

# Parasite management for cattle, sheep and goats, and ParaBoss update

Matthew Playford  
Dawbutts Pty Ltd







Blood loss

Irritation

Reduced grazing

Reduced ADG

Reduced lactation

Secondary infections

# Buffalo fly damage



*Stephanofilaria*  
CQ incidence

<b>1982</b>	<b>2.9%</b>
2004	29-57%



ROTATE chemicals

## Search for registered parasite treatment products

Use one or more of the search options below to limit the results

### Parasite and Animal

Search for products that target

**Fly on Cattle**

Please select one or more parasites below.



Buffalo flies



Nuisance Flies

### Product Name

**Groups and Actives**



**Application Methods**



**Length of Protection**







**Withholding Periods**





The Resistance Level symbol and colours broadly indicate the likelihood of the targeted parasites being resistant to the active/s in the product. However, this will vary from property to property.

 Very low  Some  Moderate  High

 Search Again

#### Your search criteria

- Parasite and Animal: Fly on Cattle
- Targets the Parasite: Buffalo flies

Sort By

Product Name

Ascending

Sort

 Show All

 Hide All

Back rubber (3 Products)



Dip (2 Products)



Ear tag (4 Products)



Flystrike dressing (Liquid) (1 Product)



Pour on/spray on (49 Products)



Spray (5 Products)



### Co-Ral Plus Insecticide Ear Tag

(View Label)

Chemical active and group <a href="#">?</a>	Coumaphos (OP), Diazinon (OP)		
Meat WHP	0 d	Milk WHP 0 d	ESI 0 d
Resistance <a href="#">?</a>	<a href="#">! View Resistance Notes</a>		
Treats	Fly		


[More Details ▾](#)

### Y-TeX Python

(View Label)

Chemical active and group <a href="#">?</a>	Zeta-cypermethrin (SP)		
Meat WHP	0 d	Milk WHP 0 d	ESI 0 d
Resistance <a href="#">?</a>	<a href="#">! View Resistance Notes</a>		
Treats	Fly, Lice, Tick		

[More Details ▾](#)

Chemical active  
and group 

Zeta-cypermethrin (SP)

Meat WHP


0 d

Milk WHP


0 d

ESI

0 d

Resistance 

**This note applies only to fly on cattle.**

 Widespread

Treats

Fly, Lice, Tick

Including

Biting lice, Buffalo flies, Paralysis tick

Protection




Buffalo flies up to 16 weeks, paralysis ticks up to 6 weeks.

Manufacturer

Y-TEX

# Co-Ral Plus Insecticide Ear Tag

[\(View Label\)](#)

Chemical active and group 	Coumaphos (OP), Diazinon (OP)
Meat WHP	0 d <span style="border: 1px solid gray; padding: 2px 10px;">Milk WHP</span> 0 d <span style="border: 1px solid gray; padding: 2px 10px;">ESI</span> 0 d
Resistance 	<p><b>This note applies only to fly on cattle.</b></p> <p> Present, but varies between properties</p>
Treats	Fly
Including	Buffalo flies
Protection	Buffalo flies up to 4 months.
Manufacturer	Elanco (Bayer products)

Product Name: CO-RAL PLUS INSECTICIDE CATTLE EAR TAG

APVMA Approval No: 60662/130564



Label Name:	CO-RAL PLUS INSECTICIDE CATTLE EAR TAG
Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN FOR ANIMAL TREATMENT ONLY READ SAFETY DIRECTIONS
Constituent Statements:	200 g/kg COUMAPHOS 200 g/kg DIAZINON (ANTICHOLINESTERASE COMPOUNDS)
Claims:	For the control of organophosphate susceptible strains of buffalo fly ( <i>Haematobia irritans exigua</i> ), including synthetic pyrethroid resistant strains, on beef and dairy cattle for up to 4 months.
Net Contents:	10 tags 20 tags 100 tags 500 tags

**CYLENCE<sup>®</sup> ULTRA**  
Insecticide cattle ear tag

**CAUTION**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS  
FOR ANIMAL TREATMENT ONLY

**BAYER**

**CYLENCE<sup>®</sup> ULTRA**

**Insecticide cattle ear tag**  
ACTIVE CONSTITUENTS: 80g/kg BETACYFLUTHRIN  
200g/kg PIPERONYL BUTOXIDE

For the control of synthetic pyrethroid susceptible strains of buffalo fly (*Haematobia irritans exigua*), including organophosphate resistant strains, on beef and dairy cattle for up to 4 months.



