



BPA Conservation Breeding Plan 2022 British Landrace 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. This has proved very difficult for the British Landrace.

| Members keeping this sow line | | | | Priority | Sow Line | Last seen | Total Sows | | | |
|---|------|------|------|----------|-------------|-----------|------------|------------|------------|------------|
| 2021 | 2020 | 2019 | 2018 | | | | 2021 | 2020 | 2019 | 2018 |
| 1 | 1 | 1 | 1 | P | Aina | | 1 | 1 | 1 | 1 |
| 1 | 1 | 3 | 3 | P | Ally | | 2 | 4 | 4 | 3 |
| 2 | 3 | 2 | 2 | | Annabell | | 11 | 5 | 11 | 10 |
| 1 | 1 | 1 | 1 | P | Anne | | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | P | Asa | | 4 | 3 | 1 | 1 |
| 1 | 1 | 1 | 1 | P | Asella | | 2 | 1 | 1 | 1 |
| 2 | 3 | 3 | 5 | | Belinda | | 2 | 7 | 4 | 6 |
| 6 | 5 | 5 | 6 | | Bessie | | 12 | 10 | 14 | 16 |
| 2 | 4 | 5 | 4 | P | Bodil | | 2 | 7 | 21 | 17 |
| 2 | 1 | 1 | 1 | P | Cenette | | 5 | 1 | 3 | 3 |
| 0 | 0 | 0 | 1 | | Christina | 2018 | 0 | 0 | 0 | 1 |
| 4 | 3 | 4 | 4 | P | Cordelia | | 6 | 5 | 9 | 14 |
| 1 | 1 | 1 | 1 | P | Cynthia | | 2 | 2 | 1 | 1 |
| 0 | 2 | 2 | 0 | P | Dora | 2017 | 0 | 2 | 2 | 0 |
| 2 | 1 | 2 | 3 | | Doranda | | 5 | 1 | 2 | 4 |
| 2 | 4 | 7 | 6 | | Dorina | | 2 | 4 | 7 | 10 |
| 0 | 0 | 1 | 1 | | Eileen | | 0 | 0 | 1 | 2 |
| 3 | 4 | 4 | 5 | P | Elegance | | 6 | 15 | 7 | 6 |
| 1 | 1 | 1 | 1 | | Enorma | | 1 | 1 | 1 | 2 |
| 1 | 3 | 3 | 2 | | Frua | | 5 | 12 | 13 | 6 |
| 0 | 1 | 1 | 1 | | Grafelia | | 0 | 2 | 6 | 9 |
| 1 | 1 | 1 | 1 | | Guri | | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 1 | | Hveberg | 2018 | 0 | 0 | 0 | 1 |
| 4 | 4 | 6 | 3 | | Inga | | 8 | 6 | 9 | 8 |
| 2 | 3 | 2 | 2 | | Johs | | 4 | 5 | 8 | 8 |
| 1 | 1 | 1 | 1 | P | Killegarden | | 1 | 1 | 3 | 4 |
| 3 | 4 | 3 | 3 | P | Lyssi | | 10 | 13 | 5 | 10 |
| 1 | 1 | 1 | 1 | | Naera | | 3 | 3 | 6 | 6 |
| 1 | 1 | 1 | 1 | | Narikka | | 1 | 1 | 2 | 3 |
| 2 | 2 | 2 | 2 | | Ninni | | 2 | 3 | 4 | 5 |
| 1 | 0 | 2 | 3 | | Peta | | 1 | 0 | 2 | 3 |
| 0 | 0 | 0 | 1 | | Skraastad | 2012 | 0 | 0 | 0 | 1 |
| 4 | 5 | 3 | 3 | P | Skyliner | | 6 | 7 | 7 | 7 |
| 1 | 1 | 1 | 1 | | Sophia | | 6 | 5 | 9 | 9 |
| 6 | 7 | 7 | 9 | P | Vega | | 9 | 13 | 17 | 20 |
| | | | | | Total | | 121 | 142 | 183 | 200 |
| Percentage of sows with purebred litters | | | | | | | 71% | 66% | 73% | 70% |

In the past few years we have lost 9 lines: Aurora, Dina, Hera, Marilyn, Miss, Paula, Princess, Sabrina and Sheila and it looks as though Christina, Eileen, Hveberg, Peta and Skraastad are gone too.

