



**POPULATION and DISTRIBUTION
of
BEAN GEESE
in the
SLAMANNAN AREA
1999/2000**

THE BEAN GOOSE WORKING GROUP

REPORT BY

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1 Summary

This report details the results of a study undertaken between September 1999 to March 2000, 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.)

Early October saw c100 birds arrive on the plateau with numbers increasing to 167 birds by the end of the month. By early November the flock numbers had risen to an all time high of 188 birds.

The pattern of feeding was similar to recent years with fields in the western sector being the most grazed. A total of 20 fields were seen to be used this winter, which is much in keeping with the 19 used last year.

A small number of juveniles were again evident within the flock.

Roosting behaviour followed the usual pattern with East Fannyside Loch and the adjoining muir being the preferred site.

The ringing programme did not take place again this year due to unforeseen circumstances but plans are in hand to undertake this next year.

The flock left the plateau on 19 February; interestingly this is exactly the same date as last year.

The following gives an indication of the main feeding areas each month throughout the season 1999/2000.

October 99

First record was on the 6th with c100 birds seen at East Fannyside Loch. As last year the flock started feeding at Hillend Farm using field 251. Other fields used during the month were 39 and 40 at East Fannyside and field 170 at Beam Farm.

November 99

A visit on the 4th saw the flock at Tippetcraig field 324 and a few days later on fields 323 and 333. On the 10th the flock had moved to the East Fannyside area using fields 38 and 40. A notable visit on the 12th gave us a count of 188 birds, our highest number ever. A visit on the 15th found the flock in two groups, one at Tippetcraig field 325 of 48 birds and the other of 139 birds at Hillend using field 251. Visits on the 20th and 21st recorded the whole flock at Beam Farm.

December 99

On the 2nd the flock was again split in two, with a small group at Beam Farm and the larger one at Hillend Farm field 255. Later on the 10th there were three flocks. One of approx. 40 birds at East Fannyside field 40, one of approx 50 birds at Beam Farm field 170 and the largest one of approx 100 birds at Grangeneuk field 290. A visit on the 15th saw a flock of 64 birds in the eastern sector of the study area at Balmulzier field 241. On the 17th and 18th of the month field 26 at Blackhill came into use but by the 22nd the flock had returned to field 170 at Beam Farm.

January 2000

A visit on New Year's Day found a flock of 160 birds at Beam Farm and a smaller one of 9 birds at Hillend field 255. A further seven visits during the month recorded the birds at Beam and Blackhill. An interesting record was on the 24th when a flock of c160 birds was seen flying west at Strathavon Farm at 11am, though searched for their destination was not determined.

February 2000

A visit on the 2nd saw the birds at Beam Farm field 170 and later the same group at East Fannyside field 38. The following day a group of 33 birds was seen at Balmitchell farm field 206. A few days later the flock was again using the Beam/Tippetcraig area. Visits on the 10th, 15th and 18th saw the birds at Beam and Garbethill Muir. The last record of the winter was on the 19th when 103 birds were seen to flight from the roost to Garbethill Muir field 93. It is thought that the flock left the plateau later the same day.

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) For the RSPB, S.N.H., and the Bean Goose Working Group.

S.N.H., RSPB, Falkirk and North Lanarkshire councils funded the study.

The 1999/00 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. It was agreed to add an additional three fields at Tippetcraig Farm (333, 334 and 335) as the Bean Geese were recorded in this area this winter.

3.2 Distribution

3.2.1 Diurnal distribution of Bean Geese

The technique employed differed this year from previous with the route count method being changed in favour of routine observations. The Bean Geese were looked for on at least 124 occasions between late September and early March. On most of these occasions the whole study area was visited so as to record all geese present.

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

Carron Valley Reservoir: Occasional visits were made to this previously used location.

3.2.2 Roost Sites

The method employed was to arrive at a particular roost before dawn or sunset and monitor the birds' departure/arrival at the roost site. Observations were also made of flights between feeding areas and roost sites so that flight routes and roosting site behaviour could be established.

4 Results and analysis

4.1 Population and distribution

The maximum number of Bean Geese recorded during the winter was 188 birds. This was an increase of 20 in the flock size from last year.

(Previous figures are as follows: 1993/94 – 135, 1994/95 – 132, 1995/96 – 123, 1996/97 – 127, 1997/98 – 153, 1998/99 – 168).

As in previous years there were again no marked fluctuations in the flock size, which would suggest any immigration or emigration during the winter. The birds would seem to have arrived in three groups this year. The initial group was of c100 birds to be followed a week later by approx 65 birds. A further week passed before the last group appeared increasing the numbers to 188. There were again a small number of juveniles identified within the flock.