**20 tags** 2 pouches of 10 tags each which it is illegal to sell separately

**POISON**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS  
BEFORE OPENING OR USING  
FOR ANIMAL TREATMENT ONLY

**Y-TEX**

**AGRESSOR<sup>™</sup>**

**CATTLE EAR TAGS**  
ACTIVE CONSTITUENTS:  
80g/kg Abamectin,  
180g/kg Piperonyl Butoxide

**FOR UP TO 12 WEEKS CONTROL OF BUFFALO FLIES\* ON BEEF AND DAIRY CATTLE (INCLUDING LACTATING DAIRY CATTLE)**

\*Including organophosphate-resistant and synthetic pyrethroid-resistant strains

**CONTENTS: 20 Tags**  
Each 9.0grams – 180g net weight

**IT IS ILLEGAL TO SELL INDIVIDUAL SACHET AND TAGS SEPARATELY**


**POISON**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
FOR ANIMAL TREATMENT ONLY

**BAYER**

**PATRIOT<sup>®</sup>**

**Insecticide ear tag for cattle**  
ACTIVE CONSTITUENTS: DIAZINON 400g/kg  
(AN ANTICHOLINESTERASE COMPOUND)

For the control of diazinon sensitive buffalo fly up to 4 months on beef and dairy cattle including control of pyrethroid resistant strains.



