



**POPULATION and DISTRIBUTION  
of  
BEAN GEESE  
in the  
SLAMANNAN AREA  
2008/2009**

**THE BEAN GOOSE ACTION GROUP**

**REPORT BY  
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September 2009**

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# 1 Summary

This report details the results of a study undertaken between September 2008 to March 2009, 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, 2008).

The first record this winter was on 8<sup>th</sup> October when 40 birds were seen at Luckenburn. Numbers increased during the month of October with the flock reaching a count of 200 birds by the 31<sup>st</sup> of the month. A peak count of 265 birds was reached on the 2<sup>nd</sup> November. The last record was on 23<sup>rd</sup> February when 5 birds were seen at Luckenburn.

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. Increased recreational use of minor roads in the area is now a disturbance factor for the bean goose flock.

Counts of 200 bean geese were made on several occasions during November and December but by the turn of the year the flock had again decreased in size with a maximum count of 165 birds on 13<sup>th</sup> February 09.

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

The Slamannan Plateau was designated a Special Protection Area in October 28 under the EC Birds Directive. This protection in conjunction with the SSSI designation should ensure that the bean goose flock wintering area has been safeguarded for the future.

## 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, Royal Society for the Protection of Birds.

The 2008/09 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, such as at Grangeneuk and Garbethill 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 mid September, but the first group of 40 bean geese were not seen until the 8<sup>th</sup> October. Flock numbers increased during early October and by the 16<sup>th</sup> of the month 102 birds were present. Numbers continued to increase during October with a count of 186 on the 30<sup>th</sup> of the month. On 2<sup>nd</sup> November a count of 265 birds was made at Luckenburn and this total was not exceeded thereafter.

Counts of 200 birds were made regularly during the month of December but by early January onwards almost half of the flock were never seen again. No report of bean geese was received from any other area during the study period.

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.

One field on Grangeneuk Farm (field number 29) was re-seeded in 2009 with a permanent pasture mix comprising Perennial Rye, Scott's Timothy, Clover, Creeping Red Fescue and a little Rape seed. This grass mixture attracted c160 geese over a period of many weeks and was obviously to their liking.

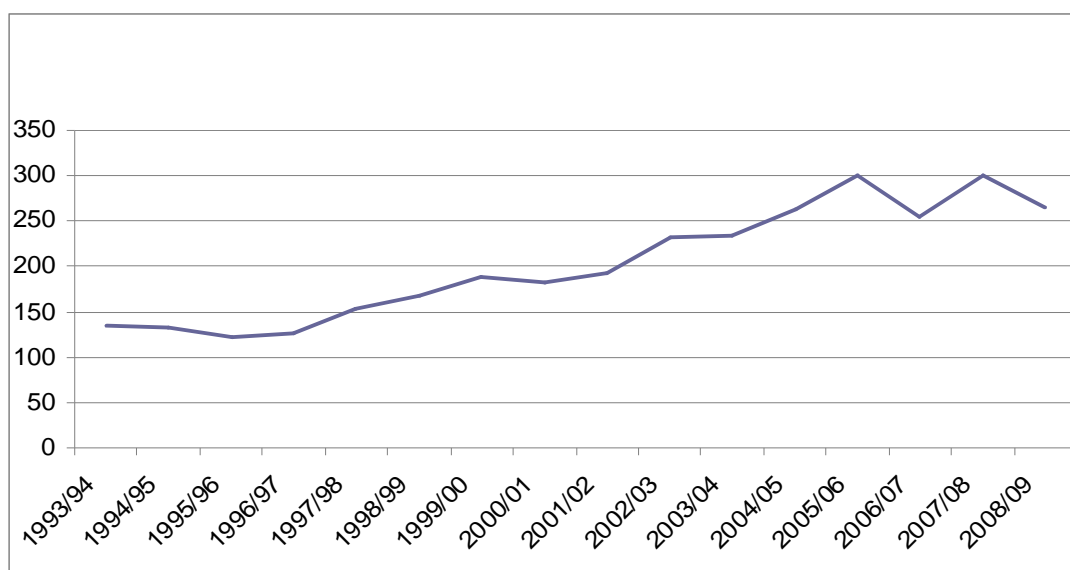
There were two occasions in late January and early February when bean geese were seen flying in the direction of Beam Farm and Tippet Craig Farm. The flock sizes ranged from c60 birds to c150 birds. No confirmation of field usage was possible due to lack of access arrangements.

