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WormFax is based on sheep WormTest (worm egg count (WEC) monitoring) data from the Industry and Investment NSW Veterinary Laboratory at Camden/Menangle (EMAI), as well as from Armidale-based private laboratory, Veterinary Health Research (VHR). Owner details are not disclosed.

WormFax is a monthly summary of WormTesting results (in sheep) from around New South Wales. Copies are sent by e-mail each month, and are published on the Industry & Investment NSW - Primary Industries website at:

www.dpi.nsw.gov.au/newsletters/wormfax

also see <http://www.dpi.nsw.gov.au/agriculture/livestock/sheep/health>

(Internal Parasites - 'Worms on the Web')

WormFax Data

Detailed data is provided in the following worksheets. See coloured tabs labelled 'Data ...' below.

WormFax is based on sheep WormTest (faecal worm egg count (WEC) monitoring) data from the **Industry & Investment NSW Veterinary Laboratory** at Camden/Menangle (EMAI) (the Orange and Wollongbar labs closed on 30 June 2009) as well as from Armidale-based private laboratory, **Veterinary Health Research** (VHR). Owner details are not disclosed.

Districts

Rural Lands Protection Board districts (RLPBs) were **replaced by LHPAs** (Livestock Health and Protection Authorities) in January 2009. For a time, areas/districts in this publication will appear as RLPBs and/or LHPAs. See <http://www.lhpa.org.au/>

Explanatory Notes

Each row in the tables contains the summary data for a WormTest.

WormTests generally consist of worm egg counts (WECs) for 10 individual sheep from a mob. The individual strongyle egg counts (reported in eggs per gram faeces (EPG)) are not shown, but the average, high and low WECs for each WormTest are shown ('Strong Avg, Min and Max'). In addition to strongyle egg counts, a larval differentiation or "worm typing" is often done as well, showing the percentage of strongyle eggs coming from different worm 'strongyle' species, including *Haemonchus contortus* (barber's pole worm; 'H%'), *Trichostrongylus* spp (black scour worm; 'Trich%'), *Ostertagia* (=Teladorsagia) *circumcincta* (small brown stomach worm; 'O%'), *Cooperia* spp (intestinal worm; 'C%'), and *Oesophagostomum* spp (large bowel worm; less commonly nodule worm; 'Oe%'). The eggs of all these species are very similar in appearance.

The eggs of *Nematodirus* spp (thin-necked intestinal worms; 'Nem Avg') are quite different from strongyle eggs under the microscope, and the counts for these are reported separately.

Liver fluke ('LF') eggs are also quite different from strongyle eggs, and are counted using a different technique anyway. Some labs report two counts for liver fluke (two batches of five samples), hence the two columns for fluke in the tables.

Age and sex descriptors may be abbreviated:

Age: A=adult, L= lamb (< 4 months), W=weaner (4-11 months), H=hogget (12-24 months).

Sex: W=wether, E=ewe, R=ram, M or MXD=mixed.

Labs: for various reasons, the WormTest data is presented in three worksheets (see coloured tabs), one for each lab. WormTest results for a particular district may appear in one or more of the 'Data' worksheets.

Each farm is unique!

There can be enormous variation in worm egg counts between farms and even between mobs on a farm. It's important therefore that each farm does its own, regular WormTesting (worm egg count monitoring). Don't forget to do occasional DrenchChecks (worm egg count after a drench).

For more information, ask your vet or other professional adviser.

Also see "Worms on the Web":

<http://www.dpi.nsw.gov.au/agriculture/livestock/sheep/health-internal>
and WormBoss: www.wormboss.com.au

Industry & Investment NSW Veterinary Lab:

<http://www.dpi.nsw.gov.au/aboutus/services/das/veterinary>



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"NATA accredited (to ISO 17025) and unsurpassed for breadth and quality of services".

* Camden/Menangle (EMAI) - tel (02) 4640 6327

* Orange - tel (02) 6391 3858 **CLOSED June 2009**

* Wollongbar - tel (02) 6626 1103 **CLOSED June 2009**

Private laboratory contributing data to WormFax:

* Veterinary Health Research, Armidale tel (02) 6771 1358



Map: 'Worm control regions' and former (pre Jan 09) Rural Lands Protection Boards

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The information contained in this publication is based on knowledge and understanding at the time of writing (November 2009). However, because of advances in knowledge, users are reminded of the need to ensure that information upon which they rely is up to date and to check currency of the information with the appropriate officer of New South Wales Department of Primary Industries or the user's independent adviser.

Recognising that some of the information in this document is provided by third parties, the State of New South Wales, the author and the publisher take no responsibility for the accuracy, currency, reliability and correctness of any information included in the document provided by third parties.

