	1

Appendix II

Greylag Geese Survey Data 2006/2007

Bird-Days per Month

FIELD No	TOTAL NUMBER OF GREYLAG						TOTAL	AVERAGE
	Oct	Nov	Dec	Jan	Feb	Mar		
77			7		695	270	972	162
400					203		203	34
255				11			11	2
251				10			10	2
24					2		2	0

Appendix III**Pinkfeet Geese Survey Data 2006/2007****Bird-Days per Month**

FIELD No	TOTAL NUMBER OF PINKFEET						TOTAL	AVERAGE
	Oct	Nov	Dec	Jan	Feb	Mar		
139			900				900	150
152			600				600	100
157			340				340	57
158			30	300			330	55
153		300					300	50
228		300					300	50
209			59				59	10
400					50		50	8
306	16						16	3
329				7			7	1
305	3						3	1

Appendix IV

Bean Geese Survey Records 2006/2007

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
09/09/2006	20:30	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
17/09/2006	10:30	LUCKENBURN	9	819722	RIP			0		NONE	ROUTINE
21/09/2006	14:30	LUCKENBURN	9	819722	RIP			0		NONE	ROUTINE
23/09/2006	19:34	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
27/09/2006	19:00	WEST FANNYSIDE LOCH	400	800735	OW			0		NONE	ROOST
28/09/2006	19:34	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
01/10/2006	12:00	LUCKENBURN	9	819722	RIP			0		NONE	ROUTINE
03/10/2006	14:10	LUCKENBURN	305	822722	RIP			0		NONE	ROUTINE
04/10/2006	19:15	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
08/10/2006	10:40	LUCKENBURN	9	819722	RIP			0		NONE	ROUTINE
11/10/2006	08:35	LUCKENBURN	9	819722	RIP			72		NONE	ROUTINE
12/10/2006	10:30	FANNYSIDE MILL	14	811730	M			84		NONE	ROUTINE
12/10/2006	11:00	LUCKENBURN	305	822722	RIP	CATTLE	3	30		NONE	ROUTINE
12/10/2006	18:45	LUCKENBURN	306	824722	RIP			114		NONE	ROUTINE
12/10/2006	19:00	EAST FANNYSIDE LOCH	400	800735	OW			33		NONE	ROOST
12/10/2006	19:15	FANNYSIDE MUIR	77	804740	M			74		NONE	ROOST

