



Healthy and Contented Sheep Andrew Whale BVSc/BVBio





**EVENT SUPPORTERS:** 





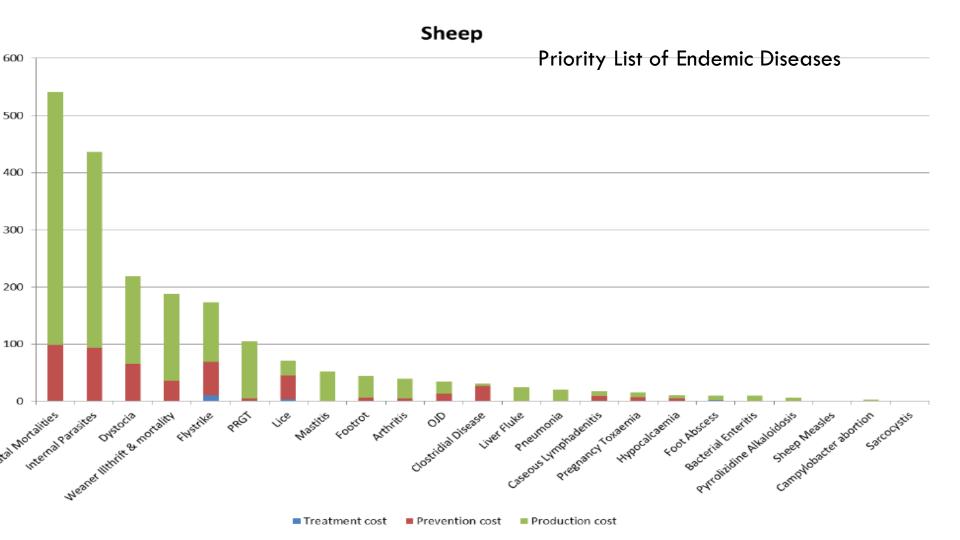


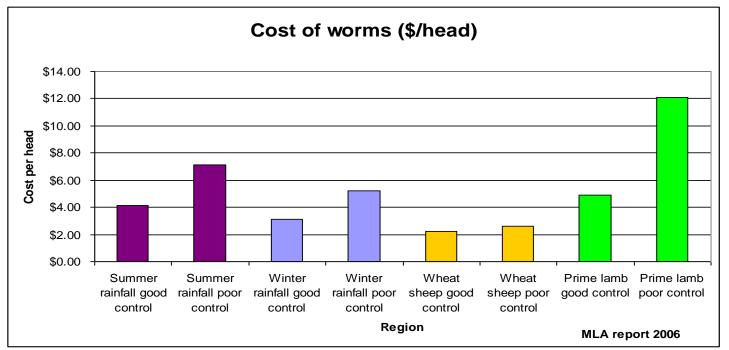
# Take Home messages

- 1. Quarantine drench needs 4 actives Triple combination + another chemical
- 2. Know you are using an effective drench
- 3. Worm Egg Count is only way to time drenches effectively
- 4. Footrot and lice management starts with your biosecurity
- 5. Options for pain relief for mulesing and marking
- 6. Footrot vaccine A part of the eradication program
- 7. Sheep mortality rates are in your hands









- 1. Most costs associated with lower production
- 2. Reduced liveweight and yield
- 3. Higher mortality
- 4. Reduced fertility
- 5. Reduced wool cut





# **Effectiveness of Single Active Chemicals**

Chemical	% of properties that these actives are effective on		
BZ	9%		
Lev	57%		
lvermectin	25%		
Abamectin	90%		
Moxidectin	80%		

Data taken from the most recent 15 drench resistance tests done by Livestock Logic in local Hamilton region.

Effective if >95% reduction in worm egg count





## **Know Your Own Status**

#### Which Property below are you

Chemical	Property A	Property B
BZ	76%	83%
Lev	98%	92%
lvermectin	99%	94%
Abamectin	100%	98%
Moxidectin	100%	95%



# Testing Your Drench Efficacy

#### Full Drench Resistance Test is the Gold standard

- Recommended every 3 years
- Best way to know actual effectiveness of all products

#### **Post Drench Tests**

- Everyone should do this at least twice a year
- Test 10 individuals 10-14 days after drenching
- Times to use this strategy
- Winter, summer and after long acting products are used





