

Our original conservation target was to ensure that we had at least 5 sows or boars in each line and that each line was represented in at least 5 herds. This has proved difficult for the Large White

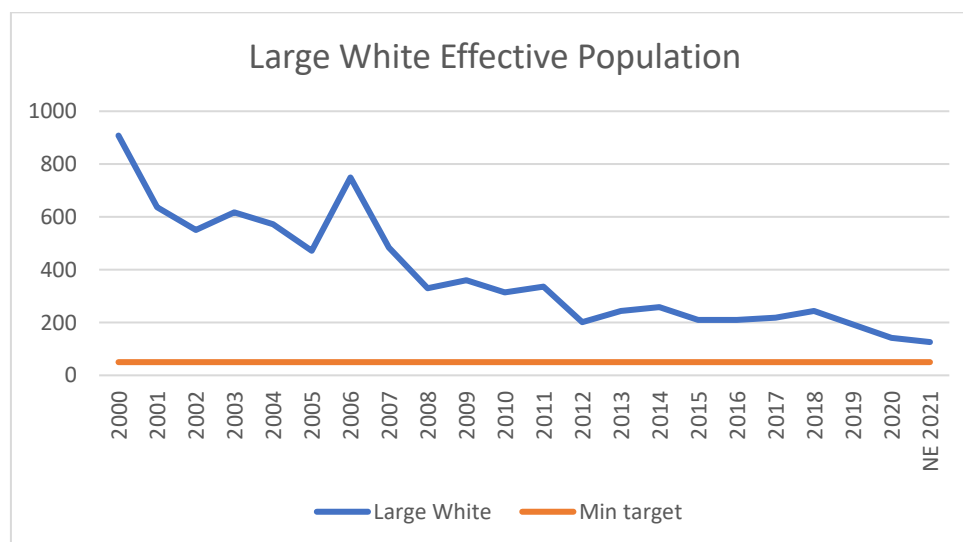
Members keeping this line				Line Name	Last seen	Total Sows			
2021	2020	2019	2018			2021	2020	2019	2018
10	11	15	17	Beautiful		43	42	46	42
4	5	4	5	Berry Catalina		6	5	9	13
4	4	2	2	Beryl		6	7	3	2
7	8	7	10	Blackberry		16	17	12	17
1	1	1	1	Bonetta		1	1	1	1
12	13	12	16	Champion Lady		34	44	42	36
3	3	3	2	Champion Molly		9	5	5	3
0	1	2	2	Dainty Girl		0	3	3	4
3	2	3	5	Dainty Lady		10	7	13	4
4	4	3	4	East Lass		8	8	5	6
5	5	5	10	Fanny		10	8	11	18
1	3	2	7	Greenback		3	6	2	13
2	4	4	5	Greta		3	5	6	7
4	3	3	3	Houri		10	4	3	3
1	1	1	1	Jean		2	3	2	1
2	3	4	6	Lady Mollington		3	4	4	10
3	4	3	3	Lassie		4	4	7	4
7	8	6	9	Maid Matilda		19	14	47	44
6	3	4	5	Maple		11	8	7	22
4	3	4	4	Maple Leaf		6	7	8	5
0	0	0	1	Molly	2018	0	0	0	2
2	2	4	3	Primrose		8	3	5	3
1	4	6	3	Queen		1	6	9	6
15	16	17	17	Queen Mary		29	25	54	57
0	0	0	1	Rima		0	0	1	0
12	14	13	20	Royal Catalina		40	49	90	91
1	1	2	4	Royal Maple		7	6	5	7
				Total		289	291	399	430
Percentage of sows with purebred litters						63%	62%	68%	67%

Only one third of the sow lines are present in 5 herds and 5 lines are only present in a single herd and the Dainty Girl line is not present this years survey. We haven't seen the Molly and Rima lines since 2018 and it looks as though these are lost. Although the fall in sow numbers has been arrested, maintaining the remaining 25 sow lines will be a significant challenge for the 45 Large White breeders who are still keeping faith with the breed.

