



**POPULATION and DISTRIBUTION
of
BEAN GEESE
in the
SLAMANNAN AREA
2003/2004**

THE BEAN GOOSE ACTION GROUP

REPORT BY

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1 Summary

This report details the results of a study undertaken between September 2003 to March 2004, 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, 1992, Smith et al 1994 and 1995, Simpson and Maciver 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003)

The first record this winter was on 1st October when 41 birds were seen coming into roost on West Fannyside Loch. Numbers increased on 10th October with 60 birds seen at Luckenburn Farm. By the 18th October the flock size had reached 235 birds. This is an increase of 4 birds from the previous winter and a new high figure for this flock. This total included one bird of the “rossicus” race. This flock size remained constant throughout the winter. The last record of 26 birds was on 4th March when it was thought the others in the flock had already migrated back to Sweden for the summer.

The pattern of feeding was similar to recent years with fields in the western sector being the most grazed. A total of 22 fields were seen to be used this winter.

There were 15 juveniles identified within the flock.

Roosting behaviour was a little different this year with West Fannyside Loch and the adjoining muir being the preferred sites. No records were recorded for the small loch.

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) for the RSPB, S.N.H., Falkirk Council, North Lanarkshire Council, Central Scotland Forest Trust.

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.

The 2003/04 monitoring programme “Population and Distribution of bean geese in the Slamannan Area “ identified two main areas of study.

2.1 Population and Distribution

- a) Routine observations.
- b) Visiting Roost Sites.

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

The technique employed was similar to previous years consisting of routine observations with no specific pattern. There were 200 visits to record bean geese between late September and early March. On most visits to the plateau the whole study area was visited so as to record all geese present.

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

3.1.2 Roost Sites

The method employed was to arrive at a particular position that allowed monitoring of East/West Fannyside Lochs and Fannyside Muir to determine the selected roost site or to detect a shift in roost site during the night.

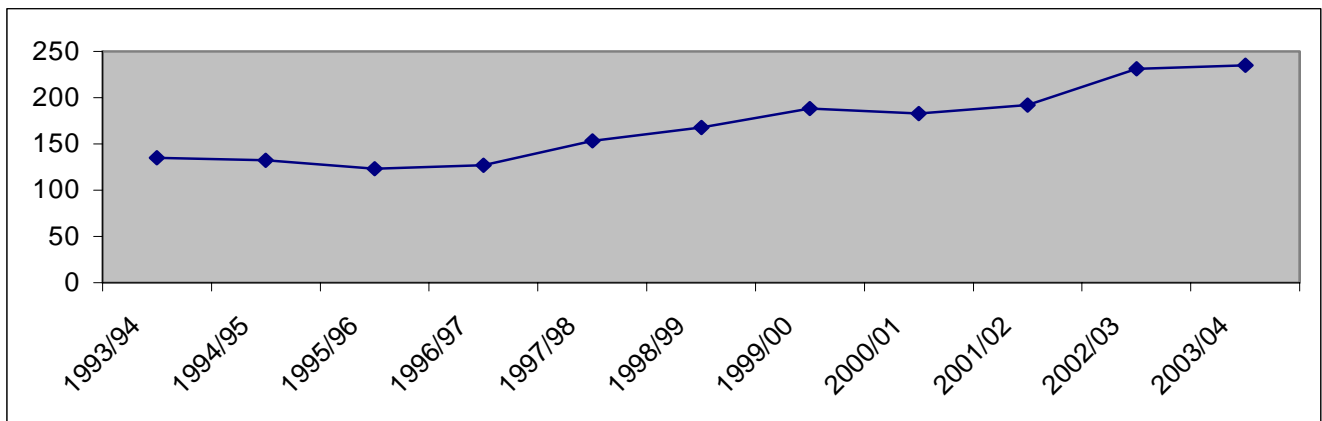
4 Results and analysis

4.1 Population and distribution

Observations started in late September but the first record this winter was on 1st October when 41 birds flew into the roosting area at West Fannyside Loch. It was the 13th of the month before a further large influx took place when a count of 205 birds was made at Luckenburn Farm. Numbers increased gradually over the next two weeks and by the 26th of October the flock total had reached 235. The flock size remained at this level throughout the wintering period on the plateau. The last record of 26 birds was on 4th March. One bird of the “rossicus” race was present throughout the winter period. There were 15 juveniles identified within the flock.

