

The TGRM<sup>®</sup> Mate Selection Service can help you plan better matings. We help you achieve your breeding goals by providing analysis and advice to simultaneously integrate the different types of genetic information available into your mating decision.

## What is the TGRM<sup>®</sup> Mating Service?

- 1 You provide us with your herd data, or permissions to obtain your data
- 2 We provide you with a preliminary analysis that contains estimates of:
  - \* *Genetic gain possible*
  - \* *Coancestry levels*
  - \* *Predictions of progeny inbreeding*
  - \* *Predictions of trait outcomes*
- 3 We provide a synopsis of your preliminary analysis and discuss with you your breeding goals
- 4 After consultation, we apply constraints as defined by you for:
  - \* *Sire usage limits*
  - \* *\$Index and coancestry optimal point*
  - \* *Progeny inbreeding*
  - \* *Traits*
- 5 You receive reports and provide feedback on changes to constraints and we re-run your analysis based upon this feedback
- 6 You receive final report which contains:
  - \* *Summary report of predictions*
  - \* *Sire report*
  - \* *Mating list report*
  - \* *Trait report*
- 7 After mating you send us the final implemented mating list and we return an "implemented" report to you for your files.

## What is required to receive a TGRM<sup>®</sup> Mating Service?

- 1 The herd data from your genetic evaluation is required – we can obtain it on your behalf directly from the Breed Society Breedplan database (there may be a data charge we are not currently aware of)
- 2 Data for any bulls you may consider buying or acquiring semen from we can also obtain on your behalf
  - ☞ Data for bulls not on the NZ Breed Society database may not be obtainable
  - ☞ Data for bulls without all trait breeding values may not be obtainable
  - ☞ Data for bulls without your nominated index may not be obtainable
- 3 A list of all male and female mating candidates – cows and bulls in your herd, and bulls you have nominated. Email it if you can, otherwise attach a list to your order form.
- 4 Fill in the attached TGRM<sup>®</sup> Mating Service Order form and sign and send (by mail, fax or email) to the address indicated on the form.

## When to use the TGRM<sup>®</sup> Mating Service

**Once annually to set up matings:** this is the standard use of the TGRM<sup>®</sup> Mating Service. Find the best sires and use the TGRM<sup>®</sup> Mating Service to fine-tune sire selection and use in time for mating. Use mating reports to sort cows and assign bulls to mating paddocks. Get a final implemented report after matings are completed for future reference.

**3 or more times per year to cull, pre-select and mate:** top breeders use the TGRM<sup>®</sup> Mating Service to select which bulls to place into sales and which are more likely to remain in the breeding herd. They also make decisions about pre-selection and culling by using pre-mating season trial mating lists. Using the TGRM<sup>®</sup> Mating Service well before mating season gives plenty of time to find the right bulls at the right price, and to run AI and natural mating scenarios. And scan data and/or conception results means getting an accurate “implemented” report if you have used AI.

**After semen/sire acquisition to allocate mates:** this is a less than ideal use of the TGRM<sup>®</sup> Mating Service, however if it is late in the season and semen and bulls have already been acquired, you can obtain mating lists that make the best use of the genetic resources you have acquired. Reduced progeny inbreeding and some trait distribution manipulation are still possible. With natural mating there still remains some flexibility in setting optimal bull usage levels to obtain benefits from the use of Optimal Contributions Theory (see the fact-sheet for more information). You can always include bulls that you would have considered had you time to obtain them to see what sort of results you could have achieved. This will help you get better results in next year’s TGRM<sup>®</sup> analysis.

**After mating to explore and test mating optimality:** even if mating is over and you were not able to request a TGRM<sup>®</sup> Mating Service analysis, but you would like to know what to expect from the matings you did make, you can request just a preliminary analysis to obtain the corresponding reports. This includes running your actual mating list as a “Breeder’s Pick” in order to receive the summary, sire lists, mating predictions and trait reports.

## Costs of the TGRM<sup>®</sup> Mating Service<sup>1</sup>

Preliminary Analysis and Data Setup <ul style="list-style-type: none"> <li>• Includes 1 Breeder’s Pick report</li> </ul>	\$350
Mating Analysis with constraints <ul style="list-style-type: none"> <li>• 3 Breeder reviews (3 interim reports)</li> <li>• 1 final report</li> <li>• 1 implemented report</li> </ul>	\$2.00/cow mated
Gene Test Analysis	Please inquire
Group Analysis	Please inquire
Additional reviews	\$50 per review
Annual multi-use package <ul style="list-style-type: none"> <li>• First analysis</li> <li>• Each subsequent analysis</li> </ul>	\$350 plus \$2.00/cow \$150 plus \$1.00/cow

<sup>1</sup> Prices in NZD. Prices subject to change