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

Greylags were present in the study area from early November through to the end of the study period in early March. During November the numbers reached 239 birds but by the beginning of December flock numbers reached 300 birds. In early January a count of 330 birds was the highest number recorded. For full details see Appendix 2.

Pinkfeet were recorded on fewer occasions but were present from mid November through to the end of the study period. During Nov/Dec numbers reached 81 birds and there was no significant increase until mid January when numbers built up to 300. Late January saw a peak count of 600 birds. For full details see Appendix 3.

Two groups of Greenland white-fronted geese were recorded this winter. One group of 10 birds appeared near East Fannyside Loch on 22nd January and the second of 17 birds on 27 February. Both groups did not stay more than a few days before moving on. There were no records received of any other goose species this winter.

- Carron Valley Reservoir

There were no records received of Bean Geese at this location.

4.1.2 Roost Sites

There were a total of 13 visits this winter to record roosting behaviour. Loch Elrig was seen to be used on two occasions and West Fannyside used on one occasion. All other records relate to East Fannyside Loch and nearby muir. Birds feeding at Tippetcraig, Beam and Hillend fly direct to the East Fannyside location at dusk. It has been noted that the flock often settle on Fannyside Muir on their arrival at the roosting area at or after dusk. Some or all of the flock often flight to the loch later.

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	Unknown
Foxes	

The Bean Geese were seen to be disturbed on a few occasions throughout the study period. The following details are from observations during routine visits totalling 124 records.

Accidentally flushed	2
Farming activity	1
Farm Vehicles	3
Total	6

6 Ringed Geese

The Bean Goose flock was searched whenever possible for ringed individuals but none was seen.

The previously proposed ringing and neck-banding scheme did not take place again this winter. This was due to unforeseen circumstances involving the personnel involved in the project. Due to additional changes in key personnel and doubt over funding, the neck banding scheme may well be deferred for season 2000/2001.

7 Discussion

As with previous years, this report concludes a very successful season for the flock and those associated with them.

The population still continues to rise with a total of 188 and again a small number of juveniles identified within the flock. There may well be more juveniles but the conditions experienced on most occasions are not conducive to identifying them.

The birds again did not appear until early October but arrived in mass with c100 birds in the initial flock. It is much in keeping though with the 1997/98 season when c100 birds arrived on 19th October and the 1998/99 season when 104 birds were recorded on 10th October. The departure date of 19th February was exactly the same as the previous winter.

The later date of arrival and an earlier departure in recent years might be in keeping with the milder weather we are experiencing during our winters in Central Scotland. This trend will continue to be monitored, comparing the Slamannan flock with other populations throughout Europe.

The flock were recorded using 20 fields this winter which is one more than last year. Once again the western sector of the study area was where most of the feeding took place. Much of the feeding activity was again restricted to those hard to reach localities like Beam and Tippetcraig. It is fortunate however from an observation point of view that a few fields at Hillend Farm are still suitable for grazing geese and are often used soon after the birds arrival on the plateau.

Roosting behaviour seems to be undergoing some form of change and is an area where further study is needed. Previously the flock would arrive at their roosting loch and alight on the water straight away. The last two winters has seen many of the birds arriving at the roosting area but preferring to settle on Fannyside Muir rather than selecting the loch. Later, some or all of the flock move the short distance to the loch.

It is known that night feeding takes place but behaviour not thought viable on the moors. This is an area of the birds wintering routine that is under recorded.

Forestry operations continue to change the landscape on the Slamannan plateau. Although there were no significant applications to plant in areas used by Bean Geese it was discovered in early March that conifer planting had taken place on Garbethill Muir field 93 in an area that is often used by the birds for drinking and loafing. There are no forestry records of applications to plant in this area. Two scrapes have also been made in this area to attract ducks for shooting.

Birdwatchers have again been catered for with several groups making contact with the fieldworkers to arrange a visit to the plateau to see the geese. Information is given to Birdline Scotland on a regular basis so as to make available locations where the geese can be seen.

A new Bean Geese web site has recently been opened and gives information about this species in Scotland. The address is www.bean-geese.pwp.blueyonder.co.uk. Links have been made to other bird related sites.

8 Acknowledgements

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

A grateful thanks to the small number of recorders who submitted records to be included this report.
(K. Sheehan, W. Eglinton and M. Trubridge RSPB.)

