



Healthy and Contented Sheep

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EVENT SUPPORTERS:







Overview

- Animal health is important \$\$
- Management /season interacts with health
- Key issues: perinatal lamb losses

worms

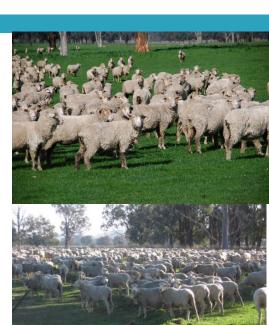
trace elements

biosecurity

flies/lice

"the rest"

- Key points
- Sign posts







What is important for healthy sheep

- Nutrition, nutrition, nutrition
- Worms, flies and lice
- Everything else!
- Interaction between health and management
 - Often need to change management OR
 - Watch when change management
- 1. Almost all health problems associated with management









Effect of Season

- Most diseases seasonally based
- Warm, moist conditions favour
 - Pasture growth
 - Bacterial survival
 - Worm, fly development

So if dry, nutrition is real issue (ENERGY)

2. If good season, diseases the problem!

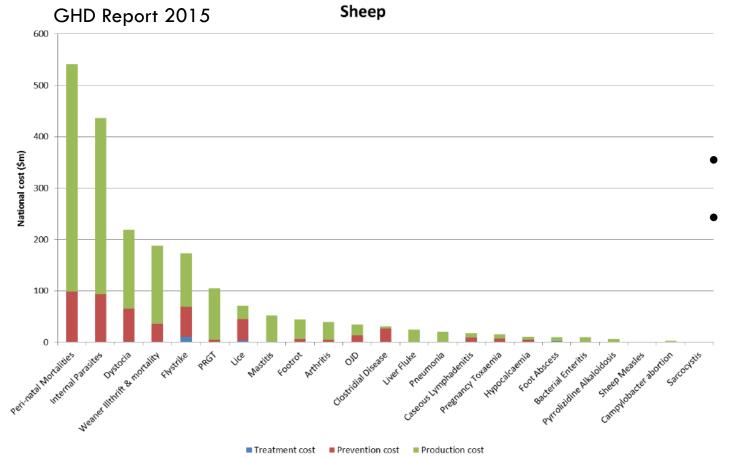
(Farming is FUN)







Relative Disease Importance



Not region specific Not farm

specific



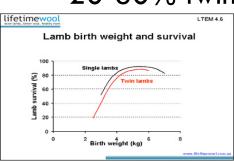




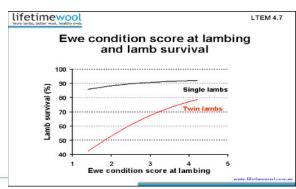


- Perinatal lamb mortality
- Difficult, costly, industry risk
- Best practice- ewe nutrition, scan, differentially manage singles and twins, shelter, nutrition, Merinos!
- Surveys in Riverina show even with best practice, 10% singles,

20-30% twins.



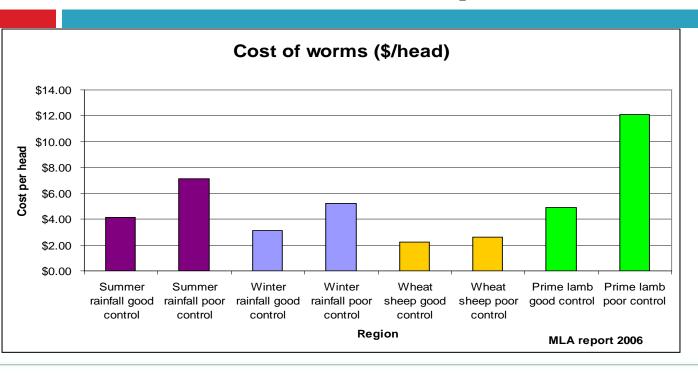
3. Manage ewes for lamb survival







Worms have a major financial impact



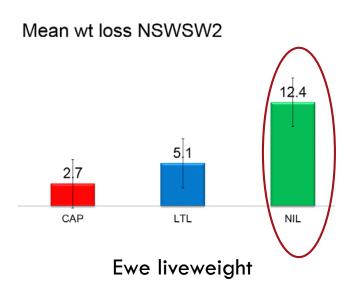
- 80-90% of loss associated with lower production
- Lower liveweight and yield ~ 2 kg carcase weight
- Higher death rate and lower fertility
- Lower fleece values