Population and Distribution of Bean Geese in the Slamannan Area 2003/2004

1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04
135	132	123	127	153	168	188	183	192	231	235



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

- Routine records

The bean geese distribution based on all available records throughout the winter, which were precisely located to a numbered field in the study area are summarised in Appendix 1.

- Other Geese species

The first group of 10 Greylag appeared on 18th October at Luckenburn Farm. After that date numbers declined and it was not until the 19th November that a group of 11 birds were seen again at Luckenburn Farm. A peak count of 54 occurred on 14th January at Hillend Farm. During February two counts were made of 33 birds on the 5th and 19 on the 18th. See Appendix 2.

Pinkfeet were more numerous generally. The first group of 130 birds appeared on 18th October at Hillend Farm. By the end of the month the flock had increased to 320 birds. The November peak count was of 500 birds on the 22nd. During December only 3 birds were present on the plateau. January saw them return and a count of 363 was made on the 23rd of the month. By early February 04 the flock size had increased to 900 birds. A peak count of 1000 birds was made on 16th/17th February at Easter Jawcraig Farm. See Appendix 3.

- Carron Valley Reservoir

There were no reports of bean geese from this previously used site.

4.1.2 Roost Sites

A total of 30 visits were made to record roosting behaviour. East Fannyside Loch had no records. West Fannyside Loch had 14 and Fannyside Muir 6. These figures do not represent a complete picture as the flock often moves during the night between loch and 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. During fieldwork there are a few occasions when the flock is disturbed accidentally.

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

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

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

Helicopter	1
Farming	1
Vehicle	1
Accidentally flushed	1
Total	4

6 Ringed Geese

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

7 Discussion

The population increased again this winter with 235 birds being counted. This figure represents over half of the UK wintering population.

The number of bean geese wintering in the Yare Valley near Norwich decreased again last winter with a peak count of 124. (183 in 2002/03)

A total of 22 fields were seen to be used this winter for feeding which is in keeping with recent winters. On arrival the flock grazed extensively at Luckenburn Farm where improved grassland was available.

A change was noted this winter at Beam Farm with the bean goose flock only being recorded once feeding on field 170. This field was stocked with sheep but it was not thought that this prevented the birds from utilising this area. At Luckenburn sheep were present for much of the time.

A significant amount of feeding took place at Tippetcraig Farm, which is not surprising as this area offers the birds almost disturbance free grazing.

No further forestry expansion took place this year and discussions are on-going to re visit our forestry guidelines.

Discussions still continue within the group into a banding scheme that would enable us to further our knowledge of the migration routes of this flock.

Birdwatchers have again been catered for with people making contact with the fieldworkers to arrange a visit to the plateau to see the geese. No disturbance to the flock by birdwatchers was noted. Regular contact was maintained with seven farmer/landowners during the winter months.

Information is given to Birdline Scotland on a regular basis so as to make available locations where the geese can be seen. This always includes information on how to avoid disturbance.

8 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.

9 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, 1997, 1998, 1999, 2000, 2001, 2002, 2003.