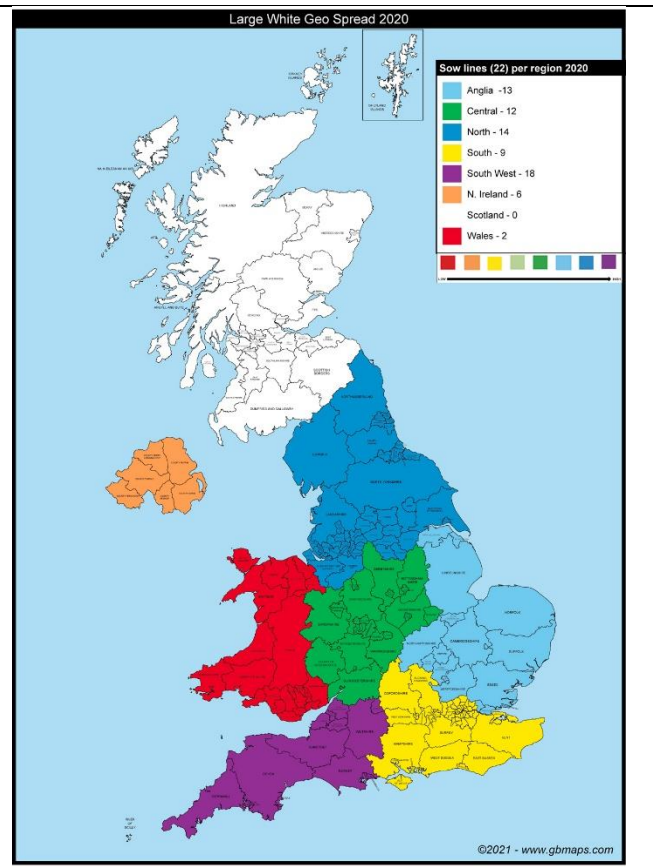
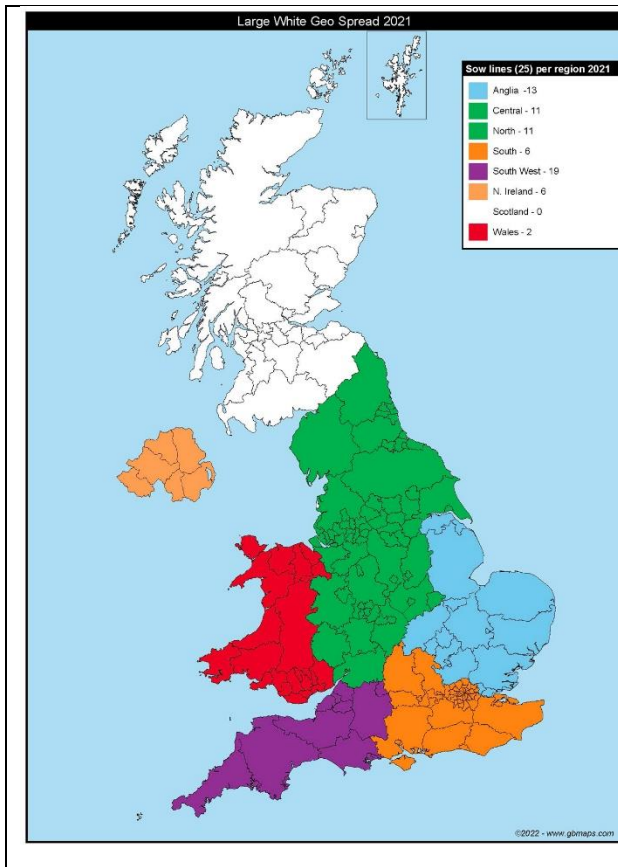
The Dougal and Weiss lines did not appear in last year's survey results. The Weiss line is back but sadly there is no sign of any registered Dougal boars and now we are missing the Rope Snobb and Valiant lines as well. Of the 19 boar lines only 9 have more than 5 boars and 4 are present in 5 or more herds.