# **Quarantine Drenching**

#### Needs 4 actives

- Zolvix + Triple Combination or Q drench
- Startect + BZ/Lev
- NAPfix + Lev

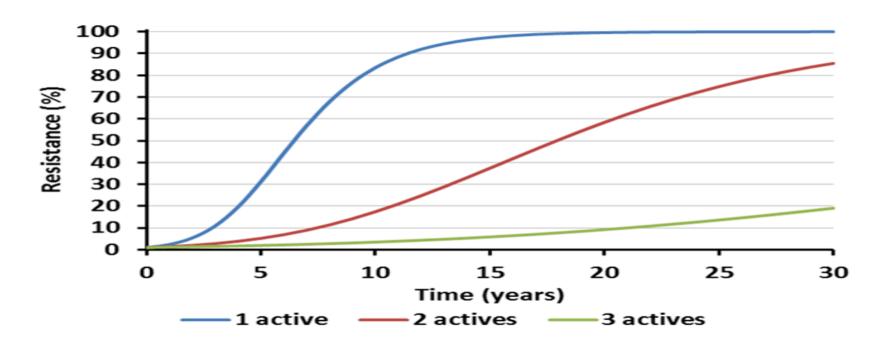
All sheep purchases immediately on arrival, ideally empty them out for 24 hours in yards or shearing shed and then move to a dirty paddock to expose them to worms on your farm

This dilutes the surviving worms





# Why we use drenches in combination





# **Summer Drenching**

Getting the timing correct is a combination of

- Worm Egg Count Monitoring
- Watching for the pasture to hay off and/or faeces to firm up

#### Why we want faeces to harden up

- 50 X higher larvae survival from firm faeces compared to sloppy
- Eggs excreted in sloppy faeces do not last the summer
- Eggs/larvae from hard faeces last >6months
- Aim is to minimise the amount of eggs/larvae that will emerge post autumn break from firm faeces





# Long Acting Drenches

Livestock Logic is currently carrying out a trial to determine production benefits from capsule versus short acting drench pre lambing
We all know there are benefits from long acting products
BUT

They increase pressure on drenches

#### **THEREFORE**

How can we use them smartly High risk mobs

- 1. Twin bearing
- 2. Light condition score
- 3. Low FOO (Feed On Offer)
- 4. Maidens





# Why Worm Egg Count

How else do you know if sheep need a drench???

- Wait for clinical disease Scouring, ill thrift
- Then already missed the boat
- If drench without a WEC then unnecessary use of chemical
- If summer, you have no idea the level of contamination that paddocks are building up without an egg count

# Interpretation of WEC

- They are 3 weeks old
- It takes 17-21 days for ingested larvae to lay eggs in the faeces so it is a guide to the worm ingestion levels >3 weeks ago
- Must consider this, especially if sheep were drenched in last 5 weeks

## Lice and Footrot

These are diseases caused by poor biosecurity practices
Before attempting ERADICATION change your practices

Biosecurity of property
Quarantine practices
Improve boundary fencing
Work with neighbours, everyone is p

Work with neighbours, everyone is part of the problem











### Lice and Footrot

## These are diseases caused by poor biosecurity practices

If you are a trader then expect to have issues

**BUT** 

Quarantine stock for 30 days during footrot spread conditions Inspect thoroughly for lice







#### **Footrot**

Footrot vaccine is available It is a custom made vaccine

#### Process

- Requires a vet to culture lesion
- Syd Uni lab determines what serogroups of Footrot there are on your property
- Virulence is then determined
- Vaccine developed within a fortnight







#### **Footrot Vaccine**

#### Costs

- \$1500-\$3500 for culture depending on number of serotypes
- Vaccine costs \$1.30 if 1 serotype (Unlikely)
- \$2.50 if 2 serotypes

The vaccine will not eradicate footrot on its own

It will minimise the cases therefore reducing the effects of footrot

#### This means

- Less production loss
- Less animals that are dirty on first inspection less culls and less time foot trimming





#### **Footrot Vaccine**

There is the potential to utilise the vaccine as a control measure

Eg Annual vaccination

To recover cost of 1 dose you only need a 1kg liveweight response

Easily achievable in lambs with bad feet in the spring

Vaccinating ewes pre lambing gives reasonable coverage of lambs throughout the spring

WATCH THIS SPACE





# LPA Requires a Biosecurity Plan for all Properties by 1<sup>st</sup> October 2017

#### Must address each point:

- (a) Manage and record the introduction and movement of livestock to minimise spreading infectious diseases
- (b) Minimising the potential for property contamination from people and plant
- (c) Prevent and control animal diseases on-farm by regularly monitoring and managing livestock.