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

10 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 2003/2004 Bird-Days per Field

FIELD NO	Total No of Bean Geese						Total	Average Monthly Bird Days	No of Positive Visits
	Oct	Nov	Dec	Jan	Feb	Mar			
305	1576	1370	1193	80	71	26	4316	719	32
9	1357	914	80	126	399		2876	479	20
400	616	509	940	131	160		2356	393	14
326	56	161	738	945	362		2262	377	16
26		261	289	362	844		1756	293	23
306	477	271	444	36			1228	205	17
77			235	510	235	26	1006	168	6
303				447			447	75	4
339				157	200		357	60	4
334			235	50	40		325	54	3
48				50	268		318	53	3
8			253	47			300	50	6
14		252					252	42	2
170			235				235	39	1
304	231						231	39	1
13		230					230	38	1
325			60	74			134	22	2
335			100				100	17	1
173					80		80	13	2
324				64			64	11	1
251				59			59	10	1
260				37			37	6	1
278					12		12	2	1
327				5			5	1	1

Appendix II Greylag Geese Survey Data 2003/2004 Bird-Days per Month

FIELD NO	Total No of Greylag						Total	Average
	Oct	Nov	Dec	Jan	Feb	Mar		
251				100	33		133	22
305	10	26					36	6
9					19		19	3
303				4			4	1

Appendix III Pinkfeet Geese Survey Data 2003/2004 Bird-Days per Month

FIELD NO	Total No of Pinkfeet						Total	Average
	Oct	Nov	Dec	Jan	Feb	Mar		
101					2160		2160	360
120					1900		1900	317
251	295	350		363	46		1054	176
261	233	280		360			873	146
248	320	400					720	120
255		174		363			537	90
158		500					500	83
134.1	20	450					470	78
260				360			360	60
139		250					250	42
247		200					200	33
138		150					150	25
9	3	10					13	2
305	1		3			1	5	1

Appendix IV Bean Geese Survey Records 2003/2004

DATE	PLACE	FIELD NO	GRID	NUMBER	DISTURBANCE	OBSERVATION TYPE
19/09/03	EAST FANNYSIDE LOCH	401	807736	0	NONE	ROOST
27/09/03	EAST FANNYSIDE LOCH	401	807736	0	NONE	ROOST
28/09/03	EAST FANNYSIDE LOCH	401	807736	0	NONE	ROOST
29/09/03	EAST FANNYSIDE LOCH	401	807736	0	NONE	ROOST
30/09/03	EAST FANNYSIDE LOCH	401	807736	0	NONE	ROOST
01/10/03	WEST FANNYSIDE LOCH	400	807736	41	NONE	ROOST
02/10/03	LUCKENBURN	306	824722	41	NONE	ROUTINE
03/10/03	LUCKENBURN	306	824722	41	NONE	ROUTINE
03/10/03	LUCKENBURN	306	824722	41	NONE	ROUTINE
03/10/03	EAST FANNYSIDE LOCH	401	807736	0	NONE	ROOST
04/10/03	LUCKENBURN	306	824722	41	NONE	ROUTINE
05/10/03	LUCKENBURN	306	824722	41	NONE	ROUTINE
06/10/03	LUCKENBURN	306	824722	41	NONE	ROUTINE
07/10/03	LUCKENBURN	306	804722	41	NONE	ROUTINE
10/10/03	LUCKENBURN	306	824722	60	NONE	ROUTINE
11/10/03	LUCKENBURN	306	824722	60	NONE	ROUTINE
13/10/03	LUCKENBURN	305	822722	205	NONE	ROUTINE
14/10/03	LUCKENBURN	9	819722	215	NONE	ROUTINE
15/10/03	LUCKENBURN	9	819722	224	NONE	ROUTINE
18/10/03	LUCKENBURN	9	819722	235	NONE	ROUTINE
18/10/03	HILLENDE	251	850734	0	NONE	ROUTINE
18/10/03	LUCKENBURN	305	822722	130	NONE	ROUTINE
18/10/03	WEST FANNYSIDE LOCH	400	800735	235	NONE	ROOST
19/10/03	LUCKENBURN	9	819722	123	NONE	ROUTINE
19/10/03	LUCKENBURN	305	822722	116	NONE	ROUTINE
20/10/03	LUCKENBURN	9	818723	205	NONE	ROUTINE
20/10/03	LUCKENBURN	305	822722	157	NONE	ROUTINE
22/10/03	LUCKENBURN	304	822721	231	NONE	ROUTINE
23/10/03	LUCKENBURN	305	822722	152	NONE	ROUTINE
23/10/03	LUCKENBURN	305	822722	154	NONE	ROUTINE
23/10/03	LUCKENBURN	306	824722	70	NONE	ROUTINE
24/10/03	WEST FANNYSIDE LOCH	400	800735	140	NONE	ROOST
26/10/03	HILLENDE	251	850734	0	NONE	ROUTINE
26/10/03	LUCKENBURN	305	822722	210	NONE	ROUTINE
26/10/03	LUCKENBURN	305	822722	235	NONE	ROUTINE
27/10/03	LUCKENBURN	305	822722	217	NONE	ROUTINE
28/10/03	LUCKENBURN	9	819722	120	NONE	ROUTINE
28/10/03	HILLENDE	261	850738	0	NONE	ROUTINE
28/10/03	TIPPETCRAIG	326	803765	56	NONE	ROUTINE
29/10/03	WEST FANNYSIDE LOCH	400	800735	200	NONE	ROOST
31/10/03	LUCKENBURN	9	819722	235	NONE	ROUTINE
31/10/03	DYKE FARM	134.1	862740	0	NONE	ROUTINE
31/10/03	DYKE FARM	248	860739	0	NONE	ROUTINE
02/11/03	LUCKENBURN	305	822722	118	NONE	ROUTINE
02/11/03	LUCKENBURN	306	824722	71	NONE	ROUTINE
02/11/03	WEST FANNYSIDE LOCH	400	800735	189	NONE	ROOST

