







Healthy sheep, healthy profits

Jane Littlejohn Australian Wool Innovation

Acknowledgement: Brian Ashton



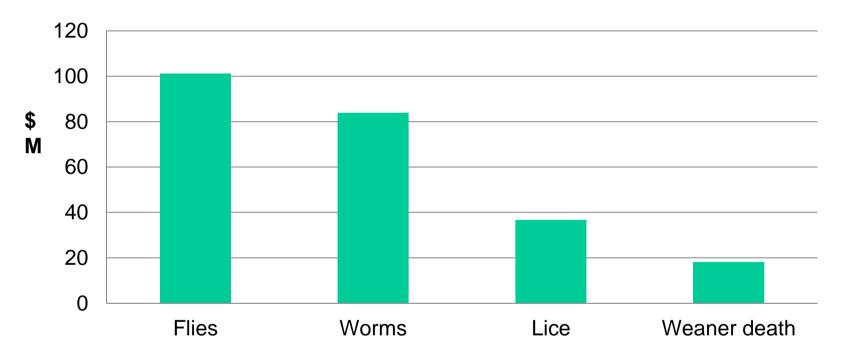




Worms, flies & lice a wealth hazard



Cost of diseae - Sheep/Cereal zone



What's new

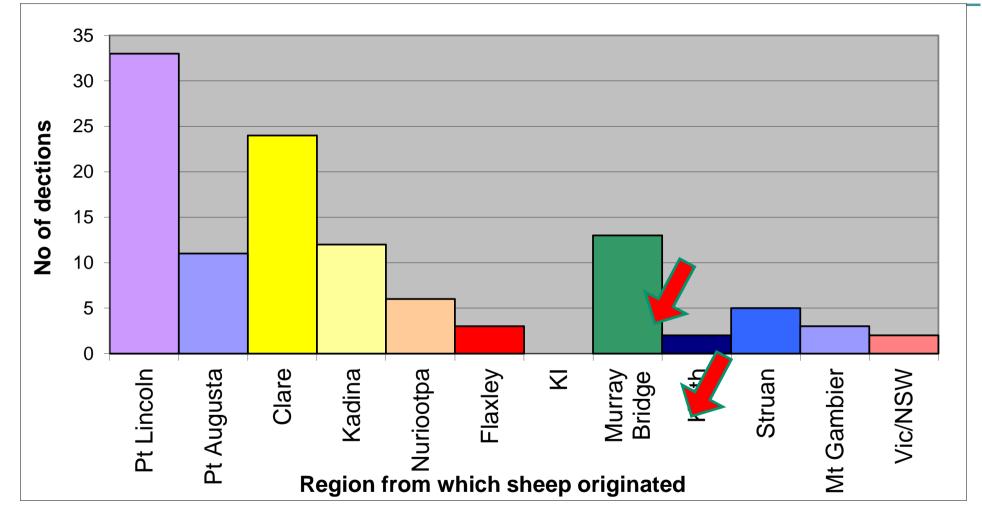


- Lice
 - chemical choice
- Worms
 - delaying resistance
- Flies
 - breech modification



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Government of South Australia Biosecurity SA

Why seeing lice now?

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Dose?

Saturation?

