

Check Mate in Grassroots Online

Check Mate – is a simple system developed in conjunction with the British Pig Association to help members avoid mating closely related animals.

If your breed society has enabled this tool, the option will appear in the Manage My Animals Menu (top right of the Online Registry screens)

Click on the box to select the male

Type in part of the name or number and click on the correct male in the list offered.

Click on the box to select one of your females

Type in part of the name or number and click on the correct female in the list offered.

A 'what if' pedigree will be displayed for the prospective offspring.

Any common ancestors will appear in colour with the simple instructions:

Clean or **Green** Go straight ahead and mate
Orange or **Yellow** Think twice and get advice.
 For a full kinship analysis, contact your Breed Society

If the common ancestor first appears as a parent or grandparent it will be in orange

If the common ancestor first appears as a great grandparent it will be in yellow

If the common ancestor first appears as a great great grandparent it will be in green.

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| Parents | Grand Parents | Great Grand Parents | Great Great Grand Parents |
|--------------------------------|-------------------------------|-----------------------------|---|
| Coney Grey Frederick R14049 | Coney Grey Male IV XR4048 | Mersea Abel R11946 | Shashamane R11552 Tollesbury Wick R11156 |
| | Coney Grey Zenith R13865 | Coney Grey Vina R12629 | Lings Bounty R12213 Yellabelly Sabina R11473 |
| Bemborough R13950 | Mersea Jack Daniels R12710 | Lings Bounty R12213 | Knightley Quon R11535 Lings Wispa R11198 |
| | Bemborough R12943 | Coney Grey Thomasina R12191 | Drumoak Captain Najork R10855 Yellabelly Sabina R11473 |
| | | Coney Grey Spartacus R11945 | Drumoak Captain Najork R10855 Hazelwood Roberta R10567 |
| | | Mersea Annette R11953 | Shashamane R11552 Tollesbury Wick R11135 |
| | | Hazelwood Warrior R12214 | Knightley Mars Baa R10652 Hazelwood Valencia R11780 |
| | | Bemborough R12227 | Rye End Feike R11396 Bemborough R10665 |

Obviously the more colour in the pedigree the more common ancestors and the higher the risk.

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| Parents | Grand Parents | Great Grand Parents | Great Great Grand Parents |
|----------------------|--------------------------|----------------------------|---|
| Bemborough R13024 | Hazelwood Warrior R12214 | Knighthley Mars Baa R10652 | Outlane Cosmo R10226 Knighthley Kayley R10206 |
| | | Hazelwood Valencia R11780 | Roughland Timmy R10603 Rye End Aaike R10419 |
| | Bemborough R11488 | Yellabelly Nick R10640 | Drumoak Bat Man R10011 Yellabelly Kylie R9860 |
| | | Bemborough R10173 | Rye End Seagar R9641 Bemborough R9816 |
| Bemborough R12943 | Hazelwood Warrior R12214 | Knighthley Mars Baa R10652 | Outlane Cosmo R10226 Knighthley Kayley R10206 |
| | | Hazelwood Valencia R11780 | Roughland Timmy R10603 Rye End Aaike R10419 |
| | Bemborough R12227 | Rye End Feike R11396 | Rye End Duane R11300 Rye End Clazientje R10923 |
| | | Bemborough R10665 | Walmer Kevin R10070 Bemborough R10232 |

This is an example showing that the 2 animals selected had the same sire.

For more detailed advice or a full kinship analysis please contact your breed registry.

Kinship - Grassroots have provided tools to enable Breed Societies to do full Kinship Analysis for many years. This is done in the Office System and creates a standard report helping members to understand when animals are too closely related to be used for breeding. The kinship analysis is a probability calculation, and can be skewed where pedigrees are incomplete or of different lengths. There is also no absolute number above or below which it is safe to breed. The standard Grassroots Kinship report explains this and makes comparison with the mean inbreeding coefficient for the current live population. However, this can also be skewed in breeds who do or do not record all deaths. These are the reasons Grassroots have never made Kinship analysis an Online Option, but rather encouraged members to ask for an analysis via their breed registry, who are familiar with their own breed data.