The last record of the winter was on 23rd February when 5 birds were seen at Luckenburn.

### **Recording of Juvenile Geese**

A visit to the plateau by Carl Mitchell of the Wildfowl and Wetlands Trust (WWT) to record juveniles within the flock was made during late October. Poor weather condition at this time made the task difficult and only a small sample was made. Only 33 birds from a flock 60 were aged, of these 24 were adults and nine were young. The proportion of first-winter birds was thus estimated at 27.3%; however as the sample size was very small this figure is unlikely to be representative of the whole population. No brood size data was collected during this visit.

**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 2008/09, 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

A group of 20 Greylag were present at the roost site on Fannyside Muir on 5<sup>th</sup> December. A larger group of 80 birds were recorded on 16<sup>th</sup> December flying to roost on West Fannyside Loch. On 24<sup>th</sup> December 100 birds were seen flying to roost on Fannyside Muir. The next record of this species was on 30<sup>th</sup> January when 30 birds arrived at the roost area. The largest count was of 500 birds seen at the roost area on 25<sup>th</sup> February.

A single Pinkfoot was present on Fannyside Muir on 5<sup>th</sup> December. The first large group of 200 birds was recorded on the 19<sup>th</sup> January near Strathavon Farm in the Upper Avon Valley. Two days later saw the numbers in this area rise to 900. A flock of 300 birds was present on field 120 Wester Jaw farm on 17<sup>th</sup> February

A flock of 40 Canada Geese were seen on Fannyside Muir on 22<sup>nd</sup> September. A pair of Canada Geese nested this year on Gardrum Moss and produced two young. There were no records of Barnacle Geese this winter.

#### 4.1.2 Roost Sites

A total of 28 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. Bean Geese were seen to land here to roost on nineteen occasions. West Fannyside loch was seen to be used four times and East Fannyside loch three times. 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	Micro light
Cyclists	Birdwatchers
Dog Walker	Accidentally flushed

The bean geese were seen to be disturbed on 7 occasions throughout the study period. The following details are from observations during routine visits.

Farming	1
Accidentally flushed	3
Walker	1
Cyclist	1
Vehicle	1
Total	7

The farming activities that cause disturbance to the geese generally consist of a farmer visiting the field to check on stock. 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.

The minor roads around Fannyside are now used on a regular basis by cyclists and walkers. Bean Geese in fields near the road are disturbed by this activity. Although only one record was made of this type of disturbance cyclists and walkers were often seen in the area and no doubt may have disturbed the flock.

#### 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 265 birds, see Figure 1.

In the Yare Valley to the east of Norwich the regular flock there reached a maximum of 130 birds for winter 2008/09. (183-2002/03, 124-2003/04, 136-2004/05, 169-2005/06, 111-2006/07, 136 -2007/08)

From the 15<sup>th</sup> October onwards the bean geese flock spread out into other areas of the plateau for the rest of the winter period. On 24<sup>th</sup> October geese were seen exploiting a recently improved pasture on Grangeneuk Farm (field 29). This field had been re-seeded by a permanent pasture mix which included some rape. For the next three weeks over 100 birds were seen here on a regular basis.

At the turn of the year half of the flock disappeared from the plateau area and were not recorded elsewhere. This situation occurred two years ago and a report of c150 Bean Geese being seen nr Southend Kintyre was thought to have re-occurred. A visit to Southend in early 2009 was made but only a flock of Greylag were found at the location where the Bean Geese were reportedly seen. This observation has cast some doubt in my mind of the previous record from Argyll.