RLPB District (pre Jan '09)		LHPA (post Jan '09)
(ACT)		
Armidale	ARM	New England
Balranald	BAL	Western
Bombala	BOM	South East
Bourke		Darling
Braidwood	BRA	South East
Brewarrina	BRE	Darling
Broken Hill		Western
Casino		North Coast
Central Tablelands	CNT	Tablelands
Cobar		Darling
Condobolin		Lachlan
Cooma	COOM	South East
Coonabarabran	COON	Central North
Coonamble	CBL	Central West
Dubbo	DUB	Central West
Forbes		Lachlan
Gloucester		Mid-Coast
Goulburn	GOUL	Tablelands
Grafton		North Coast
Gundagai	GUN	Hume
Hay	HAY	Riverina
Hillston	HIL	Western
Hume	HUM	Hume
Hunter	HUN	Mid-Coast
Kempsey		Mid Coast
Maitland		Cumberland/Mid-Coast
Milparinka		Western
Molong	MOL	Central West/Tablelands
Moree		North West
Moss Vale		Cumberland
Mudgee-Merriwa	MUD	Central North
Murray	MUR	Riverina
Narranderra	NAR	Riverina
Narrabri	NBR	North West
Northern New England	NNE	New England
Northern Slopes	NS	North West
Nyngan	NYN	Central West
Riverina		Riverina
South Coast	STC	South East
Tamworth	TAM	Central North
Tweed		North Coast
Wagga	WAG	Hume
Walgett	WAL	North West
Wanaaring		Darling
Wentworth		Western
Wilcannia		Western
Yass	YAS	Tablelands
Young		Lachlan