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DATE	PLACE	FIELD NO	GRID	NUMBER	DISTURBANCE	OBSERVATION TYPE
05/11/03	LUCKENBURN	305	822722	103	NONE	ROUTINE
07/11/03	WEST FANNYSIDE FARM	13	801724	230	NONE	ROUTINE
08/11/03	LUCKENBURN	9	819722	155	NONE	ROUTINE
08/11/03	BALMULZIER	247	860737	0	NONE	ROUTINE
08/11/03	DYKE FARM	248	860739	0	NONE	ROUTINE
09/11/03	LUCKENBURN	9	818723	85	NONE	ROUTINE
09/11/03	TODDLE KNOWE	14	811730	210	VEHICLES	ROUTINE
09/11/03	BLACKHILL	26	821727	230	NONE	ROUTINE
09/11/03	HILLENDFARM	261	850738	0	NONE	ROUTINE
09/11/03	WEST FANNYSIDE LOCH	400	800735	85	NONE	ROOST
10/11/03	LUCKENBURN	9	819722	181	NONE	ROUTINE
10/11/03	BLACKHILL	26	821727	31	NONE	ROUTINE
11/11/03	LUCKENBURN	305	822722	156	NONE	ROUTINE
12/11/03	DYKE FARM	134.1	862740	0	NONE	ROUTINE
12/11/03	LUCKENBURN	305	823724	235	NONE	ROUTINE
16/11/03	LUCKENBURN	9	819722	58	NONE	ROUTINE
16/11/03	LUCKENBURN	9	819722	109	NONE	ROUTINE
16/11/03	HILLENDFARM	251	850734	0	NONE	ROUTINE
16/11/03	HILLENDFARM	255	848735	0	NONE	ROUTINE
16/11/03	HILLENDFARM	261	850738	0	NONE	ROUTINE
16/11/03	LUCKENBURN	305	822722	175	NONE	ROUTINE
16/11/03	LUCKENBURN	305	822722	126	NONE	ROUTINE
16/11/03	WEST FANNYSIDE LOCH	400	800735	235	NONE	ROOST
19/11/03	LUCKENBURN	9	819722	158	NONE	ROUTINE
19/11/03	DYKE FARM	138	865741	0	NONE	ROUTINE
19/11/03	DYKE FARM	248	860739	0	NONE	ROUTINE
19/11/03	LUCKENBURN	305	822722	0	NONE	ROUTINE
21/11/03	STRATHAVEN FARM	139	867743	0	NONE	ROUTINE
21/11/03	LUCKENBURN	305	822722	50	NONE	ROUTINE
21/11/03	LUCKENBURN	306	824722	9	NONE	ROUTINE
22/11/03	LUCKENBURN	9	819722	168	NONE	ROUTINE
22/11/03	REDBRAE	158	876744	0	NONE	ROUTINE
22/11/03	LUCKENBURN	306	824722	67	NONE	ROUTINE
23/11/03	LUCKENBURN	305	822722	235	NONE	ROUTINE
23/11/03	WEST FANNYSIDE LOCH	400	800735	0	NONE	ROOST
24/11/03	LUCKENBURN	305	822722	172	NONE	ROUTINE
27/11/03	LUCKENBURN	306	824722	124	NONE	ROUTINE
27/11/03	TIPPETCRAIG	326	832765	87	NONE	ROUTINE
29/11/03	TIPPETCRAIG	326	832765	74	NONE	ROUTINE
30/11/03	TODDLE KNOWE	14	811730	42	NONE	ROUTINE
03/12/03	FANNYSIDE MUIR	77	804740	235	NONE	ROOST
04/12/03	TIPPETCRAIG	326	832765	235	HELICOPTER	ROUTINE
07/12/03	TIPPETCRAIG	326	832765	43	NONE	ROUTINE
09/12/03	TIPPETCRAIG	326	832765	0	NONE	ROUTINE
10/12/03	LUCKENBURN	305	822722	220	NONE	ROUTINE
11/12/03	LUCKENBURN	9	819722	80	NONE	ROUTINE
11/12/03	LUCKENBURN	305	822722	134	NONE	ROUTINE
13/12/03	TIPPETCRAIG	326	832765	213	NONE	ROUTINE