Some discussion took place with Carl Mitchell of the Wildfowl and Wetlands Trust on the subject of catching some bean geese in future winters.

Bird watching 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 Willie Eglinton who submitted records to be included this report.

(At the time of producing this report, Willie sadly died suddenly. His contribution to the monitoring of bean geese on the Slamannan Plateau over many years is acknowledged.)

Thanks to Neville Makan, 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, 2008.

<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.

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>

### Appendices

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Appendix I

Bean Geese Survey Data 2008/2009 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			
29	703	1898	167	107	98	2973	594.6	24
77	444	445	800	453	85	2227	445.4	19
9	983	448	238	90	19	1778	355.6	27
305	479	652				1131	226.2	11
8	347	111	83	122	180	843	168.6	10
25	31	180	57	378		646	129.2	8
48.E			446			446	89.2	5
80.M			380	58		438	87.6	6
401	180	150		26	165	521	71.2	3
38.B	29		318			347	69.4	7
24		150	170			320	64	2
51.C			211	71		282	56.4	3
39	80	170				250	50	2
400	64	152				216	43.2	5
306		195				195	39	3
26		106	13		66	185	37	5
293			43	138		181	36.2	6
275		91	64			155	31	6
261			73	44	24	141	28.2	5
255	10				77	87	17.4	2
303		84				84	16.8	1
40			60		9	69	13.8	4
346				60		60	12	1
46.L			55			55	11	2
356				42		42	8.4	2
342				37		37	7.4	3
344				33		33	6.6	2
260			32			32	6.4	1
48.G				26		26	5.2	1
109		8				8	1.6	1

## Appendix II

### Greylag Geese Survey Data 2008/2009

### Bird-Days per Month

FIELD No	Total Number of Greylag					Total	Average
	Oct	Nov	Dec	Jan	Feb		
77			120	30	500	650	130
400			80			80	16
278			8			8	1.6
261					2	2	0.4
275			1			1	0.2

### Appendix III

#### Pinkfeet Geese Survey Data 2008/2009

#### Bird-Days per Month

FIELD No	Total Number of Pinkfeet					Total	Average
	Oct	Nov	Dec	Jan	Feb		
143				1100		1100	220
121				600		600	120
329				600		600	120
120					300	300	60
152				100		100	20
77			1			1	0.2

