Premium

for

Quality

Wool

## Disease and Wool Production: Gastrointestinal Nematodes

Produced for the CRC for Premium Quality Wool undergraduate program by; Dr. Steve Walkden-Brown and Dr. Brad Crook, The University of New England.

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5 m	Genus	Common name	Location
301	Haemonchus spp.	Barbers Pole worm	Abomasum
CRC	<i>Ostertagia</i> spp.	Small brown stomach	
220		worm	Abomasum
for	Trichostrongylus spp.	Black scour worm	Small intestine
Premium	Nematodirus spp.	Thin necked intestinal	
		worm	Small intestine
Quality	Oesophagostomum	Nodule worm	Large intestine
Wool	spp.	Large mouthed bowel	
	Chabertia ovina	worm	Large intestine
1.1		Whip worm	Large intestine
States of Lot of			

Trichuris spp.

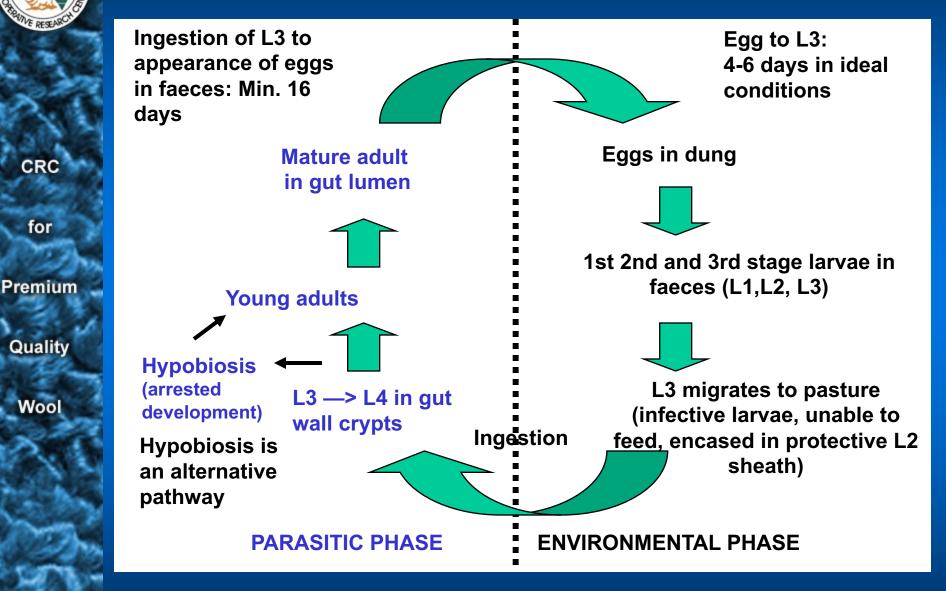
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## Life cycle (direct)



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## Signs of gastrointestinal helminthosis

Genus	Anaemia	Scouring	III thrift
Haemonchus spp.	+++	-	+++b
<i>Ostertagia</i> spp.	-	+++	+++
Trichostrongylus spp		+++	+++
<i>Nematodirus</i> spp.	-	++	++
Oesophagostomum	-	<b>+</b> a	+++
spp.	+	++ a	++
Chabertia ovina	-	<b>++</b> a	+++
Trichuris spp. <sup>a</sup> Faeces may contain mucus or b			

<sup>b</sup> Will kill adult sheep

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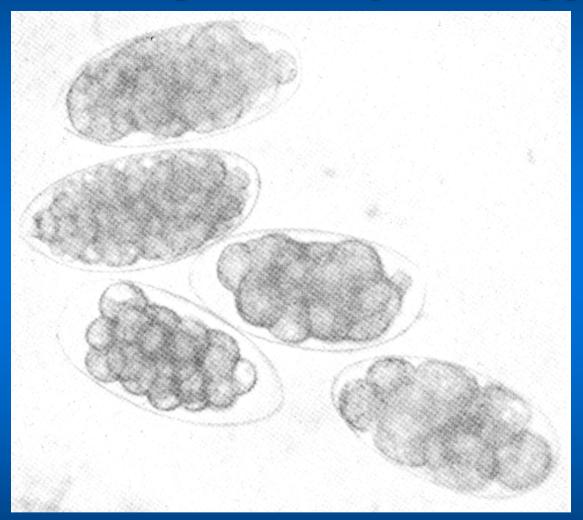
"Bottle jaw" caused by "Barber's pole worm" - loss of protein from plasma Diarrhoea (scours) caused by "black scour worm" - note dag formation



Steve Walkden-Brown Sources: Brightling, A. (1994); Belschner H.G. (1971)

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## Most sheep nematode parasites cannot be distinguished by their eggs



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Steve Walkden-Brown Source: Coles, E.H. (1974)

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Larger worms e.g. Haemonchus Chabertia Trichuris Oesophagostomum

m/m

Ostertagia circumcincta

Hair worms e.g. Ostertagia Trichostrongylus

<sup>2</sup> <sup>3</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>7</sup> <sup>8</sup> <sup>9</sup> <sup>9</sup> <sup>1</sup> Haemonchus contortus

> Steve Walkden-Brown Source: Brightling, A. (1994)

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