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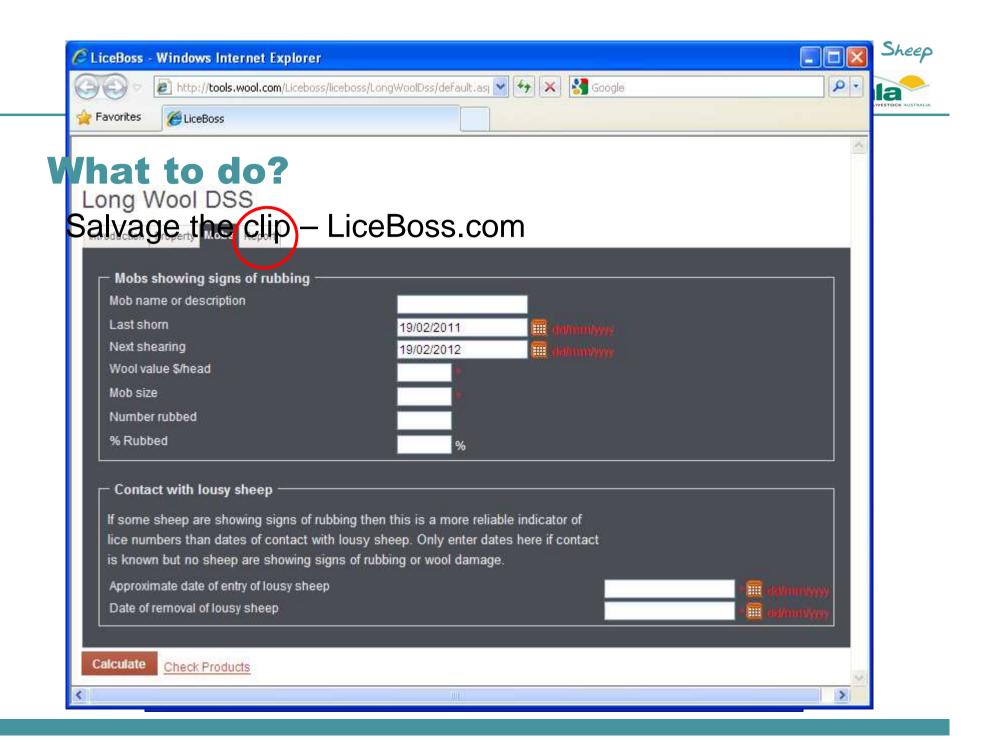