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

9 References

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10 Appendices

Appendices

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Note : In Appendix IV - zero (0) records refer to Grey Geese records.

Appendix I Bean Geese Survey Data 1999/2000

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			
170	160	708	438	790	436	2532	506	20
77	160	285	180		220	845	169	6
40	178	465	176			819	164	12
251	697			46		743	149	17
26			330	88		418	84	3
38		188			212	400	80	3
39	100	182				282	56	2
255			180	9	20	209	42	10
93					166	166	33	3
323		164				164	33	2
48		160				160	32	1
290			152			152	30	2
324		150				150	30	1
402				150		150	30	3
265		139				139	28	1
241			64			64	13	1
325		48				48	10	1
333					36	36	7	1
206					33	33	7	1
326				31		31	6	1
229			10			10	2	1
400			7			7	1	1

Appendix II Greylag Geese Survey Data 1999/2000 Bird-Days per Month

FIELD NO	Total No of Greylag				Total	Average
	Nov	Dec	Jan	Feb		
251	644	389	0	44	1077	269
255	13	20	153	450	636	159
40	0	0	0	602	602	151
252	0	148	355	68	571	143
261	0	0	480	0	480	120
260	55	0	117	0	172	43
276	0	0	0	120	120	30
153	0	110	0	0	110	28
158	0	0	104	0	104	26
278	0	0	0	56	56	14
401	0	0	0	44	44	11
25	0	31	0	0	31	8
180	0	0	23	0	23	6
79	0	0	0	4	4	1
402	0	0	0	1	1	0

Appendix III Pinkfeet Geese Survey Data 1999/2000 Bird-Days per Month

FIELD NO	Total No of Pinkfeet				Total	Average
	Nov	Dec	Jan	Feb		
180	0	0	900	0	900	225
255	0	0	340	300	640	160
153	0	0	0	500	500	125
157	0	0	0	500	500	125
208	0	0	0	400	400	100
186	0	0	300	0	300	75
276	0	0	0	300	300	75
158	0	0	0	290	290	73
214	0	0	0	100	100	25
252	0	81	0	0	81	20
251	50	0	0	0	50	13
260	37	0	0	0	37	9

Appendix IV Bean Geese Survey Records 1999/2000

DATE	PLACE	FIELD NO	GRID	NUMBER OF BEAN GEESE	DISTURBANCE	OBSERVATION TYPE
06-Oct-99	EAST FANNYSIDE LOCH	401	806737	100	NONE	ROOST
09-Oct-99	HILLEND	251	852735	108	NONE	ROUTINE
10-Oct-99	HILLEND	251	851735	108	NONE	ROUTINE
11-Oct-99	HILLEND	251	850735	108	NONE	ROUTINE
11-Oct-99	HILLEND	251	851735	108	NONE	ROUTINE
14-Oct-99	HILLEND	251	850736	98	NONE	ROUTINE
16-Oct-99	FANNYSIDE MUIR	39	810743	100	NONE	ROUTINE
20-Oct-99	EAST FANNYSIDE	40	818744	163	NONE	ROUTINE
23-Oct-99	HILLEND	251	850735	167	NONE	ROUTINE
26-Oct-99	BEAM FARM	170	836764	160	NONE	ROUTINE
29-Oct-99	FANNYSIDE MUIR	77	803740	160	NONE	ROOST
30-Oct-99	EASTFANNYSIDE	40	817744	15	NONE	ROUTINE
04-Nov-99	TIPPETCRAIG	324	828764	150	NONE	ROUTINE
06-Nov-99	HILLEND	255	848736	0	NONE	ROUTINE
07-Nov-99	GARBETHILL	48	818755	160	NONE	ROUTINE
07-Nov-99	HILLEND	251	850735	0	NONE	ROUTINE
07-Nov-99	TIPPETCRAIG	323	822767	160	FLUSHED	ROUTINE
07-Nov-99	TIPPERCRAIG	323	826764	4	NONE	ROUTINE
09-Nov-99	HILLEND	251	850734	0	NONE	ROUTINE
10-Nov-99	FANNYSIDE MUIR	39	810745	182	NONE	ROUTINE
10-Nov-99	EAST FANNYSIDE	40	817744	182	FARMING	ROUTINE
11-Nov-99	EAST FANNYSIDE	40	818744	160	NONE	ROUTINE
12-Nov-99	EAST FANNYSIDE	38	815743	188	NONE	ROUTINE
12-Nov-99	EAST FANNYSIDE	40	818745	43	NONE	ROUTINE
12-Nov-99	HILLEND	251	850735	0	NONE	ROUTINE
12-Nov-99	HILLEND	251	850736	0	NONE	ROUTINE
14-Nov-99	EAST FANNYSIDE	40	818744	80	NONE	ROUTINE
14-Nov-99	FANNYSIDE MUIR	77	804740	105	NONE	ROOST
14-Nov-99	HILLEND	251	851735	0	NONE	ROUTINE
14-Nov-99	FANNYSIDE LOCH	401	806737	50	NONE	ROOST
15-Nov-99	HILLEND	251	850735	0	NONE	ROUTINE
15-Nov-99	HILLEND	265	848735	139	NONE	ROUTINE
15-Nov-99	TIPPETCRAIG	325	830765	48	NONE	ROUTINE
20-Nov-99	BEAM FARM	170	835764	180	NONE	ROUTINE
20-Nov-99	HILLEND	251	850735	0	NONE	ROUTINE
20-Nov-99	EAST FANNYSIDE LOCH	401	806737	180	NONE	ROOST
21-Nov-99	BEAM FARM	170	836764	188	NONE	ROUTINE
21-Nov-99	BEAM FARM	170	836766	160	NONE	ROUTINE
24-Nov-99	BEAM FARM	170	836765	180	NONE	ROUTINE
24-Nov-99	HILLEND	260	851737	0	NONE	ROUTINE
27-Nov-99	FANNYSIDE MUIR	77	803740	180	NONE	ROOST
01-Dec-99	HILLEND	251	852735	0	NONE	ROUTINE
02-Dec-99	BEAM FARM	170	835765	40	NONE	ROUTINE
02-Dec-99	HILLEND	255	848765	180	NONE	ROUTINE
08-Dec-99	EAST FANNYSIDE	40	818744	130	NONE	ROUTINE
09-Dec-99	HILLEND	251	849735	0	NONE	ROUTINE
09-Dec-99	HILLEND	252	853735	0	NONE	ROUTINE
09-Dec-99	HILLEND	255	848735	0	NONE	ROUTINE