## Appendix IV

### Bean Geese Survey Records 2008/2009

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
24/09/2008	19:30	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
30/09/2008	12:45	BLACKHILL	8	817728	IP			0		NONE	ROUTINE
05/10/2008	19:20	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
06/10/2008	13:20	BLACKHILL	8	817728	IP			0		NONE	ROUTINE
08/10/2008	14:00	LUCKENBURN	9	819722	IP			40		NONE	ROUTINE
08/10/2008	19:10	FANNYSIDE MUIR	77	804740	M			37		NONE	ROOST
08/10/2008	19:14	FANNYSIDE MUIR	77	804740	M			6		NONE	ROOST
09/10/2008	11:00	LUCKENBURN	9	819722	IP			0		NONE	ROUTINE
09/10/2008	11:10	BLACKHILL	8	817728	IP			0		NONE	ROUTINE
11/10/2008	07:20	WEST FANNYSIDE LOCH	400	800735	OW			44		NONE	ROOST
11/10/2008	07:25	LUCKENBURN	9	819722	IP			44		NONE	ROUTINE
11/10/2008	15:05	LUCKENBURN	9	819722	IP			64		NONE	ROUTINE
12/10/2008	10:10	LUCKENBURN	9	819722	IP			64		NONE	ROUTINE
13/10/2008	15:00	LUCKENBURN	9	819722	IP			64		NONE	ROUTINE
15/10/2008	08:45	LUCKENBURN	9	819722	IP			0		NONE	ROUTINE
15/10/2008	09:00	GARBETHILL	48.E	817756	IP			0		NONE	ROUTINE
16/10/2008	07:15	FANNYSIDE MUIR	77	804740	M			102		NONE	ROOST
16/10/2008	07:45	LUCKENBURN	9	819722	IP			102		NONE	ROUTINE
16/10/2008	15:00	LUCKENBURN	9	819722	IP			19		NONE	ROUTINE
16/10/2008	15:00	LUCKENBURN	305	822722	IP	CATTLE	2	91		NONE	ROUTINE
18/10/2008	11:45	LUCKENBURN	305	822722	IP	CATTLE	2	96		NONE	ROUTINE
19/10/2008	11:10	LUCKENBURN	9	919722	IP			207		NONE	ROUTINE
20/10/2008	10:30	LUCKENBURN	9	819722	IP			10		NONE	ROUTINE
21/10/2008	13:25	EAST FANNYSIDE	38.B	815742	IJ			24		NONE	ROUTINE
21/10/2008	13:35	LUCKENBURN	9	819722	IP			32		NONE	ROUTINE
21/10/2008	13:35	LUCKENBURN	305	822722	IP			35		NONE	ROUTINE
22/10/2008	09:26	HILLEND	255	848736	IP			10		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
22/10/2008	18:00	LUCKENBURN	9	819722	IP			146		NONE	ROUTINE
22/10/2008	18:45	FANNYSIDE MUIR	77	804740	M			155		NONE	ROOST
24/10/2008	08:30	EAST FANNYSIDE	38.B	815742	IJ			5		NONE	ROUTINE
24/10/2008	08:35	EAST FANNYSIDE	29	812738	IJ			86		WALKERS	ROUTINE
24/10/2008	09:17	LUCKENBURN	9	819722	IP			13		NONE	ROUTINE
26/10/2008	11:30	LUCKENBURN	9	819722	IP			19		NONE	ROUTINE
26/10/2008	11:50	EAST FANNYSIDE	25	813736	IJ	SHEEP		31		NONE	ROUTINE
26/10/2008	12:15	EAST FANNYSIDE	29	812738	IJ			90		NONE	ROUTINE
26/10/2008	16:45	LUCKENBURN	9	819722	IP			45		NONE	ROUTINE
26/10/2008	16:50	EAST FANNYSIDE	29	812738	IJ			119		NONE	ROUTINE
26/10/2008	17:35	FANNYSIDE MUIR	77	804740	M			144		NONE	ROOST
27/10/2008	13:15	EAST FANNYSIDE	29	812738	IJ			80		CYCLISTS	ROUTINE
27/10/2008	13:20	EAST FANNYSIDE	39	811743	M			80		NONE	ROUTINE
27/10/2008	14:10	BLACKHILL	8	817728	IP			147		NONE	ROUTINE
29/10/2008	10:10	LUCKENBURN	9	819722	IP			36		NONE	ROUTINE
29/10/2008	10:10	LUCKENBURN	305	822722	IP			24		NONE	ROUTINE
30/10/2008	10:00	EAST FANNYSIDE	29	812738	IJ			186		NONE	ROUTINE
30/10/2008	10:30	LUCKENBURN	9	819722	IP			142		NONE	ROUTINE
31/10/2008	07:00	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
31/10/2008	07:30	EAST FANNYSIDE	29	812738	IJ			142		VEHICLES	ROUTINE
31/10/2008	08:25	LUCKENBURN	305	822722	IP			118		NONE	ROUTINE
31/10/2008	10:15	LUCKENBURN	305	822722	IP			115		NONE	ROUTINE
31/10/2008	16:45	BLACKHILL	8	817728	IP			200		NONE	ROUTINE
31/10/2008	17:30	WEST FANNYSIDE LOCH	400	800735	OW			20		NONE	ROOST
31/10/2008	17:30	EAST FANNYSIDE LOCH	401	807736	OW			180		NONE	ROOST
01/11/2008	08:00	EAST FANNYSIDE	29	812738	IJ			145		NONE	ROUTINE
02/11/2008	16:40	LUCKENBURN	305	822722	IP			265		NONE	ROUTINE
02/11/2008	17:15	WEST FANNYSIDE LOCH	400	800735	OW			115		NONE	ROOST

