



BPA Conservation Breeding Plan 2022

Large Black Survey Results



Thank you to everyone who completed their survey without prompting. Each year there are less breeders to contact which makes the job so much easier. It is pleasing to see that despite the issues within the wider pig industry, the Large Black numbers have held their own. Although we have lost a few breeders, numbers are up for both males and females.

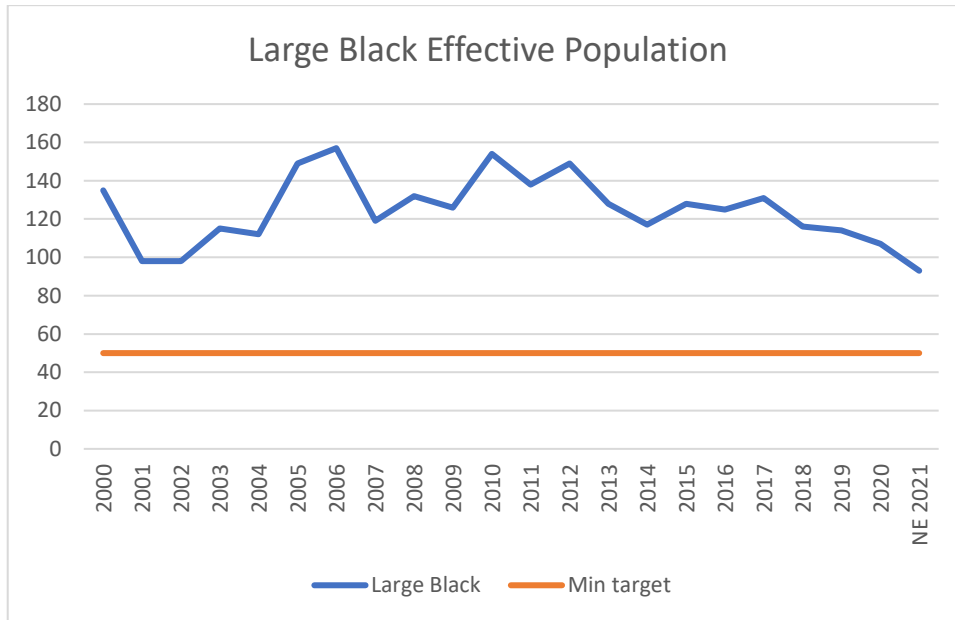
Members keeping this sow line					Sow Line	Total Sows				
2021	2020	2019	2018	2004		2021	2020	2019	2018	2004
6	5	3	5	20	Bess	6	5	3	6	33
12	14	13	16	1	Black Lady	17	23	20	20	2
12	13	12	8	10	Blackie	18	17	18	13	16
11	10	8	5	4	Constance	17	15	11	7	6
8	6	5	7	15	Diana	12	8	9	10	22
10	11	14	10	8	Doreen	22	24	33	27	11
4	5	8	12	1	Dorothy	8	10	15	15	4
9	5	6	6	6	Fashion	14	8	10	11	14
9	6	3	3	5	Flame	17	13	5	8	5
17	15	8	7	5	Gold Vase	27	24	10	9	6
13	6	4	4	3	Golden Harvest	18	7	8	6	3
7	5	5	4	5	Grandeur	12	12	11	11	6
11	12	12	12	8	Jewel	17	19	21	17	19
7	6	5	3	10	Julia	9	6	6	4	11
5	5	4	8	10	Larkspur	8	7	6	12	10
8	9	7	8	9	Maid	18	20	16	22	9
18	21	18	23	10	Matilda	28	36	40	65	14
15	14	9	9	13	Nocturne	25	20	18	13	23
6	4	5	6	5	Princess	10	8	12	12	3
6	7	7	7	11	Queen	6	10	10	12	14
8	8	7	6	8	Skylark	11	10	10	11	7
11	11	11	6	9	Sunshine	23	14	13	9	10
8	6	7	6	11	Warbler	11	9	13	14	11
					Total	354	325	318	334	259
Percentage of sows with purebred litters						44%	46%	46%	50%	

There are now no lines with less than 6 individuals. Only the Dorothy has less than 5 keepers. We will monitor the Bess, Dorothy, Julia, Larkspur & Queen lines which have less than 10 individuals. We are aware of young gilts yet to be registered of some of these lines which will take numbers up.

