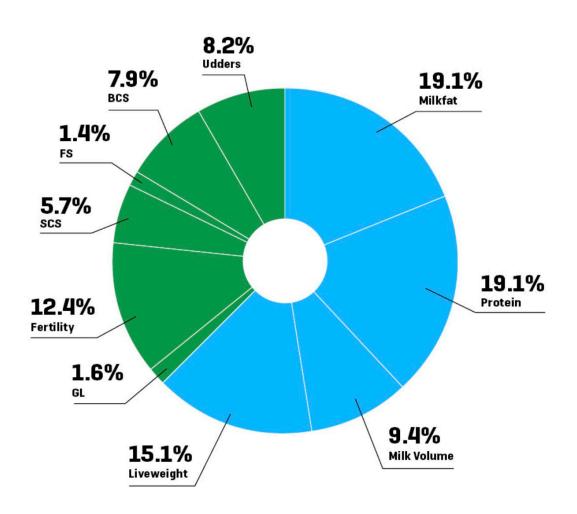
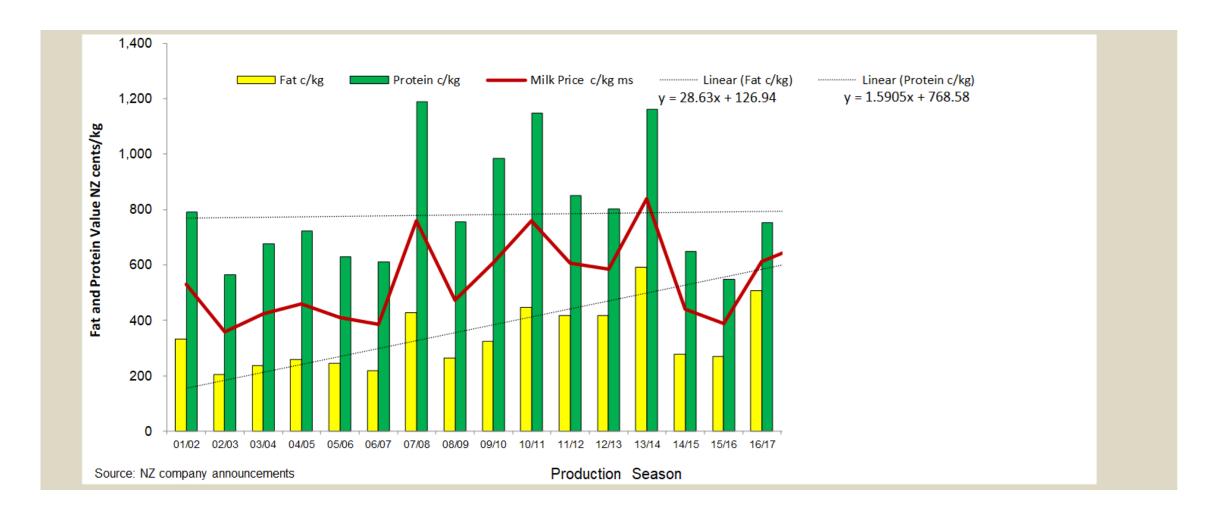


Observing how changes to the selection index are reflected in the genetic merit national herd

