



BPA Conservation Breeding Plan 2022 Oxford Sandy & Black Survey Results

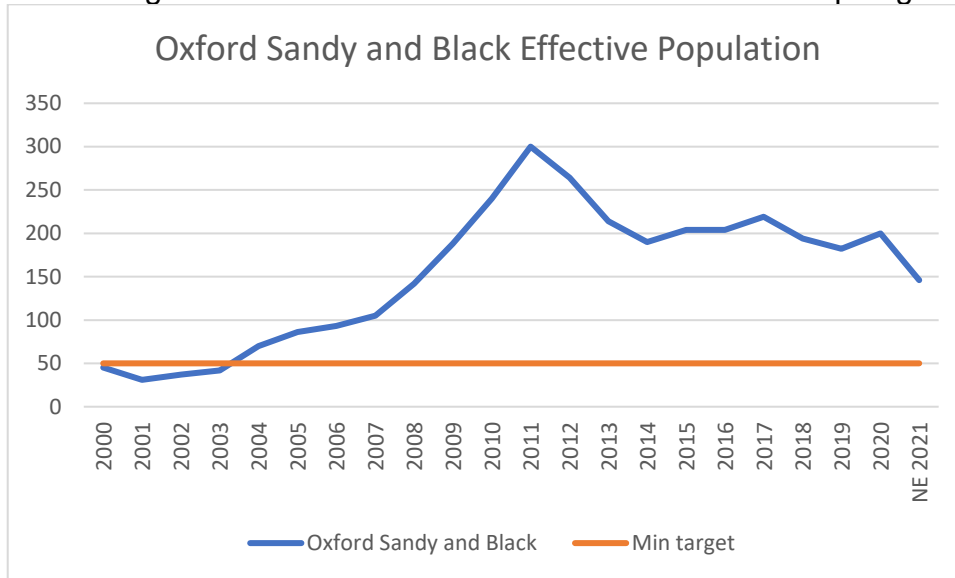


Our original conservation target was to ensure that we had at least 5 sows or boars in each line and that each line was represented in at least 5 herds. The Oxford Sandy & Black breed has met this target since 2018.