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
02/11/2008	17:15	EAST FANNYSIDE LOCH	401	807736	OW			150		NONE	ROOST
03/11/2008	13:15	BLACKHILL	26	821727	IP			34		NONE	ROUTINE
03/11/2008	13:30	LUCKENBURN	9	819722	IP			47		NONE	ROUTINE
04/11/2008	10:00	LUCKENBURN	9	819722	IP			102		NONE	ROUTINE
04/11/2008	10:00	LUCKENBURN	305	822722	IP			136		NONE	ROUTINE
04/11/2008	14:20	LUCKENBURN	305	822722	IP			155		NONE	ROUTINE
04/11/2008	14:20	LUCKENBURN	306	824722	IP	SHEEP	44	94		NONE	ROUTINE
05/11/2008	17:00	FANNYSIDE MUIR	77	804740	M			265		NONE	ROOST
07/11/2008	10:00	LUCKENBURN	303	820719	IP			84		NONE	ROUTINE
07/11/2008	14:15	LUCKENBURN	9	819722	IP			73		NONE	ROUTINE
07/11/2008	14:15	LUCKENBURN	306	824722	IJ			85		NONE	ROUTINE
09/11/2008	10:00	LUCKENBURN	306	824722	IJ	SHEEP	44	16		NONE	ROUTINE
09/11/2008	10:19	EAST FANNYSIDE	29	812738	IJ			150		NONE	ROUTINE
09/11/2008	17:05	FANNYSIDE MUIR	77	804740	M			180		NONE	ROOST
12/11/2008	09:36	LUCKENBURN	305	822722	IP	SHEEP	20	30		NONE	ROUTINE
12/11/2008	13:40	LUCKENBURN	9	819722	IP	SHEEP	11	99		NONE	ROUTINE
12/11/2008	13:40	LUCKENBURN	305	822722	IP	SHEEP	20	66		NONE	ROUTINE
14/11/2008	08:30	EAST FANNYSIDE	29	812738	IJ			165		NONE	ROUTINE
14/11/2008	17:15	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
15/11/2008	12:00	EAST FANNYSIDE	29	812738	IJ			165		NONE	ROUTINE
16/11/2008	09:20	LUCKENBURN	9	819722	IP	SHEEP	11	127		NONE	ROUTINE
16/11/2008	09:45	EAST FANNYSIDE	29	812738	IJ			105		NONE	ROUTINE
17/11/2008	10:15	EAST FANNYSIDE	29	812738	IJ			160		NONE	ROUTINE
18/11/2008	10:20	EAST FANNYSIDE	29	812738	IJ			168		NONE	ROUTINE
18/11/2008	11:15	EASTER JAWCRAIG	109	856757	J			8		NONE	ROUTINE
18/11/2008	11:50	OAKERSDYKE	275	842738	IP			14		NONE	ROUTINE
18/11/2008	12:05	BLACKHILL	8	817728	IP			30		NONE	ROUTINE
19/11/2008	10:00	OAKERSDYKE	275	842738	IP			20		NONE	ROUTINE
19/11/2008	10:25	EAST FANNYSIDE	29	812738	IJ			164		NONE	ROUTINE
20/11/2008	09:46	OAKERSDYKE	275	842738	IP			20		NONE	ROUTINE
21/11/2008	14:45	EAST FANNYSIDE	29	812738	IJ			170		ACC FLUSHED	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
21/11/2008	15:00	FANNYSIDE MUIR	39	811743	M			170		NONE	ROUTINE
21/11/2008	15:30	FANNYSIDE MILL	24	810735	IP	SHEEP	6	150		NONE	ROUTINE
21/11/2008	16:58	WEST FANNYSIDE LOCH	400	800735	OW			25		NONE	ROOST
21/11/2008	17:13	WEST FANNYSIDE LOCH	400	800735	OW			12		NONE	ROOST
25/11/2008	13:30	BLACKHILL	8	817728	IP			38		NONE	ROUTINE
25/11/2008	13:30	BLACKHILL	26	821727	J			43		NONE	ROUTINE
26/11/2008	11:25	BLACKHILL	8	817728	IP			43		NONE	ROUTINE
26/11/2008	11:25	BLACKHILL	26	821727	J			29		NONE	ROUTINE
26/11/2008	12:00	EAST FANNYSIDE	29	812738	RIP			174		NONE	ROUTINE