National Selection Index – Breeding Worth

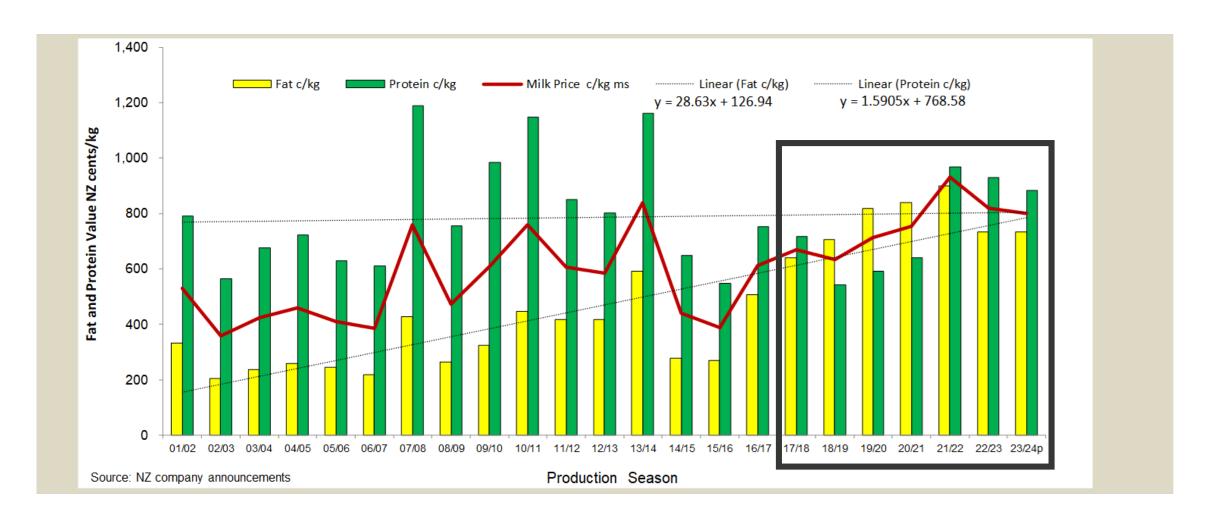


Milk Price in NZ





Milk Price in NZ



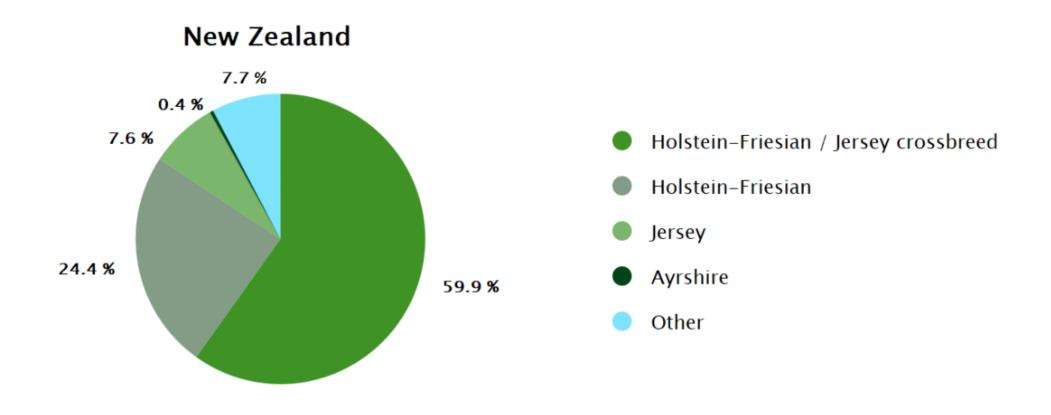


Weighting of Fat vs Protein in BW





Did farmers respond to the modified BW weightings?

