

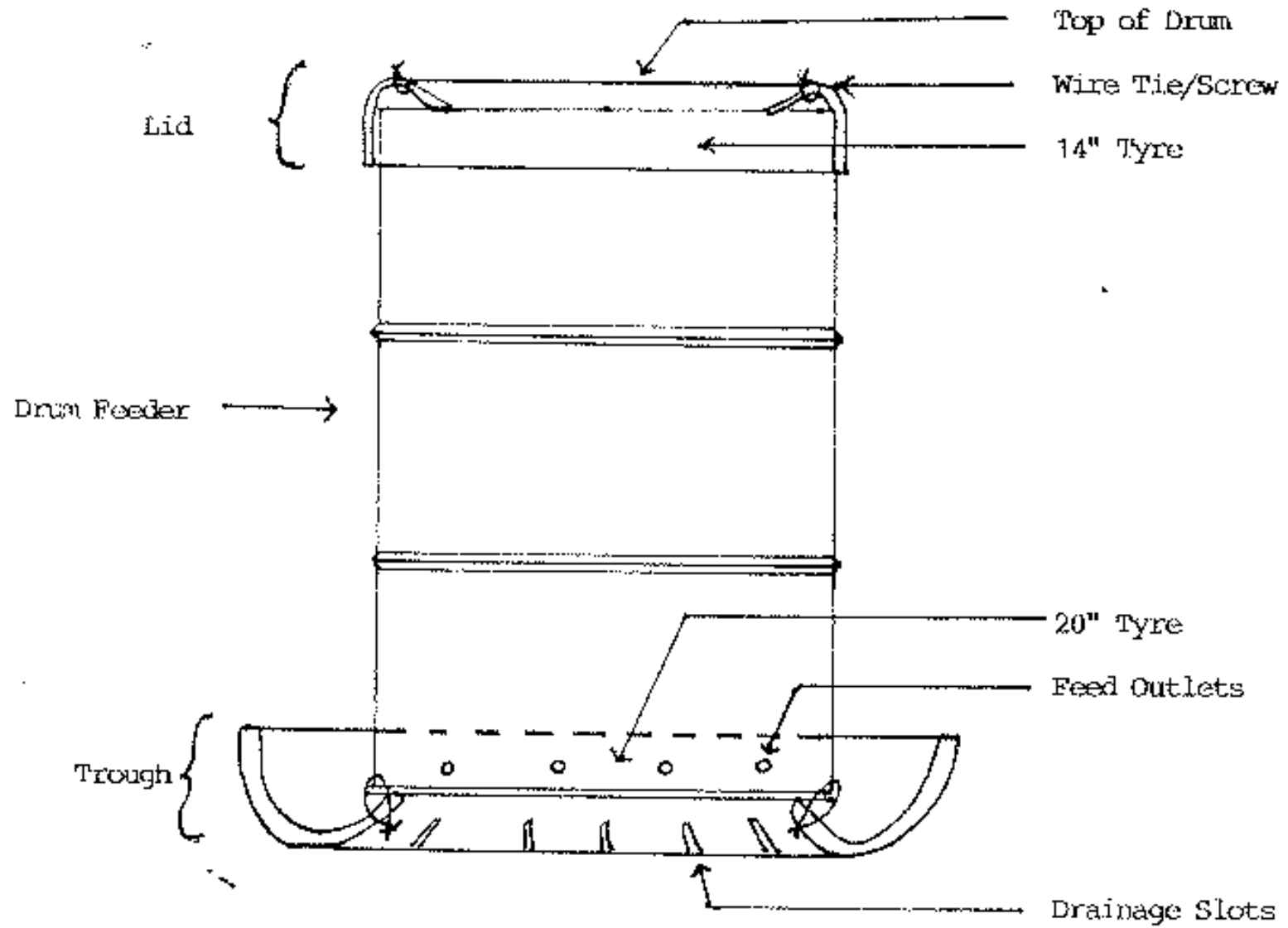


# Where do lick feeders fit?



- Development of the Lick Feeder
- Lick Feeder Principles and Examples
- Issues
- Lick Feeder Role in Wool and Prime Lamb Systems Nationally

# 200 LT DRUM FEEDER





Variations in hole and 'tickler' diameter can be used to deliver grain at a restricted or ad lib rate



# Lick Feeder Development



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As a rule of thumb for 25mm diameter holes:

- 10mm diameter tickler - 1.5 - 2
- 7mm - 2 - 3kg
- 3mm - 4 - 5 kg
- No ticklers - 5+ kg/hd/wk



# Lick Style Feeders - Mesh



# Lick Feeder Development



- Under grazing conditions sheep spend ~ 10% of the day at a self feeder
- Regulating intakes within open trough feeder systems was difficult and so the development of the 'lick' feeder system began

# Lick Feeder Development



- The Modern day 'Lick' Feeder principle was designed by NSW Agriculture during the late 1980's in an effort to "control and conserve grain supplements"
- They were not designed as a means of reducing acidosis risk

# Lick Feeder Development



- The 'lick' principle requires sheep to actively 'lick' grain from restricted areas within a feed trough.
- Stock eventually become 'tongue-tired', leave the feeder to drink and rest, returning throughout the day

# Lick Feeder Development



- Intake can be limited to a few hundred grams of supplement daily
- The Original Cowra Lick Feeder was a modification of a traditional self-feeder with weather damage, wastage and spoilage prevention measures



