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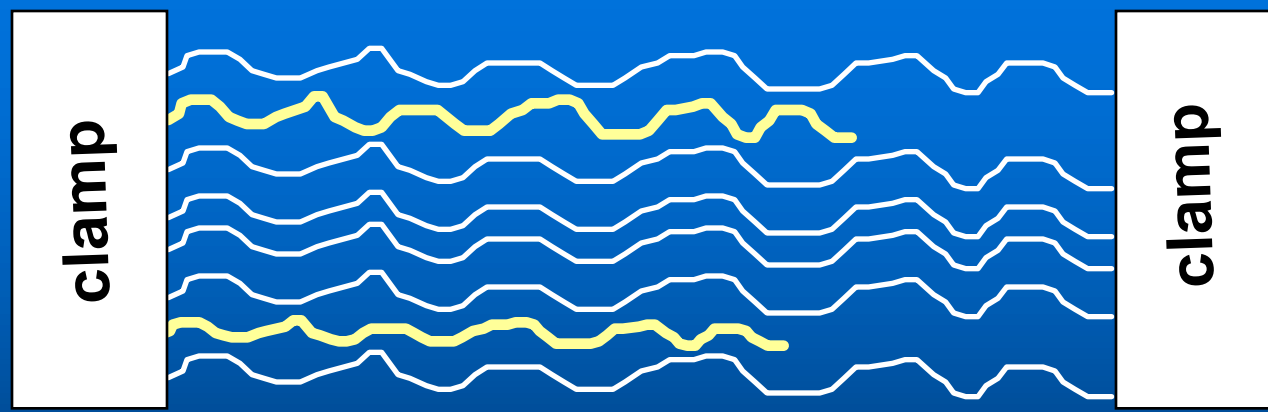
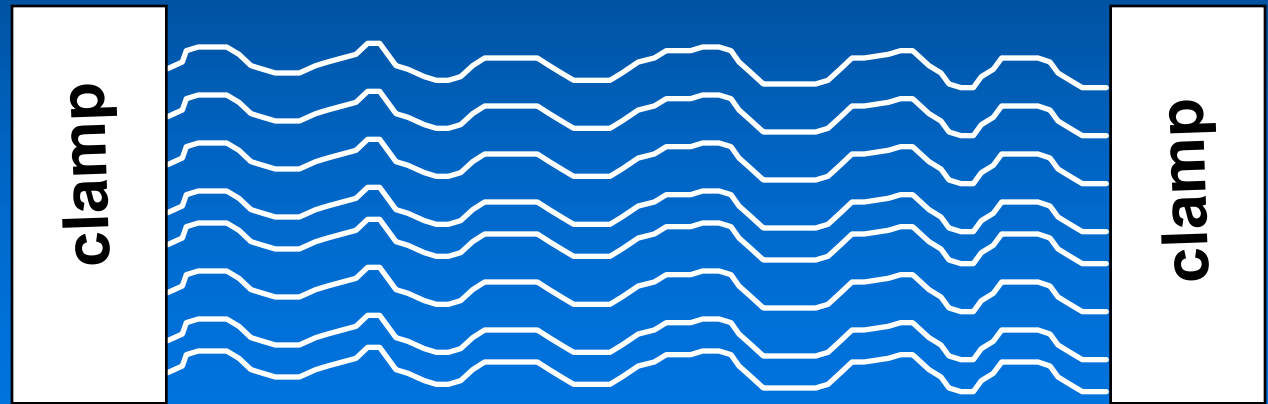
Wool

# Staple Strength: The Potential Role of Length Variation

Produced for the CRC for Premium Quality Wool undergraduate program by;  
Dr. Brad Crook, The University of New England.



