



WormFax NSW



January 2007

Editor: Stephen Love, Veterinarian/State worm control coordinator
NSW Department of Primary Industries, Armidale

Welcome

Welcome to this edition of WormFax, a monthly summary of WormTesting results (in sheep) from around New South Wales. WormFax is sent by e-mail, but also appears on the web ('Worms on the Web'):

www.agric.nsw.gov.au/reader/sheep-internal

Sources of Data

WormFax is based on sheep WormTest (worm egg count (WEC) monitoring) data from [NSW DPI Regional Veterinary Laboratories](#) at [Orange](#) and [Camden/Menangle \(EMAI\)](#) as well as from Armidale-based private laboratories, [Veterinary Health Research](#), and [New England Veterinary Centres](#). Owner details are not disclosed.

Change of format from January 2007

For the last 10 years or so, summary data has been displayed in tables and graphs in WormFax. While easier on the eye, this is actually less informative than scanning the actual data for each WormTest in the tables.

Explanatory Notes

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

WormTests generally consist of 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 mean, high and low worm egg counts (WECs) for each WormTest are shown. In addition to strongyle egg counts, a larval differentiation or "worm typing" is often done as well, because 'strongyle' includes worm species such as

Haemonchus contortus (barber's pole worm; 'Haem'), *Trichostrongylus* spp (black scour worm; 'Trich'), *Ostertagia* (= *Teladorsagia*) *circumcincta* (small brown stomach worm; 'Ost'), *Cooperia* spp (intestinal worm; 'Coop'), and *Oesophagostomum* spp (large bowel worm; less commonly nodule worm; 'Oes') which have eggs that are very similar in appearance.

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

Liver fluke 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 tmonths), W=weaner (4-11 months), H=hogget (12-24 months).

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

Each farm is unique!

It goes with out saying that 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).

See
wormboss
.com.au
Released 11 March
2005

Lab: Regional Vet Lab, Camden

RLPB	Age	Sex	Strongyle EPG			Larval differentiation %					Liver fluke EPG	Nemat. EPG
			Mean	low	high	Haem	Trich	Ost	Coop	Oes		
ACT	M	E	0	0	0							
Armidale	A	E	200	0	800						0	0
Bombala	A	E	120	0	240		37	55		8		
	M	M	120	0	240						0	0
	A	E	312	0	920		43	38		19	4	0
	H	E	768	200	1280		38	38		24	0	0
Braidwood	L	M	0	0	0							
	M	M	0	0	0							
	H	E	240	240	240	33	33	2		32		
Condobolin	W	E	40	0	80		7	93				
	A	E	220	200	240		4	96				
Goulburn	M	M	60	0	200							
Hume	A	E	0	0	0							
	A	E	0	0	0							
	A	E	20	0	40							
	W	M	20	0	40							
	W	M	40	0	80							
	A	E	40	40	40							
	A	E	140	40	240							
	A	E	180	80	280							
	H	E	292	40	760		17	37		46		
	M	E	300	280	320						0	0
	A	E	320	280	360							
	M	E	340	80	600						0	0
	A	E	420	240	600							
Murray	W	M	0	0	0							
Narrandera	W	E	100	40	160							
Riverina	W	R	0	0	0							
Wagga	A	E	0	0	0							
	W	M	20	0	40							
	A	E	96	0	240		4	54		42		
	A	E	120	0	400		3	93		4		
Yass	W	E	0	0	0							
	H	E	12	0	80							
	W	E	20	0	40							
	A	E	20	1	40							
	A	E	1000	320	2240							
	A	E	1084	640	2000							
Young	L	M	0	0	0							
	A	E	0	0	0							
	H	M	20	0	40							
	A	E	20	0	40							
	A	E	20	0	40							
	W	M	40	40	40							
	A	W	40	0	80							
	M	E	60	40	80							
	H	E	60	40	80							
	H	E	160	80	240							
	M	E	208	200	360							

