

Connectedness via the CPT

Julia Aspinall, Genetic Gains Ltd



A good environment



A challenging environment.....



SIL is Smart

SIL can report the **genetic merit** of individuals
from different flocks
after all environmental effects have been removed

IF

We provide it with the necessary information



What information is needed?

We need to establish **connectedness** or linkage by sharing a sire with another linked flock in the same year

AND

retaining at least 20 - 25 progeny from that sire to measure for all the traits in the index



Connectedness via the CPT Sites

Breeder A shares a ram with Breeder B who shares a ram with Breeder C who shares a ram with the CPT all in the same year

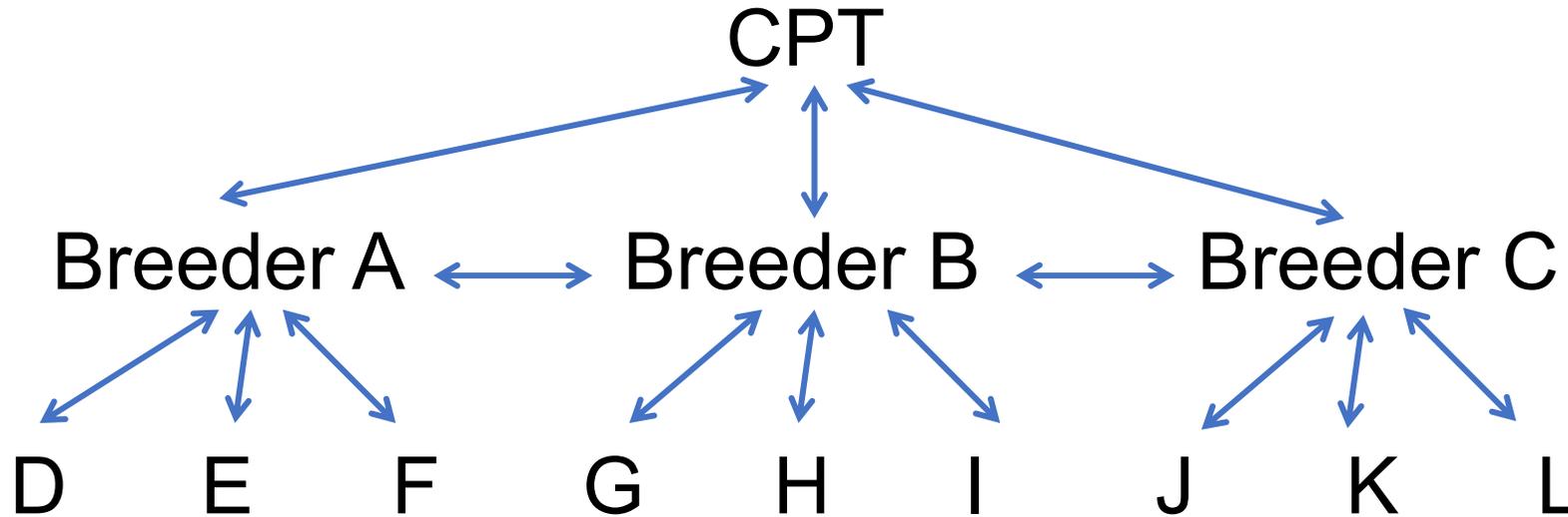
Breeder A ↔ Breeder B ↔ Breeder C ↔ CPT

AND

Each breeder retains and measures at least 20 – 25 progeny from each of the shared rams for all traits in the index



Connectedness via the CPT Sites



Each breeder shares rams in the same year AND retains and measures at least 20 – 25 progeny from each of the shared rams for all traits in the index



Sharing by Natural Mating not Possible?

- Geographically isolated?
- Not in a breeding group?
- Small flock?

Solution: Use AI with one of the CPT sires



Possibilities for AI

Should all sires used in the CPT Hub sites (Invermay and Taratahi) through AI be available to all breeders?