# Crimped length variability



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# Fibre Ends



**BROKEN FIBRE**



**SHED FIBRE**

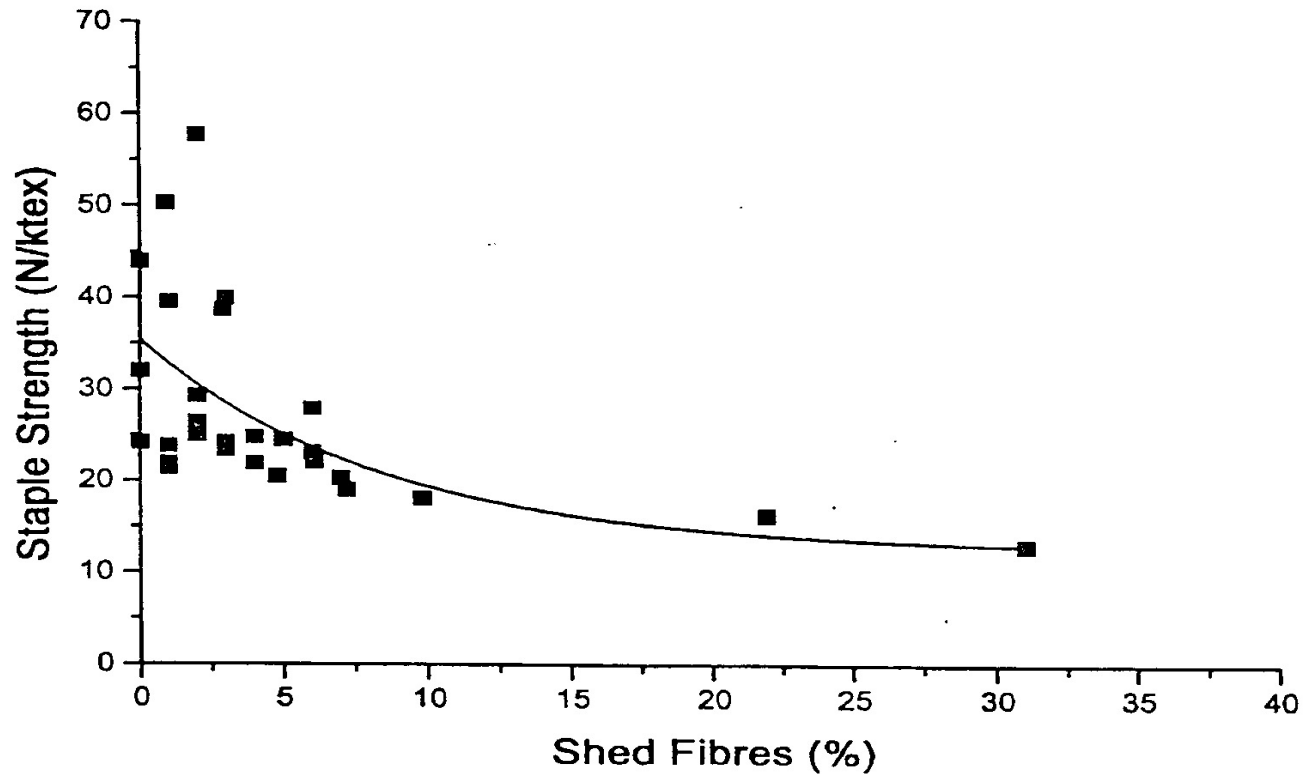
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Source: Schlink, T. (1998)



# Staple strength and fibre shedding

Fig. 2 Relationship between staple strength and the percentage of shed fibres at the point of break in wethers. The equation of the line fitted to the data is  $y = 12.4 + 23.1 \exp(-x/8.4)$  ( $r^2=0.31$ )



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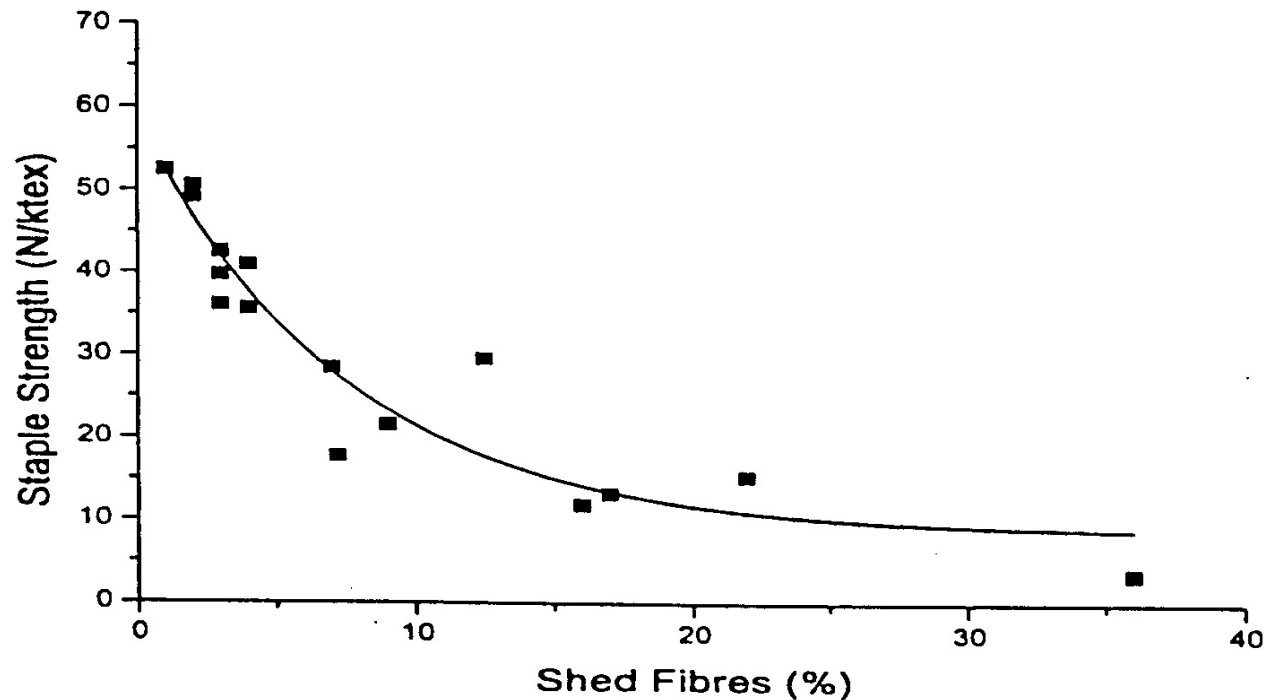
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# Staple strength and fibre shedding

Fig. 3 Relationship between staple strength and fibre shedding at the point of break in non-supplemented pregnant/lactating Merino ewes. The equation of the line fitted to the data is  $y = 8.5 + 50.3 \exp(-x/7.4)$  ( $r^2=0.89$ )



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Source: Schlink and Dollin (1995)