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DATE	PLACE	FIELD NO	GRID	NUMBER OF BEAN GEESE	DISTURBANCE	OBSERVATION TYPE
10-Dec-99	EAST FANNYSIDE	40	818743	46	NONE	ROUTINE
10-Dec-99	BEAM FARM	170	835764	58	NONE	ROUTINE
10-Dec-99	GRANGENEUK	290	823737	96	NONE	ROUTINE
12-Dec-99	GRANGENEUK	25	814737	0	VEHICLES	ROUTINE
12-Dec-99	FANNYSIDE MUIR	77	803740	180	NONE	ROOST
12-Dec-99	GRANGENEUK	290	825735	56	NONE	ROUTINE
12-Dec-99	WEST FANNYSIDE LOCH	400	804734	7	NONE	ROOST
15-Dec-99	REDBRAE	153	874743	0	NONE	ROUTINE
15-Dec-99	REDBRAE	153	873742	0	NONE	ROUTINE
15-Dec-99	BALMULZIER	241	864734	64	NONE	ROUTINE
16-Dec-99	WESTER LOANRIG	229	866737	10	NONE	ROUTINE
17-Dec-99	BLACKHILL	26	822726	150	NONE	ROUTINE
18-Dec-99	BLACKHILL	26	822726	180	NONE	ROUTINE
22-Dec-99	BEAM FARM	170	835766	160	NONE	ROUTINE
28-Dec-99	BEAM FARM	170	836765	180	VEHICLES	ROUTINE
01-Jan-00	BEAM FARM	170	836765	160	NONE	ROUTINE
01-Jan-00	HILLEND	255	848735	9	NONE	ROUTINE
06-Jan-00	HILLEND	255	848737	0	NONE	ROUTINE
06-Jan-00	HILLEND	261	850738	0	NONE	ROUTINE
06-Jan-00	BEAM FARM	326	833766	31	NONE	ROUTINE
07-Jan-00	LOCH ELRIG	402	885748	100	NONE	ROOST
09-Jan-00	BEAM FARM	170	836765	60	NONE	ROUTINE
09-Jan-00	WESTER JAW	260	832737	0	NONE	ROUTINE
09-Jan-00	WESTER JAW	261	849737	0	NONE	ROUTINE
13-Jan-00	HILLEND	251	850735	46	NONE	ROUTINE
14-Jan-00	EAST FANNYSIDE LOCH	401	807737	100	NONE	ROOST
14-Jan-00	LOCH ELRIG	402	885749	50	NONE	ROOST
15-Jan-00	BEAM FARM	170	835764	170	NONE	ROUTINE
17-Jan-00	REDBRAE	158	876743	0	NONE	ROUTINE
17-Jan-00	LOCH ELRIG	180	890748	0	NONE	ROUTINE
22-Jan-00	LOCH ELRIG	180	890748	0	NONE	ROUTINE
22-Jan-00	LOCH ELRIG	186	894745	0	NONE	ROUTINE
22-Jan-00	FANNYSIDE MILL	255	848736	0	NONE	ROUTINE
22-Jan-00	HILLEND	255	848736	0	NONE	ROUTINE
23-Jan-00	BLACKHILL	26	820727	88	NONE	ROUTINE
23-Jan-00	BEAM FARM	170	835765	80	NONE	ROUTINE
27-Jan-00	BEAM FARM	170	836766	140	NONE	ROUTINE
31-Jan-00	BEAM FARM	170	836764	180	NONE	ROUTINE
31-Jan-00	HILLEND	252	855735	0	NONE	ROUTINE
31-Jan-00	HILLEND	255	849736	0	NONE	ROUTINE
02-Feb-00	EAST FANNYSIDE	38	815743	92	NONE	ROUTINE
02-Feb-00	EAST FANNYSIDE	40	818744	0	NONE	ROUTINE
02-Feb-00	EAST FANNYSIDE	40	818745	0	NONE	ROUTINE
02-Feb-00	FANNYSIDE MUIR	77	805738	180	NONE	ROOST
02-Feb-00	FANNYSIDE MUIR	77	805738	40	NONE	ROOST
02-Feb-00	BEAM FARM	170	836765	92	NONE	ROUTINE
02-Feb-00	HILLEND	276	846736	0	NONE	ROUTINE
03-Feb-00	BALMITCHELL	206	883736	33	NONE	ROUTINE
03-Feb-00	HILLEND	255	848736	20	NONE	ROUTINE
06-Feb-00	GARBETHILL MUIR	93	837764	36	NONE	ROUTINE
06-Feb-00	BEAM FARM	170	835765	100	VEHICLES	ROUTINE