Menangle.2009-10														
	LHPA			Egg count			Larval diff %							
Area	Area	Age	Sex	EPG	low	high	Nematodirus	Haem.	Trich.	Ost	Coop.	Oes	Fluke	
COO	Central No H		E	0	0	0	12							
COO	Central No A		E	0	0	0	0							
COO	Central No M		E	0	0	0	4							
COO	Central No L		M	20	0	40	20							
COO	Central No L		M	24	0	120	144							
COO	Central No M		E	36	0	280	0							
COO	Central No A		E	128	0	360	0	58	10		31		1	
COO	Central No L		M	180	40	440	100	95				2	3	
COO	Central No L		M	232	80	480	4	51	22			9	18	
COO	Central No M		M	780	280	1280	0	47	52				2	
COO	Central No A		E	800	0	3160	0	62	38					
COO	Central No A		E	860	840	880	40	67	26		1		6	
COO	Central No M		E	936	0	4440	0	93	7					
COO	Central No H		E	1060	920	1200	80	20	72		4		4	
COO	Central No A		E	1120	320	1920	0	64	30		2		4	
COO	Central No A		E	1240	920	1560	0	31	51		3		9	
COO	Central No M		E	8132	1600	16080	20	90	10					
MUD	Central No L		M	4	0	40	0							
MUD	Central No M		E	4	0	40	0							
MUD	Central No L		M	24	0	120	20							
MUD	Central No L		M	36	0	120	28							
MUD	Central No A		E	500	160	1160	4	72	7		11		10	
MUD	Central No A		E	692	120	1600	16	19	74		7			
MUD	Central No M		W	816	320	1480	0	94	3		3			
CBL	Central We A		E	12	0	80	4							
CBL	Central We A		E	24	0	80	0							
DUB	Central We L		M	0	0	0								
DUB	Central We A		E	40	0	80	0							
DUB	Central We W		E	68	0	360	0							
DUB	Central We A		E	160	80	240	0	71	26		3			
DUB	Central We A		E	160	40	280	0		95		5			
DUB	Central We A		E	200	40	360	0	8	88		4			
DUB	Central We A		E	204	0	1040	0	67	30		3			
DUB	Central We A		E	220	0	440	60	49	51					
DUB	Central We H		E	240	120	360	80							
DUB	Central We A		E	260	200	320	20							
DUB	Central We L		M	300	160	400	120							
DUB	Central We A		E	300	0	1760	0		83		13		4	
DUB	Central We L		M	456	120	1200	116	6	44		50			
DUB	Central We H		E	488	0	1920	12		85		7		8	
DUB	Central We L		M	700	560	840	100							
DUB	Central We L		M	768	280	1280	144	2	27		70		1	
DUB	Central We M		E	860	80	2000	4	18	75		3		4	
DUB	Central We A		E	1140	880	1400	0	86	14					
DUB	Central We M		M	1862	200	4840	13		87		11		2	
RIV	Deniliquin W		M	100	80	120	40							
RIV	Deniliquin H		E	200	200	200	20							
RIV	Deniliquin H		W	360	280	440	200		38		44	18		
GUN	Hume W		W	216	0	160	72							
HUM	Hume H		M	40	0	160	0						0	0
HUM	Hume L		M	124	0	560	12		18		62	20		
HUM	Hume L		M	820	640	1000	0							
HUM	Hume H		E	1700	1080	2320	0		82		18			
WAG	Hume H		E	8	0	40	4							
WAG	Hume A		E	48	0	280	4							
WAG	Hume A		E	56	0	160	0							
WAG	Hume L		M	64	0	240	40							
WAG	Hume A		E	92	0	680	16							
FOR	Lachlan A		E	0	0	0	0							
FOR	Lachlan W		M	40	0	80	20							
FOR	Lachlan L		M	60	0	120	0							
FOR	Lachlan M		M	272	0	1160	8	20	32		31		17	
FOR	Lachlan H		E	632	80	1720	0	100						
YOU	Lachlan A		E	0	0	0	0							
YOU	Lachlan M		M	40	40	40	0							
YOU	Lachlan H		R	60	40	80	0							
YOU	Lachlan A		E	80	0	320	0							
YOU	Lachlan A		E	84	0	640	0							
YOU	Lachlan H		E	184	0	360	32							
YOU	Lachlan H		E	268	0	480	12		73		24		3	
YOU	Lachlan A		E	380	280	480	0							
YOU	Lachlan H		E	500	480	520	0							
CASINO	North Coast L		M	2800	320	3680	0	84	16					
NBR	North West W		E	3568	1280	5520	0	100						
NAR	Riverina A		E	284	0	760	32		45		53		2	
BOM	South East M		M	12	0	80	8							
BOM	South East A		E	12	0	120	0						0	0
BOM	South East A		E	40	0	80	0							
BOM	South East M		M	52	0	160	0							
BOM	South East M		M	56	0	120	24							
BOM	South East A		E	60	0	120	0							
BOM	South East A		E	64	0	160	0							
BOM	South East M		M	80	0	240	16							
BOM	South East A		E	340	320	360	20	79	9		11		1	
BRA	South East W		E	112	0	640	4							
BRA	South East M		M	120	80	160	0	63	28		5			
BRA	South East W		E	300	0	760	0		34		2		64	
BRA	South East M		E	480	400	560	20	61	35		4			
BRA	South East A		E	1064	200	2200	28		46		27		27	
CTL	Tablelands A		E	0	0	0	0						0	0
CTL	Tablelands L		M	20	0	40	0						0	0
CTL	Tablelands A		E	24	0	120	0							
CTL	Tablelands M		M	64	0	200	0							
CTL	Tablelands L		M	80	0	160	0							
CTL	Tablelands A		E	80	0	440	0							
CTL	Tablelands A		E	132	0	560	0		68		30	1	1	
CTL	Tablelands W		M	136	0	360	48	17	39		44			
CTL	Tablelands A		E	140	120	160	0							
CTL	Tablelands H		E	160	120	180	60							
CTL	Tablelands M		M	164	0	480	72	33	64		3			
CTL	Tablelands W		M	176	0	480	0							
CTL	Tablelands H		W	1040	800	1280	80							
GOU	Tablelands A		E	4	0	40	0							
GOU	Tablelands M		E	232	0	400	0							
GOU	Tablelands W		M	420	160	680	60		71		6	22	1	
GOU	Tablelands A		E	800	40	2200	168	18	72		7		3	
GOU	Tablelands A		E	1000	600	1400	20	49	25		26			
MOL	Tablelands A		E	440	80	880	20		87		13			
MOL	Tablelands H		E	520	360	680	0							
YAS	Tablelands H		M	0	0	0	0							
YAS	Tablelands H		M	8	0	40	0							
YAS	Tablelands H		E	60	40	80	0							
YAS	Tablelands A		E	280	240	320	20						0	0
YAS	Tablelands H		E	312	0	1280	20		84		14		2	
YAS	Tablelands A		E	480	400	<								