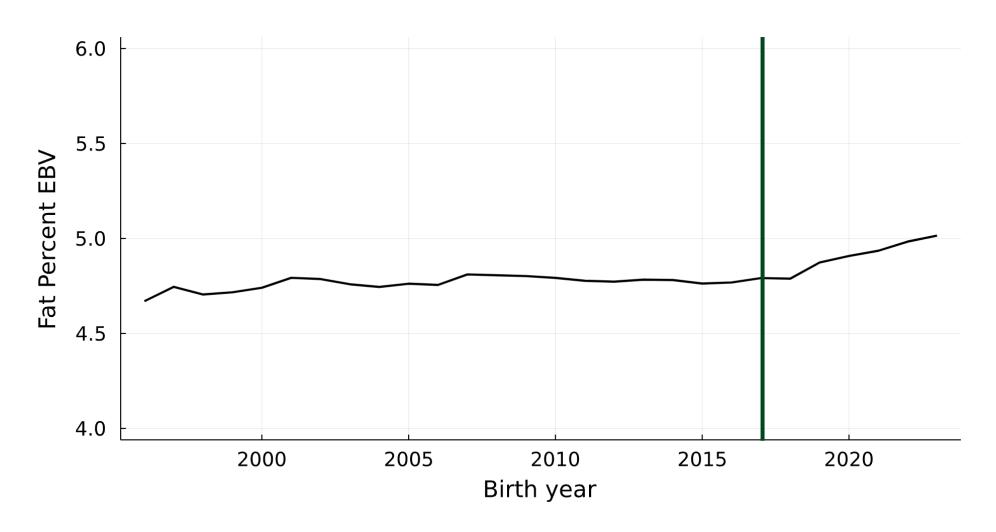




1. Do we see a response in genetic trend

2. Do we see evidence of breed substitution

Genetic Trend for Milk Fat Percent



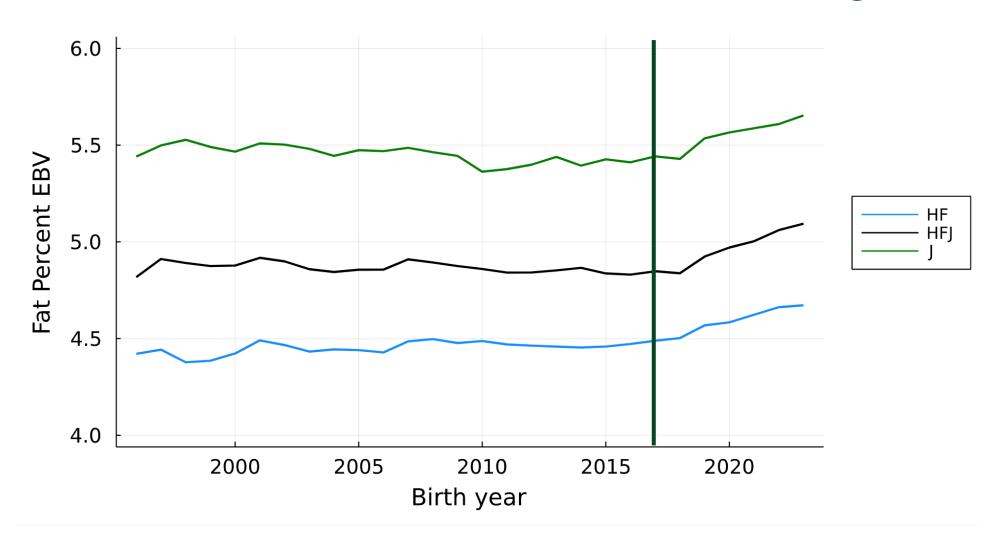
Possible levers

1. Within breed selection

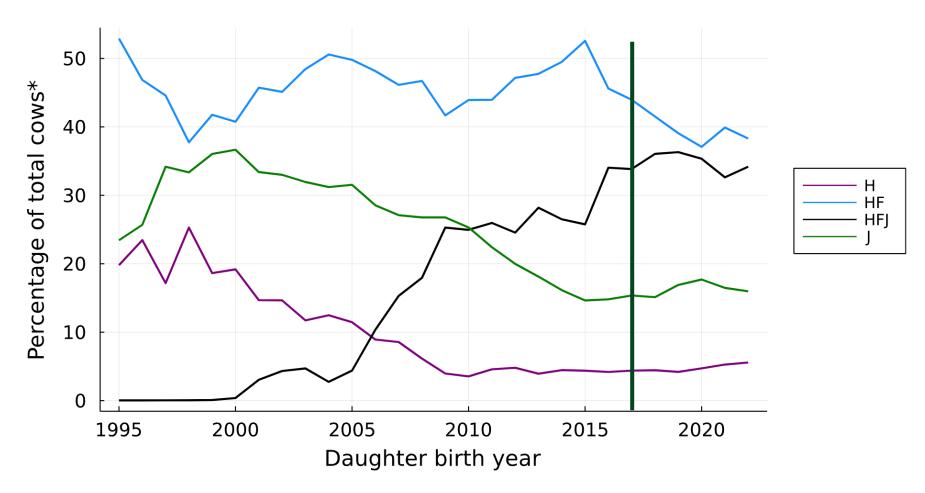
2. Breed substitution



Genetic Trend for Milk Fat – by breed



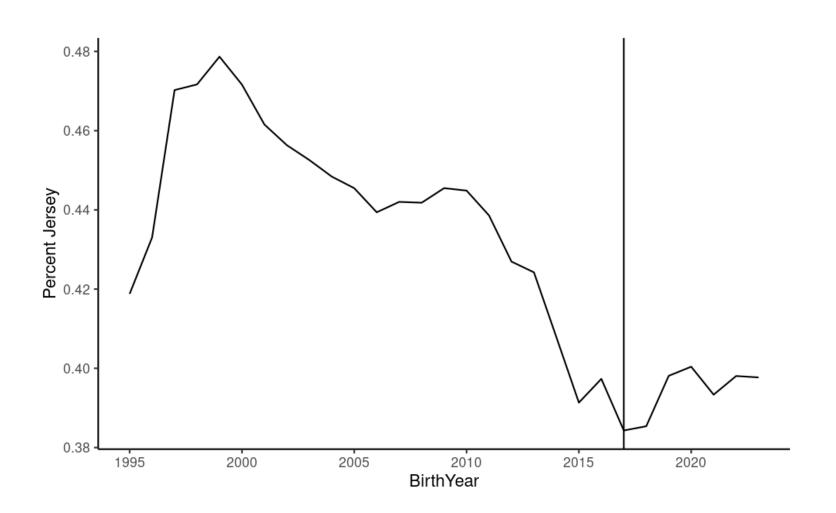
Breed Substitution – Sire decisions