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESSE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
12/10/2006	19:15	EAST FANNYSIDE LOCH	400	800735	OW			40		NONE	ROOST
13/10/2006	18:35	LUCKENBURN	306	824722	RIP			100		NONE	ROUTINE
14/10/2006	13:00	LUCKENBURN	306	824722	RIP			126		NONE	ROUTINE
16/10/2006	07:30	FANNYSIDE MUIR	77	804740	M			100		NONE	ROOST
16/10/2006	14:25	LUCKENBURN	9	819722	RIP			76		NONE	ROUTINE
16/10/2006	14:25	LUCKENBURN	305	822722	RIP			140		NONE	ROUTINE
20/10/2006	11:50	LUCKENBURN	305	822722	RIP			196		NONE	ROUTINE
20/10/2006	11:50	LUCKENBURN	306	824722	RIP			27		NONE	ROUTINE
21/10/2006	11:42	FANNYSIDE MILL	14	811730	M			210		NONE	ROUTINE
21/10/2006	11:45	BLACKHILL	26	821727	J			50		NONE	ROUTINE
22/10/2006	10:30	GRANGENEUK	29	812738	IP	CATTLE	10	76		NONE	ROUTINE
22/10/2006	10:55	LUCKENBURN	9	819722	RIP			148		NONE	ROUTINE
22/10/2006	19:40	EAST FANNYSIDE LOCH	401	807736	OW			224		NONE	ROOST
24/10/2006	13:00	LUCKENBURN	305	822722	RIP			213		NONE	ROUTINE
24/10/2006	13:15	BLACKHILL	8	819722	I			2		NONE	ROUTINE
24/10/2006	13:15	BLACKHILL	26	821727	J			211		NONE	ROUTINE
26/10/2006	11:15	LUCKENBURN	305	822722	RIP			40		NONE	ROUTINE
26/10/2006	11:15	LUCKENBURN	306	824722	RIP			91		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
28/10/2006	14:45	LUCKENBURN	305	822722	RIP			4		NONE	ROUTINE
28/10/2006	14:45	LUCKENBURN	306	824722	RIP			195		NONE	ROUTINE
29/10/2006	10:00	LUCKENBURN	305	822722	RIP			81		NONE	ROUTINE
29/10/2006	10:00	LUCKENBURN	306	824722	RIP			174		NONE	ROUTINE
31/10/2006	13:30	LUCKENBURN	9	819722	RIP			231		NONE	ROUTINE
31/10/2006	13:30	LUCKENBURN	306	824722	RIP			9		NONE	ROUTINE
02/11/2006	12:00	BLACKHILL	26	821727	J			255		NONE	ROUTINE
03/11/2006	16:10	BLACKHILL	26	821727	J			160		NONE	ROUTINE
03/11/2006	16:50	FANNYSIDE MILL	14	811730	M			72		NONE	ROUTINE
04/11/2006	11:30	LUCKENBURN	306	824722	RIP	SHEEP	53	180		FARMING	ROUTINE
04/11/2006	11:40	FANNYSIDE MILL	14	811730	M			40		NONE	ROUTINE
04/11/2006	11:40	BLACKHILL	26	821727	J			210		NONE	ROUTINE
09/11/2006	10:00	LUCKENBURN	9	819722	RIP	SHEEP	44	132		NONE	ROUTINE
09/11/2006	10:15	WESTER LOCHGREEN	340	814766	RIP			20		NONE	ROUTINE
11/11/2006	10:00	LUCKENBURN	9	819722	RIP	SHEEP	44	108		NONE	ROUTINE
11/11/2006	10:25	GRANGENEUK	29	812738	IP			22		NONE	ROUTINE
12/11/2006	08:40	LUCKENBURN	9	819722	RIP	SHEEP	44	103		NONE	ROUTINE
12/11/2006	11:20	GRANGENEUK	29	812738	IP	CATTLE	10	46		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
16/11/2006	13:45	BANDOMINIE	343	804765	J			8		NONE	ROUTINE
16/11/2006	13:45	BANDOMINIE	351	802770	IJ			45		NONE	ROUTINE
17/11/2006	09:00	BANDOMINIE	351	802770	IJ			170		NONE	ROUTINE
18/11/2006	13:40	LUCKENBURN	26	821727	J			40		NONE	ROUTINE
19/11/2006	16:30	FANNYSIDE MUIR	77	804740	M			71		NONE	ROOST
20/11/2006	13:30	EAST FANNYSIDE	38	815742	IJ			77		NONE	ROUTINE
20/11/2006	14:00	BANDOMINIE	351	802770	IJ			70		NONE	ROUTINE
20/11/2006	14:20	TIPPETCRAIG	339	827769	IJ			9		NONE	ROUTINE
21/11/2006	09:30	EAST FANNYSIDE	38	815742	IJ			34		NONE	ROUTINE
22/11/2006	13:00	REDBRAE	153	874742	IP			0		NONE	ROUTINE
24/11/2006	10:45	WESTER LOCHGREEN	340	814766	IP			52		NONE	ROUTINE
24/11/2006	10:50	TIPPETCRAIG	339	827769	IJ			80		NONE	ROUTINE
28/11/2006	13:15	BANDOMINIE	343	804765	IJ			53		NONE	ROUTINE
28/11/2006	14:15	GARBETHILL	93	834758	M			180		NONE	ROUTINE
29/11/2006	12:20	WESTER LOANRIG	228	870737	IP			0		NONE	ROUTINE
01/12/2006	11:10	WESTER LOCHGREEN	342	813771	IP			40		NONE	ROUTINE
01/12/2006	11:45	BANDOMINIE	344	807761	J			5		NONE	ROUTINE
01/12/2006	17:00	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
02/12/2006	17:00	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
05/12/2006	12:45	BEAM	170	836764	IJ	SHEEP	60	100		FARMING	ROUTINE
06/12/2006	12:50	BANDOMINIE	344	807761	J			101		NONE	ROUTINE
08/12/2006	07:00	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
08/12/2006	08:30	FANNYSIDE MILL	24	810735	IJ			75		NONE	ROUTINE
08/12/2006	08:56	BANDOMINIE	344	807761	J			8		NONE	ROUTINE
08/12/2006	10:20	BEAM	170	836764	IJ	SHEEP	60	116		NONE	ROUTINE
14/12/2006	13:30	BANDOMINIE	343	804765	J			73		NONE	ROUTINE
14/12/2006	13:30	BANDOMINIE	346	801767	IJ			31		NONE	ROUTINE
16/12/2006	11:30	TIPPETCRAIG	339	827769	IJ			46		NONE	ROUTINE
16/12/2006	12:42	HILLENDE	251	850734	IP			96		NONE	ROUTINE
16/12/2006	13:10	STRATHAVON	139	866743	IP			0		NONE	ROUTINE
17/12/2006	14:30	STRATHAVON	152	873743	IP			0		NONE	ROUTINE
18/12/2006	14:05	BANDOMINIE	344	807761	J			7		NONE	ROUTINE
20/12/2006	13:30	GARBETHILL	51	814757	IJ			41		NONE	ROUTINE
22/12/2006	10:45	BANDOMINIE	343	804765	J			69		NONE	ROUTINE
22/12/2006	11:40	REDBRAE	157	876744	IJ			0		NONE	ROUTINE