Members keeping this line				Line Name	Last seen	Registered Boars			
2021	2020	2019	2018			2021	2020	2019	2018
6	5	4	4	Alpine		6	6	6	6
2	4	5	3	Champion Boy		2	4	7	4
5	8	9	8	Champion Turk		5	8	9	8
4	3	6	6	Danny		6	5	8	8
0	0	1	1	Dougal	2019	0	0	1	2
5	5	11	7	Field Marshal		5	5	14	8
4	3	2	5	Gul		5	3	6	11
1	1	0	1	Hover		1	1	0	1
7	8	9	9	King David		12	12	12	13
4	2	4	4	Mcflannel		5	3	4	4
1	2	2	2	Napoleon		1	2	3	2
4	4	4	3	Prince		5	6	5	4
0	1	1	1	Rope	2020	0	1	1	1
4	3	2	2	Royal Turk		4	3	2	2
0	1	2	1	Snobb	2020	0	1	2	1
1	1	1	1	Solid Gold		1	1	3	3
1	1	1	1	Valiant		1	1	1	2
4	5	8	8	Viking		7	5	8	8
0	0	1	0	Weiss		0	0	1	0
Total						66	68	93	88
Members keeping registered pigs						45	50	51	56

Effective population (Ne) size is a measure of the genetic health of the breed. It is calculated as part of the National Inventory of Farm Animal Genetic Resources maintained by Defra based on the annual bloodline survey figures for the UK that we supply. Our 2021 figures will be added in May this year when the inventory is updated. The effective population size of all our native breeds is used in an index as part of the UK monitoring of biodiversity as part of our commitments under the Convention on Biodiversity to which the UK is a signatory. The effective population size is linked to the actual population but there are ways in which we manage this even when sow numbers are falling and this will be our challenge whenever we are faced with difficult times for pedigree breeders.



These maps use a sliding rainbow scale from red to purple. The colours do not represent specific values as the range of lines between breeds is very wide. What they do show for each breed is where the breed is strongest in terms of lines and where it is weakest



These tables show in more detail the progress being made to establish all the lines in as many regions as possible

Region	Beautiful Sows	Berry Catalina Sows	Beryl Sows	Blackberry Sows	Bonetta Sows	Champion Sows	Champion Lady Sows	Champion Molly Sows	Dainty Girl Sows	Dainty Lady Sows	East Lass Sows	Fanny Sows	Greenback Sows	Greta Sows	Hourii Sows	Jean Sows	Lady Mollington Sows	Lassie Sows	Maid Matilda Sows	Maple Sows	Maple Leaf Sows	Primrose Sows	Queen Sows	Queen Mary Sows	Royal Catalina Sows	Royal Maple Sows	Total sows / region	2021 Sow lines / region	2020 Sow lines / region	2019 Sow lines / region
Anglia	7	0	3	3	0	5	0	0	0	2	2	0	0	1	0	0	0	7	1	3	0	0	5	26	7	72	13	13	13	
Central	18	1	0	2	1	8	0	0	0	4	0	0	0	0	0	0	0	3	2	2	0	0	1	2	0	44	11	12	11	
North	2	1	0	9	0	11	0	0	0	0	1	0	3	0	0	3	3	0	0	0	6	0	15	7	0	61	11	14	12	
South	0	0	2	0	0	3	3	0	2	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	15	6	9	6	
South West	16	4	1	2	0	7	6	0	1	2	3	0	0	5	2	0	1	4	2	1	2	1	2	2	0	64	19	18	17	
N. Ireland	0	0	0	0	0	0	0	0	7	0	3	3	0	0	0	0	0	5	0	0	0	0	5	3	0	26	6	6	7	
Scotland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Wales	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1	0	0	7	2	2	7	
2021 Regions with this line	4	3	3	4	1	5	2	0	3	3	5	1	1	3	1	1	2	4	4	3	2	1	6	5	1	289				
2020 Regions with this line	5	4	3	4	1	5	2	1	2	4	5	2	1	2	1	1	3	4	2	3	2	4	7	5	1					
2019 Regions with this line	6	3	2	4	1	5	2	1	3	3	4	2	1	2	1	1	2	3	3	4	3	5	6	5	2					

