





Healthy and Contented Sheep

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EVENT SUPPORTERS:





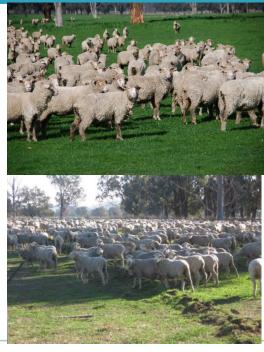
SHEEP CRO

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







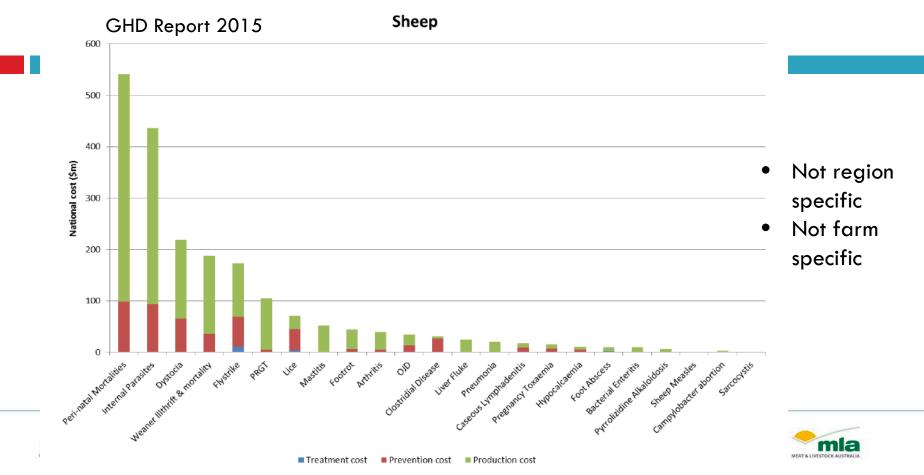
Effect of Season

- 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



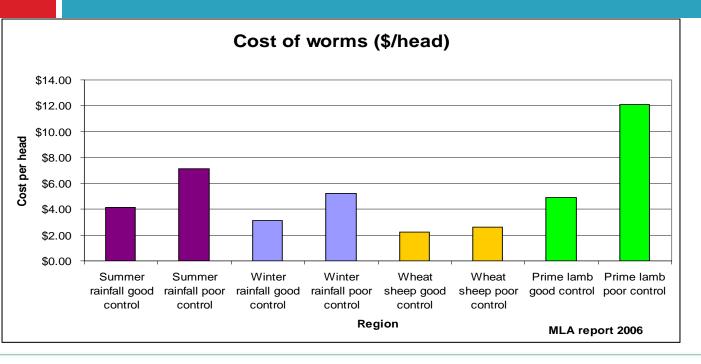


Perinatal lamb mortality

- 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,



Worms have a major financial impact

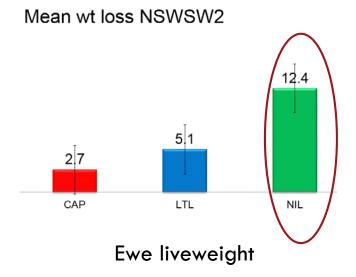


- 80-90% of loss associated with lower production
- Lower liveweight and yield ~ 2 kg carcase weight
- Higher death rate and lower fertility
- Lower fleece values





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))









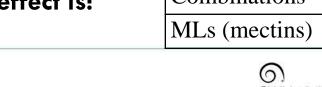
Drench Resistance

Widespread

Making More From Sheep

- 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
- \Box Look at what you don't have avoid them
- Need a biosecurity plan

7. Keeping out diseases is always cost effective! Have a plan.





Biosecurity: Keep important diseases out

Have a WRITTEN plan

- □ 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

	SECTI	ON 1 - CONSIGNMENT INFO	RMATION	SECTION 3- FOOTROT
Orease of takep				7. Have the sheep in this consignment been observed for, and any suspect sheep examined for, sign of FOOTROT during the post 14 days? Yes□ N
				S. To the best of your knowledge, are the sheep in this consignment face of VIRULENT FOOTBOTT Yes No.
				To the best of year knewledge, are all sheep and goats on the comigner's property free from VIRULENT FOOTROT? Yes No
Number		Description (is Breat, say and type)	Identification (eg. PDC based on ear tag if different Neabers)	SECTION 4 - OTHER HEALTH INFORMATION
				10. Is the flock accredited under a government administered OVINE BRUCELLOSIS accreditation scheme? Yes
				Flock Accreditation No:
				11. Has there been any evidence of sheep LICE at, or since, the last shearing? Yes 🗆 No
Nease atta	ach a list (f more	information is required.		Date of last shearing (if known):
Categ	nsignment has an pary A - Cate	ON 2 - OVINE JOHNE'S DISE. ABC sette of: (refer and complete over gary B - Category C - Category (rada) (Taciac anda) (Con two site)	D =	12. Treasmean Product Date of lost restauer Druch Druch Vaccination One
		sheep bom on the above property?	Yes No	SECTION 5- DECLARATION
	hear of a lorner &	BC score than the consigned to the Bock in the last 2 years? Yes		As the owner and (or person responsible for the hurbandry of the sheep in this consignment, I decla that the information in this statement is true and correct. Signed:
lf no, di k. Have sh sheep b	een introduced in what is the lowest	ABC score of introductions?		
lf no, di k. Have sh sheep b If yes, u k. How m	een introduced in what is the lowest any different sou	ABC score of introductions?	1-5 6- Ramo only 🗌	
lf no, di Mave sh sheep b If yes, v Mow m introduc	een introduced in what is the lowest any different sou ced to the consign	rees of theep have been		

NATIONAL CHEED HEALTH CTATEMENT







Flies

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

Lice

Making More From Sheep

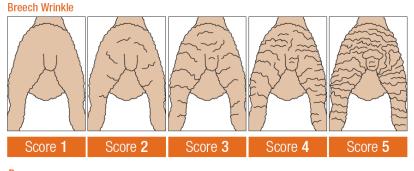


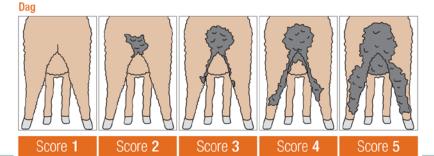
□ Mustering, treating, monitoring!



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









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

Long term management: Genetics









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

- Almost all health problems associated with management 1.
- If good season, diseases the problem! 2.
- Manage ewes for lamb survival 3.
- Monitor young sheep for worms 4.
- Think when drenching what the effect is! 5.
- Monitor for trace elements in winter / spring 6.
- Keeping out diseases is always cost effective! Have a plan. 7.
- Prevention is better than cure. 8.
- Genetics for long term cumulative gains 9.







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

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Tri-Soller#, a topical

local anaesthetic and antiseptic gel sprav.





Buccalorsic* being applied to the internal. Nummuta* prototoe applicator

PAIN RELIEF

Metacam 20⁴, a subcutaneous injection



liceboss



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