COWRA LICK FEEDER

Apron protects from rain



Kick rail preventing soiling of grain



'Lick' principle to minimise sorting



# Lick Feeder Development



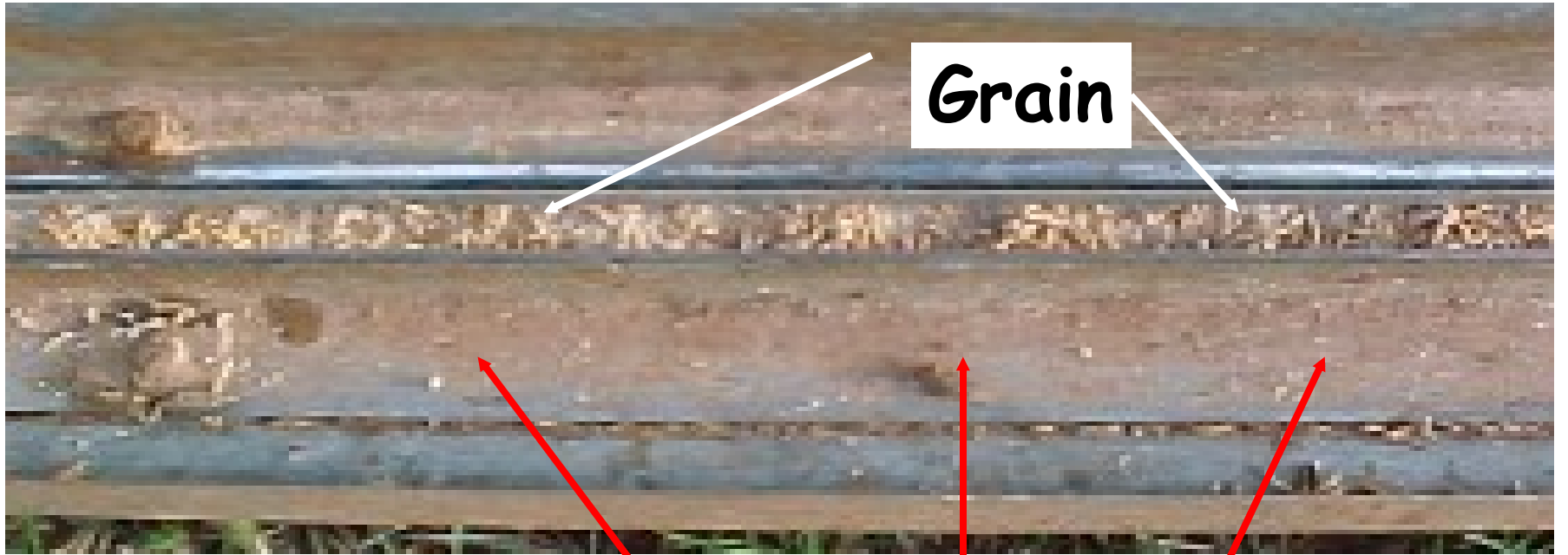
- Initially the 'lick' system consisted of wood panels with straight and (later) 'scalloped' areas along the board face into which the ration flowed.



