



Dairy industry change

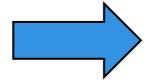


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- Cow biology
- Technology use
- Structure of the industry

Review of breeding goals for the NZ dairy industry is underway







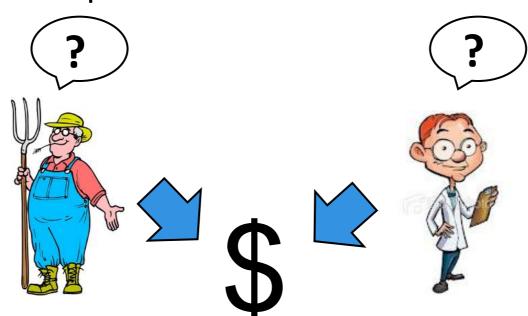


Key question



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- Scientists design breeding goals and objectives
- Not always the same as farmers breeding goals
- How can we better develop breeding goals that align the opinions of scientists and farmers?





Survey methodology



- Software called 1000Minds
- Allows surgeons to rank patient for heart surgery in a fair way
- Objective and transparent
- Very successful in the health system
- Used widely in all sorts of fields





Survey methodology



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- For the New Zealand dairy industry we want to:
 - Rank the importance of traits
 - Assess whether breeding objectives align with industry expectations
 - Provide a farmer-driven mandate for a review and reanalysis of the breeding objective
- Understand the opinions of farmers
- Design better breeding goals

Workshops



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- 19 meetings across New Zealand
- General information survey
 - Type of farming system
 - Use of merit index
 - Average herd merit
 - Breed of the herd
 - And some others
- 1000Minds survey



The questionnaire



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Which of these 2 (hypothetical) herds do you prefer?

(given they're identical in all other respects)





Results - General



- 253 farmers/ stakeholders attended workshops
- Largest respondent groups were
 - Farm owners
 - Equity partners
 - Over 40 years-of-age



Results - General



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- Breed percentages from survey:
 - 40% Friesian
 - 40% Crossbred
 - □ 12% Jersey
 - 8% Other
- Balanced industry representation



Results – Trait ranks



Trait	Rank (farmers)
Fertility	1
Feed Conversion Efficiency	2
Mastitis	3
Longevity	4
Milk Solids Production	5
Lameness	6
Live weight	11



Results – Trait ranks



Trait	Rank (farmers)	Rank (current)	Correct rank?
Fertility	1	3	
Feed Conversion Efficiency	2	Not included	
Mastitis	3	4	
Longevity	4	5	
Milk Solids Production	5	1	
Lameness	6	Not included	
Live weight	11	2	



Results – Trait ranks



Trait	Rank (farmers)	Rank (current)	Correct rank?
Fertility	1	3	
Feed Conversion Efficiency	2	Not included	
Mastitis	3	4	
Longevity	4	5	
Milk Solids Production	5	1	
Lameness	6	Not included	
Live weight	11	2	

Results



- Greater preference for fertility over milk solids production
- Farmers want more traits included (e.g. lameness)
- Customised indexes & bull rankings for specific farming circumstances

Results



- Type of farming system
 - Fertility most important low-input system
 - Lameness most important high-input systems





Results

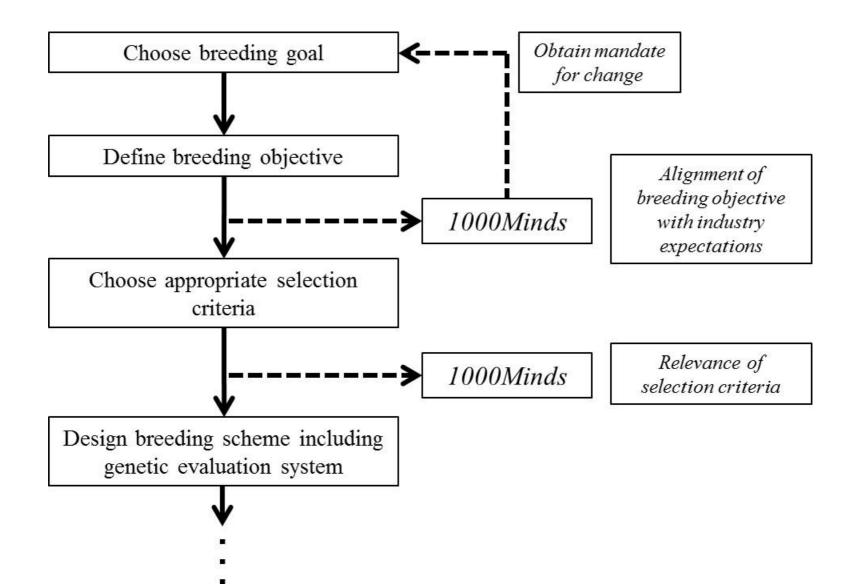


- Breed of the herd
 - FCE and Once-a-Day Milking most important Friesian herds
 - Udder Conformation important Friesian herds least important crossbred herds
 - Calving Difficulty most important Friesian herds least important Jersey herds





Programme design





Key points



- 1000Minds method:
 - Objective and fair
 - Farmer input
 - Informative

Where to next?



- Industry buy-in
- Mandate for change
- Better targeted research