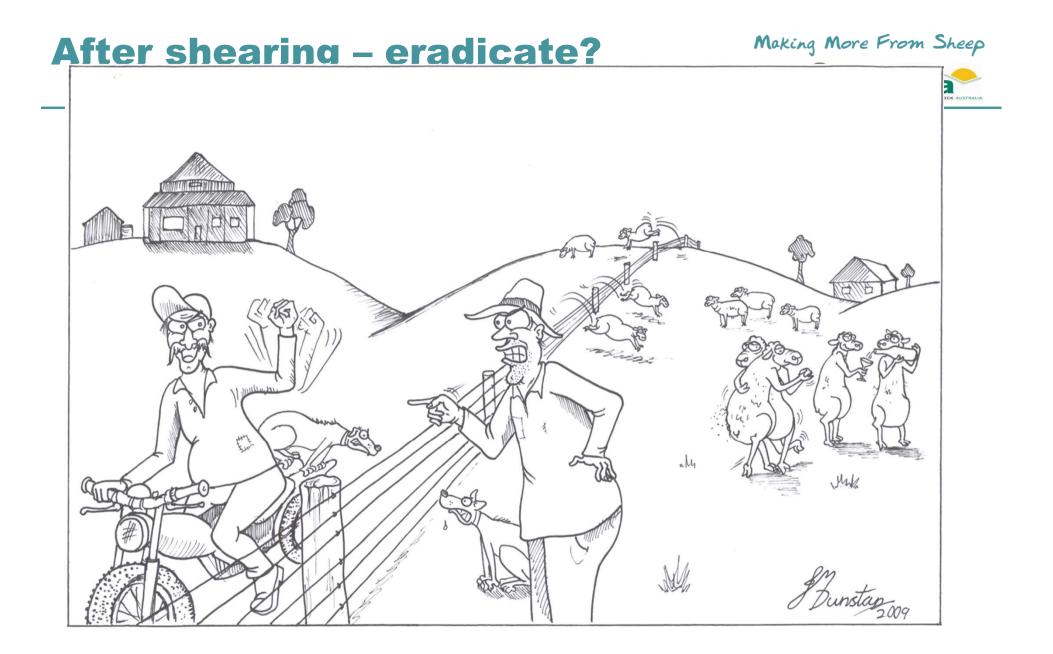


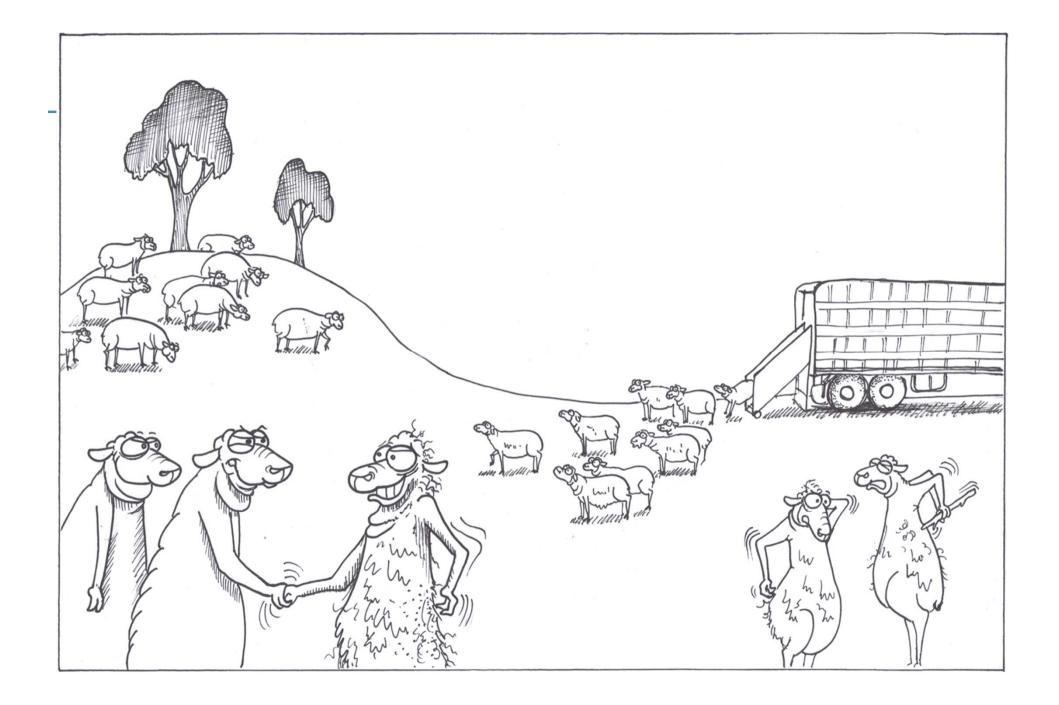
Dose?

Back to basics – 2 new things

- Backline resistance:
 - SP backline resistance 1980's
 - Triflumuron and Diflubenzuron backline resistance 2000's
 - Newer backliners OP, spinosyn, imidocloprid
- Diazinon replaced with Temephos in all but one plunge dip