**5 Sachets (50 tags)** Sachets and tags should not be sold separately

**PATRIOT<sup>®</sup>**  
BEEF AND DAIRY CATTLE







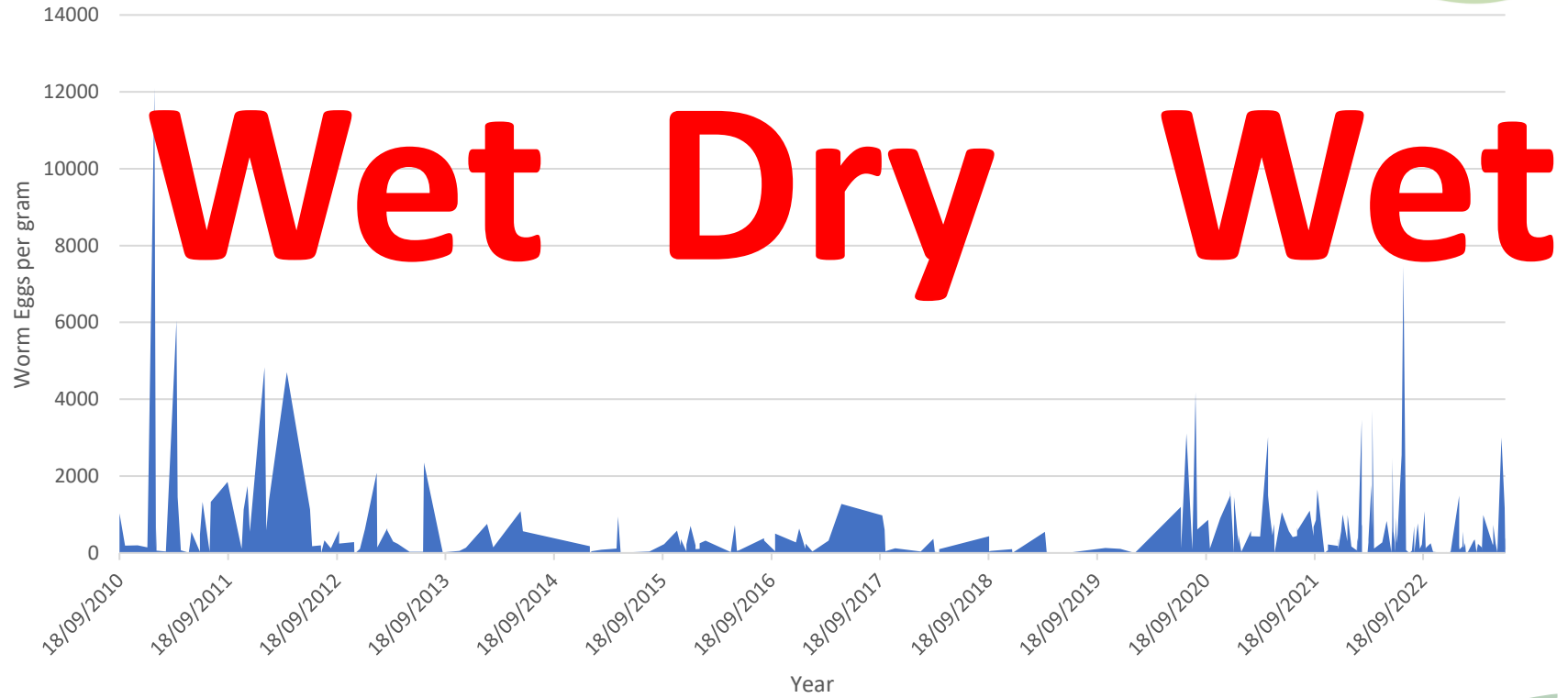
**wormboss**

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## Dawbutts laboratory- 2010-2023 National goat mob average Worm Egg Counts





ELSEVIER

**Table 4**

Specific anthelmintic active principles in each anthelmintic class, average efficacy (%), efficacy range and resistance status in goats after treatment for GIN.

Anthelmintic Active Principle	N <sup>a</sup>	Efficacy (%)	Efficacy (%) Range	AR <sup>b</sup>	P (value) <sup>c</sup>
White 65%					
Benzimidazole and Probenzimidazole	101	64.75	0 – 100	Y	< 0.01
Albendazole	47	72.93	0 – 100	Y	
Febantel	2	47.89	37.5 – 58.27	Y	
Fenbendazole	31	49.4	0 – 98	Y	
Mebendazole	1	29.42		Y	
Netobimin	5	93.47	78.61 – 100	Y	
Oxfendazole	10	76.05	20.5 – 97.59	Y	
Thiabendazole	1	99		N	
Thiophanate	3	15.77	0–25	Y	
Levamisole 76%					
Unspecified	1	81		Y	
Anti-cholinergics	66	77.44	0 – 100	Y	0.23
Levamisole	53	76.4	0 – 100	Y	
Tetramisole	8	89.91	75.6 – 100	Y	
Mectins 74%					
Morantel	4	61.86	23.68 – 93.25	Y	
Pyrantel Pamoate	1	95.67		N	
Closantel 81%*					
Macrocyclic Lactone	92	74.06	0 – 100	Y	< 0.01
Monepantel 45%					
Doramectin	4	87.84	76 – 99.66	Y	
Eprinomectin	7	27.53	0–93.38	Y	
Combinations 92%					
Ivermectin	67	75.70	0 – 100	Y	
Moxidectin	14	85.54	52.3 – 100	Y	
Other Classes	16	76.55	0 – 100	Y	
Closantel	10	81.35	33.39 – 100	Y	
Monepantel	2	45	0–90	Y	
Rafoxanide	3	87.21	76.42 – 100	Y	
Trichlorfon	1	99.37		N	
Combinations	26	91.97	53.81–100	Y	

<sup>a</sup> N: Number of studies which included the specific anthelmintic treatment.<sup>b</sup> AR: Anthelmintic resistance status based on treatment mean: Y: Yes (<95% FECR); N: No (>95% FECR).<sup>c</sup> P (value): Statistical difference value from a single factor ANOVA

Anthelmintic resistance of gastrointestinal nematodes in goats: A systematic review and meta-analysis

Emily Baudinette, Ryan O'Handley<sup>\*</sup>, Colin Trengove

School of Animal and Veterinary Sciences, The University of Adelaide, Muddy Wirra Road, Roseworthy, SA 5371, Australia



# Pour-ons don't work in goats



**wormboss**

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**Table 6**

Mode of application of anthelmintic treatments and efficacy in anthelmintic treated goats.

