Tail length in unmulesed Australian Merino sheep

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Tail length in unmulesed Merinos

- Why is tail length important?
- Studies with unmulesed sheep in the 1930s and 1940s
Why is tail length important?

- Influences lifelong susceptibility to breech fly strike
- Influences degree of urine staining in ewes
- Influences dag formation in scouring sheep
- Influences rate of healing and risk of infection post-docking
- Influences rate of rectal prolapse in lambs
- May influence the rate of squamous cell carcinoma formation in the perineal region in older ewes
Currently recommended tail length

- **Ewe lambs**
  - The recommended tail length for female sheep is to ensure the healed tail just covers the vulva. This usually means docking immediately below the third palpable joint or through the third joint space.

- **Male lambs**
  - Male lambs should have their tails docked to the same length as ewe lambs.

Source: National Mulesing Accreditation Manual and draft MLA:AWI publication A guide to best practice husbandry in sheep
## Studies with unmulesed sheep in the 1930s and 1940s

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Study 1

% sheep with crutch fly strike Jul-Oct 1937

Long | Medium | Short
--- | --- | ---
20 | 30 | 50

Study 2

Breech fly strikes per 100 sheep Nov 1938 - Jul 1941

Study period

1 | 2 | 3 | 4 | 5 | 6

Long | Medium | Short
--- | --- | ---
10 | 20 | 30

Study 3

% sheep with breech fly strike Jan 1941 - Jul 1941

Long | Medium | Short | Undocked
--- | --- | --- | ---
10 | 20 | 30 | 10

Study 4

% sheep with breech fly strike Jan - May 1941

Long tail | Short tail
--- | ---
10 | 20

Study 6 - Noondoo

Total % all breech strikes 12 weeks after marking

Long | Medium-long | Medium | Short
--- | --- | --- | ---
10 | 20 | 30 | 40

Study 6 - Dungalear

Total % all breech strikes 5 months after marking

Long | Medium-long | Medium | Short
--- | --- | --- | ---
10 | 20 | 30 | 40
Study 5

Healing of tailing wounds in wether lambs 10 days after marking

- Long tail
- Medium tail
- Short tail

Healing of tailing wounds of ewe lambs 8 days after marking

- Medium-long tail
- Short tail

Rate of infection of tailing wounds of wether lambs 6 days after marking

- Percent of lambs with infected tails
  - Long tail
  - Medium tail
  - Short tail
6 days after marking – 51.5% large lambs had infected tailing wounds compared to 28.5% small lambs
• The appropriate tail length for unmulesed sheep was extensively investigated in a series of research trials in the 1930s and 1940s.
• The best protection against breech fly strike was obtained by docking the tails of unmulesed sheep medium-long or long. Medium-long or long was the best length for the tails of both female and male sheep.
• Docking the tails of unmulesed sheep at the second joint or shorter resulted in an inferior result, with these sheep experiencing two to three times the rate of breech fly strike as sheep with the tails docked long or medium-long.
• Short and medium length tails took longer to heal than medium-long or long tails and were more likely to be infected. Healing was also prolonged in older lambs, with higher rates of infection.
“When docking lambs, the aim must be to cut the tail at the level that will bring the tip about ¼ to ½ inch below the tip of the vulva. As the lamb grows this relationship of tail-tip to vulva-tip will be closely maintained…

Docking is an important operation, and none but careful workers should be allowed to do it…

Under no circumstances should the cut be made below the bare skin on the under surface of the tail…

The younger the lamb docked, and the longer the stump left, the more quickly the wound heals…

When lambs are docked short a considerably larger wound results, healing is delayed, and the wound is much more likely to become infected. It is under these circumstances that the tails of recently docked lambs are most likely to become struck. There is this further advantage, therefore, in the longer tail.”
Recommended tail length

• Ewe lambs
  – The recommended tail length for female sheep is to ensure the healed tail just covers the vulva. This usually means docking immediately below the third palpable joint or through the third joint space.
• Male lambs
  – Male lambs should have their tails docked to the same length as ewe lambs.

Source: First published in the National Mulesing Accreditation Manual and reproduced with permission in the draft MLA:AWI publication A guide to best practice husbandry in sheep