## **Check Mate in Grassroots Online**

**Check Mate** – is a simple system developed to help our members avoid mating their mares too closely with related stallions.

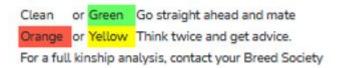
The option will appear in the Manage My Animals Menu (top right of the Online Registry screens)

Click on the box to select the stallion you are considering

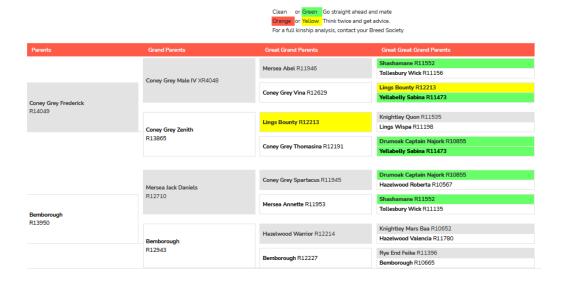
Type in part of the name or number and click on the correct stallion in the list offered. Click on the box to select one of your mares

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

A 'what if' pedigree will be displayed for the prospective offspring. Any common ancestors will appear in colour with simple instructions:



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 grandparent it will be in green.



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



Parents	Grand Parents	Great Grand Parents	Great Great Grand Parents
	Hazelwood Warrior R12214	Knightley Mars Baa R10652	Outlane Cosmo R10226
			Knightley Kayley R10206
Bemborough R13024		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
	Hazelwood Warrior R12214	Knightley Mars Baa R10652	Outlane Cosmo R10226
			Knightley Kayley R10206
Bemborough R12943		Hazelwood Valencia R11780	Roughland Timmy R10603
			Rye End Aaike R10419
	Bemborough R12227	Rye End Feike R11396	Rye End Duane R11300
			Rye End Clazientje R10923
		D. J. J. DAOSSE	Walmer Kevin R10070
		Bemborough R10665	Vadilei Keviii (10070

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.

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