Of the remaining 15 lines previously prioritised only 3 lines have shown any improvement, Asella, Cennette and Cordelia. The Dora line does not appear in this years survey From the remaining 11 only the Vega meets the basic target of 5 sows and 5 herds. That leaves 10 priority lines below the target. Unfortunately 7 out of those 10 are only present in single herds. Urgent action is needed to secure priority lines in more herds.



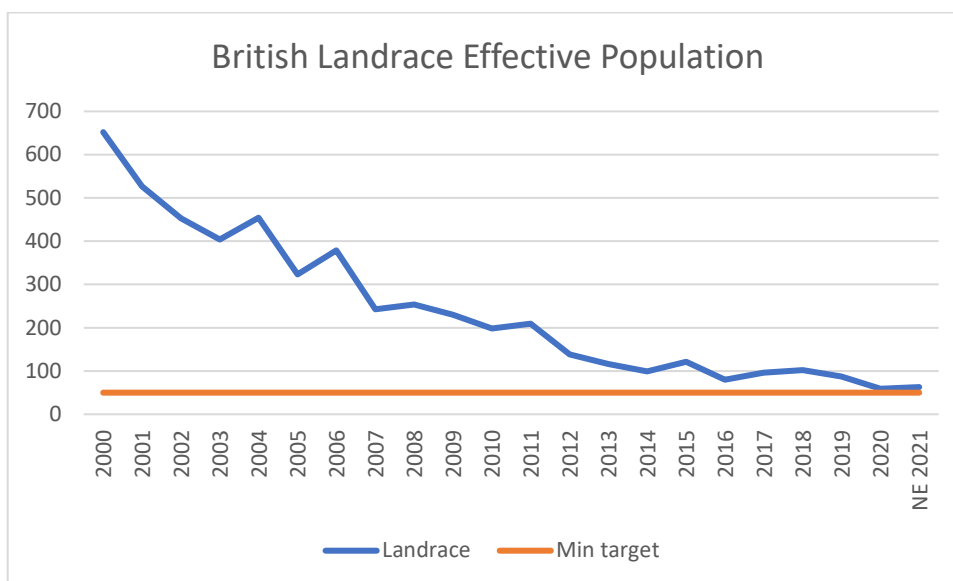
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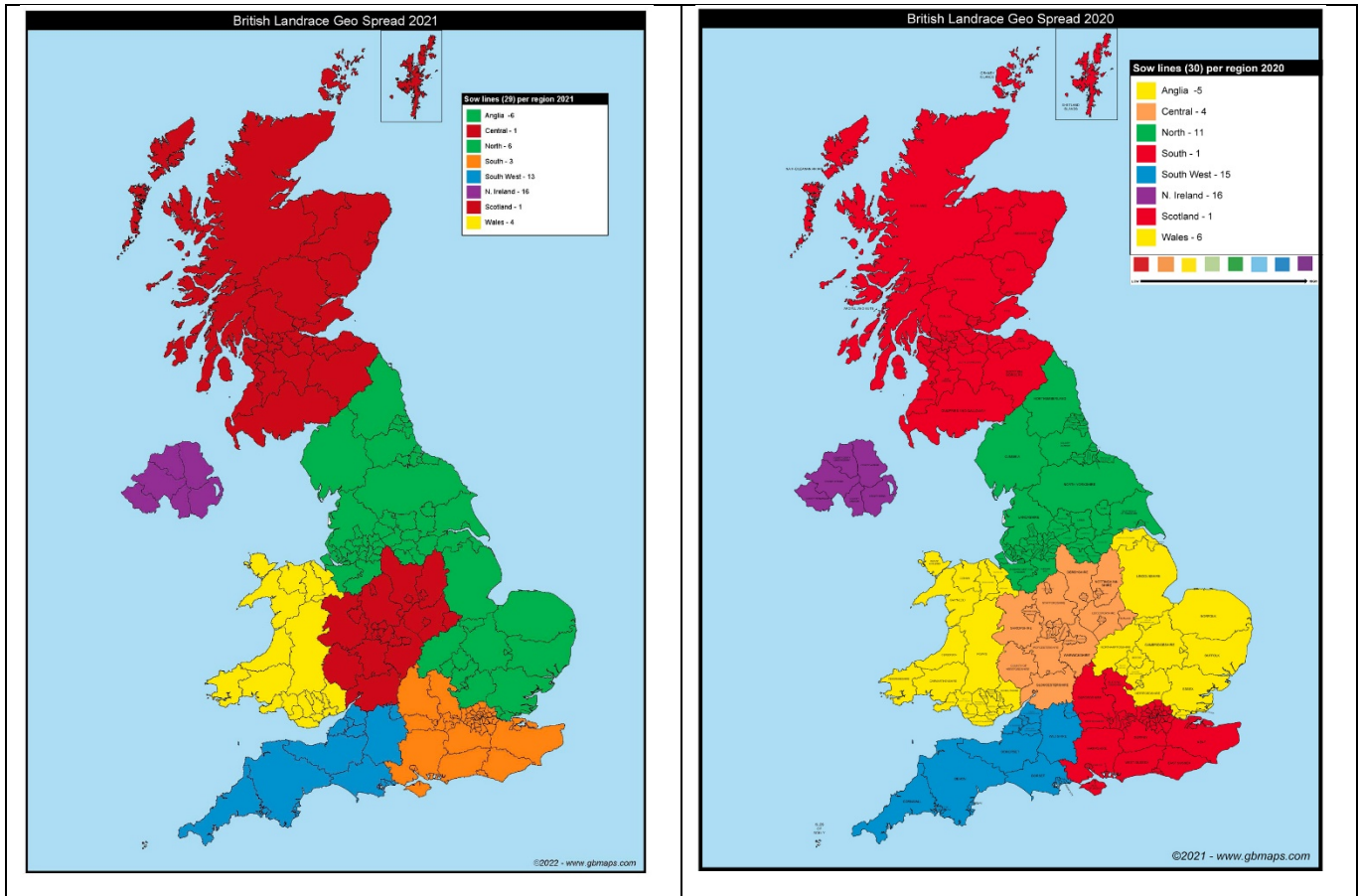
| Members keeping this boar line | | | | Priority | Boar Line | Last seen | Registered Boars | | | | |
|---------------------------------|------|------|------|----------|------------|-----------|------------------|------|------|------|----|
| 2021 | 2020 | 2019 | 2018 | | | | 2021 | 2020 | 2019 | 2018 | |
| 0 | 2 | 2 | 1 | P | Candidus | | 0 | 2 | 4 | 3 | |