Lab: Regional Vet Lab, Orange

RLPB	Age	Sex	Strongyle EPG			Larval differentiation %					Liver fluke EPG	Nemat. EPG
			Mean	low	high	Haem	Trich	Ost	Coop	Oes		
Brewarrina	?	R	404	40	1200							
Coonamble	A	E	60	40	80							
Central Tablelands	L	MXD	0	0	0							
	W	MXD	80	80	80							
	A	E	200	120	280		52	19	29		0	
	A	E	640	0	2600	74	14	1	11		0	
Coonabarabran	W	MXD	0	0	0							
	H	E	576	0	1360	25	51		24			
	W	E	140	40	240		100					
	A	E	160	40	280	7	76		20			
	A	W	0	0	0							
	W	MXD	520	40	1000							
	A	E	40	0	80							
	W	E	0	0	0							
	W	MXD	24	0	80							
	W	MXD	0	0	0							
	W	E	40	0	80							
	W	W	0	0	0							
	W	W	0	0	0							
	W	W	0	0	0							
	W	MXD	140	120	160							
	W	W	20	0	40							
	W	MXD	60	40	80							
	A	E	120	80	160	73	23	4				
Dubbo	W	R	20	0	40							
	W	MXD	40	0	80							
	A	E	0	0	0							
	H	MXD	20	0	40							
	A	E	80	0	240							
	L	E	136	0	520							
	L	R	4	0	40							
	A	E	72	0	160							
	A	E	236	40	800							
Forbes	W	?	4	0	40							
	A	E	0	0	0							
	W	MXD	0	0	0							
	A	E	0	0	0							
	L/A	MXD	60	40	80							
Gundagai	A	E	16	0	160							
Molong	A	E	0	0	0							
	W	MXD	0	0	0							
	W	MXD	20	0	40							
	A	E	0	0	0							
	L	MXD	0	0	0							
	H	W	0	0	0							
	H	E	0	0	0							
	W	W	0	0	0							
	L	MXD	0	0	0							
	W	E	0	0	0							
	A	E	600	320	880	68	24	4	4			
	A	E	52	0	280							
	W	MXD	4	0	40							
	W	MXD	0	0	0							
	A	E	348	0	2480	100						
	W	MXD	0	0	0							
	W	MXD	20	0	40							

Lab: Regional Vet Lab, Orange

RLPB	Age	Sex	Strongyle EPG			Larval differentiation %					Liver fluke EPG	Nemat. EPG
			Mean	low	high	Haem	Trich	Ost	Coop	Oes		
	W	MXD	0	0	0							
	A	E	60	0	120						no	
	A	E	40	0	80							
	A	?	32	0	120							
	W	MXD	0	0	0							
	A	E	60	40	80							
Mudgee	H	E	380	360	400	20	54			26		
	?	?	40	0	80							
	?	?	0	0	0							
	W	MXD	0	0	0							
	A	E	1060	920	1200	70				30		
	W	MXD	8	0	80							
	W	MXD	20	0	40							
	A	E	20	0	40							
	L	MXD	0	0	0							
	H	E	8	0	40							
	W#	?	0	0	0							
	H	?	0	0	0							
	A	MXD	224	0	960							
	A	E	80	40	120							
	W	MXD	40	0	80							
	A	E	40	0	80							
	H	MXD	140	40	240	2	56	3		39		
	W	MXD	880	680	1080	38	58	3		1		
Nyngan	W	MXD	0	0	0							
Walgett	A	E	34	0	120							
Wentworth	A	MXD	4	0	40							
Yass	A	E	4	0	40							
Young	H	E	0	0	0							
	H	E	0	0	0							
	W	E	0	0	0							
	W	E	0	0	0							
	W	MXD	0	0	0							
	A	E	120	0	480		53	5		42		
	H	E	0	0	0							
	L	MXD	0	0	0							
	W	MXD	0	0	0							
	W	W	16	0	40							
	A	E	40	0	80							
	A	E	120	80	160							
	A	E	20	0	40							
	A	E	36	0	80							

Lab: Veterinary Health Research, Armidale

RLPB	Age	Sex	Strongyle EPG			Larval differentiation %					Liver Fluke EPG	Nemat. EPG
			Mean	low	high	Haem	Trich	Ost	Coop	Oes		
Armidale	n/a	Ewes	0	0	0							0
	n/a	Ewes & lambs	0	0	0							0
	n/a	Wethers	0	0	0	0	0	0	0	0		0
	n/a	Hoggets	0	0	0							0
	n/a	Wethers	0	0	0							0
	n/a	Wethers	4	0	40	100	0	0	0	0		0
	n/a	Ewes & lambs	8	0	40	26	7	0	67	0		0
	n/a	Ewes	8	0	40							0
	n/a	Ewes & lambs	16	0	120							0
	n/a	Hoggets	20	0	80							0
	n/a	Wethers	28	0	160							0
	n/a	Wethers	28	0	80	90	8	2	0	0		0
	n/a	Wethers	40	0	120							0
	n/a	Hoggets	48	0	160							12
	n/a	Ewes	48	0	200							0
	n/a	Ewes	64	0	360	36	42	22	0	0		8
	n/a	Ewes & lambs	64	0	280							4
	n/a	Rams	72	0	200	100	0	0	0	0		0
	n/a	Hoggets	76	0	200	48	36	16	0	0	0	0
	n/a		76	0	240							0
	n/a	Wethers	80	0	200	0	97	3	0	0		0
	n/a	Ewes	96	0	360							0
	n/a	Mixed sex	100	0	200	96	4	0	0	0		0
	n/a	Ewes	108	0	400	58	25	8	0	9	0	0
	n/a	Wethers	108	0	360	16	59	22	1	2		0
	n/a	Ewes	120	0	200							0
	n/a	Lambs	144	0	280	0	72	11	6	11		72
	n/a	Wethers	152	0	520	3	85	12	0	0		0
	n/a	Weaners	160	40	400							4
	n/a	Wethers	168	0	360	40	54	4	0	2		0
	n/a	Ewes	173	0	400							13
	n/a	Wethers	184	0	440	50	41	9	0	0		0
	n/a	Ewes	192	0	440	64	29	0	0	7		8
	n/a	Ewes & lambs	200	0	440	0	89	11	0	0		0
	n/a	Ewes	200	0	560	90	8	2	0	0		4
	n/a	Wethers	204	0	640	96	3	1	0	0		0
	n/a	Ewes	208	0	640	14	74	9	0	3	25	0
	n/a	Hoggets	208	0	640	55	35	7	0	3		16
	n/a	Wethers	216	0	1680							32
	n/a	Wethers	220	0	720	22	49	24	0	5	0	4
	n/a	Ewes	224	0	640	98	2	0	0	0		0
	n/a	Wethers	224	40	360	0	100	0	0	0		0
	n/a	Wethers	228	0	640	6	64	16	0	14	0	12
	n/a		228	120	440	54	32	14	0	0		16
	n/a	Ewes	240	0	600	6	77	12	0	5		0
	n/a	Ewes	244	0	600	82	14	3	0	1		0
	n/a	Ewes	248	0	600	0	67	7	0	26		0
	n/a	Ewes	256	0	840	22	66	12	0	0	0	0
	n/a		264	0	640							12
	n/a	Weaners	268	0	640	17	70	11	2	0	0	8