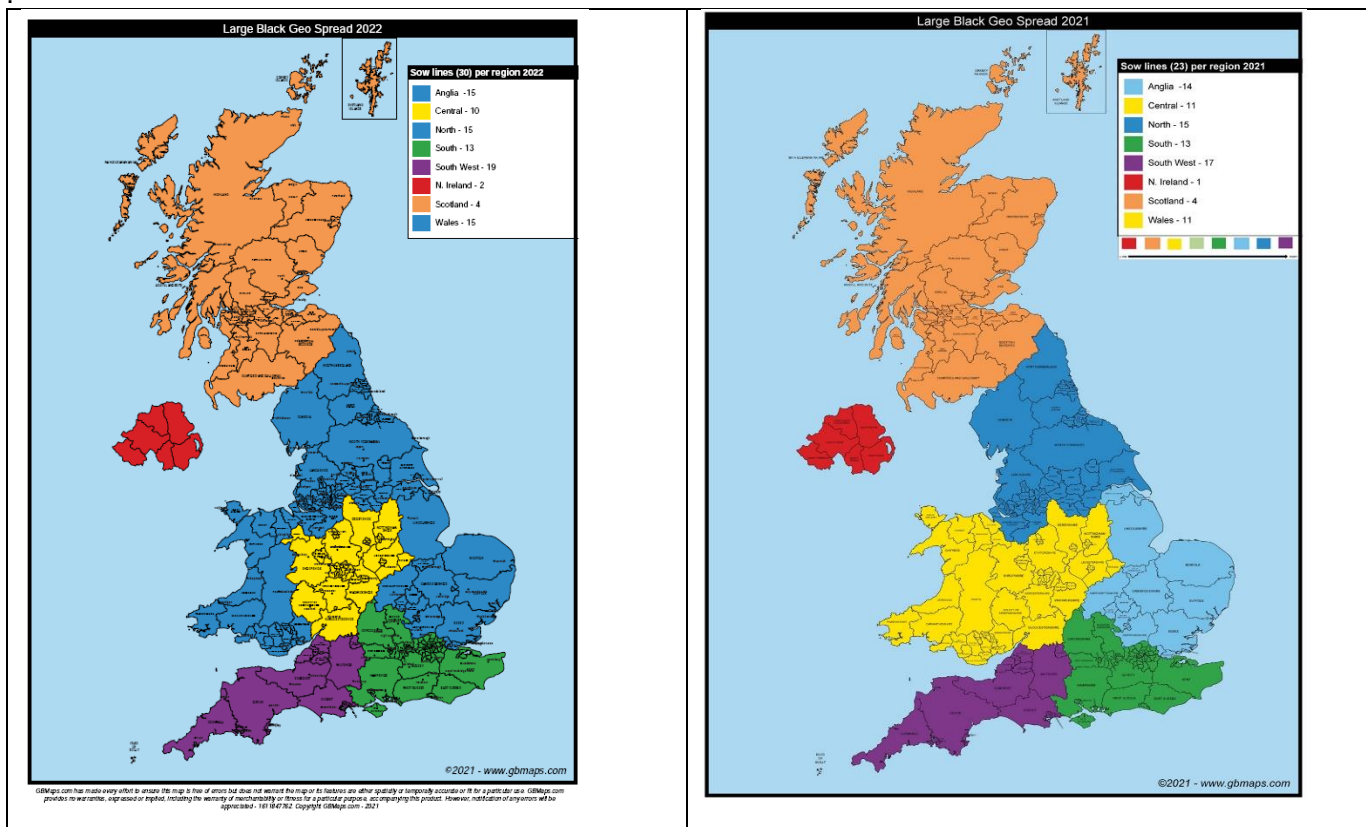
Members keeping this boar line					Boar Line	Registered Boars				
2021	2020	2019	2018	2004		2021	2020	2019	2018	2004
10	7	8	6	5	Attempt	11	7	9	6	5
12	11	13	14	13	Defender	12	11	13	14	14
22	20	20	22	22	Majestic	24	21	23	24	22
10	9	7	11	11	Majestic Eagle	10	9	8	13	8
11	9	9	12	11	Malcolm	12	11	11	13	10
11	9	10	8	10	Super	11	10	11	9	10
					Total	80	69	75	79	69
Members keeping registered pigs						123	130	119	127	128

With huge help from the committee and members of the Large Black Pig Breeders Club we achieved most of our conservation objectives during 2021. Such is the nature of what we do, some of these have taken a couple of years to come to fruition and perseverance has been needed.