Mode of Application	N <sup>a</sup>	Efficacy (%)
Injectable	54	80.89
Oral	178	70.95
<b>Pour-On</b>	9	<b>39.18</b>

<sup>a</sup> Number of anthelmintic treatments given by the specified mode of application.

# Add extra feed for:

- Growth
- Pregnancy
- Lactation
- Deficiencies
- Protein



I want information  
about

Cattle, Sheep, Goats



in

Region



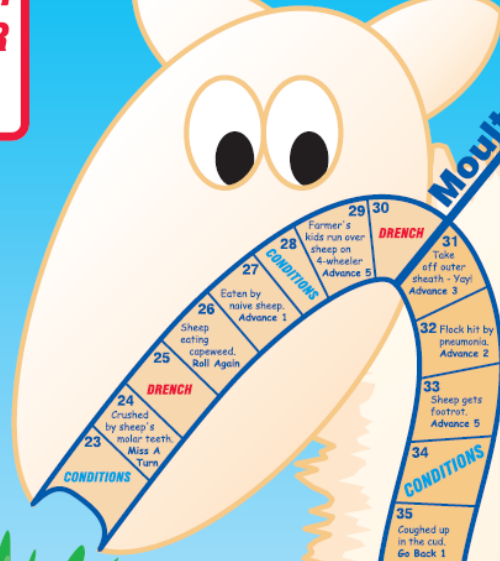
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[Home](#) » [Tests & tools](#) » [Breeding for worm resistance - Goats](#)