| 3 | 5 | 3 | 1 | P | Dromus | | 3 | 5 | 4 | 1 | |
| 0 | 0 | 0 | 1 | P | Duke | 2018 | 0 | 0 | 0 | 1 | |
| 1 | 1 | 1 | 0 | P | Elias | | 2 | 1 | 2 | 0 | |
| 3 | 3 | 2 | 5 | | Enorm | | 4 | 4 | 5 | 8 | |
| 1 | 2 | 2 | 0 | | Esmer | | 1 | 2 | 2 | 0 | |
| 3 | 3 | 4 | 3 | P | Hamster | | 4 | 3 | 4 | 3 | |
| 2 | 4 | 2 | 2 | P | Hawk | | 2 | 4 | 3 | 2 | |
| 1 | 1 | 2 | 1 | | Kola | | 1 | 2 | 3 | 1 | |
| 1 | 1 | 1 | 1 | | Limbus | | 1 | 1 | 1 | 1 | |
| 3 | 2 | 0 | 2 | | Lorenz | | 3 | 2 | 0 | 2 | |
| 1 | 1 | 1 | 1 | P | Nekton | | 1 | 1 | 1 | 1 | |
| 2 | 1 | 0 | 0 | | Nero | | 2 | 2 | 0 | 0 | |
| 0 | 1 | 1 | 1 | | Pasta | | 0 | 1 | 1 | 1 | |
| 1 | 2 | 6 | 4 | | Rally | | 1 | 2 | 6 | 4 | |
| 1 | 1 | 1 | 1 | P | Riber | | 1 | 1 | 1 | 1 | |
| 3 | 3 | 5 | 3 | P | Royal Eros | | 5 | 4 | 7 | 5 | |
| Total | | | | | | | | 31 | 37 | 44 | 34 |
| Members keeping registered pigs | | | | | | | | 26 | 30 | 34 | 39 |