# Lick Feeder Development

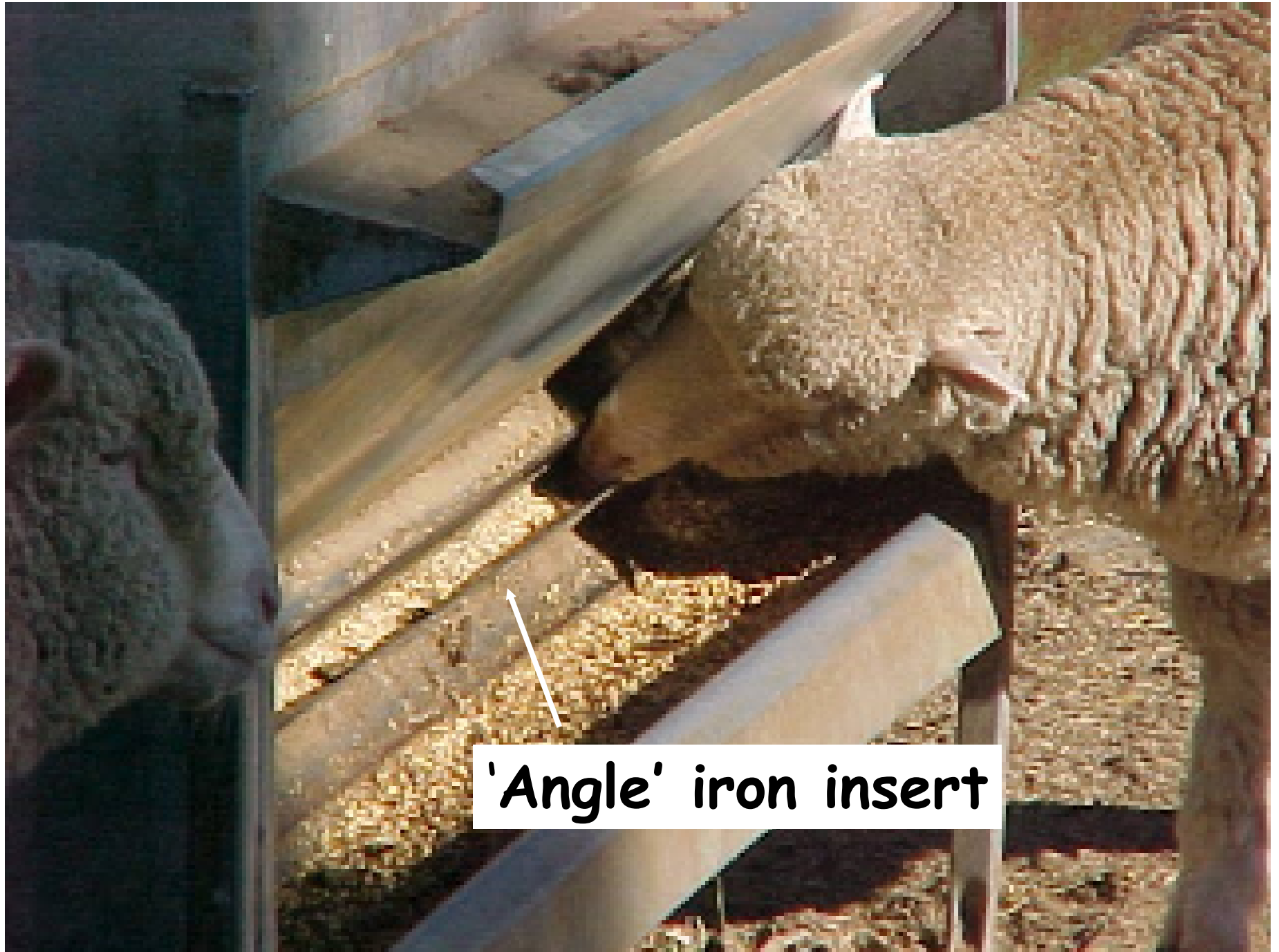


- The board could be moved within the feed trough to vary the area and amount of grain available.
- Issues with board life expectancy, warping, cost, wear and tear and blockages led to the metal 'angle-iron' style modification on which most lick feeders in Australia are now based



