

# meatup FORUM

For the latest in red meat R&D

# Improving your parasite programs with ParaBoss

Megan Rogers

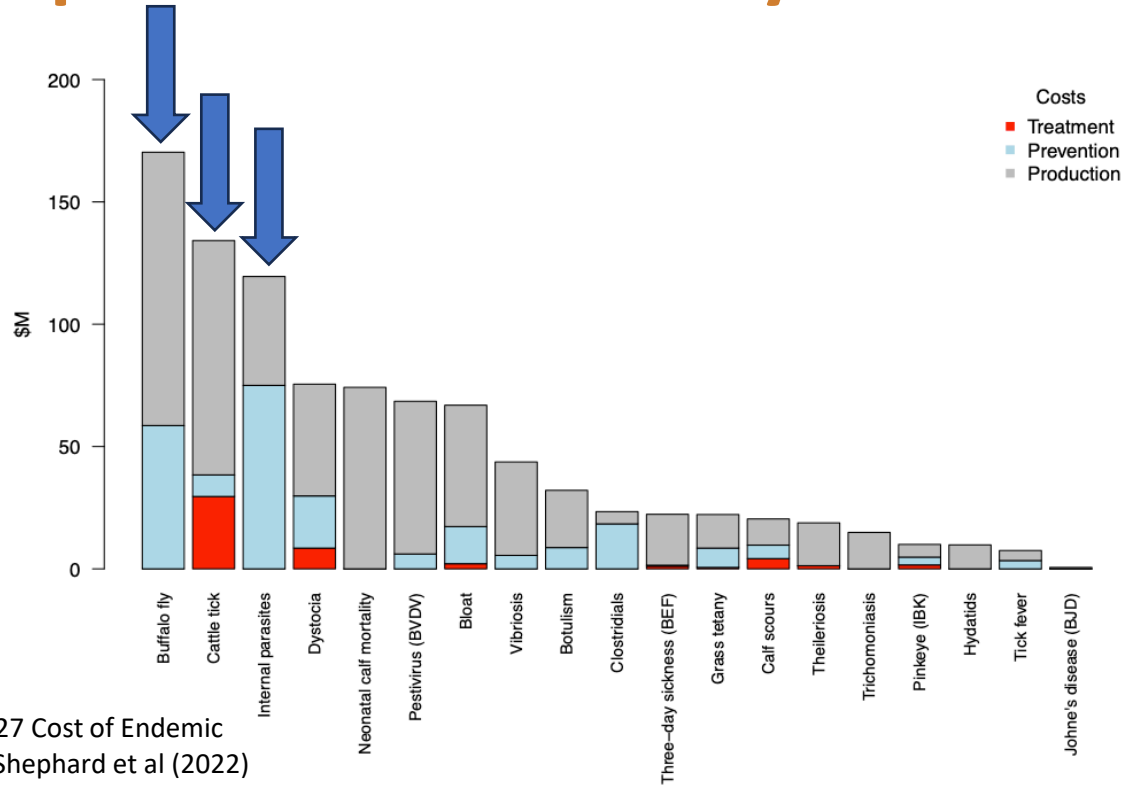
ParaBoss Extension

meatup  
FORUM

 **paraboss**

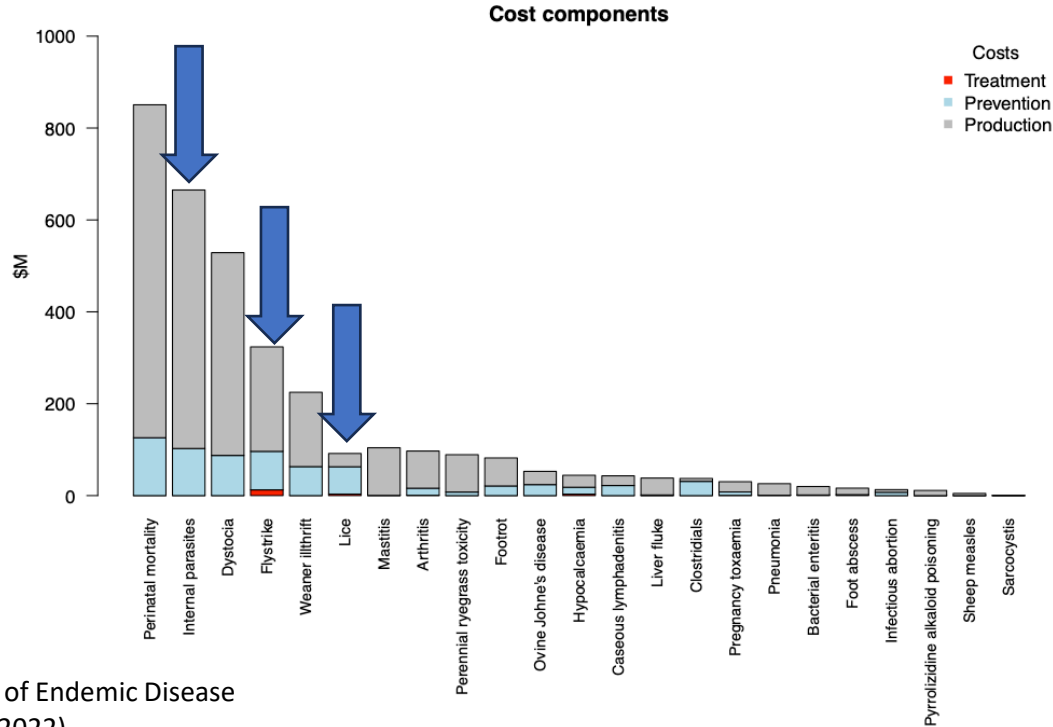
 **mla**  
MEAT & LIVESTOCK AUSTRALIA

# Cost of parasites to industry – cattle



Source: MLA B.AHE.0327 Cost of Endemic Disease Update 2022. Shephard et al (2022)

# Cost of parasites to industry – sheep



Source: MLA B.AHE.0327 Cost of Endemic Disease Update 2022. Shephard et al (2022)

# Why improve parasite management?

- Improve production outputs – wool, meat
- Decrease cost of parasites to your operation
- Improve the quality of your production outputs
- Reduce the impacts and/or onset of chemical resistance



# Who/what is ParaBoss?



Powered by ParaBoss



Powered by ParaBoss



Powered by ParaBoss



Powered by ParaBoss



a joint initiative of



AWI Australian Wool Innovation Limited



# A web - based suite of information and tools

- Completely independent
- Monthly e-newsletter – the Boss Bulletin
  - Sign up from the website <https://paraboss.com.au/register/>
- Monthly webinars
- Social media
- Online tools and resources



# Producer workshops – coming soon!

- WormBoss for sheep
- ParaBoss for cattle – northern and southern





# ParaBoss tools

- Product search tool across all Bosses
- Species specific tools
  - 3 WormBoss
  - 6 FlyBoss
  - 7 LiceBoss

Click on tools button to take you to all the ParaBoss tools



[About](#) [News and media](#) [Events](#) [Find an advisor](#) [WEC QA program](#) [Regional Programs](#)



# Tools



Feedback

## Every tool at the tip of your finger

From across WormBoss, LiceBoss, and FlyBoss: the ParaBoss tools you rely on have a fresh new look!

[BROWSE ALL TOOLS](#)

# Tools



## LiceBoss Treatment Decision Guide

The LiceBoss Treatment Decision Guide will assist your decision on whether your sheep should receive a lice treatment, types of treatment and associated management practices



## Product Search

Search for registered parasite treatment products



## Drench Decision Guides

The Drench Decision Guide will assist your decision on whether to drench now, whether to use a persistent drench and when to WormTest again



## Drench efficacy calculator

Enter your drench efficacy results to predict efficacy of combinations



## Flystrike Risk Simulator

A comprehensive program that allows you to compare two different management systems



## Flystrike Maps

These maps show the Ag360™ predictions for flystrike and extreme weather risk across Australia for the next 5 days