28/11/2008	11:00	OAKERSDYKE	275	842738	IP			37		NONE	ROUTINE
28/11/2008	11:32	EAST FANNYSIDE	29	812738	RIP			164		NONE	ROUTINE
28/11/2008	17:15	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
29/11/2008	11:45	EAST FANNYSIDE	29	812738	RIP			168		NONE	ROUTINE
30/11/2008	10:45	EAST FANNYSIDE	25	813736	IJ			180		NONE	ROUTINE
01/12/2008	13:00	EAST FANNYSIDE	25	813726	IJ			57		NONE	ROUTINE
01/12/2008	13:00	EAST FANNYSIDE	29	812738	RIP			25		NONE	ROUTINE
04/12/2008	11:10	EAST FANNYSIDE	38.B	815742	IJ	SHEEP	20	76		NONE	ROUTINE
04/12/2008	11:25	GRANGENEUK	293	818734	M			6		NONE	ROUTINE
05/12/2008	10:06	EAST FANNYSIDE	38.B	815742	IJ	SHEEP	20	89		NONE	ROUTINE
05/12/2008	16:00	FANNYSIDE MILL	24	810735	IP	SHEEP	9	170		NONE	ROUTINE
05/12/2008	16:50	FANNYSIDE MUIR	77	804740	M			200		NONE	ROOST
06/12/2008	15:15	EAST FANNYSIDE	40	818743	IP			40		NONE	ROUTINE
06/12/2008	15:15	GRANGENEUK	293	818734	M			37		NONE	ROUTINE
07/12/2008	10:15	GARBETHILL	80.M	823748	IJ			167		NONE	ROUTINE
07/12/2008	10:20	LUCKENBURN	9	819722	IP	SHEEP	28	154		NONE	ROUTINE
07/12/2008	12:15	EAST FANNYSIDE	38.B	815742	IJ	SHEEP	20	36		NONE	ROUTINE
08/12/2008	12:30	GARBETHILL	48.E	817756	IJ			65		NONE	ROUTINE
09/12/2008	12:47	GARBETHILL	48.E	817756	IJ			106		NONE	ROUTINE
09/12/2008	14:05	PARKHEAD	278	838741	IP			0		NONE	ROUTINE
10/12/2008	13:05	GARBETHILL	48.E	817756	IJ			35		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
12/12/2008	14:30	OAKERSDYKE	275	842738	IP			21		NONE	ROUTINE
12/12/2008	15:00	GARBETHILL	51.C	813757	IJ			11		NONE	ROUTINE
14/12/2008	08:50	EAST FANNYSIDE	38.B	815742	IJ	SHEEP	20	80		NONE	ROUTINE
14/12/2008	09:20	OAKERSDYKE	275	842738	IP			43		NONE	ROUTINE
16/12/2008	16:35	FANNYSIDE MUIR	77	804740	M			200		NONE	ROOST
16/12/2008	16:40	WEST FANNYSIDE LOCH	400	800735	OW			0		NONE	ROOST
17/12/2008	11:20	GARBETHILL	80.M	823748	IJ			32		NONE	ROUTINE
17/12/2008	12:45	GARBETHILL	80.M	823748	IJ			72		NONE	ROUTINE
20/12/2008	09:40	WESTER JAW	261	850738	IJ	SHEEP	58	34		NONE	ROUTINE
20/12/2008	09:50	EAST FANNYSIDE	40	818743	IP			9		NONE	ROUTINE
20/12/2008	09:57	EAST FANNYSIDE	29	812738	RIP	SHEEP	19	2		NONE	ROUTINE
20/12/2008	16:35	FANNYSIDE MUIR	77	804740	M			200		NONE	ROOST
21/12/2008	10:20	WESTER JAW	261	850838	IJ			39		NONE	ROUTINE
21/12/2008	11:00	GARBETHILL	80.M	823748	IJ			48		NONE	ROUTINE
21/12/2008	11:30	EAST FANNYSIDE	38.B	815742	IJ	SHEEP	19	37		NONE	ROUTINE
21/12/2008	11:30	EAST FANNYSIDE	40	818743	IP			11		NONE	ROUTINE
21/12/2008	13:28	GARBETHILL	46.L	820748	IJ			48		NONE	ROUTINE
23/12/2008	10:44	WESTER JAW	260	851737	IJ			32		NONE	ROUTINE
24/12/2008	15:50	GARBETHILL	51.B	813757	IJ			200		ACC FLUSHED	ROUTINE
24/12/2008	15:52	GARBETHILL	48.E	817756	IJ			200		NONE	ROUTINE