Thanks to the efforts of dedicated breeders both past and present we have been able to reintroduce four of the more traditional boar lines, Dromus, Elias, Esmer and Riber, that were not even present in the 2016 survey. We have also re-introduced the Nero line and we have plans to bring back the Norton line from privately owned frozen semen in the future. Unfortunately achieving the target of 5 boars in 5 herds is proving very challenging. Only 3 of the 17 boar lines have managed to achieve this target for a single year since 2018.

The minimum threshold for effective population size set by the Farm Animal Genetic Resources Committee is 50. After a slight recovery from 2016 this figure has declined again in the last 3 years and has the breed is now sitting on the danger line. Urgent action is required to secure the survival of this native breed population.



These graphs use a sliding rainbow scale from red to purple. The colours do not represent particular values as the range of lines 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 distribution of the lines across the regions

| | Aina | Ally | Annabell | Anne | Asa | Asella | Belinda | Bessie | Bodil | Cenette | Cordelia | Cynthia | Dora | Doranda | Dorina | Elegance | Enorma | Frua | Grafelia | Guri | Inga | Johs | Killegarden | Lyssi | Naera | Narikka | Ninni | Peta | Skyliner | Sophia | Vega | Total sows / region | 2021 Sow lines / region | 2020 Sow lines / region | 2019 Sow lines / region |
|------------------------------------|------|------|----------|------|-----|--------|---------|--------|-------|---------|----------|---------|------|---------|--------|----------|--------|------|----------|------|------|------|-------------|-------|-------|---------|-------|------|----------|--------|------|---------------------|-------------------------|-------------------------|-------------------------|
| Anglia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 11 | 6 | 5 | 6 |
| Central | 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 | 2 | 0 | 0 | 2 | 1 | 4 | 3 |
| North | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 10 | 6 | 11 | 10 |
| South | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 3 | 1 | 1 |
| South West | 1 | 2 | 0 | 1 | 0 | 2 | 2 | 1 | 0 | 0 | 4 | 2 | 0 | 5 | 0 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 34 | 13 | 15 | 15 |
| N. Ireland | 0 | 0 | 10 | 0 | 4 | 0 | 0 | 7 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 3 | 1 | 0 | 3 | 1 | 2 | 0 | 2 | 6 | 1 | 52 | 15 | 16 | 16 |
| Scotland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Wales | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 4 | 6 | 6 |
| 2020 Regions with this line | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 5 | 2 | 1 | 2 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 1 | 3 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 1 | 5 | 121 | | | |
| 2020 Regions with this line | 1 | 1 | 3 | 1 | 1 | 1 | 3 | 4 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 3 | 3 | 1 | 4 | 1 | 1 | 1 | 0 | 4 | 1 | 6 | | | | |
| 2019 Regions with this line | 1 | 2 | 2 | 1 | 1 | 1 | 3 | 4 | 3 | 1 | 1 | 1 | 2 | 1 | 3 | 2 | 1 | 3 | 1 | 1 | 4 | 2 | 1 | 3 | 1 | 1 | 1 | 0 | 3 | 1 | 6 | | | | |