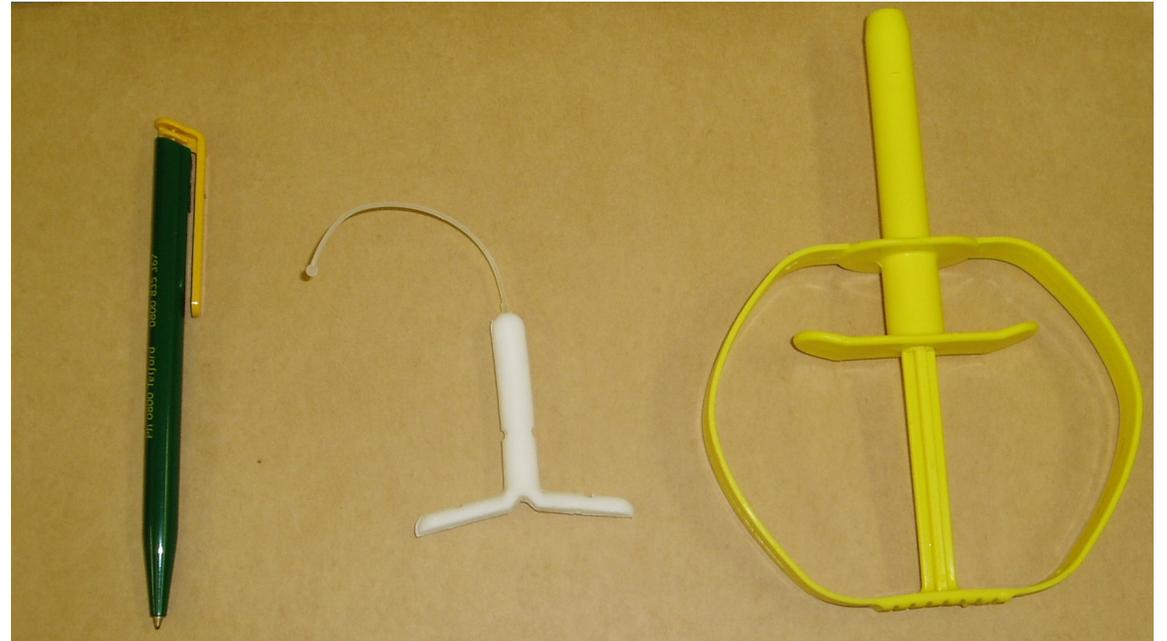
Orders would need to be placed by 28 February so the right number of straws are processed

Sires would need to be identified by 30 January



Programming Ewes for AI

- Insert a CIDR-G 14 days before the AI date
- Remove the CIDR-G 2 days before the AI date
- Remove ewes from food and water the day before AI
- Attention to detail is important



The AI Process

- Ewes are tranquillised
- Loaded into a cradle
- Half the belly wool is removed
- Abdomen is sprayed with disinfectant
- Two injections of local anaesthetic
- The AI process takes 1 – 2 minutes



Requirements for Connectedness

1. Share a ram with another connected breeder or the CPT **in the same year** either through natural mating or AI
2. Retain and measure **at least 20 - 25 progeny** from the shared ram for all traits in the index
3. Recommendation – **renew** every year or at least every two years (though it lasts for 3 years)



Monitoring Connectedness

Central Progeny Test Flocks NZGE 12 May 2017

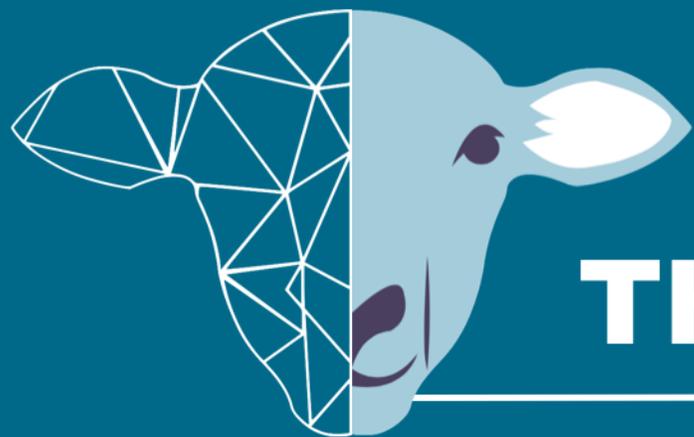
Flock	Reprodn	Survival	Growth	AdultSize	Meat	Wool	Worm	FECzema	Dag
2730	x	x	2	x	1	x	x	1	x
3385	3	3	3	3	3	3	3	x	3
4640	3	3	3	3	3	3	3	3	3
Code - Strength of Connectedness									
				0	1	2	3		
Orange Smiley Expiry in 2 years Red Smiley Expiry in 1 year									
				☹					☹



Benefits of Connectedness

1. Across flock reports are much more accurate
2. Opportunity to appear on NZGE leader lists on the website
3. Opportunity to appear on Ram Finder





Thank you.