## Wool Res (FlyBoss)

Estimate the expected pesticide residue on wool at shearing



## Lice Treatment for Breeding Ewes and their Lambs

For use after you have decided to treat breeding ewes to

# Tools



## Wool Res (FlyBoss) [↗](#)

Estimate the expected pesticide residue on wool at shearing



## Lice Treatment for Breeding Ewes and their Lambs

For use after you have decided to treat breeding ewes to suggest the type of treatment for the ewes and consider if their lambs may also require treatment



## Long Wool Lice Tool

This program is for use when mobs are affected by lice and may need treatment before shearing



## Sheep rubbing tool

Determine the cause of rubbing in your sheep



## Short Wool Lice Tool

Assess whether your sheep should be treated after shearing



## Treatment Factors Tool

Analyse your method of treatment and identify issues that could lead to treatment failure



## Wool Res (LiceBoss) [↗](#)

Estimate the expected pesticide residue on wool at shearing



## Optimise flystrike treatment [↗](#)

Check flystrike risk and optimise treatment time



## Compare flystrike management options [↗](#)

Compare two management systems for flystrike control

# Product search tool



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# Product search tool

- Find a registered product that suits your needs
- Check up on withholding periods, Export Slaughter Intervals, and other key label information
- Read (look up) the label at your desk
- Work out how much product you may need

Parasite and Animal



Product Name



Groups and Actives



Application Methods



Length of Protection



Withholding Periods



### Your search criteria

- Parasite and Animal: Worms in Sheep
- Targets any of the Parasites: Barber's pole worm or Scour worms
- Chemicals: Monepantel.

Sort By

Product Name

Ascending

Sort

⌵ Show All

⌶ Hide All

Oral drench (2 Products)





Oral drench (2 Products)

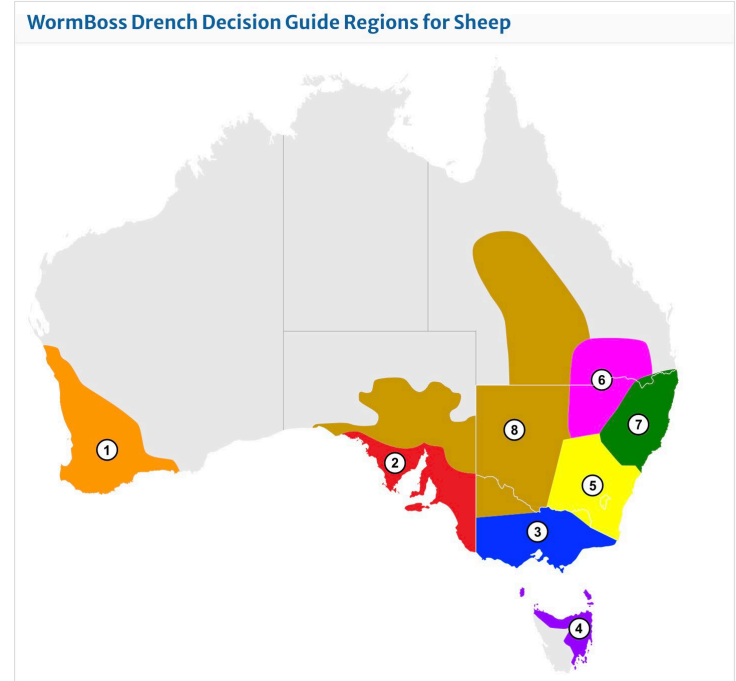


Zolvix		(View Label)
Chemical active and group <a href="#">?</a>	Monepantel (AD)	
Meat WHP	14 d	Milk WHP Yes <a href="#">?</a> ESI 14 d
Resistance <a href="#">?</a>	<a href="#">! View Resistance Notes</a>	
Treats	Worms	
<a href="#">More Details</a> ▼		