24/12/2008	16:40	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
24/12/2008	16:44	FANNYSIDE MUIR	77	804740	M			200		NONE	ROOST
26/12/2008	13:50	BLACKHILL	26	821727	J			13		NONE	ROUTINE
27/12/2008	09:50	BLACKHILL	8	819722	IP			83		NONE	ROUTINE
27/12/2008	16:45	EAST FANNYSIDE	29	812738	RIP	SHEEP	19	140		NONE	ROUTINE
28/12/2008	10:00	LUCKENBURN	9	819722	IP			84		NONE	ROUTINE
28/12/2008	10:30	GARBETHILL	46.L	820748	IJ			7		NONE	ROUTINE
28/12/2008	13:20	GARBETHILL	80.M	823748	IJ			61		NONE	ROUTINE
30/12/2008	12:20	GARBETHILL	48.E	817756	IJ			40		NONE	ROUTINE
01/01/2009	15:15	GARBETHILL	80.M	823748	IJ			58		NONE	ROUTINE
03/01/2009	10:15	EAST FANNYSIDE	25	813736	IJ			109		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
03/01/2009	11:20	BANDOMINIE	344	817761	IJ			23		NONE	ROUTINE
05/01/2009	13:30	GARBETHILL	355	797723	J			33		NONE	ROUTINE
06/01/2009	10:20	EAST FANNYSIDE	25	813736	IJ			94		NONE	ROUTINE
08/01/2009	12:35	EAST FANNYSIDE	25	813736	IJ			47		NONE	ROUTINE
08/01/2009	13:30	GARBETHILL	51.C	813757	IJ			71		ACC FLUSHED	ROUTINE
08/01/2009	13:30	BANDOMINIE	344	807761	J			10		NONE	ROUTINE
08/01/2009	14:00	BANDOMINIE	346	801767	IJ			60		NONE	ROUTINE
09/01/2009	08:35	EAST FANNYSIDE	25	813736	IJ			81		FARMING	ROUTINE
09/01/2009	12:00	WESTER LOCHGREEN	342	813771	IP			4		NONE	ROUTINE
09/01/2009	14:10	GARBETHILL	48.G	820756	IJ			26		NONE	ROUTINE
09/01/2009	17:00	EAST FANNYSIDE LOCH	401	807736	OW			26		NONE	ROOST
12/01/2009	12:50	BLACKHILL	8	817728	IP			61		NONE	ROUTINE
12/01/2009	13:00	JAW	261	850738	IJ			21		NONE	ROUTINE
14/01/2009	12:30	GARBETHILL	355	797723	J			9		NONE	ROUTINE
14/01/2009	16:35	FANNYSIDE MUIR	77	804740	M			5		NONE	ROOST
14/01/2009	16:58	FANNYSIDE MUIR	77	804740	M			80		NONE	ROOST
14/01/2009	17:02	FANNYSIDE MUIR	77	804740	M			28		NONE	ROOST
14/01/2009	17:05	FANNYSIDE MUIR	77	804740	M			80		NONE	ROOST
19/01/2009	14:15	STRATHAVON	143	868743	IP			0		NONE	ROUTINE
19/01/2009	14:40	JAW	261	850738	IJ			23		NONE	ROUTINE
21/01/2009	11:50	WESTER LOCHGREEN	342	813771	IP			15		NONE	ROUTINE
21/01/2009	14:00	STRATHAVON	143	868743	IP			0		NONE	ROUTINE
21/01/2009	14:05	BALMITCHELL	329	883731	IP			0		NONE	ROUTINE
21/01/2009	17:20	FANNYSIDE MUIR	77	804740	M			110		NONE	ROOST
22/01/2009	12:30	OAKERSDYKE	121	845765	IJ			0		NONE	ROUTINE
22/01/2009	12:52	GRANGENEUK	293	818734	M			12		NONE	ROUTINE
22/01/2009	14:05	WESTER LOCHGREEN	342	813771	IP			18		NONE	ROUTINE
23/01/2009	11:40	STRATHAVON	152	873743	IP			0		NONE	ROUTINE
23/01/2009	11:40	GRANGENEUK	293	818734	M			15		NONE	ROUTINE
24/01/2009	15:40	GRANGENEUK	293	818734	M			86		NONE	ROUTINE
26/01/2009	13:45	LUCKENBURN	9	819722	IP	SHEEP	23	90		NONE	ROUTINE