Region	Alpine	Champion Boy	Champion Turk	Danny	Dougal	Field Marshal	Gul	Hover	King David	Mcflannel	Napoleon	Prince	Rope	Royal Turk	Snobb	Solid Gold	Tournesol	Valiant	Viking	Weiss	Total Boars / region	2021 Boar lines / region	2020 Boar lines / region	2019 Boar lines / region	2021 Breeders / region	2020 Breeders / Region	2019 Breeders / Region
Anglia	2	0	2	0	0	0	2	0	5	1	0	1	0	0	0	0	0	0	1	0	14	7	5	11	8	8	7
Central	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	5	6	7	9
North	1	0	1	2	0	1	1	0	2	0	0	1	0	1	0	0	0	0	1	0	11	9	10	8	9	14	13
South	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	3	5	3	5
South West	0	1	2	2	0	2	1	1	4	3	1	3	0	2	0	0	0	1	3	0	26	13	13	10	10	11	10
N. Ireland	2	0	0	2	0	0	1	0	1	1	0	0	0	1	0	1	0	0	2	0	11	8	10	9	4	5	4
Scotland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wales	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	2	3
2021 Regions with this line	4	2	3	3	0	4	4	1	4	3	1	3	0	3	0	1	0	1	4	0	66			45			
2020 Regions with this line	3	3	4	3	0	4	3	1	5	2	2	3	1	3	1	1	1	1	4	0							
2019 Regions with this line	3	3	5	5	1	6	1	0	5	3	2	2	1	2	2	1	0	1	4	1							

We have 9 of the 10 priority lines in the Genebank. This year we are hoping to have a Prince boar from another older, established herd that is not yet represented in the Genebank

HB No	Name	Breeder	DOB	Ear No	IB
R008527LW	Tates Danny 311	MIS	17/05/2011	MIS/23397L	0.0155
R008579LW	Tates Field Marshal 924	MIS	25/08/2011	MIS/24165L	0.0155
R008724LW	Trepaze Champion Boy 14	CYU	29/10/2011	CYU/527	0.0029
R008627LW	Withersfield Champion Turk 3	KAE	02/01/2012	KAE/1433	0.0075
R008739LW	Tates Danny 314	MIS	05/05/2012	MIS/26222M	0.0159
R009709LW	Bartington King David	MVX	01/10/2015	MVX/1	0.0002
R010213LW	Tates Alpine 809	MIS	03/12/2016	MIS/27574T	0.0186
R010487LW	Bellaghy Dougal 8743D	RAB	10/10/2017	RAB/8743D	0.0088
R010504LW	Donagheragh Danny	KBB	11/03/2018	KBB/47	0.0114
R010928LW	Portbredy Mcflannel 5390	SSL	29/11/2019	SSL/5390	0.0031
R010929LW	Portbredy Royal Turk 5252A	SSL	22/10/2019	SSL/5252A	0.0045
Inbreeding Coefficient of the Large White Genebank					0.0094

Mean Inbreeding for the UK Large White Population: 2021: 0.0648, 2020: 0.0613, 2019: 0.0558

Large White Objectives for 2021

- Improve the numbers and distribution of the Bonetta, Dainty Girl and Jean sow lines

We were not able to meet any of these objectives and the Dainty Girl line is now missing from the national herd.

- Save the Weiss and Dougal boar lines and improve the numbers and distribution of the Hover, Rope, Snobb, Solid Gold, Viking and Valiant lines which are only kept in single herds

The Weiss line has been saved but there is no sign of the Dougal. No progress has been made with any of the other boar lines and there are no registered Rope, Snobb and Valiant boars in the national herd.

- Add the Prince boar line to the Genebank

A Prince boar from a different herd as yet unrepresented in the Genebank has been identified and we hope to have progeny from this boar for the Genebank later this year.

Large White Objectives for 2022

- Re-assess the effectiveness of conservation programmes based on lines for this breed.
- Try to save the Dainty Girl, Dougal, Rope, Snobb and Valiant lines
- Add the Prince boar line to the Genebank