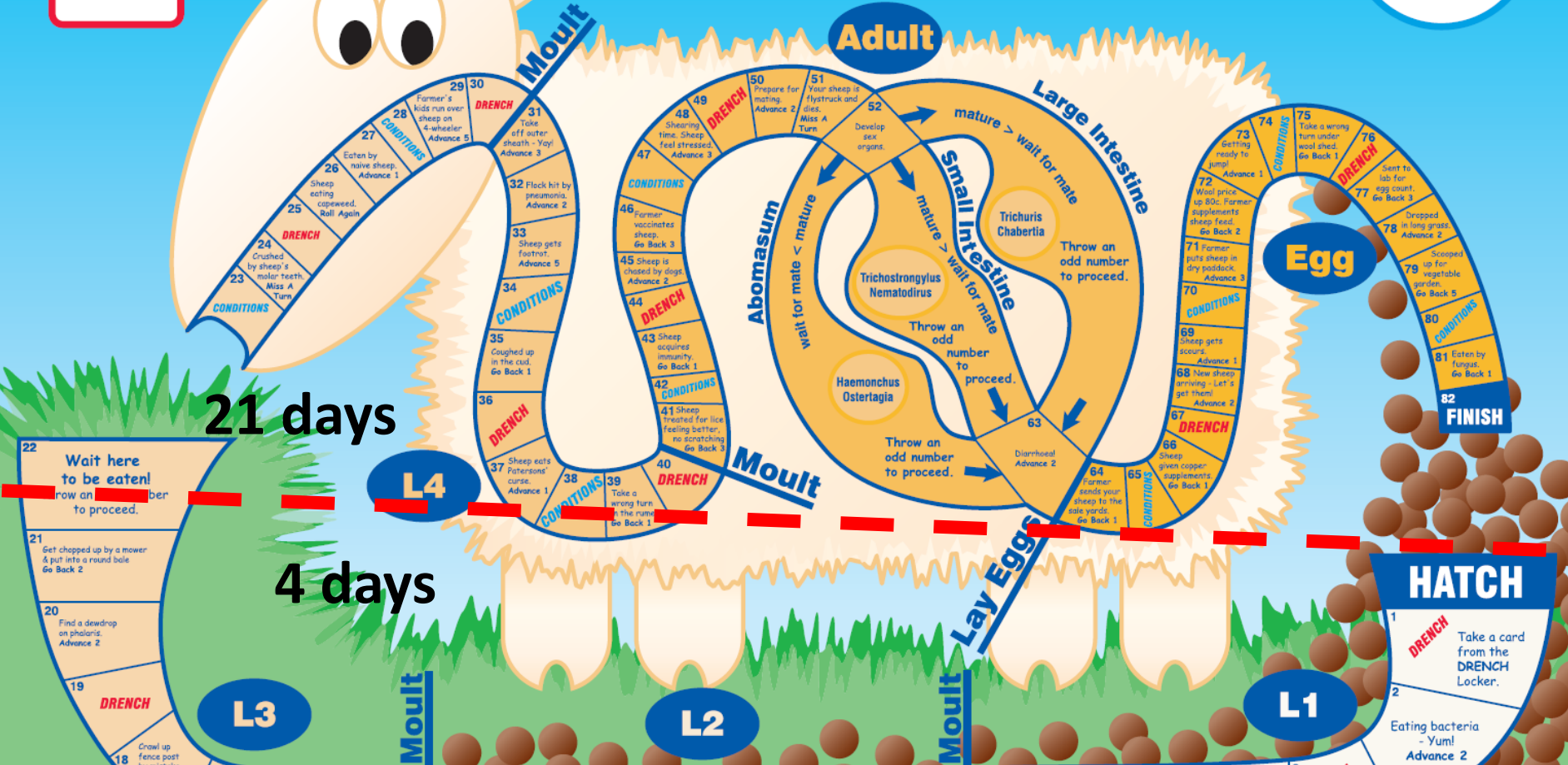
# Breeding for worm resistance – Goats

**DRENCH LOCKER**

**CONDITIONS**



**Adult**



**21 days**

**4 days**

**L3**

**L4**

**L2**

**L1**

**HATCH**

**Egg**

**FINISH**

22 Wait here to be eaten! Throw an **L4** to proceed.

21 Get chopped up by a mower & put into a round bale. Go Back 2.

20 Find a dewdrop on phalaris. Advance 2.

19 **DRENCH**

18 Crawl up fence post by mistake. Go Back 1.

17 **CONDITIONS**

16 Safe inside sheath, but **DRENCH**

15 **DRENCH**

14 Fight with lungworms for **CONDITIONS**

13 **CONDITIONS**

12 Crawl into dusty ground.

11 New cuticle doesn't match **DRENCH**

10 **DRENCH**

9 Eaten by a dung **CONDITIONS**

8 **CONDITIONS**

7 Moultin' party - Yahoo!

6 **DRENCH**

5 **CONDITIONS**

4 Growing new cuticle. Go Back 1.

3 **DRENCH**

**Moult**

29 **DRENCH**

30 **CONDITIONS**

28 Farmer's kids run over sheep on 4-wheeler. Advance 5.

27 **CONDITIONS**

26 Eaten by naive sheep. Advance 1.

25 **DRENCH**

24 Sheep eating capeweed. Bulli Again.

23 **CONDITIONS**

24 Crushed by sheep's molar teeth. Miss A Turn.

32 Flock hit by pneumonia. Advance 2.

33 Sheep gets footrot. Advance 5.

34 **CONDITIONS**

35 Coughed up in the ruid. Go Back 1.

36 **DRENCH**

37 Sheep eats Paterson's curse. Advance 1.

38 **CONDITIONS**

39 Take a wrong turn in the mud. Go Back 1.

40 **DRENCH**

**Moult**

48 **DRENCH**

49 **CONDITIONS**

47 Shearing time. Sheep feel stressed. Advance 3.

46 Farmer vaccinates sheep. Go Back 3.

45 Sheep is chased by dogs. Advance 2.

44 **DRENCH**

43 Sheep acquires immunity. Go Back 1.

42 **CONDITIONS**

41 Sheep treated for lice feeling better, no scratching. Go Back 3.

40 **DRENCH**

50 Prepare for mating. Advance 2.

51 Your sheep is flystruck and dies. Miss A Turn.

52 Develop sex organs.

**Abomasum**  
wait for mate < mature

**Small Intestine**  
mature > wait for mate

**Large Intestine**  
mature > wait for mate

Trichostrongylus Nematodirus  
Trichuris Chabertia  
Haemonchus Ostertagia

Throw an odd number to proceed.

Throw an odd number to proceed.

Throw an odd number to proceed.