**Grain**

**'Angle' iron insert**



**'Angle' iron insert**

# Potential Issues



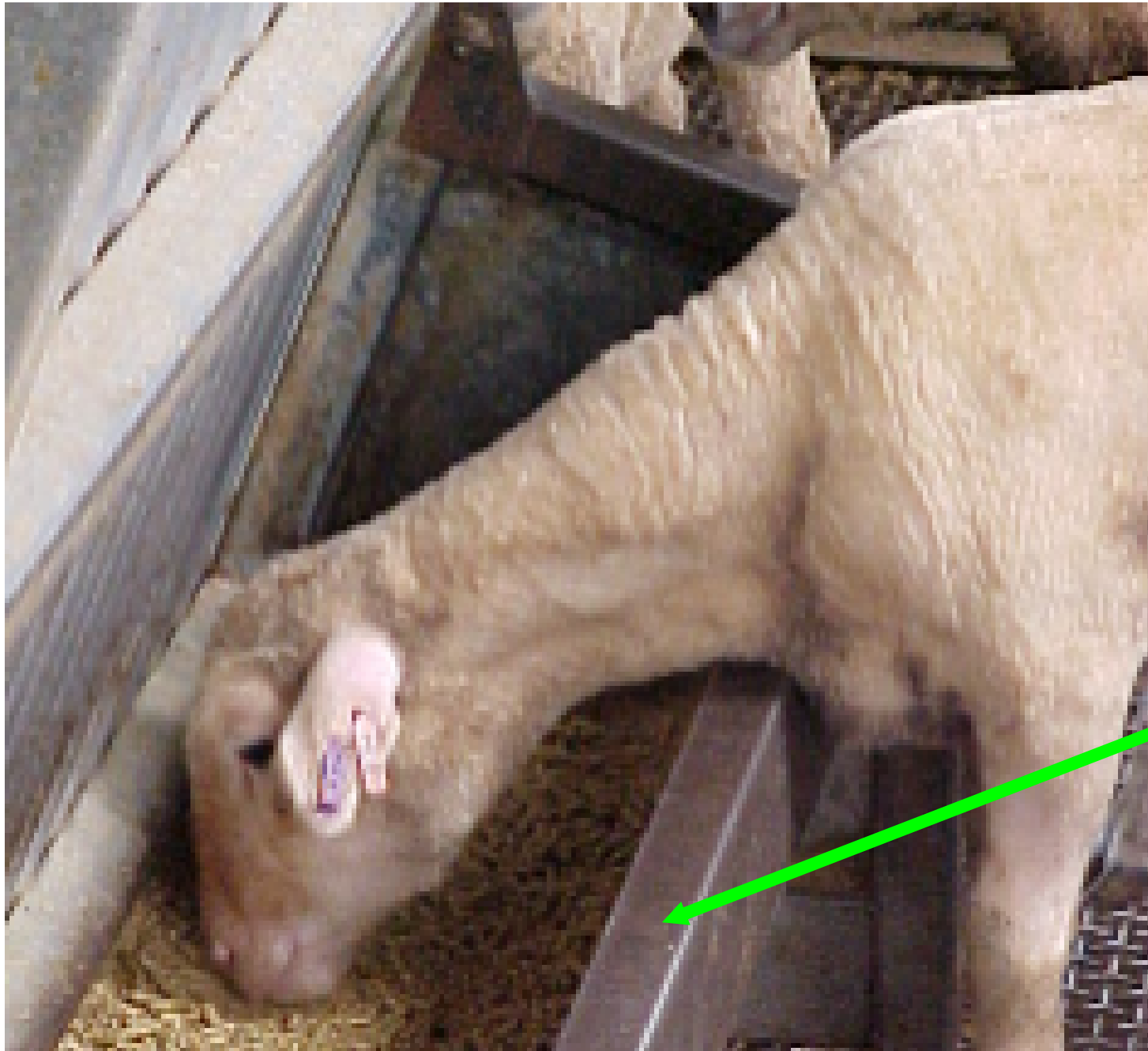
– Sorting and waste

Pellets rejected





**Lupins selected against**



Rolled  
lip will  
minimise  
waste

# Potential Issues



- Sorting and waste
- Engorgement - health issues





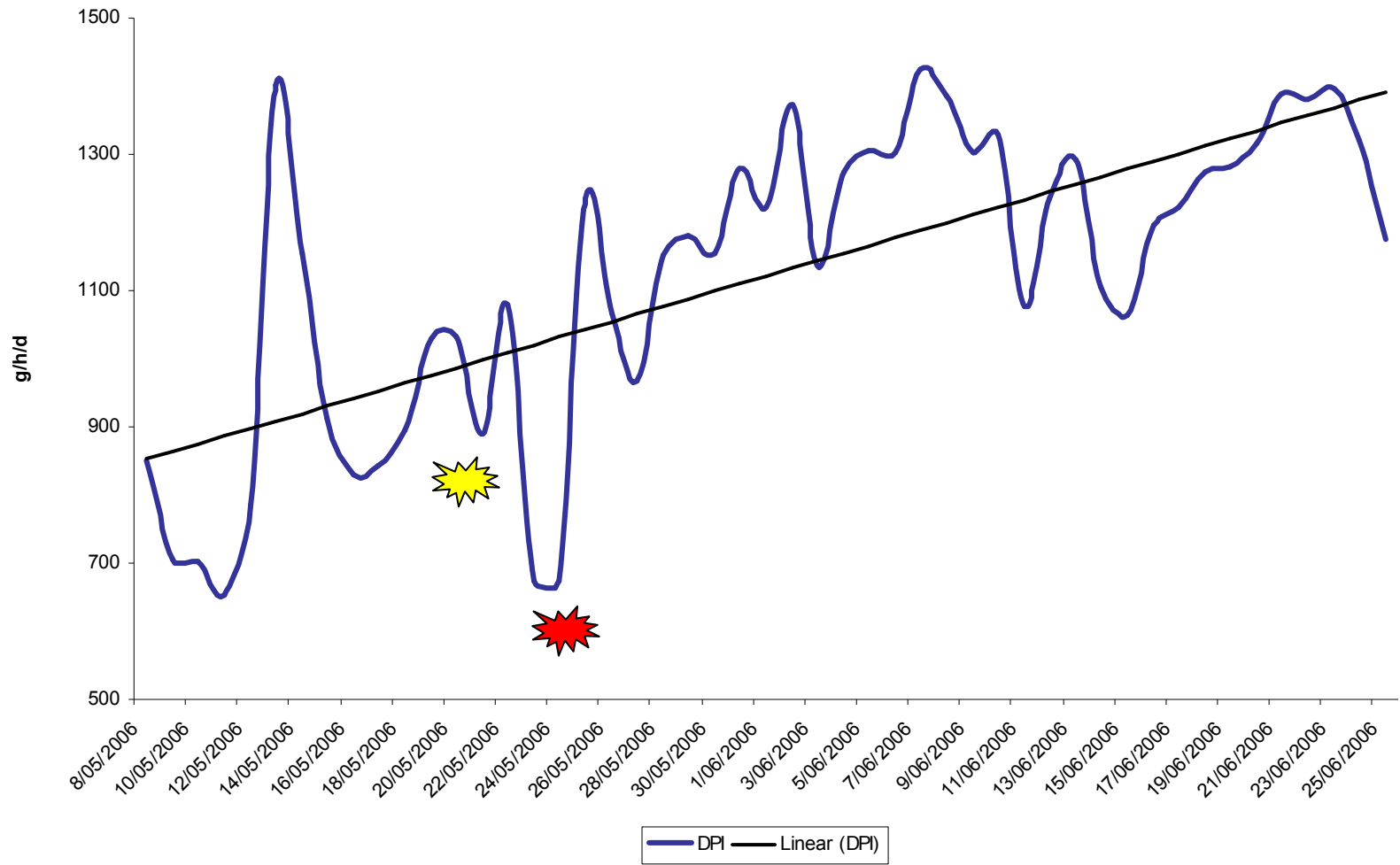
Solid  
Adequate fibre  
No acidosis

Poor consistency, gas  
bubbles, intact grain  