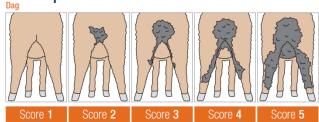
#### Genetic Selection for Welfare Traits

#### **WEC**

Reduced worm egg count means fewer drenches required

#### **Dag Score**

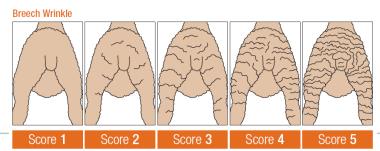
Independent of WEC



Must use both traits above, as otherwise potential to have negative affect on the other trait due to hypersensitivity scours

#### **Breech Wrinkle**

Reduce breech strike







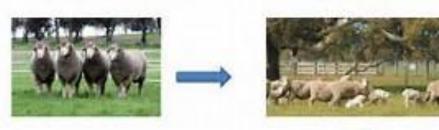
#### Genetic Selection of Welfare traits

Use in balance with important economic traits

- Growth
- Wool cut and micron
- Fertility

• Get the focus on the right ram choice, that is where the big gains are to be made

# Buying the right rams for your flock?









# Pain Relief Options for Mulesing

Not is Pain relief an option

Which option for pain relief are you using – Talk to your local vet to discuss options

#### Trisolfen

- Topical local anaesthetic, antiseptic and adrenaline
- Gives 24 hour pain relief

#### Metacam

Injectable anti-inflammatory and gives ~48 hrs pain relief

#### Buccalgesic

Anti-inflammatory administered into the gums (oral) gives ~48hrs relief







#### Local Metacam Data

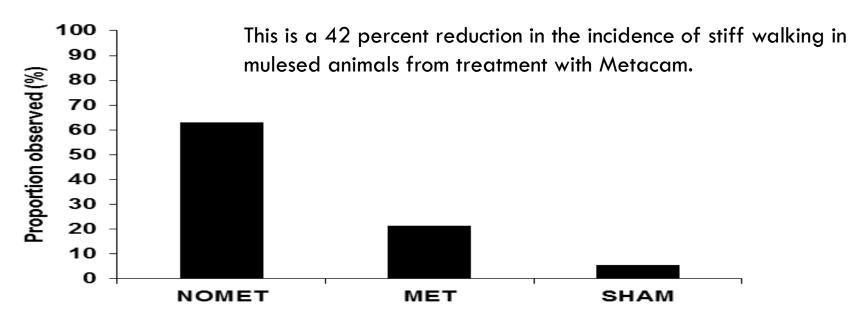


Figure 1. Predicted means of the treatments for stiff walking.



# **Ewe Mortality Rates over Lambing**

You are in control of these

# Compare the pair

	Pro	Property 1		Property 2	
	Sheep Numbers	% Mortality	Sheep Numbers	% Mortality	
Mature Singles	576	4.0%	1262	1.0%	
Mature Twins	1109	3.8%	1974	1.3%	
Ewe Lamb Singles	533	2.8%	623	2%	
Ewe Lamb Twins	536	3.7%	689	1.3%	
Cost/Ewe	2754	\$10/ewe	4548	\$3.90/ewe	



Tearing of the Vaginal Wall With Intestinal Prolapse in Pregnant Ewes



Making More From Sheep



Foot Abscess causes secondary preg tox









Dystocia

Cast ewes

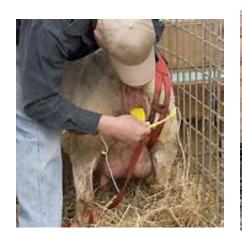




# Vaginal Prolapses Pre Lambing













Prolapses

Vaginal tears

Foot abscess

Dystocia





# The real cause is overfat and overfed sheep

We must run crossbreds and composites leaner and meaner





# Vaginal and Rectal Prolapses

Predisposed by tail removal to short

# **Incorrect tail length**



# Tail should go to the tip of the vulva



Get the length right at lamb marking





# Sign Posts

- Making More From Sheep
  - Module 11 Healthy and contented sheep
- Paraboss <a href="https://www.paraboss.com.au/">https://www.paraboss.com.au/</a>
- MLA and AWI websites
- Your network of advisers

#### Pain Relief FAQs

https://www.wool.com/globalassets/start/on-farm-research-anddevelopment/sheep-health-welfare-and-productivity/sheep-health/breechflystrike/latest-publications/gd2368-btb-70-march-2017 03-painrelief optim.pdf











Boss is a suite of three products developed for the management of blowflies, worms and lice. The WormBoss, FlyBoss and LiceBos es are sources of detailed management information and regional programs that will assist in managing the three major parasite risk for sheep and worms in goats. They have been developed by expert panels of parasitologists and veterinarians from across Au-

Subscribe to ParaBoss News

Find ParaBoss on Facebook









There has been large scale adoption of post-operative pain relief (Tri-Solfen\*) during the past ten years. New pre-operative products Buccalgesic\* and Metacam 20\* were released in 2016. Here we provide answers to some frequently asked questions about pain relief