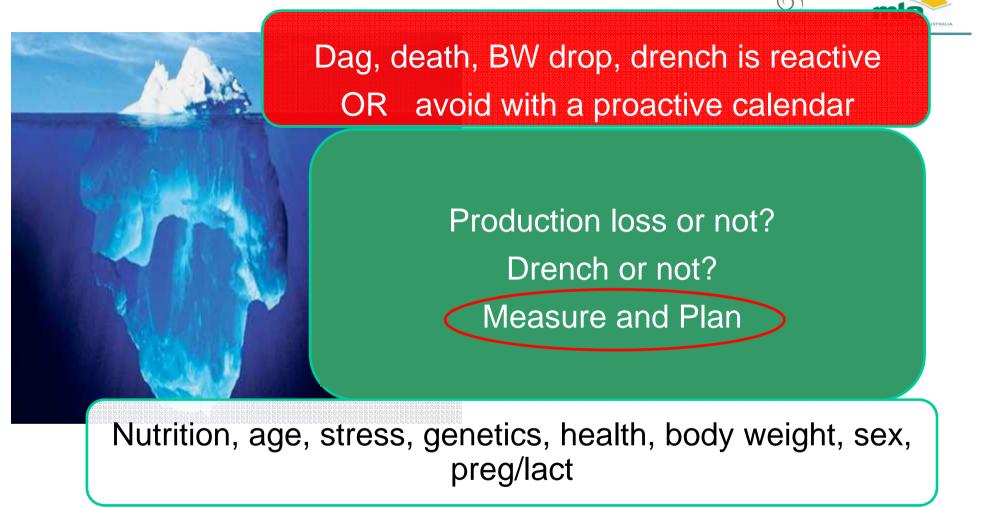
Lice

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70% infections due treatment to treatment biographical failure

Worms – reminder and update



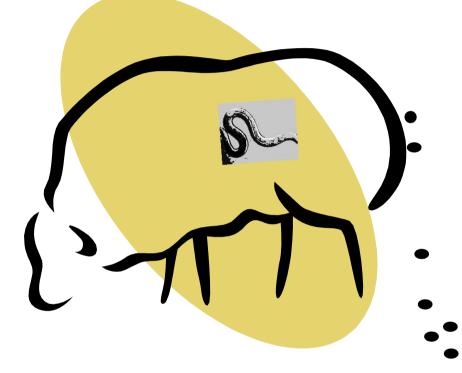
Drench resistance? Measure and Plan



- Plan a non resistant drench what combination?
- Plan rotations of drenches*
- "on special" vs a special job
- Plan quarantine drenches
- Plan to drench less frequently
 - Measure what adult sheep and in which mobs?
 - WEC/doers or not?
- Plan to leave some worms in sheep over summer seek advice

Plan to leave worms in sheep over Making More From Sheep summer – delay resistance

Un-drenched = naive worms



Naive worms live over autumn to Maive worms die dilute resistant Over Summer population

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Labour efficiency?