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DATE	PLACE	FIELD NO	GRID	NUMBER OF BEAN GEESE	DISTURBANCE	OBSERVATION TYPE
06-Feb-00	HILLEND	255	848737	0	NONE	ROUTINE
06-Feb-00	PARKHEAD	278	838742	0	NONE	ROUTINE
06-Feb-00	TIPPETCRAIG	333	830767	36	NONE	ROUTINE
07-Feb-00	EAST FANNYSIDE	40	818745	0	NONE	ROUTINE
07-Feb-00	EAST FANNYSIDE	40	818744	0	NONE	ROUTINE
10-Feb-00	EAST FANNYSIDE	38	815743	120	NONE	ROUTINE
10-Feb-00	BEAM FARM	170	836765	80	FLUSHED	ROUTINE
15-Feb-00	GARBETHILL	79	822746	0	NONE	ROUTINE
15-Feb-00	REDBRAE	157	876745	0	NONE	ROUTINE
15-Feb-00	REDBRAE	158	876743	0	NONE	ROUTINE
15-Feb-00	BEAM FARM	170	837764	64	NONE	ROUTINE
15-Feb-00	HILLEND	252	854735	0	NONE	ROUTINE
15-Feb-00	PARKHEAD	278	838743	0	NONE	ROUTINE
18-Feb-00	REDBRAE	153	873742	0	NONE	ROUTINE
19-Feb-00	GARBETHILL MUIR	93	838762	103	NONE	ROUTINE
19-Feb-00	EAST FANNYSIDE LOCH	401	807736	103	NONE	ROUTINE
20-Feb-00	HILLEND	251	850735	0	NONE	ROUTINE
20-Feb-00	EAST FANNYSIDE LOCH	401	807736	0	NONE	ROUTINE
20-Feb-00	LOCH ELRIG	402	885749	0	NONE	ROUTINE
27-Feb-00	EAST FANNYSIDE	24	810735	0	NONE	ROUTINE
27-Feb-00	BALMITCHELL	208	883733	0	NONE	ROUTINE
27-Feb-00	EASTER LOANRIG	214	876734	0	NONE	ROUTINE
27-Feb-00	HILLEND	252	854736	0	NONE	ROUTINE
18-Feb-20	GARBETHILL MUIR	93	836763	27	NONE	ROUTINE
18-Feb-20	BEAM FARM	170	835765	100	NONE	ROUTINE