63 Diarrhoeal. Advance 2.

64 Farmer sends your sheep to the sale yards. Go Back 1.

65 **CONDITIONS**

**Moult**

73 Getting ready to jump! Advance 1.

72 Wool price up 50c. Farmer supplements sheep feed. Go Back 2.

71 Farmer puts sheep in dry paddock. Advance 3.

70 **CONDITIONS**

69 Sheep gets scours. Advance 1.

68 New sheep arriving. Let's get them! Advance 2.

67 **DRENCH**

66 Sheep given copper supplements. Go Back 1.

65 **CONDITIONS**

74 **CONDITIONS**

75 Take a wrong turn under wool shed. Go Back 1.

76 **DRENCH**

77 Sent to lab for egg count. Go Back 3.

78 Dropped in long grass. Advance 2.

79 Scooped up for vegetable garden. Go Back 5.

80 **CONDITIONS**

81 Eaten by fungus. Go Back 1.

82 **FINISH**

1 **DRENCH** Take a card from the DRENCH Locker.

2 Eating bacteria - Yum! Advance 2.







I want information  
about

Cattle, Sheep, Goats



in

Region



during



Determining which worm species are present and faecal worm egg counts (WECs) is important but must be balanced against other factors that affect the productivity and health of the cattle. Individual cattle show different degrees of response to worm burdens, in young cattle even mild burdens result in a loss of appetite, known as 'parasite-associated anorexia'. Along with metabolic and direct parasite effects, reduced feed intake leads to slower growth rates and weight loss. Other signs of worm burdens include scouring

