

Strategies for Managing Wool Quality in Breeding Ewes

Produced for the CRC for Premium Quality Wool undergraduate program by; David Masters, CSIRO, Animal Production.



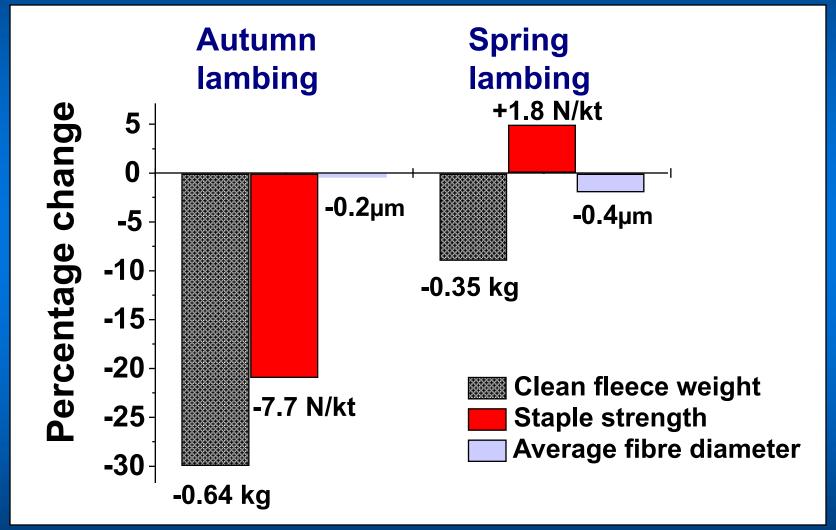
for

Premium

Quality

Wool

Wool production and quality in breeding ewes





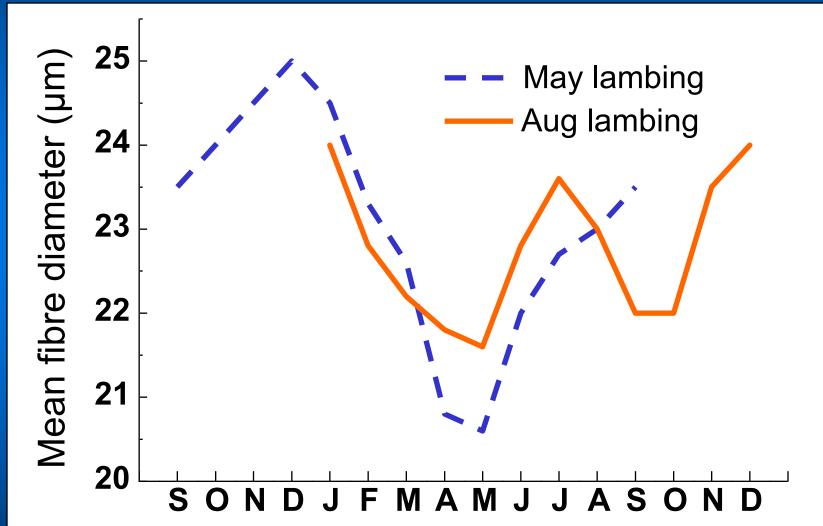


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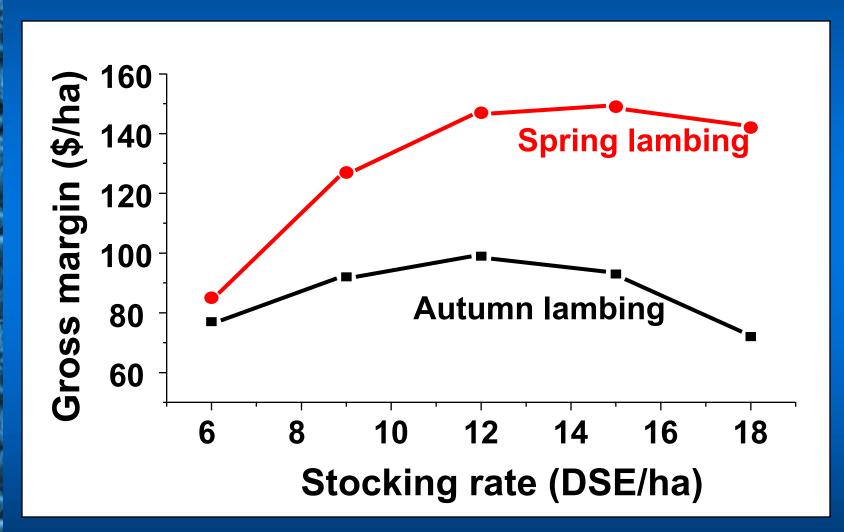
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Spring vs autumn lambing

Mediterranean environment/Staple strength NOT included





Strategies to minimise the influence of physiological state of staple strength

- Later lambing +ve
 - potential higher stocking rates and overall productivity and/or
 - decreased supplementary feeding
- Later lambing -ve
 - smaller weaners
 - increased management of weaners (e.g. grass seeds, parasites, stress)