Area	Age	Sex	Strongyle Avg	Strong Min	Strong Max	Haem.%	Trich. %	Ost. %	Coop. %	Oes. %	Liver Fluke	Stomach Fluke	Nematodirus Avg	Nemat Min	Nemat Max
ARMIDALE	n/a	Rams	0	0	0								0	0	0
ARMIDALE	n/a	lambs	0	0	0								0	0	0
ARMIDALE	n/a	Wethers	4	0	40								0	0	0
ARMIDALE	n/a	lambs	4	0	40								0	0	0
ARMIDALE	n/a	Ewes	12	0	80								8	0	40
ARMIDALE	n/a	Lambs	20	0	80								0	0	0
ARMIDALE	n/a		32	0	120	40	60	0	0	0			0	0	0
ARMIDALE	n/a	Ewes	36	0	160	0	100	0	0	0			0	0	0
ARMIDALE	n/a	lambs	40	0	280	83	17	0	0	0			0	0	0
ARMIDALE	n/a	Ewes	80	0	400	97	3	0	0	0			0	0	0
ARMIDALE	n/a	Lambs	80	0	240								0	0	0
ARMIDALE	n/a	Ewes	84	0	280	33	38	29	0	0	0		0	0	0
ARMIDALE	n/a		88	0	400	100	0	0	0	0			0	0	0
ARMIDALE	n/a		96	0	760	0	100	0	0	0			0	0	0
ARMIDALE	n/a	Lambs	108	0	280	66	17	17	0	0			4	0	40
ARMIDALE	n/a		132	0	400	0	100	0	0	0			0	0	0
ARMIDALE	n/a	Ewes	184	0	560	100	0	0	0	0			0	0	0
ARMIDALE	n/a	Ewes	204	0	840	96	3	1	0	0			4	0	40
ARMIDALE	n/a	Ewes	232	0	1200	96	0	0	4	0	0		0	0	0
ARMIDALE	n/a	Lambs	244	0	800	84	11	4	0	1	0		0	0	0
ARMIDALE	n/a	Ewes	260	0	1120	71	28	1	0	0			0	0	0
ARMIDALE	n/a	lambs	268	0	1160	75	22	1	0	2			0	0	0
ARMIDALE	n/a	Ewes	308	0	840	0	100	0	0	0			0	0	0
ARMIDALE	n/a	Mixed sex	312	0	880	82	10	3	5	0			12	0	40
ARMIDALE	n/a	Wethers	368	40	920	100	0	0	0	0	0		0	0	0
ARMIDALE	n/a	Ewes	384	80	840	45	32	23	0	0	0		0	0	0
ARMIDALE	n/a	Ewes	396	0	1440	52	33	15	0	0	0		0	0	0
ARMIDALE	n/a	Ewes	412	0	2600	8	79	13	0	0			0	0	0
ARMIDALE	n/a	Ewes	428	40	1240	80	20	0	0	0	0		0	0	0
ARMIDALE	n/a	Ewes	504	0	1760	11	71	17	0	1			0	0	0
ARMIDALE	n/a	Ewes	504	0	1680	43	53	4	0	0			4	0	40
ARMIDALE	n/a	Ewes	528	0	1680	3	80	17	0	0	0		4	0	40
ARMIDALE	n/a	Ewes	528	40	1640	80	20	0	0	0			4	0	40
ARMIDALE	n/a	Hoggets	556	0	920	45	32	13	8	2			4	0	40
ARMIDALE	n/a	Wethers	796	0	2600	12	84	1	0	3	0		0	0	0
ARMIDALE	n/a	Ewes	852	280	2680	74	23	3	0	0	0		0	0	0
ARMIDALE	n/a		936	160	3040	74	25	1	0	0			12	0	40
ARMIDALE	n/a	lambs	1004	40	1680	69	19	12	0	0	2		0	0	0
ARMIDALE	n/a	lambs	1060	480	1600	47	49	4	0	0			0	0	0
ARMIDALE	n/a	Hoggets	1356	320	2320	34	64	2	0	0			4	0	40
ARMIDALE	n/a		1436	520	3080	100	0	0	0	0			0	0	0
ARMIDALE	n/a	Hoggets	1608	360	3080	0	100	0	0	0			0	0	0
ARMIDALE	n/a	Hoggets	2336	120	6840	93	6	1	0	0			0	0	0
ARMIDALE	n/a	Weaners	3916	120	14960	94	6	0	0	0			0	0	0
ARMIDALE	n/a	Ewes	3956	0	13080	98	1	1	0	0	0		0	0	0
ARMIDALE	n/a	Hoggets	4276	400	14880	83	17	0	0	0	0		0	0	0
ARMIDALE	n/a	lambs				60	28	11	0	1					
BALRANALD	n/a		8	0	40								0	0	0
BALRANALD	n/a	Weaners	1080	80	3440	0	74	26	0	0			4	0	40
BOMBALA	n/a	Ewes	268	0	1120	100	0	0	0	0			0	0	0