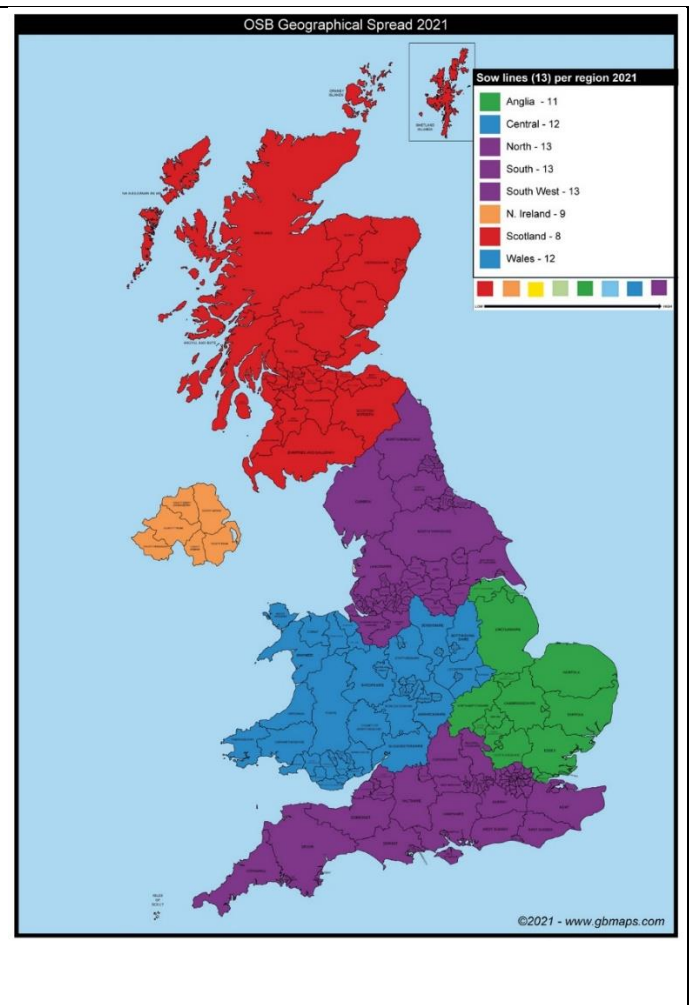
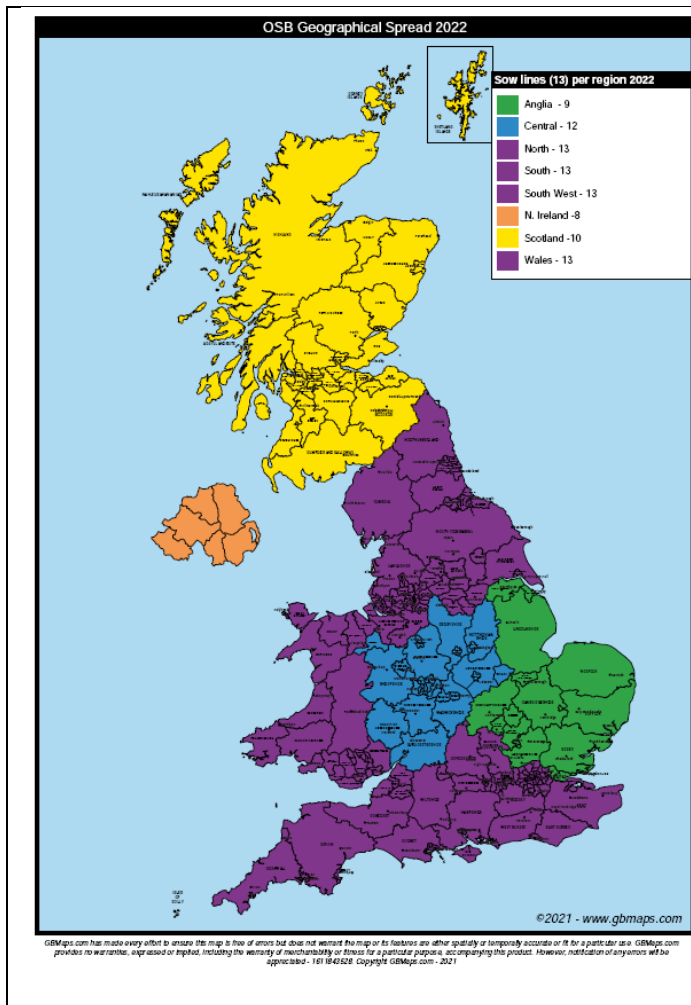
Members keeping this sow line					Sow Line	Total Sows				
2021	2020	2019	2018	2004		2021	2020	2019	2018	2004
31	37	30	32	10	Alison	52	66	61	71	17
31	38	41	36	13	Clare	44	58	61	61	19
22	21	19	14	8	Clarissa	35	29	28	22	12
36	36	32	28	8	Cynthia	52	58	50	46	15
24	34	33	34	0	Dandy	38	55	59	59	0
21	19	18	17	12	Duchess	28	31	25	19	18
18	21	26	33	12	Elsie	29	33	37	53	23
21	27	28	24	6	Gertrude	29	47	47	46	7
25	26	23	23	1	Gloria	44	48	32	36	2
24	28	19	22	7	Iris	34	40	27	32	7
18	22	17	26	12	Lady	20	26	19	37	20
21	24	21	24	9	Mary	33	44	35	38	9
25	16	8	10	9	Sybil	35	23	14	15	13
					Total	473	558	495	535	162
Percentage of sows with purebred litters						60%	58%	62%	61%	

Members keeping this boar line					Boar Line	Registered Boars				
2021	2020	2019	2018	2004		2021	2020	2019	2018	2004
28	29	31	29	7	Alexander	32	33	33	31	7
22	25	26	33	5	Alistair	24	27	28	38	5
30	33	30	35	20	Clarence	36	41	34	39	17
34	36	32	35	6	Jack	37	41	33	39	7
					Total	129	142	128	147	36
Members keeping registered pigs						172	189	160	173	64

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 breeders.



These graphs 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.