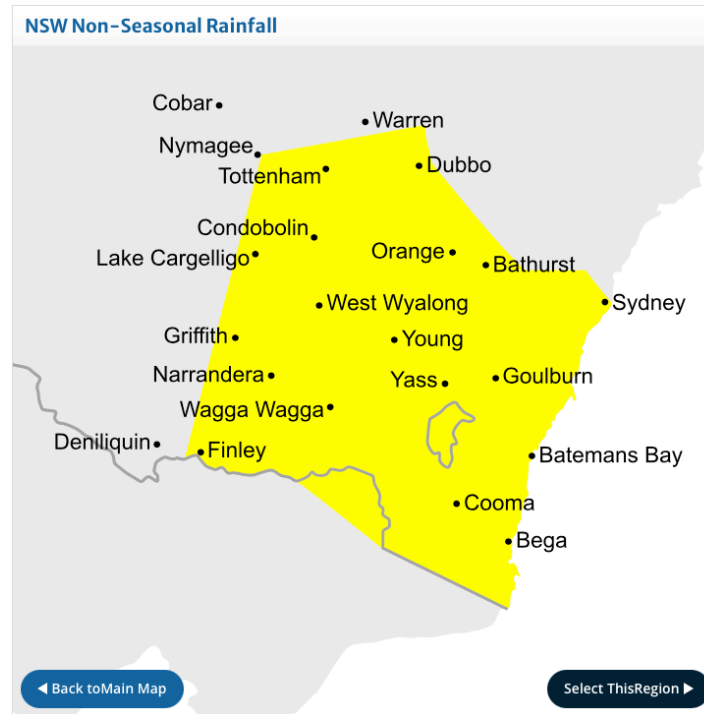
Zolvix Plus		(View Label)
Chemical active and group <a href="#">?</a>	Abamectin (ML), Monepantel (AD)	
Meat WHP	14 d	Milk WHP Yes <a href="#">?</a> ESI 21 d
Resistance <a href="#">?</a>	<a href="#">! View Resistance Notes</a>	
Treats	Worms	
<a href="#">More Details</a> ▼		

# Drench decision guides

- Sheep and goats
- Select region
- Enter information that applies to the current situation
- Regional best practice programs developed by parasitologists



# Drench decision guide



# Drench decision guide

- Are you above or below threshold?
- If a drench is required – best practice protocols
- Notes on resistance management
- Available online or hard copy

In the table below, find the worm egg count threshold for the class of sheep and the type of *WormTest* result you have.

Class of sheep or time of year	Worm egg count (epg) thresholds	
	No culture OR less than 60% barber's pole	Greater than 60% barber's pole
Ewes (dry to mid-pregnancy) or wethers	250	400
Ewes pre-lambing	150	250
Sheep under 18 months or rams	150	300
Time of 1st or 2nd summer drench	100	100

**Liver fluke:** This requires a different test than for roundworms. Any positive liver fluke test is significant and requires action: treatment and grazing management.

***Nematodirus*** (thin-necked intestinal worm): This can cause scouring and deaths with very low or zero worm egg counts (particularly in weaners), and after summer storms. Seek professional advice.

What is your worm egg count in relation to the threshold value?

- My worm egg count is equal to or higher than the threshold value
- My worm egg count is below the threshold value

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# Drench decision guide - report



## WormBoss *Drench Decision Guide* Report

### Your Selections

**Q. Are these sheep showing signs suggesting a worm infection or have they been in high worm-risk conditions (or are you returning to this from a previous recommendation)?**

A. I am returning with a worm egg count from a previous recommendation

**Q. I have a result.**

A. My worm egg count is equal to or higher than the threshold value

### Your Recommended Action

Treat now with a short-acting drench<sup>[1]</sup> effective against scour worms<sup>[2]</sup> (and barber's pole worm if there were greater than 60% barber's pole worm in the *WormTest* culture results). In 4–6 weeks proceed from Question 1 of the *Drench Decision Guide* with this mob. Consider a long-acting treatment for weaners in particular if worm challenge is high and low worm-risk paddocks are not available.

Follow the guidelines<sup>[1]</sup> below for long-acting drenches. After drenching, do a *DrenchCheck-Day10* if this drench group has not been tested in the last year.