Effect of lambing cycle on staple strength

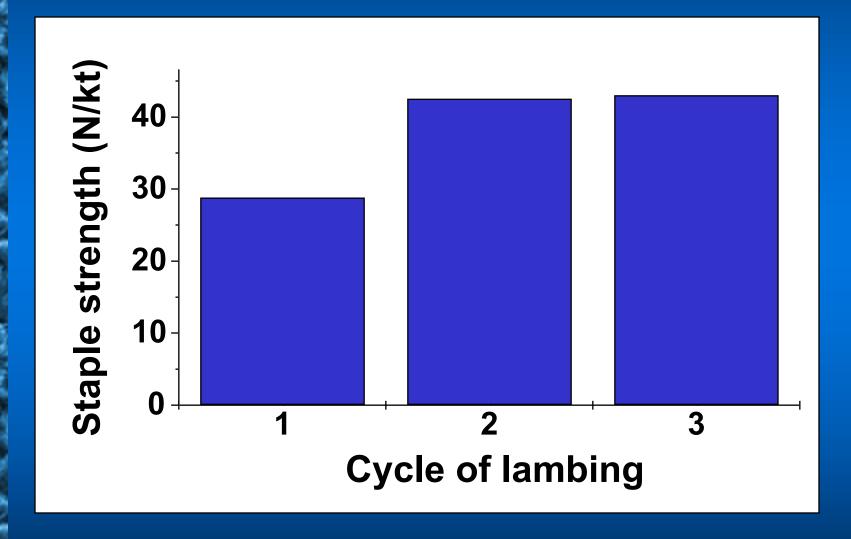
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Type of supplement and staple strength

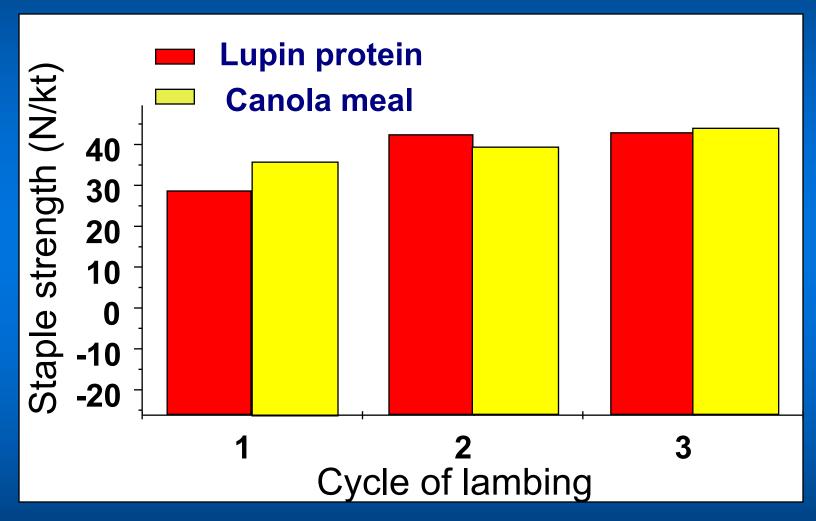
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David Masters Source: Masters and Mata (1998)



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Survey of commercial flocks

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Reared twins	Reared singl	e
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Clean fleece wt 3.7 kg 3.8 kg

Fibre diameter 22.8 µm 22.9 µm

Staple length 100 mm 102 mm

Staple strength 31 N/Ktex 34 N/Ktex

Why are the differences so small?



Effect of time of shearing on Hauteur

30

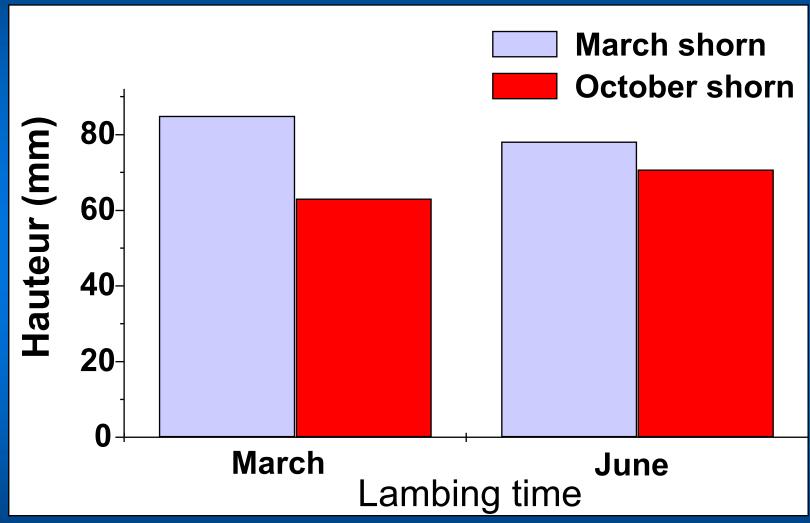
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The main points

- Reproducing ewes grow
 - less wool
 - finer fibre diameter
 - shorter staples
- Staple strength is often lower in reproducing ewes but:
 - time of lambing is important
 - feeding protected proteins may increase wool growth and staple strength
 - shearing near the weakest point in the wool will decrease the negative impact of low staple strength on processing quality