22/12/2006	11:40	REDBRAE	158	876742	IJ			0		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
22/12/2006	16:30	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
23/12/2006	13:45	TIPPETCRAIG	338	829769	IJ			55		NONE	ROUTINE
23/12/2006	14:35	GARBETHILL	51	814757	IJ			98		ACC FLUSHED	ROUTINE
23/12/2006	14:45	BANDOMINIE	344	807761	IJ			98		NONE	ROUTINE
23/12/2006	16:46	FANNYSIDE MUIR	77	804740	M			250		NONE	ROOST
23/12/2006	16:46	FANNYSIDE MUIR	77	804740	M			25		NONE	ROOST
26/12/2006	11:45	TIPPETCRAIG	339	827769	IJ			101		NONE	ROUTINE
30/12/2006	10:40	TIPPETCRAIG	339	827769	IJ			44		NONE	ROUTINE
30/12/2006	13:40	BALMITCHELL	209	880732	IP	SHEEP	30	0		NONE	ROUTINE
30/12/2006	14:45	GARBETHILL	48	821755	IJ			130		NONE	ROUTINE
02/01/2007	12:00	BLACKHILL	8	817728	IP			49		NONE	ROUTINE
02/01/2007	12:00	BLACKHILL	26	821727	J			37		NONE	ROUTINE
02/01/2007	12:45	BALMITCHELL	329	883731	IP			0		NONE	ROUTINE
02/01/2007	15:00	BLACKHILL	8	817728	IP			86		NONE	ROUTINE
02/01/2007	15:40	GARBETHILL	80	824748	IJ			29		NONE	ROUTINE
02/01/2007	15:40	GARBETHILL	93	834758	M			35		NONE	ROUTINE
02/01/2007	16:50	FANNYSIDE MUIR	77	804740	M			90		NONE	ROOST
03/01/2007	14:00	GARBETHILL	80	824748	IJ			105		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
04/01/2007	17:05	FANNYSIDE MUIR	77	804740	M			35		NONE	ROOST
05/01/2007	16:05	GARBETHILL	80	824748	IJ			30		NONE	ROUTINE
05/01/2007	16:27	FANYSIDE MUIR	77	804740	M			15		NONE	ROOST
05/01/2007	16:39	FANNYSIDE MUIR	77	804740	M			25		NONE	ROOST
05/01/2007	16:42	FANNYSIDE MUIR	77	804740	M			14		NONE	ROOST
05/01/2007	16:46	FANNYSIDE MUIR	77	804740	M			40		NONE	ROOST
05/01/2007	17:06	FANNYSIDE MUIR	77	804840	M			16		NONE	ROOST
05/01/2007	17:10	FANNYSIDE MUIR	77	804740	M			50		NONE	ROOST
06/01/2007	11:20	BLACKHILL	26	821727	J			4		NONE	ROUTINE
06/01/2007	14:40	BLACKHILL	8	817728	IP			113		NONE	ROUTINE
06/01/2007	14:40	BLACKHILL	26	821727	J			3		NONE	ROUTINE
08/01/2007	13:15	BLACKHILL	8	817728	IP			0		NONE	ROUTINE
10/01/2007	12:30	HILLEND	251	850734	IP			0		NONE	ROUTINE
10/01/2007	13:05	BLACKHILL	8	817728	IP			83		NONE	ROUTINE
10/01/2007	13:05	BLACKHILL	26	821727	J			54		NONE	ROUTINE
12/01/2007	11:20	TIPPETCRAIG	335	832769	J			15		ACC FLUSHED	ROUTINE
15/01/2007	13:05	HILLEND	255	848736	IP			100		DELIBERATE	ROUTINE
15/01/2007	13:10	HILLEND	251	850734	IP			80		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
16/01/2007	13:00	BLACKHILL	26	821727	J			27		NONE	ROUTINE
16/01/2007	13:20	BANDOMINIE	344	807761	J			8		NONE	ROUTINE
16/01/2007	13:44	THREIPRIG	279	838745	J			54		NONE	ROUTINE
19/01/2007	13:00	PARKHEAD	278	838741	IP			87		NONE	ROUTINE
20/01/2007	10:15	PARKHEAD	278	838741	IP			52		NONE	ROUTINE
21/01/2007	08:25	HILLEND	251	850734	IP			163		DELIBERATE	ROUTINE
21/01/2007	10:30	BLACKHILL	26	821727	J			45		NONE	ROUTINE
21/01/2007	11:00	BLACKHILL	8	817728	IP			37		NONE	ROUTINE
22/01/2007	09:20	PARKHEAD	278	838741	IP			152		NONE	ROUTINE
22/01/2007	13:20	PARKHEAD	278	838741	IP			152		NONE	ROUTINE
23/01/2007	09:15	PARKHEAD	278	838741	IP			108		NONE	ROUTINE
23/01/2007	13:15	PARKHEAD	278	838741	IP			108		NONE	ROUTINE
25/01/2007	13:30	GAREBTHILL	48	821755	IJ			150		NONE	ROUTINE
25/01/2007	14:00	EASTER JAW	109	856757	IJ		40	8		NONE	ROUTINE
25/01/2007	17:20	FANNYSIDE MUIR	77	804740	M			80		NONE	ROOST
25/01/2007	17:20	WEST FANNYSIDE LOCH	400	800735	OW			70		NONE	ROOST
26/01/2007	07:20	GARBETHILL	48	821755	IJ			150		NONE	ROUTINE
26/01/2007	09:20	REDBRAE	158	876742	IJ			0		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
28/01/2007	17:20	FANNYSIDE MUIR	77	804740	M			100		NONE	ROOST
29/01/2007	13:25	GARBETHILL	51	814757	IJ			40		NONE	ROUTINE
31/01/2007	13:45	GARBETHILL	51	814757	IJ			20		ACC FLUSHED	ROUTINE
31/01/2007	13:47	GARBETHILL	48	821755	M			20		NONE	ROUTINE
01/02/2007	07:30	FANNYSIDE MUIR	77	804740	M			49		NONE	ROOST
01/02/2007	07:30	WEST FANNYSIDE LOCH	400	800735	OW			82		NONE	ROOST
02/02/2007	15:20	TIPPETCRAIG	339	827769	IJ			38		NONE	ROUTINE
05/02/2007	13:45	GARBETHILL	48	821755	IJ			116		NONE	ROUTINE
07/02/2007	13:00	FANNYSIDE MILL	24	810735	IJ			83		NONE	ROUTINE
08/02/2007	13:20	BLACKHILL	26	821727	J			80		NONE	ROUTINE
10/02/2007	07:26	WEST FANNYSIDE LOCH	400	800735	OW			160		NONE	ROOST
10/02/2007	07:28	FANNYSIDE MILL	24	810735	IJ			160		NONE	ROUTINE
12/02/2007	13:15	BLACKHILL	26	821727	J			133		NONE	ROUTINE
13/02/2007	12:10	BLACKHILL	26	821727	J			0		NONE	ROUTINE
13/02/2007	13:30	TIPPETCRAIG	339	827769	IJ			0		NONE	ROUTINE
14/02/2007	07:30	FANNYSIDE MUIR	77	804740	M			160		NONE	ROOST
14/02/2007	07:34	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
14/02/2007	07:42	WEST FANNYSIDE LOCH	400	800735	OW			0		NONE	ROOST