^{*}Percentage of cows born in each birth year that were sired by bulls from each breed category



Breed Substitution – Proportion Jersey





Conclusion

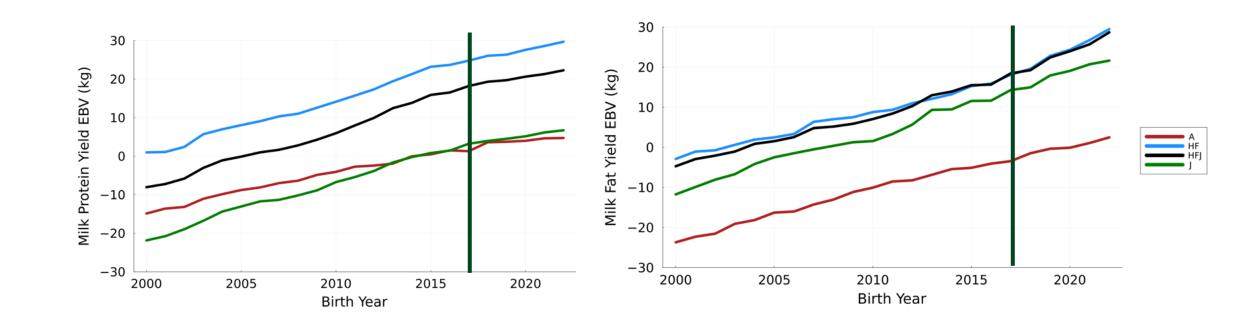
Genetic trends respond to BW weighting changes

 This response appears to be largely driven by within breed selection

And, to a lesser extent, breed substitution

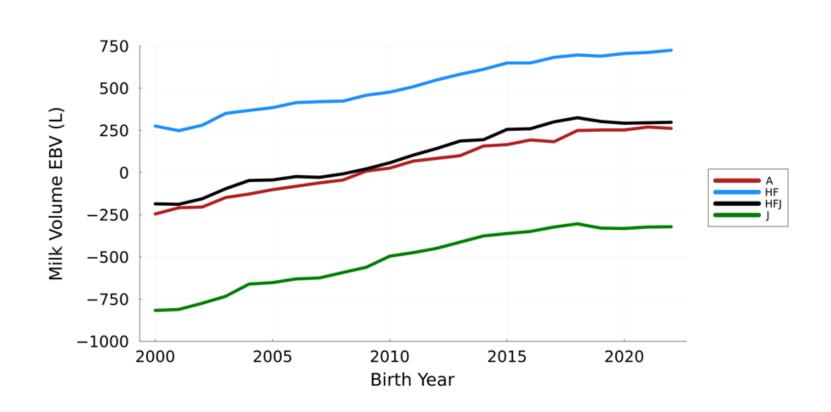


Genetic Trend for Protein and Fat





Genetic Trend for Volume



Genetic Trend for Milk Protein and Fat Percent