Worms Measure	
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and

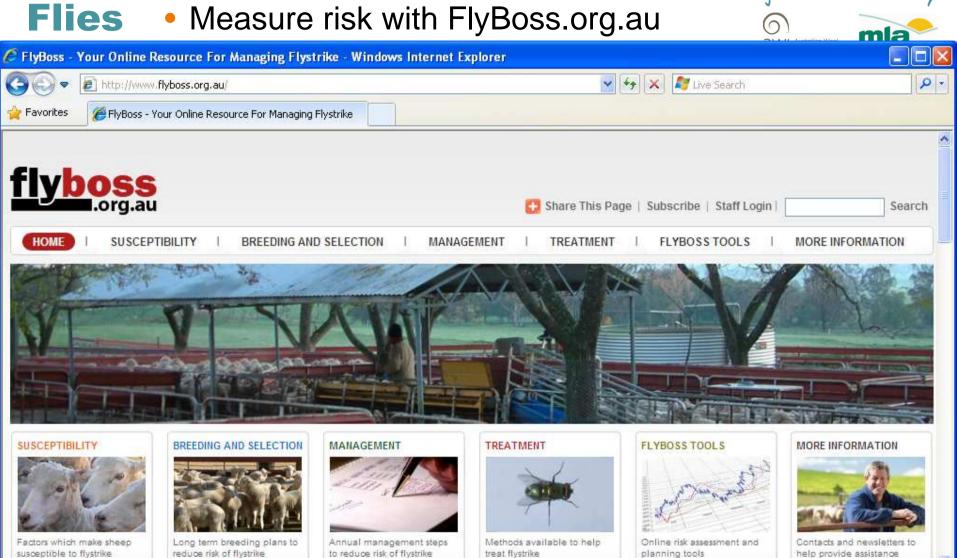
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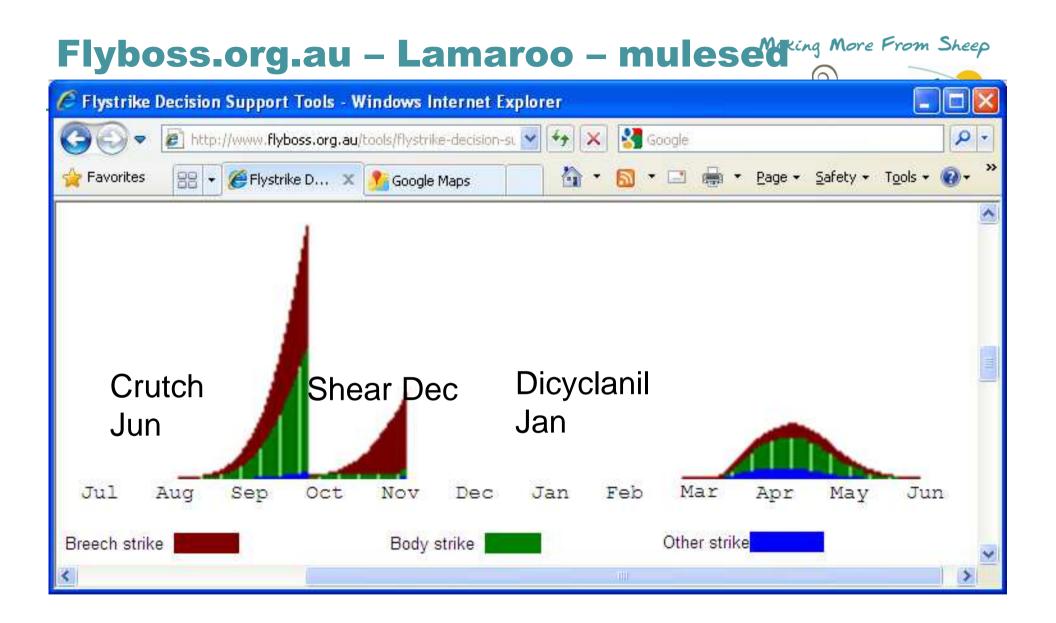
- What worms
- What drench
- What dose
- What not to drench
- What nutrition
- What genetic gain