Local data



Effect on lamb weight

Wt loss	11-Sep		
CAP	-0.4		
LTL-prelamb	0.8		
NIL	-4.9		





Worms

- Major cost to sheep producers
- □ Pasture survival favoured if mild, cool, wet
- Balancing act- worm control + drench resistance
- Need to control worms!











Worm Control – The System

- Summer drench(es) for all ewe and lamb Merino flock
- If prime lambs, cropping, cattle, may have different needs eg prelamb drench, depending on season, time of lambing
- Most lambs need a drench by 12-16 weeks
- Monitoring is best way to know
- Think about grazing options / strategies

4. Monitor young sheep for worms







Monitoring (WFEC)

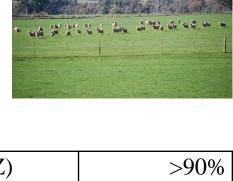
- □ Takes 17-21 days for ingested worm to lay eggs
- So WFEC tells you what was happening 3-4 weeks ago
- Best in younger sheep, or to assess contamination
- Not very useful in adult sheep (unless there is a problem or with Barber's Pole (Haemonchus))





Drench Resistance

- Widespread
- Individual flock test (FECRT) only way to know
- Can check 10-14 days post drenching
- Drenching when low pasture contamination is real problem.
- □ No ideal answer (dose to correct weights, check gun etc)
 - leave some sheep undrenched
 - Leave some mobs undrenched
- 5. Think when drenching what the effect is!



White (BZ)	>90%
Clear (Lev)	>80%+
Combinations	>60%
MLs (mectins)	30-80%





Which drench to use?

- □ Effectiveness, cost, time of year
- Long-acting versus short acting
- Capsules
- Long duration drenches
- NZ work shows sensible use of effective drench is key







Trace Elements

- Usually not a problem, easy to fix
- Se now in most drenches (watch dose in vaccines)
- □ Test in winter (copper), spring (cobalt, selenium)
- Se test usually mimics status 90 days earlier blood
- □ Energy (+protein) and worms more likely or spread joining!

6. Monitor for trace elements in winter / spring

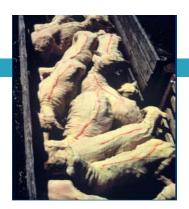




Biosecurity

- □ Lice , Footrot
- □ OJD, liver fluke(?), Drench resistance (?)
- □ Brucellosis
- Look at what you have and control/ eliminate them
- Look at what you don't have avoid them
- Need a biosecurity plan







Biosecurity: Keep important diseases out

- Assess the disease risk: sheep health statement
- Drench new arrivals with a triple combination drench
 - WEC plus fluke
- Run new sheep in quarantine over spring
- Invest in secure boundary fences