| | Candidus | Dromus | Elias | Enorm | Esmer | Hamster | Hawk | Kola | Limbus | Lorenz | Nekton | Nero | Pasta | Rally | Riber | Royal Eros | Total Boars / region | 2021 Boar lines / region | 2020 Boar lines / region | 2019 Boar lines / region | 2021 Breeders /Region | 2021 Breeders /Region | 2019 Breeders /Region |
|------------------------------------|----------|--------|-------|-------|-------|---------|------|------|--------|--------|--------|------|-------|-------|-------|------------|----------------------|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|-----------------------|
| Anglia | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 7 | 7 | 3 | 2 | 4 | 3 | 5 |
| Central | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 | 4 |
| North | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 4 | 2 | 4 | 4 |
| South | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 1 | 8 |
| South West | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 5 | 6 | 9 | 6 | 7 | 6 |
| N. Ireland | 0 | 0 | 2 | 3 | 1 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 3 | 16 | 9 | 11 | 6 | 6 | 6 | 1 |
| Scotland | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 2 |
| Wales | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 4 |
| 2020 Regions with this line | 0 | 2 | 1 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 3 | 31 | | | | 26 | | |
| 2020 Regions with this line | 2 | 3 | 1 | 3 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | | | | | | | |
| 2019 Regions with this line | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 4 | 1 | 4 | | | | | | | |



BPA Conservation Plan 2022

British Landrace Genebanking and Conservation Objectives



We have been able to secure 9 of the 10 prioritised boar lines in the genebank. Some of these lines were not even present in the live herd a decade ago. A Nekton boar has been bred from privately owned semen and will be added to the Genebank this year.

| HB No | Name | Ear No. | DOB | IB |
|--|----------------------|-----------|------------|---------------|
| R006560LA | Finnington Hawk | RWB/239 | 02/01/2013 | 0.0274 |
| R006762LA | Deerpark Duke | ARJ/9842 | 14/06/2013 | 0.0399 |
| R006698LA | Deerpark Hamster | ROA/437N | 01/01/2014 | 0.0116 |
| R006821LA | Denett Candidus | ARJ/9958 | 01/11/2014 | 0.0658 |
| R006881LA | Dennett Royal Eros | ARJ/30B | 18/04/2015 | 0.0451 |
| R007031LA | Deerpark Rally 1499N | ROA/1499N | 01/06/2016 | 0.0255 |
| R007049LA | Sunrise Dromus 3610 | SLZ/3610 | 04/09/2016 | 0.0263 |
| R007266LA | Deerpark Riber 2179N | ROA/2179N | 19/03/2018 | 0.0241 |
| R007297LA | Donagheragh Esmer 40 | KBB/40 | 01/09/2018 | 0.0424 |
| R007380LA | Deerpark Elias 3380N | ROA/3380N | 12/04/2019 | 0.0262 |
| Inbreeding Coefficient of the British Landrace Genebank | | | | 0.0334 |

Mean Inbreeding for the UK British Landrace Population:
2021:0.0469, 2020: 0.0436, 2019: 0.0407

British Landrace Objectives for 2021

- Try to establish the Aina, Ally, Anne, Asa, Asella, Genette, Cynthia and Killegarden lines in more than one herd

Only the Cynthia line has been able to increase its presence into 2 herds.

- Improve the distribution of the Elias, Nekton and Riber boar lines

There has been no progress on any of these lines.

- Add the Nekton boar line to the Genebank

A Nekton boar has been bred and will be added this year

British Landrace Objectives for 2022

- Review the policy of focusing on sow and boar lines and their distribution for in situ conservation
- Consider the recommendations of the FAnGR Committee in the Extinction Risk Mitigation paper
- Add the Nekton boar line to the Genebank