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BPA Conservation Breeding Plan 2022 Oxford Sandy & Black Effective Population and Geographical Distribution



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

	Alison	Clare	Clarissa	Cynthia	Dandy	Duchess	Elsie	Gertrude	Gloria	Iris	Lady	Mary	Sybil	Total	2021 Sow lines / region	2020 Sow lines / region	2019 Sow lines / region
Anglia	14	0	1	5	4	1	1	0	3	7	0	0	3	39	9	11	10
Central	1	1	0	7	4	5	3	2	1	8	2	1	5	40	12	12	10
North	2	9	3	3	4	4	5	3	1	1	3	5	4	47	13	13	7
South	7	13	10	10	5	6	14	3	19	7	7	11	8	120	13	13	13
South West	18	8	11	25	8	7	3	14	11	4	4	6	11	130	13	13	13
N. Ireland	1	6	5	0	2	1	0	0	1	2	0	8	0	26	8	9	9
Scotland	3	5	2	0	8	1	2	1	1	2	1	0	0	26	10	8	8
Wales	6	2	3	2	3	3	1	6	7	3	3	2	4	45	13	12	12
2020 Regions with this line	8	7	7	6	8	8	7	6	8	8	6	6	6	473			
2020 Regions with this line	8	8	7	6	8	8	7	7	8	7	6	6	5				
2019 Regions with this line	6	8	5	6	8	7	7	7	7	6	7	5	3				

	Alexander	Alistair	Clarence	Jack	Total Boars	2021 Boar lines / region	2020 Boar lines / region	2019 Boar lines / region	2021 Breeders /Region	2020 Breeders /Region	2019 Breeders /Region
Anglia	2	3	5	3	13	4	4	4	16	22	17
Central	4	0	1	4	9	3	4	4	19	20	23
North	4	1	5	5	15	4	4	4	19	19	15
South	6	7	10	8	31	4	4	4	33	36	28
South West	6	5	6	11	28	4	4	4	47	43	39
N. Ireland	2	2	6	2	12	4	4	3	9	10	10
Scotland	4	2	3	0	9	3	2	4	9	9	10
Wales	4	4	0	4	12	3	4	4	20	22	10
2020 Regions with this line	8	7	7	7	129				172		
2020 Regions with this line	8	7	8	7							
2019 Regions with this line	8	7	8	8							

The OSB is one of the breeds with the least number of boars in the Genebank. We need to add 3 more boars over the next two years. We aim, this year to select at least two suitable boars for AI. Space at the AI centre is limited and we would prefer to have only one boar available at a time to ensure continuity of supply for those wishing to use the AI service. The selection process of boars is as follows:

- Being a good example of the breed in terms of conformation and breed standard
- Being able to reduce the average inbreeding from its present value of 0.036.
- Being least unrelated to all the boars already in the tank over at least 3 generations

HB Reg No	Name	DOB	Ear No	IB
R001363OS	Macnean Jack 227	07/08/2009	GGs/227	0.0291
R001469OS	Bissettdown Alistair 11	18/10/2009	RHE/346	0.0432
R003639OS	Hopecottage Clarence 337	02/03/2015	MZJ/337	0.0413
R003866OS	St Piers Alexander 253	26/08/2016	NCY/253	0.0265
R004599OS	Scrubditch Alexander 54	11/08/2018	KLV/54	0.0443
R004693OS	Manorfields Jack 771	18/03/2019	CGH/771	0.0404
R004885OS	Waywood Alexander 23	16/04/2020	WDW/23	0.0247
Average inbreeding of Oxford Sandy & Black boars in the Genebank				0.0356

Mean Inbreeding for the UK Oxford Sandy & Black Population:
 2021: 0.0576, 2020: 0.0644, 2019: 0.0550

Oxford Sandy & Black Objectives for 2021

- Have all the sow lines represented in 6 out of 8 BPA regions.
 - *We were able increase the number of regions with all 13 sow lines from 3 to 4*
- Build up the Sybil line, arrest the decline in the Elsie line and make sure the Alistair boar line doesn't fall too far behind whilst maintaining breed standards.
 - *The Sybil line has increased both sows and breeders by 50%. Sow numbers have increased for the Elsie line but there are less breeders keeping this line*
- Select two unrelated boars to go into the genebank in 2021.
 - *We added Waywood Alexander 23 to the genebank*

Oxford Sandy & Black Conservation Targets for 2022

- Arrest the decline in the Gertrude line
- Establish the Clarissa line in the Central region
- Select two unrelated boars to go into the genebank in 2022.