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
14/02/2007	08:20	TIPPETCRAIG	333	830767	IJ			70		NONE	ROUTINE
14/02/2007	09:00	TIPPETCRAIG	339	827769	IJ			13		NONE	ROUTINE
16/02/2007	14:00	TIPPETCRAIG	339	827769	IJ			100		FARMING	ROUTINE
16/02/2007	15:47	GARBETHILL	93	834758	M			100		NONE	ROUTINE
16/02/2007	16:45	BLACKHILL	26	821727	J			100		NONE	ROUTINE
16/02/2007	17:00	FANNYSIDE MUIR	77	804740	M			1		NONE	ROOST
16/02/2007	17:50	FANNYSIDE MUIR	77	804740	M			60		NONE	ROOST
16/02/2007	18:00	FANNYSIDE MUIR	77	804740	M			100		NONE	ROOST
18/02/2007	16:30	BLACKHILL	26	821727	J			89		NONE	ROUTINE
18/02/2007	17:15	WEST FANNYSIDE LOCH	400	800735	OW			0		NONE	ROOST
18/02/2007	17:48	FANNYSIDE MUIR	77	804740	M			89		NONE	ROOST
18/02/2007	18:00	FANNYSIDE MUIR	77	804740	M			70		NONE	ROOST
18/02/2007	18:00	WEST FANNYSIDE LOCH	400	800735	OW			0		NONE	ROOST
21/02/2007	15:50	GARBETHILL	26	821727	J			80		NONE	ROUTINE
21/02/2007	17:30	FANNYSIDE MUIR	77	804740	M			130		NONE	ROOST
25/02/2007	13:00	BLACKHILL	26	821727	J			33		NONE	ROUTINE
25/02/2007	15:10	BLACKHILL	26	821727	J			50		NONE	ROUTINE
26/02/2007	06:45	FANNYSIDE MUIR	77	804740	M			70		NONE	ROOST

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
27/02/2007	07:34	FANNYSIDE MUIR	77	804740	M			40		NONE	ROOST
28/02/2007	18:45	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
01/03/2007	18:35	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.