etc are signs of acidosis

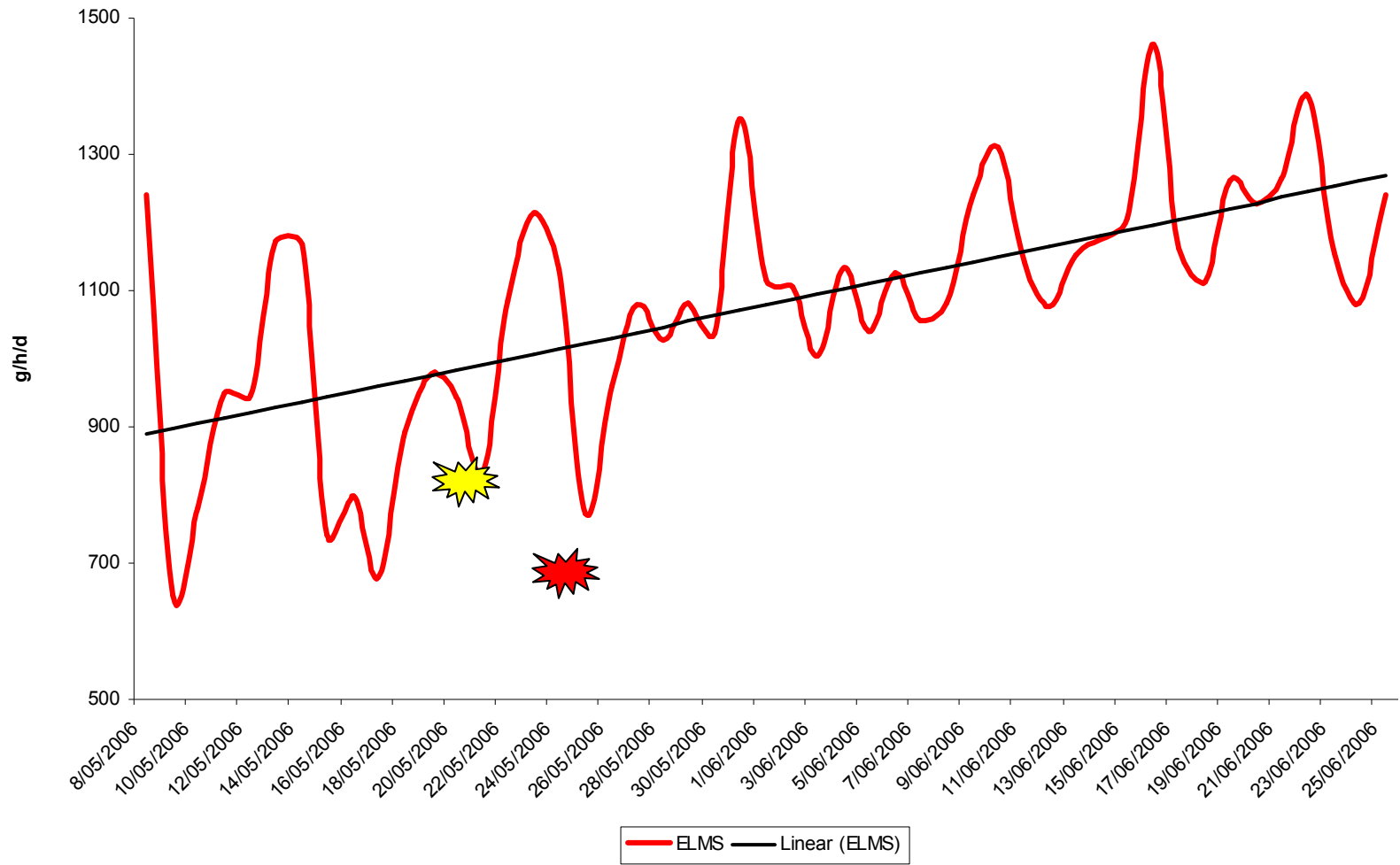


Engorgement - death through asphyxiation

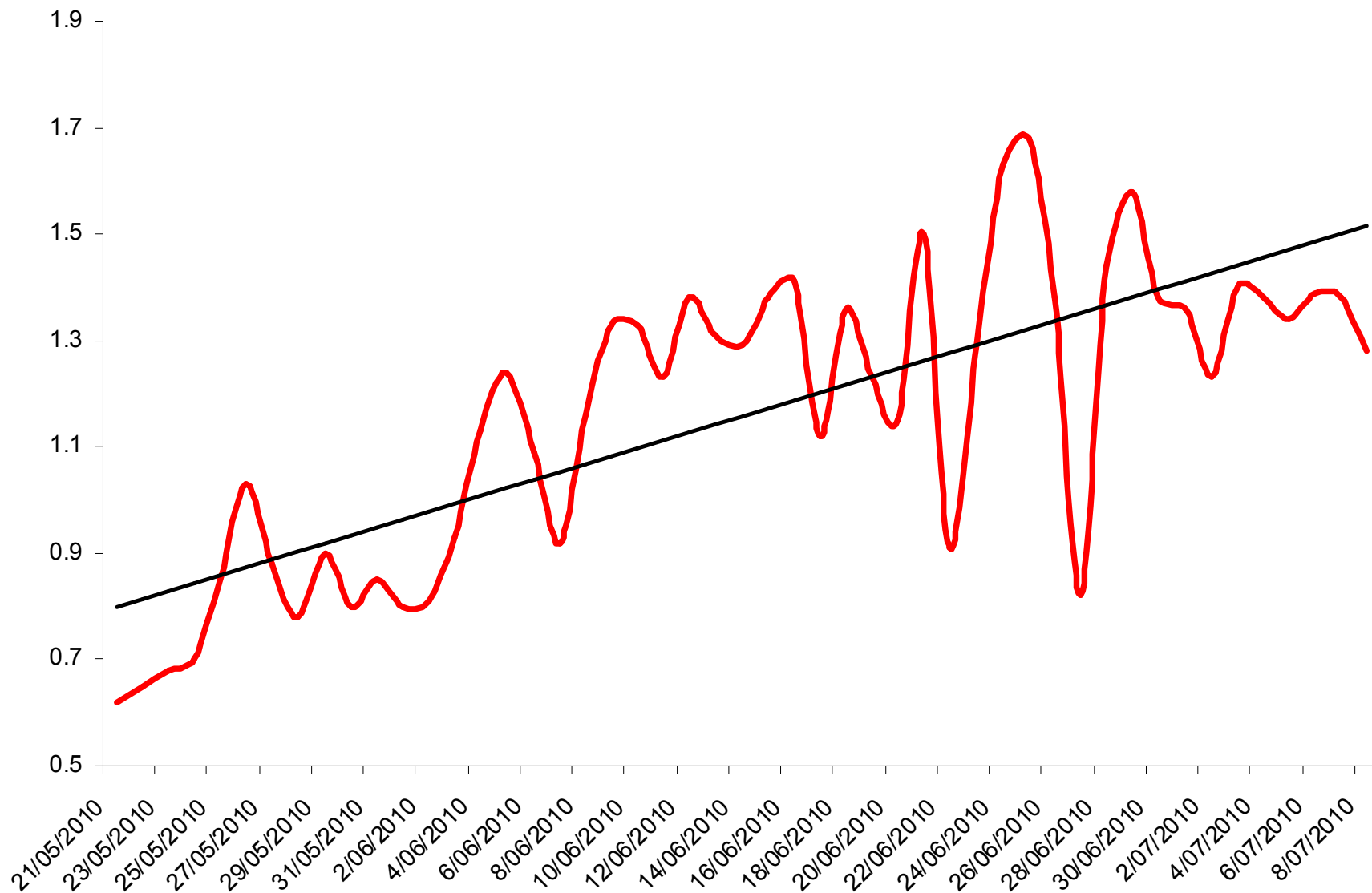
Average Daily Intake



### Average Daily Intake



### B McLeod trial G8 lambs

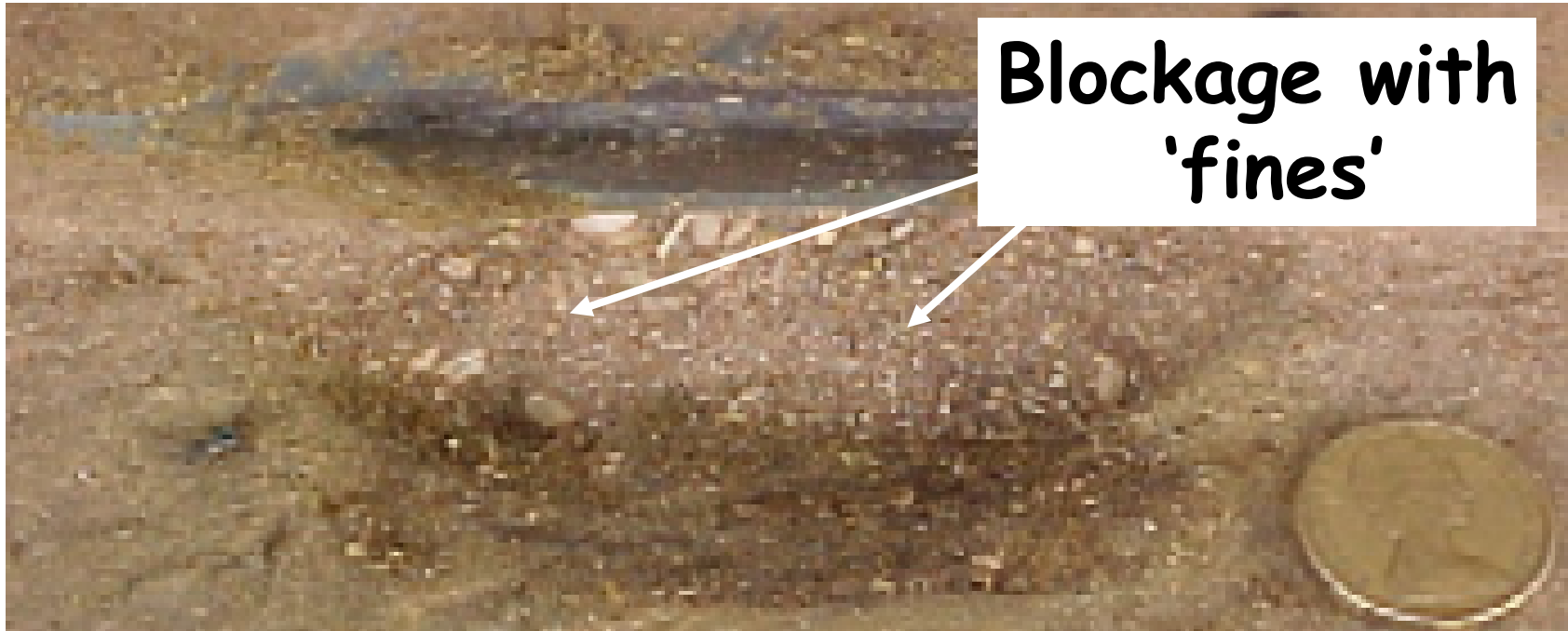


# Potential Issues



- Sorting and waste
- Engorgement - health issues
- Bridging due to saliva/fines





**Blockage with  
'fines'**