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DATE	PLACE	FIELD NO	GRID	NUMBER	DISTURBANCE	OBSERVATION TYPE
14/12/03	BLACKHILL	8	818727	8	NONE	ROUTINE
14/12/03	BLACKHILL	26	821727	81	NONE	ROUTINE
15/12/03	LUCKENBURN	305	822722	196	NONE	ROUTINE
16/12/03	BLACKHILL	8	818727	9	NONE	ROUTINE
16/12/03	LUCKENBURN	306	824722	220	NONE	ROUTINE
16/12/03	WEST FANNYSIDE LOCH	400	800735	235	NONE	ROOST
17/12/03	BLACKHILL	8	817727	9	NONE	ROUTINE
17/12/03	LUCKENBURN	306	824722	224	NONE	ROUTINE
17/12/03	WEST FANNYSIDE LOCH	400	800735	235	NONE	ROOST
18/12/03	GARBETHILL/FANNYSIDE AREA	48	821755	0	NONE	ROUTINE
21/12/03	TIPPETCRAIG	334	831767	235	NONE	ROUTINE
22/12/03	WEST FANNYSIDE LOCH	400	800735	235	NONE	ROOST
25/12/03	TIPPETCRAIG	326	832765	235	NONE	ROUTINE
27/12/03	BLACKHILL	26	821727	130	NONE	ROUTINE
27/12/03	LUCKENBURN	305	822722	50	NONE	ROUTINE
27/12/03	TIPPETCRAIG	325	830765	60	NONE	ROUTINE
27/12/03	TIPPETCRAIG	326	832765	12	NONE	ROUTINE
27/12/03	TIPPETCRAIG	335	832769	100	NONE	ROUTINE
27/12/03	WEST FANNYSIDE LOCH	400	800735	0	NONE	ROOST
28/12/03	BLACKHILL	8	818727	24	NONE	ROUTINE
28/12/03	BLACKHILL	26	820738	54	NONE	ROUTINE
28/12/03	LUCKENBURN	305	823724	235	NONE	ROUTINE
28/12/03	WEST FANNYSIDE LOCH	400	800735	235	NONE	ROOST
29/12/03	LUCKENBURN	305	822722	235	NONE	ROUTINE
30/12/03	BLACKHILL	8	818727	203	NONE	ROUTINE
30/12/03	BLACKHILL	26	821727	24	NONE	ROUTINE
30/12/03	LUCKENBURN	305	822722	115	NONE	ROUTINE
30/12/03	LUCKENBURN	305	822722	8	NONE	ROUTINE
31/12/03	BEAM FARM	170	836765	235	FARMING	ROUTINE
01/01/04	LUCKENBURN	305	822722	0	NONE	ROUTINE
02/01/04	LUCKENBURN	9	819722	14	NONE	ROUTINE
02/01/04	BLACKHILL	26	821727	72	NONE	ROUTINE
02/01/04	LUCKENBURN	303	820719	16	NONE	ROUTINE
03/01/04	LUCKENBURN	303	820719	235	NONE	ROUTINE
06/01/04	BLACKHILL	8	818727	47	NONE	ROUTINE
06/01/04	BLACKHILL	26	821727	5	NONE	ROUTINE
06/01/04	TIPPETCRAIG	326	832765	235	NONE	ROUTINE
07/01/04	TIPPETCRAIG	326	832765	235	NONE	ROUTINE
10/01/04	FANNYSIDE MUIR	77	804740	235	NONE	ROOST
11/01/04	TIPPETCRAIG	334	831767	50	NONE	ROUTINE
11/01/04	TIPPETCRAIG	339	828768	7	NONE	ROUTINE
12/01/04	TIPPETCRAIG	326	832765	80	NONE	ROUTINE
14/01/04	HILLEND	251	852734	0	NONE	ROUTINE
14/01/04	TIPPETCRAIG	324	828765	64	NONE	ROUTINE
14/01/04	TIPPETCRAIG	325	830765	74	NONE	ROUTINE
15/01/04	FANNYSIDE MUIR	77	804740	235	NONE	ROOST
15/01/04	TIPPETCRAIG	326	832765	110	NONE	ROUTINE
15/01/04	TIPPETCRAIG	326	832765	235	MICROLIGHT	ROUTINE