Sheep

Cattle

Share





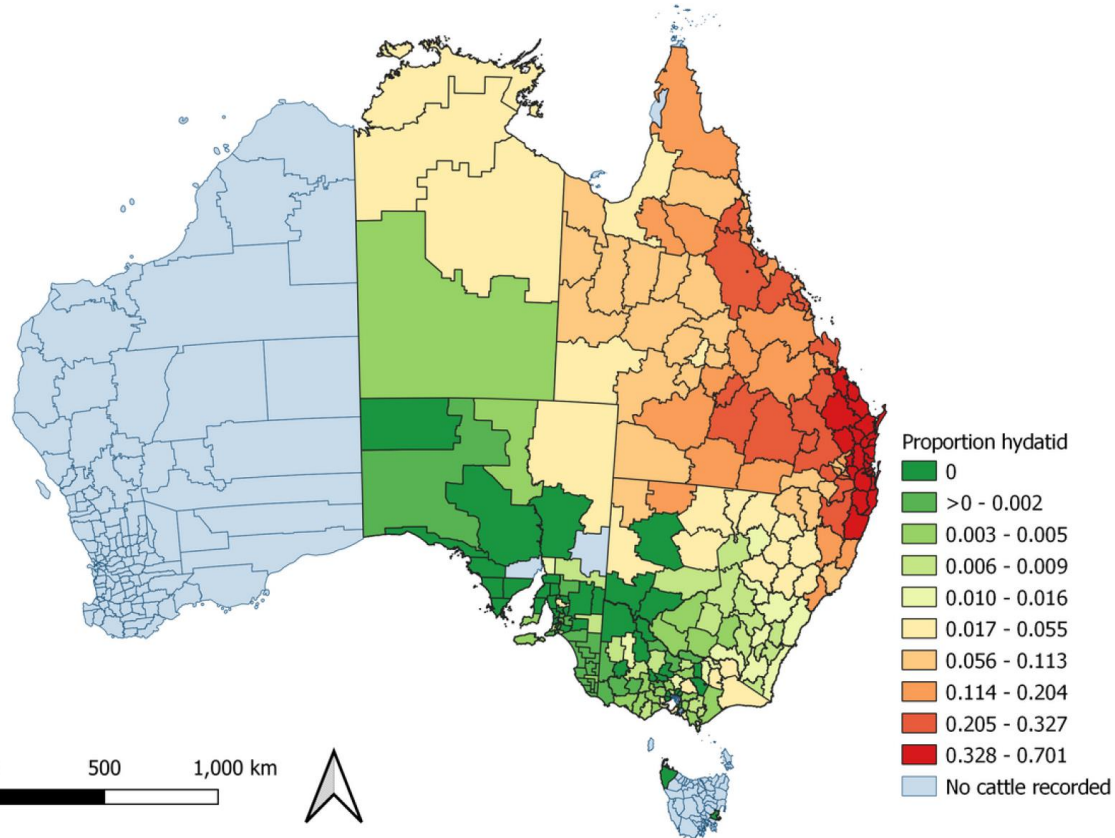
# Worm control principles

1. **Reduce worm contamination** by paddock spelling, rotation, alternating with goats/cattle.
2. Feed stock for **resilience** and select for **resistance**.
3. **Monitor** worm egg counts and drench when necessary.
4. Use **effective** drenches (>95% efficacy).
5. Use **combination** drenches in preference to single active drenches and **short** instead of long-acting drenches.

# Hydatids



# Hydatids distribution in Australia





# What you can do

1. Read feedback from processor.
2. Treat dogs with praziquantel 4x/year, don't feed offal/raw meat.
3. Wild dog control, exclusion fencing.



# Must have praziquantel to treat dogs!!!



FOR ANIMAL TREATMENT ONLY

## Popantel® F

Flavoured Allwormer Tablets for Large Dogs

Active Constituents:  
Each tablet contains 175 mg PRAZIQUANTEL, 174.4 mg PYRANTEL (as pyrantel embonate) and 875 mg FEBANTEL

One tablet treats 35 kg

Popantel® F is recommended for the control of all gastrointestinal worms in dogs including:

- ROUNDWORMS *Toxocara Canis*, *Toxascaris leonina*,
- HOOKWORMS *Ancylostoma caninum*, *Ancylostoma braziliense*, *Ancylostoma ceylanicum*, *Uncinaria stenocephala*,
- WHIPWORMS *Trichuris vulpis*,
- TAPEWORMS *Dipylidium caninum* (common flea tapeworm), *Taenia ovis*, *T. psillosa*, *T. hydatigena* and *Echinococcus granulosus* (hydatid tapeworm).

Popantel® F also controls the shedding of oocysts of the protozoan *Giardia* sp. in dogs.

**DOES NOT CONTROL HEARTWORM** (*Dirofilaria immitis*).



7 x 6 TABLETS

FOR ANIMAL TREATMENT ONLY

## Cazitel®

Flavoured Allwormer Tablets for Large Dogs

Each tablet contains 175 mg PRAZIQUANTEL, 174.4 mg PYRANTEL (as pyrantel embonate) and 875 mg FEBANTEL

One tablet treats 35 kg



For the control in dogs of:

- ROUNDWORM • WHIPWORM • HOOKWORM
- TAPEWORM including HYDATID TAPEWORM

- Also controls the shedding of *GIARDIA* oocysts.
- Does not control heartworm (*Dirofilaria immitis*) in dogs.

2 tablets



1 tablet eats 35 kg BO  
WE

**CAUTION**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
FOR ANIMAL TREATMENT ONLY

## ParaGard® Allwormer Tablets for Large Dogs

EACH TABLET CONTAINS 100 mg PRAZIQUANTEL, 450 mg OXIBENDAZOLE

For the treatment and control of Roundworm, Hookworm, Whipworm and Tapeworm, including hydatids, in dogs.  
Does not control heartworm in dogs. Palatable liver flavour.



3 TABLETS  
1 TABLET PER 20 kg BODY WEIGHT



# Take home messages

1. See ParaBoss for information and advice on how to control all types of parasites in livestock.
2. Monitor cattle for buffalo flies and treat when needed.
3. Do worm egg counts to check if cattle, sheep or goats need a drench or management to reduce worm burdens.
4. Treat dogs with praziquantel and don't feed guts or raw meat to prevent hydatids.

# Connect with us

Your one-stop shop for all things parasites.  
Find the latest information on:

- All production zones
- All parasites
- Decision support tools
- Management
  - Husbandry
  - Genetics
  - Chemicals



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## The Paraboss Extended Team



# Tools and resources

paraboss.com.au

wormboss.com.au

flyboss.com.au

tickboss.com.au

Going into goats - MLA manual

Sheep Genetics - LambPlan and KidPlan

More Beef from Pastures - <https://mbfp.mla.com.au/>