DATE	TIME	PLACE	FIELD No	GRID	HABITAT TYPE	STOCK	STOCK No	NUMBER OF BEAN GEESE	JUV No	DISTURBANCE TYPE	OBSERVATION TYPE
26/01/2009	14:15	BLACKHILL	8	817728	IP			61		NONE	ROUTINE
29/01/2009	09:10	FANNYSIDE MILL	293	818734	M			25		NONE	ROUTINE
29/01/2009	09:14	EAST FANNYSIDE	25	813736	IJ			47		NONE	ROUTINE
29/01/2009	09:14	EAST FANNYSIDE	29	812738	RIP			25		NONE	ROUTINE
30/01/2009	17:19	FANNYSIDE MUIR	77	804740	M			0		NONE	ROOST
30/01/2009	17:25	FANNYSIDE MUIR	77	804740	M			150		NONE	ROOST
31/01/2009	10:00	EAST FANNYSIDE	29	812738	RIP			82		NONE	ROUTINE
04/02/2009	11:00	EAST FANNYSIDE	29	812738	RIP			98		NONE	ROUTINE
07/02/2009	10:20	HILLEND	255	848736	IP	SHEEP	49	77		NONE	ROUTINE
08/02/2009	09:55	EAST FANNYSIDE	40	818743	IP			9		NONE	ROUTINE
13/02/2009	17:25	EAST FANNYSIDE LOCH	402	885749	OW			165		NONE	ROOST
15/02/2009	10:30	BLACKHILL	8	817728	IP			130		NONE	ROUTINE
17/02/2009	11:50	EASTER JAWCRAIG	120	847746	IJ			0		NONE	ROUTINE
17/02/2009	12:15	BLACKHILL	26	821727	J			66		NONE	ROUTINE
19/02/2009	12:30	LUCKENBURN	9	819722	IP	SHEEP	32	14		NONE	ROUTINE
19/02/2009	12:35	JAW FARM	261	850738	IJ	SHEEP	17	24		NONE	ROUTINE
20/02/2009	14:45	BLACKHILL	8	817728	IP			50		NONE	ROUTINE
20/02/2009	17:46	FANNYSIDE MUIR	77	804740	M			60		NONE	ROOST
20/02/2009	17:56	FANNYSIDE MUIR	77	804740	M			25		NONE	ROOST
23/02/2009	10:25	LUCKENBURN	9	819722	IP	SHEEP	32	5		NONE	ROUTINE
23/02/2009	13:00	GARBETHILL	80.N	823749	IJ			0		NONE	ROUTINE
25/02/2009	18:25	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.