CRC for Premium Quality Wool

Benchmarking Bloodline Performance

Produced for the CRC for Premium Quality Wool undergraduate program by;
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Bloodline (Stud) Performance

- **Bloodline variation**
  - fibre diameter: +3.5µm to -3.5µm
  - fleece weight: +20% to -40%
  - **$ GM/DSE: +30% to -30%**
  - accurate benchmarking vital to progress
- **25% of commercial breeders indicate they needed to change their ram source to achieve their flock's breeding objective**

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Strategies

- **'flock to flock' benchmarking**
  - 'looking over the fence'
  - comparative analysis groups
  - wether trials: public & on-farm
- **while flock comparisons,**
  - create awareness, and
  - in many cases a desire to make change
  - they do not provide a good solution

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Strategies

‘bloodline to bloodline’ benchmarking

- **Bloodline Performance package**
  - a ‘best practice’ benchmark plus a system to achieve genetic improvement
  - a clear indication of the improvement possible
  - a sound strategy to achieve the improvement

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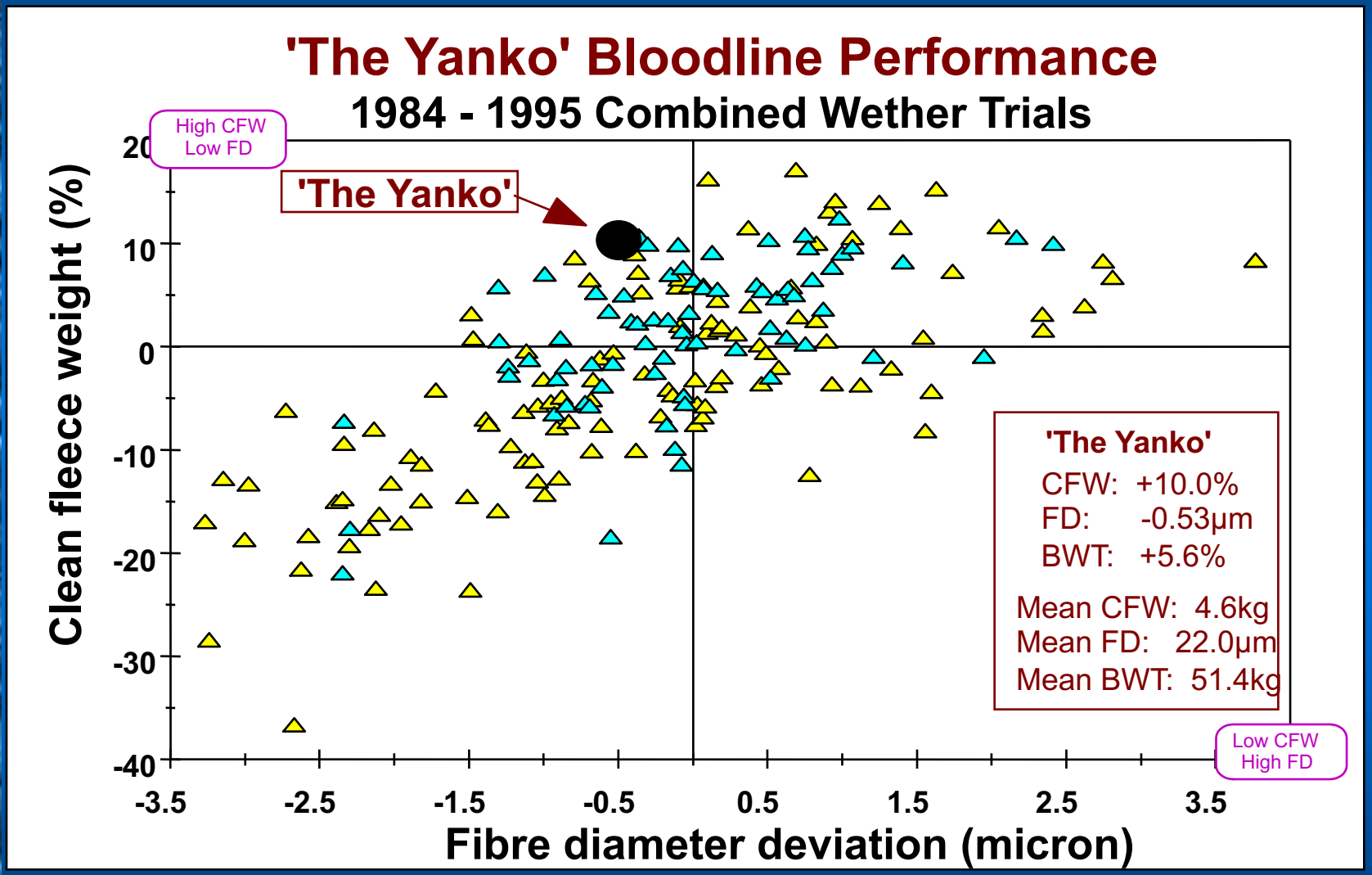
Case Study- ‘bloodline to bloodline’