Attached	to accompar	ying NVD/Waybill No.			(Ve	rsion 2 - Ma	ıy 2009
SECTION 1 - CONSIGNMENT INFORMATION)(SECTION 3 - FOOTROT			
Owner of theep Property/place where the journey commenced (full address) State		 Have the sheep in this consignment been observed for, and any suspect sheep examined for, signs of FOOTROT during the past 14 days? 		s? Yes 🗆	No 🗆		
		8. To the best of your knowledge, are the sheep in this consignment free of VIRULENT FOOTROT?			No 🗆		
	Property Identification Code (PIC) of this property:			9. To the best of your knowledge, are all sheep and goats on the consignor's property free from VIRULENT FOOTROT? Yes			No 🗆
Number	Year born (mest, if known)	Description (is Breef, sex sed type)	Identification (eg. PSC based on ear tag if different to show)				=
-			Militaria)	SECTION 4 - OTHER HEALTH INFORMATION			
				10. Is the Book accredited under a OVINE BRUCELLOSIS ac		Yes 🗆	No 🗆
				Flock Accreditation No:			
				Expiry Date:/			
				11. Has there been any evidence	of sheep LICE at, or since, the last shearin	g? Yes 🗆	No 🗆
Please an	sch a list (f more	information is required.		Date of last shearing (if know	a):/		
$\overline{}$	SECTION 2 - OVINE JOHNE'S DISEASE (OJD) 1. This consistent has an ABC score of trefer and complete overleaft		12. Treatments	Product	Date of last to	reatment	
1. This ee			External Parasite Treatment			/	
Г	7 [Drench			
Com	Category A - Category B - Category C - Category D =		Vaccination other than OJD				
		conditi) (Vaccine conditi) (Cort. low		Other			J
2. Were a	I these consigner	sheep born on the above property?	Yes O No O				=
If no, d	ate introduced	/ AI	BC score at time of introduction:	SE	CTION 5 - DECLARATION		
sheep b	een introduced it	ABC score than the consigned no the Book in the last 2 years? Ye		As the owner and for person responsible for the husbanday of the sheep in this consignment, I declare that the information in this statement is true and correct.			
		t ABC score of introductions?	J	Signed:	Date	/	
How m introdu	any different sou ced to the consig	rces of sheep have been not's property in last 2 years? Non-	e 🗆 1-5 🗎 6+ 📗 Rama only 🗎	Name (print):			
5. Are m;	of the sheep in	this consignment terminal "T" tag lan	dos? Yes 🗆 No 🗆	Contact phone:			
6. Are these consigned sheep from a SheepMAP flock? Yes □ No□			Persons making false statements may be Keble under feir making				

NATIONAL SHEEP HEALTH STATEMENT

Have a WRITTEN plan









Flies

- □ Timing of crutching
- □ Be aware of conditions warm, moist
- □ Early treatment most effective

Lice

Mustering, treating, monitoring!

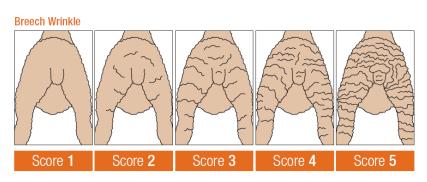


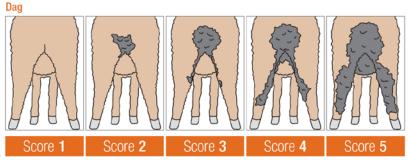




Long term management: Genetics

- Worm egg count
 - Lower worm egg counts
 - Less drenching
- Breech wrinkle
 - Reduce below score 2
 - Reduce breech strike
- Dag score
 - Independent of WEC









Long term management: Genetics

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- Include as part of your selection criteria
- □ Slow progress but cumulative gains
- Most progress dependant on ram supplier
- Must balance important economic traits
 - Meat production traits
 - Wool production traits
 - Incorporate in selection index
- 9. Genetics for long term cumulative gains











The rest



- Campylobacter- think about vaccination?
- OJD- vaccination, grazing management
- Bacterial enteritis- sulphadimidine, stress
- □ Foot abscess wet muddy yards, late preg twins, rams
- Preg tox from foot abscess, other stresses (nutrition), add NSAID into treatment?
- Hypocalcaemia- more common, watch lush grazing (winter crops), use licks?







Key points

- 1. Almost all health problems associated with management
- 2. If good season, diseases the problem!
- 3. Manage ewes for lamb survival
- 4. Monitor young sheep for worms
- 5. Think when drenching what the effect is!
- 6. Monitor for trace elements in winter / spring
- 7. Keeping out diseases is always cost effective! Have a plan.
- 8. Prevention is better than cure.
- Genetics for long term cumulative gains







Sign posts

- Making More From Sheep
 - Module 11 Healthy and contented sheep
- □ Paraboss https://www.paraboss.com.au/
- MLA and AWI websites
- Your network of advisers

Pain Relief FAQs







