



# Inbreeding Coefficients now available in Enhanced Mating Predictor

The Mating Predictor available through Breed Society Internet Solutions web enquiry systems has been enhanced to calculate potential inbreeding levels for the progeny of the specified matings. The enhancement includes four new features:

- Calculation of the inbreeding coefficients (plus details on the depth of pedigree available)
- Calculation of mid-parent accuracies (to augment the mid-parent EBVs)

- Full pedigree display of the animals used in the mating (on a single screen)
- Display of expected mid-parent EBVs and BreedObject indices for the progeny on a percentiles bar chart

Individual breed societies will be required to pay a one-off fee to have this enhancement installed. The Blonde d'Aquitaine Society (<http://www.blondes.asn.au/>) has the enhanced mating predictor option and is used here as an example.

The mating predictor continues to be simple to use. Click on the "Mating Predictor" option.

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

Nominate the sire(s) and dam(s). In this example below, actual sire and dam idents have been used, but you can also nominate a partial dam ident (eg "AMRPV%") and/or the year(s) the dams were born.

Sire Identifier(s):	amrpu0015,amrpw0008 <i>Enter one or more Sire identifiers separated by commas</i>
Dam Identifier(s):	amrpv0001,amrpy0017,amrpx0045 <i>Enter one or more Dam identifiers separated by commas Use wildcard if required (eg. ABC%)</i>
Birth Year(s) of Dam:	 <i>Enter one or more calving years separated by commas or a range of years (eg. 1997-2000)</i>
Dam Ownership Selection:	<input checked="" type="radio"/> All <input type="radio"/> My Ownership <input type="radio"/> My Female Inventory
Max number of Animals to Display	<input checked="" type="radio"/> 25 <input type="radio"/> 50 <input type="radio"/> 75 <input type="radio"/> 100
Display Results By:	<input checked="" type="radio"/> Sire <input type="radio"/> Dam
Sort Dams By:	Animal Name <input type="button" value="v"/> <input checked="" type="radio"/> Ascending <input type="radio"/> Descending

Note that if you are a member of the Society, you have the option to logon and get the herd based selection option of "Dam Ownership Selection" above. This is extremely useful in looking at sections of your current cows or heifers in making mating selections.

Results are presented for each sire in the list for all of the nominated dams.

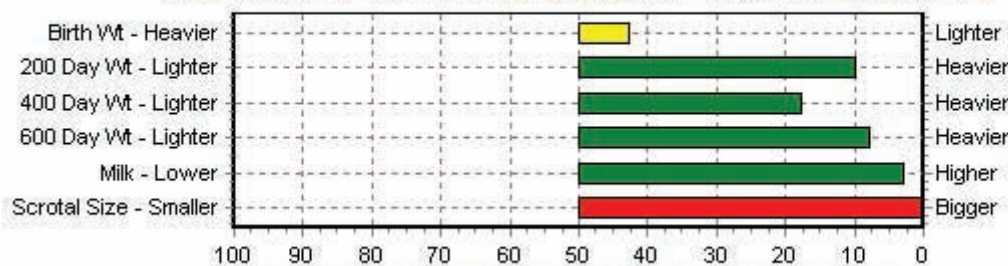
Results for Sire: AMAROO UNBEATABLE with 3 Dams

Name	Gest. Len. (days)	Birth Wt. (kg)	200 Day Wt. (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Mat. Cow Wt. (kg)	Milk (kg)	Scrotal Size (cm)	Carcass Wt. (kg)	Eye Muscle Area (sq. cm)	Rib Fat (mm)	Rump Fat (mm)	Retail Beef Yield (%)	IMF %
<b>SIRE:</b> <u>AMAROO UNBEATABLE - AMRP00015</u> 	-1.0 66%	-0.1 83%	+6 79%	+8 77%	+26 77%	-	+1 51%	+0.9 62%	+14 64%	+1.1 25%	-0.3 34%	-0.4 34%	+0.8 30%	-
<b>DAM:</b> <u>AMAROO VOGUE - AMRPV0001</u> 	-	-0.1 71%	+13 67%	+14 68%	+19 69%	-	+8 40%	+0.9 39%	-	-	-	-	-	-
<b>Expected Average Progeny Value</b>	-	-0.1 55%	+10 52%	+11 51%	+23 52%	-	+5 32%	+0.9 37%	-	-	-	-	-	-
<b>Inbreeding Coefficient: 3%. Min./(Avg.) generation: 4/(7.1)</b> <a href="#">Pedigree display of this mating</a>														
<b>DAM:</b> <u>AMAROO XTRA LOVELY - AMRPX0045</u>	-	+1.3 69%	+11 62%	+21 59%	+35 60%	-	+2 44%	-	-	-	-	-	-	-
<b>Expected Average Progeny Value</b>	-	+0.6 54%	+9 50%	+15 49%	+31 49%	-	+2 34%	-	-	-	-	-	-	-
<b>Inbreeding Coefficient: 26%. Min./(Avg.) generation: 4/(7.2)</b> <a href="#">Pedigree display of this mating</a>														
<b>DAM:</b> <u>AMAROO YIKES - AMRPY0017</u>	-	+0.9 52%	+13 57%	+12 59%	+18 60%	-	-	-	-	-	-	-	-	-
<b>Expected Average Progeny Value</b>	-	+0.4 49%	+10 49%	+10 49%	+22 49%	-	-	-	-	-	-	-	-	-
<b>Inbreeding Coefficient: 2%. Min./(Avg.) generation: 4/(7.9)</b> <a href="#">Pedigree display of this mating</a>														
<b>Breed Avg. EBVs for 2006 Born Calves</b>	0.0	+0.1	+4	+6	+10	+11	+1	+0.2	+6	+0.3	+0.2	+0.2	+0.1	0.0

Click on "Inbreeding Coefficient" link (see above) to get an explanation of the inbreeding coefficient and the significance of the minimum and average generations.

Click on "Pedigree display of this mating" link to get the four generation pedigree of both the sire and dam shown on the same web page. This also displays the mid-parent EBVs (and indices if available) in the percentiles chart:

EBV Percentiles for Sire: AMAROO UNBEATABLE x Dam: AMAROO VOGUE  
2008 BLONDE D'AQUITAINE GROUP BREEDPLAN EBVS



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