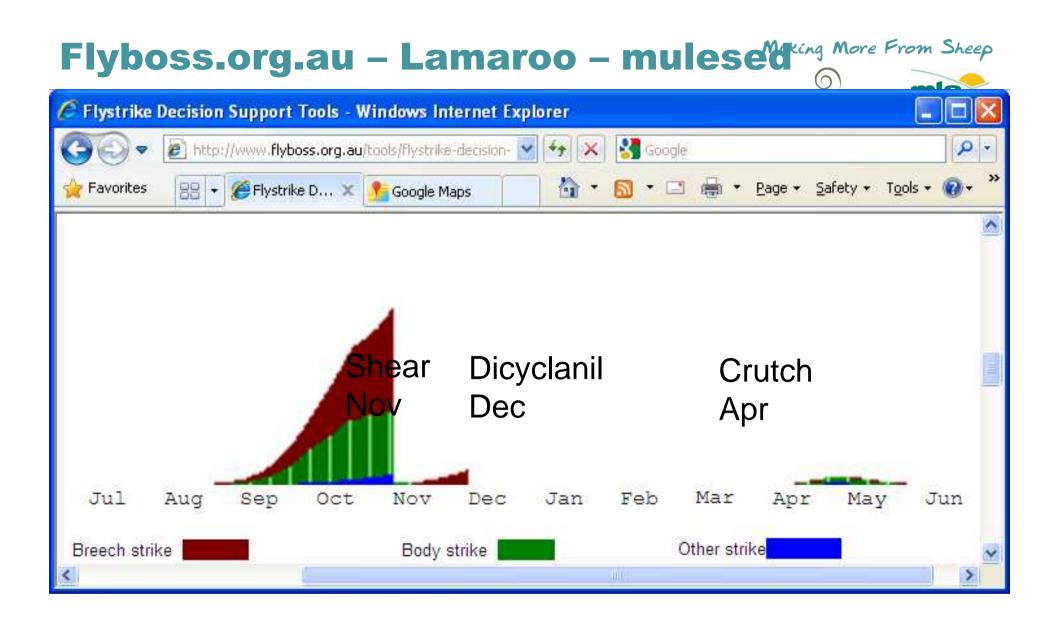
Calendar

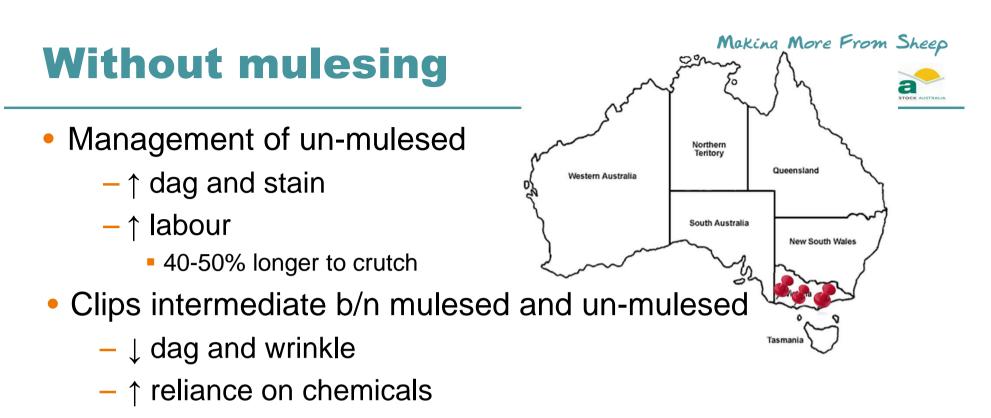
Plan

- Quarantine drench
- Clean paddocks
- WEC ASBV
- Rotate drenches
- Drench combos
- Culling
- WormBoss.com









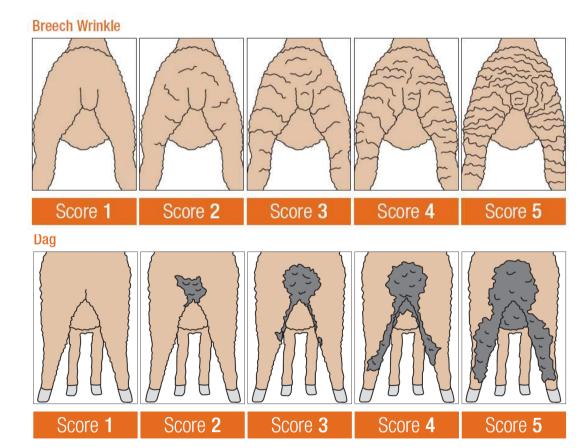
- Intradermals research phase
- First case of cyromazine resistance = dicyclanil

Long term – Genetics : What traits? More From Sheep

- Worm egg count
 - Lower worm egg counts
- Bare area
- Breech wrinkle
 - Reduce below score 2
- Dag score
 - Independent of WEC

Measure

AWI Australian Woo



Genetic gain



- Slow progress but cumulative gains
- Most progress dependant on ram supplier
- Include in your selection criteria
- <u>Must</u> balance important economic traits
 - Meat production
 - Wool production



Flies Measure

and



- Genetic improvement
 - Visual breech scores
 - WEC

- Calendar
 - Crutching
 - Shearing
 - preventative treatment

(impact depends on visual scores and breech modification used)

Find out more

- Making More From Sheep

 Module 11
- WormBoss
- LiceBoss
- FlyBoss
- MLA, AWI and PIRSA websites
- Sheep CRC
- Your network of advisers



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Take home messages



- Lice plan
 - the treatment
 - the other risks
- Worms measure and plan
 - good nutrition
 - do I need to drench
 - the treatment
- Flies measure and plan
 - timing of prevention
 - genetic gain