COONABARABRAN	n/a	Ewes	164	0	720	0	100	0	0	0			0	0	0
COONABARABRAN	n/a	Wethers	360	0	1320	2	96	2	0	0			0	0	0
COONABARABRAN	n/a	Ewes	564	0	3640	25	44	0	0	31			4	0	40
COONABARABRAN	n/a	Wethers	720	280	1040	0	83	12	0	5			24	0	200
COONABARABRAN	n/a	Hoggets	936	160	2480	84	13	3	0	0			28	0	120
FORBES	n/a	Weaners	0	0	0	0	0	0	0	0			0	0	0
FORBES	n/a		4	0	40	0	67	33	0	0			0	0	0
FORBES	n/a	Weaners	4	0	40	100	0	0	0	0			0	0	0
FORBES	n/a		12	0	80	0	33	67	0	0			0	0	0
FORBES	n/a		24	0	120	0	43	57	0	0			0	0	0
FORBES	n/a		68	0	200	0	81	19	0	0			0	0	0
FORBES	n/a	Weaners	144	0	600	0	57	43	0	0			0	0	0
FORBES	n/a	Weaners	204	40	840	0	60	40	0	0			0	0	0
FORBES	n/a	Weaners	396	40	1000	18	62	19	1	0			16	0	80
FORBES	n/a		884	0	2320	0	92	8	0	0			0	0	0
HUME	n/a	Ewes	152	0	880	0	79	9	10	2			8	0	40
MOREE	n/a	Weaners	56	0	240	0	100	0	0	0			40	0	120
NORTHERN NEW ENGLAND	n/a	Wethers	180	0	840								0	0	0
NORTHERN NEW ENGLAND	n/a	Rams	256	0	680	100	0	0	0	0			8	0	80
NORTHERN NEW ENGLAND	n/a	Ewes	272	40	760								0	0	0
NORTHERN NEW ENGLAND	n/a	Ewes	300	40	840	0	73	27	0	0			0	0	0
NORTHERN NEW ENGLAND	n/a	Ewes	396	40	840								8	0	40
NORTHERN NEW ENGLAND	n/a	Wethers	396	0	1040								0	0	0
NORTHERN NEW ENGLAND	n/a	lambs	452	0	1520	89	11	0	0	0			0	0	0
NORTHERN NEW ENGLAND	n/a	Mixed	484	0	920	78	20	2	0	0	2		0	0	0
NORTHERN NEW ENGLAND	n/a	Ewes	660	80	1640	98	2	0	0	0			0	0	0
NORTHERN NEW ENGLAND	n/a	Wethers	1260	200	4040								0	0	0
NORTHERN NEW ENGLAND	n/a	Ewes	1924	80	5560								0	0	0
NORTHERN NEW ENGLAND	n/a	Wethers	2004	440	6760	96	4	0	0	0			4	0	40
NORTHERN NEW ENGLAND	n/a	Weaners	2316	640	3920	100	0	0	0	0			0	0	0
NORTHERN NEW ENGLAND	n/a	lambs	2516	680	6240	98	2	0	0	0	0		8	0	40
NORTHERN NEW ENGLAND	n/a	lambs	2532	0	8800								0	0	0
NORTHERN NEW ENGLAND	n/a	Ewes	5016	360	10400	100	0	0	0	0			4	0	40
NORTHERN SLOPES	n/a	Weaners	104	0	320								12	0	80
NORTHERN SLOPES	n/a	lambs	404	80	1160	90	10	0	0	0	0		32	0	200
NORTHERN SLOPES	n/a	Ewes	1104	0	3480								4	0	40
TAMWORTH	n/a	Ewes	216	0	720	67	23	10	0	0			0	0	0
TAMWORTH	n/a	Ewes	224	0	1920	98	1	1	0	0			0	0	0
TAMWORTH	n/a	Ewes	556	80	1120	77	21	2	0	0			0	0	0
TAMWORTH	n/a		1120	200	3840	97	3	0	0	0			4	0	40
TAMWORTH	n/a	Wethers	1456	520	3320	98	2	0	0	0			16	0	80
TAMWORTH	n/a	Ewes	2048	720	3040	100	0	0	0	0			4	0	40
TAMWORTH	n/a	Ewes	2432	120	9640	90	10	0	0	0			20	0	120
YASS	n/a	Lambs	0	0	0						0		4	0	40
YASS	n/a	Ewes	0	0	0						0		0	0	0
YASS	n/a	Weaners	20	0	200						77		0	0	0
YASS	n/a	Ewes	44	0	160	0	63	37	0	0	0		0	0	0
YASS	n/a	Lambs	228	0	440	0	34	66	0	0			68	0	160