Effective population (N_e) 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



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	Bess	Black Lady	Blackie	Constance	Diana	Doreen	Dorothy	Fashion	Flame	Gold Vase	Golden Harvest	Grandeur	Jewel	Julia	Larkspur	Maid	Matilda	Nocturne	Princess	Queen	Sylark	Sunshine	Warbler	Total sows / region	2021 Sow lines / region	2020 Sow lines / region	2019 Sow lines / region
Anglia	1	7	4	0	0	0	0	2	8	4	1	3	10	0	0	6	3	1	7	1	1	0	0	59	15	14	15
Central	0	0	3	0	1	0	4	1	0	1	1	0	0	1	0	0	5	0	0	0	2	3	0	22	10	11	11
North	0	2	9	1	5	0	0	0	0	1	5	5	0	1	1	0	7	5	0	4	3	10	6	65	15	15	16
South	4	3	0	0	6	4	0	0	2	8	7	0	1	2	2	0	1	1	2	0	0	0	0	43	13	13	13
South West	1	0	2	6	0	12	3	1	4	8	4	2	3	5	0	10	6	15	1	1	4	1	0	89	19	17	19
N. Ireland	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	3
Scotland	0	0	0	4	0	0	0	0	0	3	0	0	0	0	0	0	2	0	0	0	0	0	4	13	4	4	5
Wales	0	5	0	6	0	5	0	10	3	2	0	2	3	0	5	2	4	3	0	0	1	9	1	61	15	11	16
2021 Regions with this line	3	4	4	4	3	4	3	4	4	7	5	4	4	4	3	3	7	5	3	3	5	4	3	354			
2020 Regions with this line	2	5	5	4	3	4	4	4	2	7	3	3	3	3	3	7	5	1	3	4	6	2					
2019 Regions with this line	2	4	6	2	4	5	5	4	1	6	2	3	4	2	3	3	7	4	2	3	4	5	2				

region	Attempt	Defender	Majestic	Majestic Eagle	Malcolm	Super	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	1	4	1	2	3	13	6	6	5	21	25	22
Central	0	2	2	0	0	0	4	2	2	5	8	12	13
North	1	1	4	3	1	2	12	6	5	5	21	21	18
South	1	4	1	0	0	2	8	4	4	4	12	13	15
South West	5	1	2	2	5	3	18	6	6	6	31	34	25
N. Ireland	0	0	2	1	0	0	3	2	1	1	3	3	3
Scotland	1	2	1	1	0	0	5	4	4	2	7	7	8
Wales	1	1	7	2	4	1	16	6	3	3	19	12	12
2021 Regions with this line	6	7	8	6	4	5	79				122		
2020 Regions with this line	4	6	7	5	4	5							
2019 Regions with this line	5	7	6	4	5	4							

The BPA/RBST look for 10 unrelated boars to have semen held in long term storage, in 2021 the final boar went to Deerpark. This boar is now available for fresh semen too.

HB Reg No	Name	Ear No	DOB	IB 2
CBJ/190	Westerly Majestic 190	CBJ/190	10/03/2002	0.0332
R000455LB	Bilgrm Defender 14	BBL/14	07/07/2005	0.0342
R000907LB	Sock Attempt 15	SOK/3106	05/03/2007	0.0299
R001442LB	Crane Majestic Eagle 3	CRW/439	05/08/2009	0.0335
R001661LB	Sock Super26th	SOK/3482	02/01/2011	0.0224
R002180LB	Donagheragh Malcolm 61	KBB/61	04/12/2012	0.0358
R002312LB	Donagheragh Super 93	KBB/93	28/10/2013	0.0178
R003103LB	Framfield Majestic 203	NMA/203	01/09/2017	0.008
R003362LB	Luckygeorge Majestic 2	LGP/33	02/01/2019	0.0145
R003784LB	Framfield Majestic Eagle 313	NMA/313	18/01/2021	0.0096
Average in breeding of Large Black boars in the Genebank				0.0239

Mean Inbreeding for the UK Large Black Population:
2021: 0.0330, 2020: 0.0398, 2019: 0.0420

It should be noted that the reduction in mean inbreeding over the years is testament to the efforts of all our breeders who have thought about matings more carefully,

Large Black Objectives for 2021

- Improve the numbers and distribution of the Princess, Queen & Warbler lines.
 - *We have achieved our objectives for the Princess and Warbler lines, whilst we continue to work on the Queen*
- Select a final boar for the genebank unrelated to both the tank and the general population.
 - *A Majestic Eagle boar went to Deerpark which concludes our immediate requirement for the breed.*
- Identify pigs of breeding age with no birth notified progeny which are the least related to the general population and encourage pure breeding.
 - *Some success was achieved and we will continue working on this programme*

Large Black Conservation Targets for 2022

- We now have no lines with fewer than 6 individuals and only the Dorothy had less than 5 keepers. We will raise awareness of the Bess, Dorothy, Julia, Larkspur & Queen lines which have less than 10 individuals.
- More emphasis will be put on geographical location of lines and we will encourage the breeding of more lines in less represented areas.
- Work towards better analysis of survey results to further aid evaluation to help develop future conservation plans.