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Strategies

‘flock to bloodline’ benchmarking

- Bloodline Performance data set
  - wether trial team performance
- personalised outcome
- use when a bloodline is not listed
- genetic lag reduced
- genetic gain established

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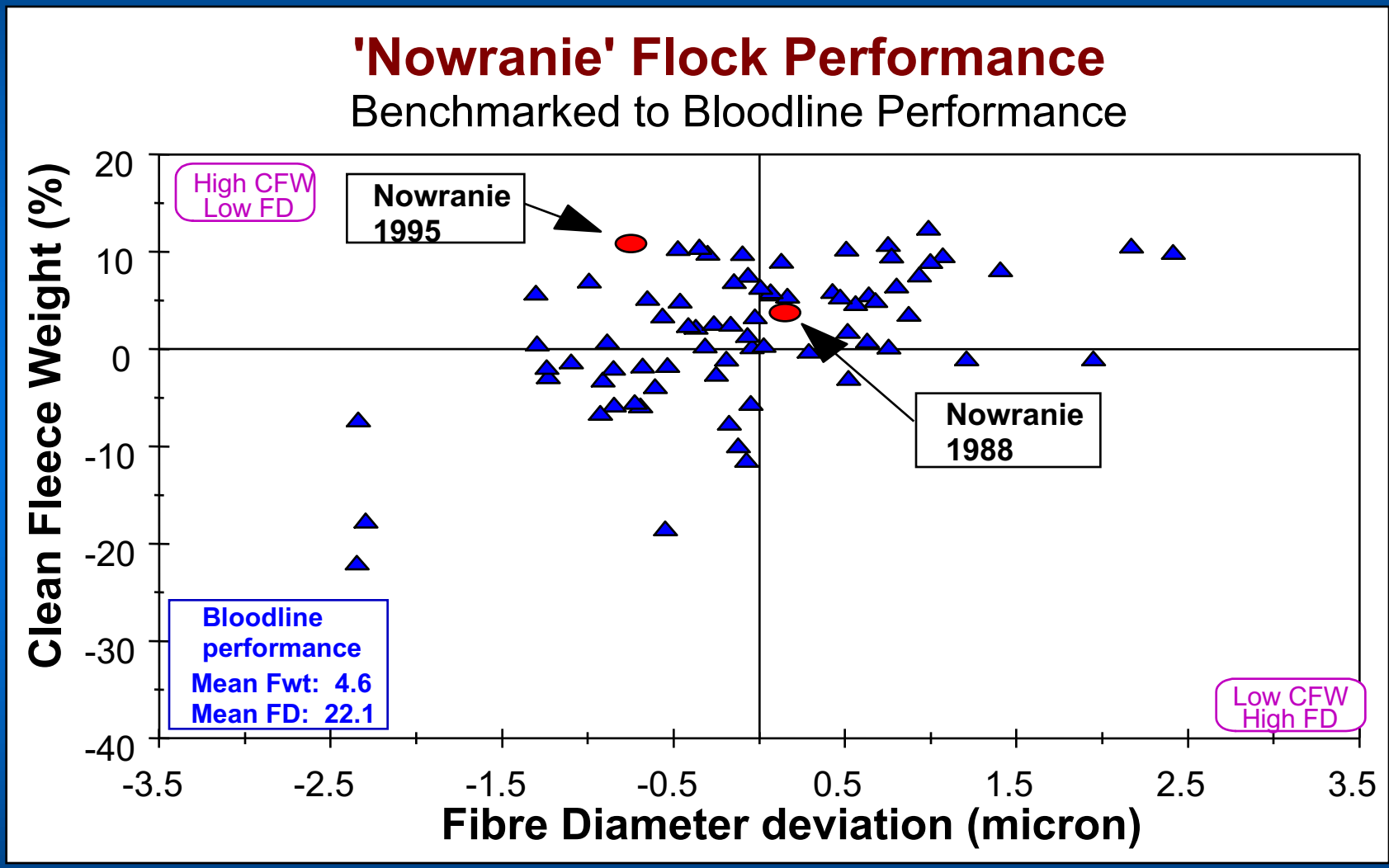
Case Study- '*flock to bloodline*'



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Strategies

'On-farm flock or bloodline' benchmarking

- After flock or bloodline benchmarking consider the need for local on-farm evaluation
- On-farm environment provides more detail but should not unduly delay change
- Time to change: 10 to 15 years base on rams
- Include ewe will reduce time significantly
  - advantage if change over cost is $10/hd or less

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Case Study- '*on-farm bloodline*'

Bloodline	GFW (kg)	FD (µm)	Yield (%)	AAA (%)	BBB (%)	AAM (%)
Stud C	4.90	21.1	69.0	80	10	10
Stud D	4.77	21.8	70.8	65	20	15
Stud E	4.36	22.0	68.5	60	5	35

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