This recommendation should be read with the information provided below.

Review available drenches with the [WormBoss drench search](#)

# Drench decision guide - report



## <sup>2</sup>Signs of worms

Closely examine for signs of worms, yard or hold sheep against a fence. Catch and examine 5—10 animals.

**Scour worms** (black scour worm [*Trichostrongylus* species]; brown stomach worm [*Teladorsagia circumcincta*]; and others [incl. *Nematodirus*]): dark scours; weight loss; death.

**Barber's pole worm:** anaemia (pale inside eyelids and gums); 'bottle jaw' (swelling under the jaw); lagging or collapse when mustered; death.

NOTE: Other diseases can cause similar signs. Consider seeking veterinary advice.

# Drench decision guide

## - report



### <sup>1</sup> Guidelines for worm control treatments to slow drench resistance

#### When giving all treatments

Follow the product labels. Dose to the heaviest sheep in the mob or groups. Calibrate equipment to ensure the right dose is delivered with the right procedures. Do not mix drenches unless the label states they are compatible. Check withholding periods and export slaughter intervals.

#### Choosing treatment options on your property

Use these 4 principles together, where possible:

1. Use drenches most effective on your property; ideally those shown to reduce worm egg count by at least 98%. If drench effectiveness is unknown, conduct a *DrenchCheck-Day10* after drenching.
2. Use a combination of 2 or more drench groups.
3. Rotate drench groups each time a mob is drenched and for each paddock.
4. Use short-acting treatments.

For more details read the drench resistance section in the WormBoss Worm Control Program.

#### Check effectiveness of long-acting treatments

*WormTest* with a culture at 60 and 90 days after treatment.

If *WormTest* results are 100 epg or above, drench resistance is likely. Drench immediately with an effective short-acting drench with a different active to the long-acting treatment.

Seek professional advice on the further use of this product.

If *WormTest* results are less than 100 epg, then treat with an exit drench at 100 days (15 weeks) after the long-acting treatment was given.

Seek professional advice if *WormTests* are positive at or before 60 days.

# Drench decision guide

## - report



### Primer and exit drenches

These help to slow drench resistance to persistent treatments.

### Protection period of persistent treatments

Mid-length: 7—28 days. Long-acting: 91—100 days.

NOTE: The protection period against susceptible black scour worm with a long-acting moxidectin injection is 49 days.

### Use a primer before long-acting treatments

Primer drenches (effective short-acting treatments that do not include the active in the long-acting treatment) should be given concurrently with all long-acting treatments.

### Use an exit drench after all mid-length and long-acting treatments

- Treat with an 'exit drench'—an effective short-acting treatment that does not include the active in the mid-length or long-acting treatment. Also called a 'tail-cutter' drench.
- Give this at 6 weeks (mid-length) or 15 weeks (long-acting) after the treatment was given.
- *WormTest* 4—6 weeks after the exit drench.

Anytime that you are concerned that the persistent treatment is not providing protection, *WormTest* immediately and seek professional advice regarding drench resistance.

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Restart

Print



# Take home messages

- Use the ParaBoss suite of tools to help dial up your parasite management program
- Join the ParaBoss community and stay up to date on the latest information
- Every season will be slightly different to the previous one – manage parasites according to what’s before you – not behind you!
- Know your enemy - Test – don’t guess!
- Right product, right dose, right time
- Follow up treatments with a check - eg drench check
- Use the tools available – understand what tools you have in your toolbox

# Tools and resources

- ParaBoss website <https://paraboss.com.au>
- ParaBoss tools <https://paraboss.com.au/tools/>
- Product search tool <http://tools.liceboss.com.au/sheep-goats/treating/products.php>
- WormBoss Drench Decision Guides <https://tools.wormboss.com.au/sheep-goats/tests-tools/drench-decision-guide.php>
- Flystrike risk simulator <https://flyboss.com.au/flystrike-tools/flystrike-risk-simulator-downloadable/>