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DATE	PLACE	FIELD NO	GRID	NUMBER	DISTURBANCE	OBSERVATION TYPE
15/01/04	BEAM FARM	327	835767	5	NONE	ROUTINE
17/01/04	GARBETHILL	48	821755	50	NONE	ROUTINE
17/01/04	LUCKENBURN	303	820719	159	NONE	ROUTINE
17/01/04	TIPPETCRAIG	326	832764	50	ACC FLUSHED	ROUTINE
18/01/04	LUCKENBURN	9	819722	112	NONE	ROUTINE
18/01/04	LUCKENBURN	305	822722	49	NONE	ROUTINE
19/01/04	HILLEND	260	851736	37	NONE	ROUTINE
19/01/04	LUCKENBURN	305	822722	23	NONE	ROUTINE
23/01/04	FANNYSIDE MUIR	77	804740	40	NONE	ROOST
23/01/04	HILLEND	251	850734	0	NONE	ROUTINE
24/01/04	BLACKHILL	26	821727	235	NONE	ROUTINE
24/01/04	HILLEND FARM	251	850734	59	NONE	ROUTINE
24/01/04	HILLEND	251	850734	0	NONE	ROUTINE
24/01/04	HILLEND	255	848736	0	NONE	ROUTINE
24/01/04	TIPPETCRAIG	339	827769	150	NONE	ROUTINE
26/01/04	HILLEND	251	850735	0	NONE	ROUTINE
26/01/04	HILLEND	260	851736	0	NONE	ROUTINE
26/01/04	HILLEND	261	850738	0	NONE	ROUTINE
29/01/04	BLACKHILL	26	821727	50	NONE	ROUTINE
29/01/04	LUCKENBURN	303	820719	37	NONE	ROUTINE
29/01/04	LUCKENBURN	305	822722	8	NONE	ROUTINE
29/01/04	LUCKENBURN	306	824722	36	NONE	ROUTINE
29/01/04	WEST FANNYSIDE LOCH	400	800735	131	NONE	ROOST
01/02/04	BLACKHILL	26	821737	20	NONE	ROUTINE
01/02/04	LUCKENBURN	305	822722	8	NONE	ROUTINE
02/02/04	BLACKHILL	26	821727	20	NONE	ROUTINE
02/02/04	TIPPETCRAIG	334	831767	40	NONE	ROUTINE
02/02/04	TIPPETCRAIG	339	827769	50	NONE	ROUTINE
04/02/04	JAWCRAIG	101	847750	0	NONE	ROUTINE
05/02/04	HILLEND	251	850734	0	NONE	ROUTINE
05/02/04	TIPPETCRAIG	339	827769	150	NONE	ROUTINE
06/02/04	WEST FANNYSIDE LOCH	400	800735	0	NONE	ROOST
07/02/04	BLACKHILL	26	821737	62	NONE	ROUTINE
07/02/04	JAWCRAIG	120	847746	0	NONE	ROUTINE
09/02/04	GARBETHILL	48	821755	33	NONE	ROUTINE
12/02/04	TIPPETCRAIG	326	832765	235	NONE	ROUTINE
13/02/04	FANNYSIDE MUIR	77	804740	235	NONE	ROOST
13/02/04	GARBETHILL	173	828763	40	NONE	ROUTINE
14/02/04	JAWCRAIG	101	847750	0	NONE	ROUTINE
14/02/04	TIPPETCRAIG	173	828763	40	NONE	ROUTINE
15/02/04	GARBETHILL	48	821755	235	NONE	ROUTINE
16/02/04	JAWCRAIG	101	847750	0	NONE	ROUTINE
17/02/04	BLACKHILL	26	821737	100	NONE	ROUTINE
17/02/04	JAWCRAIG	120	847746	0	NONE	ROUTINE
18/02/04	LUCKENBURN	9	819722	154	NONE	ROUTINE
18/02/04	OAKERSDYKE	278	838742	12	NONE	ROUTINE
20/02/04	LUCKENBURN	9	819722	118	NONE	ROUTINE
20/02/04	BLACKHILL	26	821727	118	NONE	ROUTINE