**Loose lime**



**Hardened areas  
(saliva)**





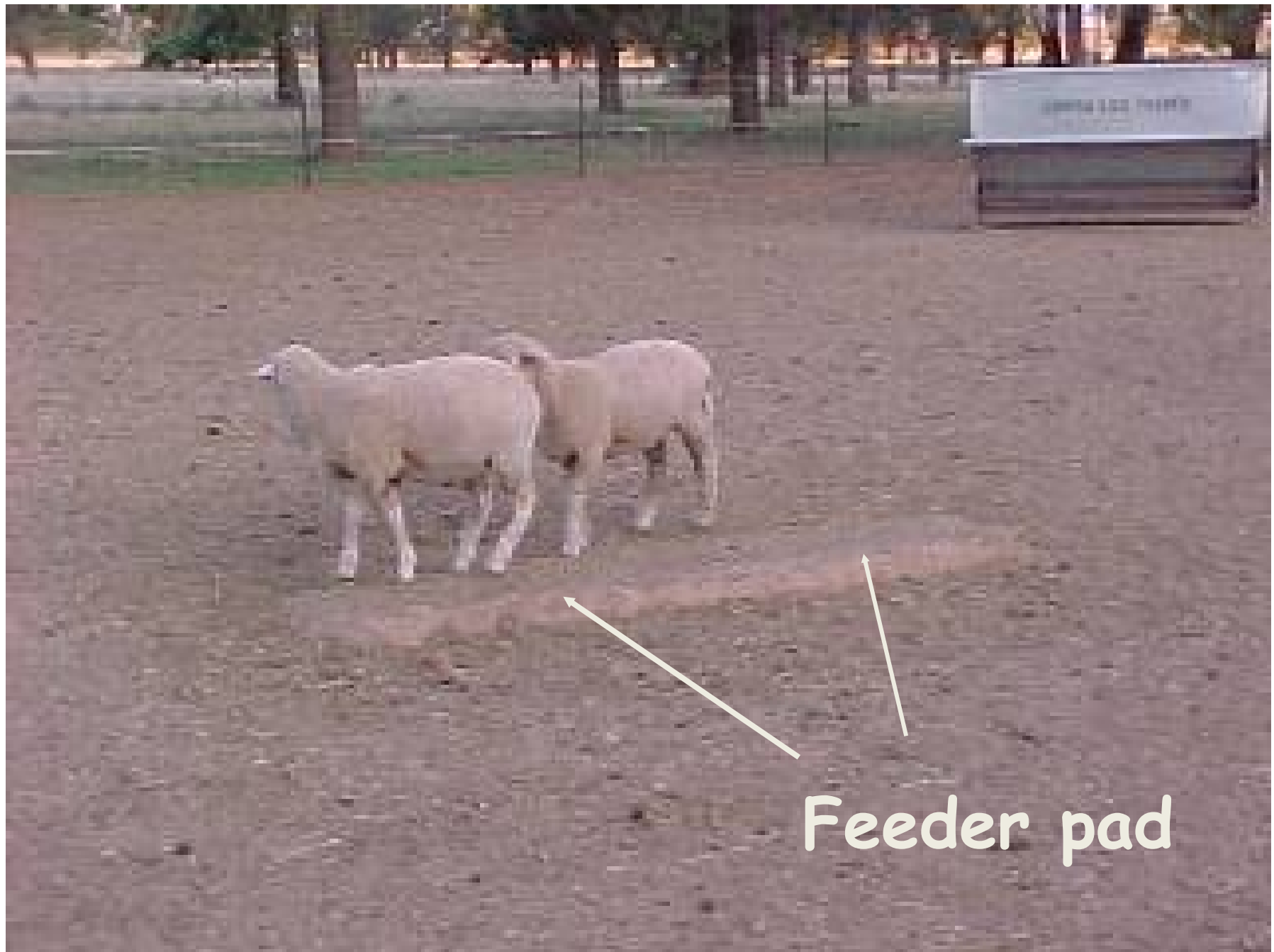


# Potential Issues



- Sorting and waste
- Engorgement - health issues
- Bridging due to saliva/fines
- Erosion at feeder face





Feeder pad

COWRA LICK FEEDER



Poor drainage will  
influence intake

# Potential Issues



- Sorting and waste
- Engorgement - health issues
- Bridging due to saliva/fines
- Erosion at feeder face
- Preventing spoilage and mismothering







# Potential Issues



- Sorting and waste
- Engorgement - health issues
- Bridging due to saliva/fines
- Erosion at feeder face
- Preventing spoilage and mismothering
- Pre-training stock to recognise grain as a feed and to use the feeder

# Pre-Training Lambs



There are benefits associated with pre-training lambs while with their dam or experienced ewes in terms of recognising, future intake and use of:

grain and  
feeding systems







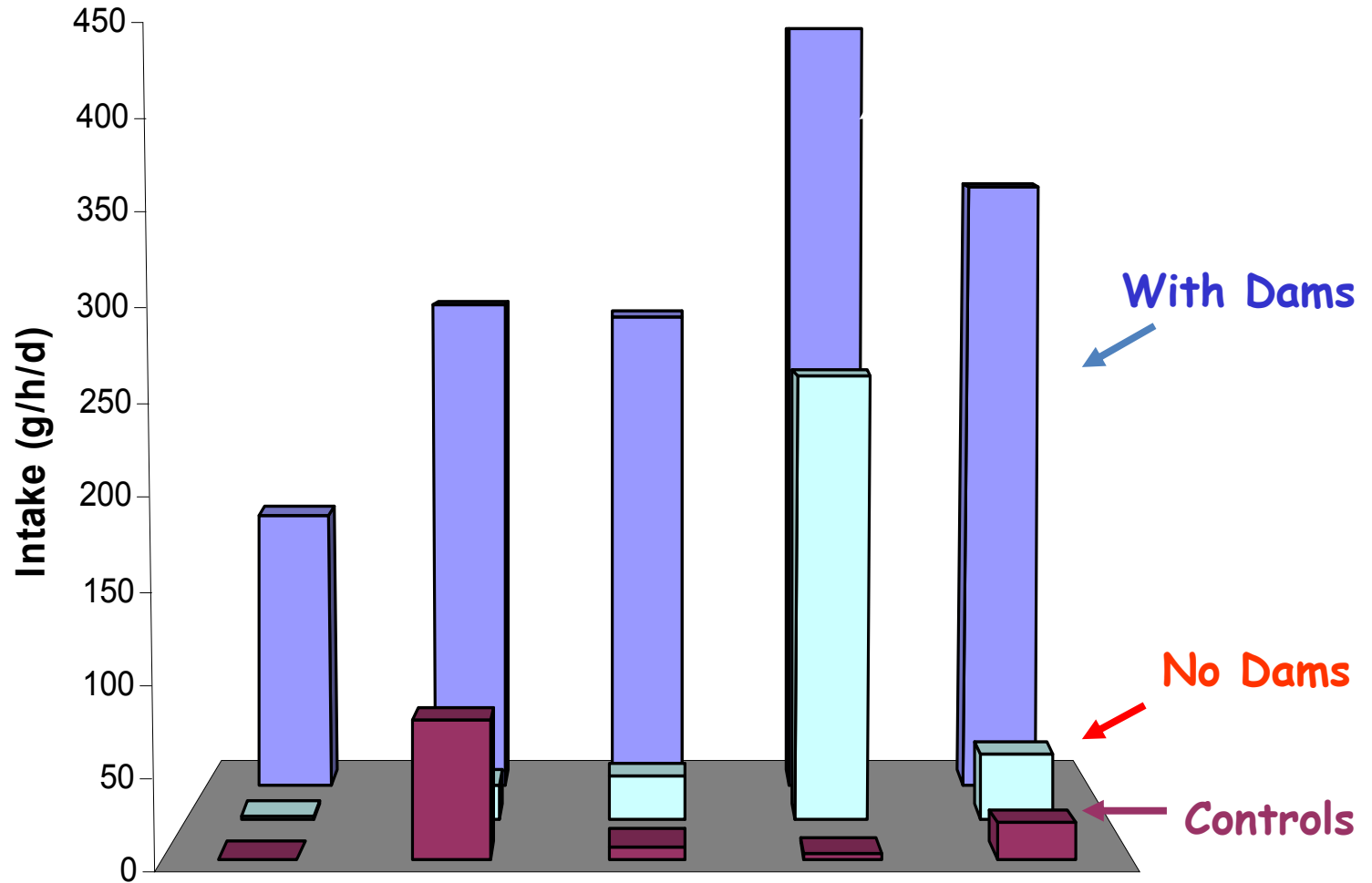


**BROMAR**  
PH 02 6343 2800  
**LICKFEEDER**

24 HRS  
SUPPLEMENT  
DRINKING  
MIXTURE



# Average Intakes (5 Days)



3  
34 months

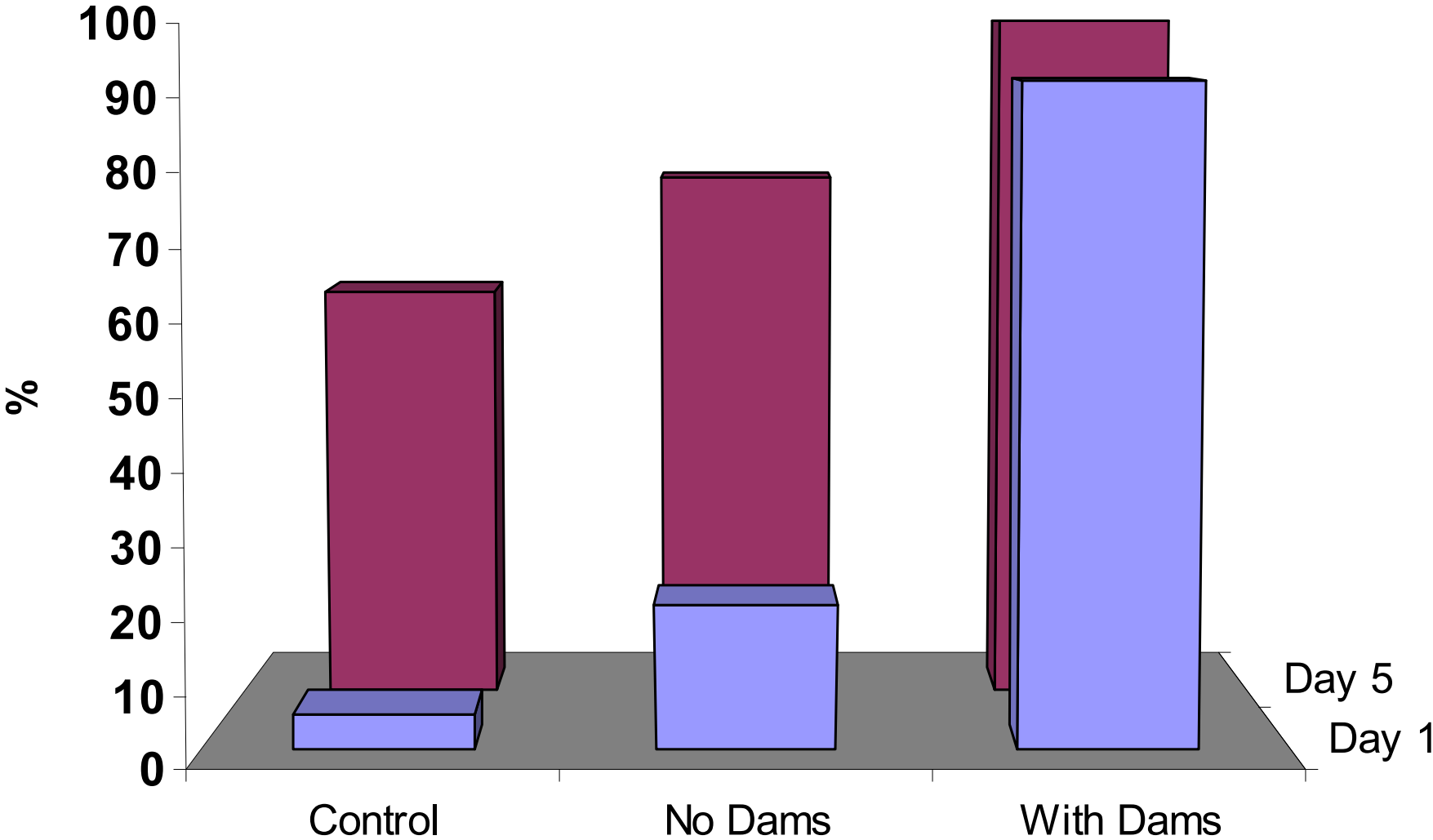
6

12

24

Green et al (1984)

# Percentage Eating (Days 1 and 5)



Green et al (1984)

# Lick Feeder Use



## Supplement

- to improve ewe and ram condition pre-joining
- during late pregnancy/lambing
- stock on stubbles
- when pasture limiting

# Lick Feeder Use



## Supplement

- to improve ewe and ram condition pre-joining
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- stock on stubbles
- when pasture limiting

## Feedlots

# Lick Feeder Use



## Minimise

- labour
- grain waste
- shy feeder/non doer number
- acidosis (???)
- mismothering and
- lamb and production losses

# Lick Feeder Use



## Improve

- intakes
- growth rates and
- feed conversion efficiencies
- lamb number meeting target wts
- overall farm efficiencies



Thank You