Population and Distribution of Bean Geese in the Slamannan Area 2003/2004

DATE	PLACE	FIELD NO	GRID	NUMBER	DISTURBANCE	OBSERVATION TYPE
20/02/04	WEST FANNYSIDE LOCH	400	800735	127	NONE	ROOST
21/02/04	LUCKENBURN	9	819722	127	NONE	ROUTINE
21/02/04	BLACKHILL	26	821727	127	NONE	ROUTINE
21/02/04	BLACKHILL	26	821727	127	NONE	ROUTINE
21/02/04	TIPPETCRAIG	326	832765	127	NONE	ROUTINE
22/02/04	BLACKHILL	26	821727	127	NONE	ROUTINE
23/02/04	BLACKHILL	26	821727	20	NONE	ROUTINE
25/02/04	BLACKHILL	26	821727	20	NONE	ROUTINE
25/02/04	BLACKHILL	26	821727	33	NONE	ROUTINE
25/02/04	WEST FANNYSIDE LOCH	400	800735	33	NONE	ROOST
26/02/04	BLACKHILL	26	821727	19	NONE	ROUTINE
28/02/04	BLACKHILL	26	821727	51	NONE	ROUTINE
29/02/04	LUCKENBURN	305	822722	63	NONE	ROUTINE
02/03/04	LUCKENBURN	305	822722	26	NONE	ROUTINE
04/03/04	FANNYSIDE MUIR	77	804740	26	NONE	ROOST
05/03/04	FANNYSIDE MUIR	77	804740	0	NONE	ROOST