Lab: Veterinary Health Research, Armidale

RLPB	Age	Sex	Strongyle EPG			Larval differentiation %					Liver Fluke EPG	Nemat. EPG
			Mean	low	high	Haem	Trich	Ost	Coop	Oes		
Armidale	n/a		280	40	1120	82	11	5	0	2		36
	n/a	Wethers	312	0	640	9	47	14	0	30	0	16
	n/a	Wethers	312	0	1200	78	15	7	0	0		0
	n/a	Hoggets	324	80	520	90	8	1	0	1		0
	n/a	Ewes	364	0	1680						0	0
	n/a	Ewes	380	0	760							0
	n/a	Ewes	384	0	1680							0
	n/a	Wethers	408	0	1080							0
	n/a	Ewes	408	80	1200	87	10	3	0	0		0
	n/a	Mixed	416	0	1520	73	26	0	0	1	0	8
	n/a	Weaners	428	120	1040	5	86	9	0	0	0	24
	n/a	Ewes	436	0	880	0	93	7	0	0		0
	n/a	Ewes	460	120	1680	53	36	7	0	4	0	0
	n/a	Hoggets	460	0	1160	100	0	0	0	0		0
	n/a	Ewes	476	0	2360	4	90	6	0	0	0	0
	n/a	Ewes & lambs	480	0	2120	74	21	5	0	0		0
	n/a	Ewes	480	80	1120	32	36	2	0	30		12
	n/a	Ewes	496	0	1600	77	17	2	0	4		0
	n/a	Ewes & lambs	508	0	960	69	26	5	0	0		0
	n/a	Ewes	568	40	1280							4
	n/a	Hoggets	568	200	1120	92	2	0	0	6		12
	n/a	Weaners	600	0	1560							36
	n/a	Wethers	620	40	960	4	89	2	0	5		8
	n/a	Hoggets	640	0	1800	91	6	3	0	0		4
	n/a	Ewes	640	200	1560	100	0	0	0	0	0	64
	n/a	Mixed sex	728	120	1520	89	9	2	0	0		0
	n/a	Wethers	740	0	2640	82	15	3	0	0		28
	n/a	Ewes	740	80	1360	66	27	7	0	0	0	0
	n/a	Ewes	752	200	2160	24	51	5	0	20		16
	n/a		752	0	1320						0	8
	n/a	Wethers	784	0	3560	85	12	1	0	2	0	0
	n/a	Wethers	784	320	2040	59	10	11	0	20		12
	n/a	Ewes & lambs	844	200	2240	96	4	0	0	0		4
	n/a	Lambs	900	80	4600	92	7	1	0	0		20
	n/a	Ewes	936	320	3040	38	52	10	0	0	0	0
	n/a	Ewes & lambs	972	80	3200	79	18	3	0	0		0
	n/a	Wethers	996	160	1920	88	8	4	0	0	0	0
	n/a	Wethers	1068	120	1880							0
	n/a	Weaners	1092	360	3960	95	4	1	0	0		56
	n/a	Ewes	1138	0	5000							0
	n/a	Ewes & lambs	1160	280	2040	94	3	3	0	0		4
	n/a	Ewes	1216	40	5560	100	0	0	0	0		0
	n/a	Rams	1236	0	4640							0
	n/a	Ewes & lambs	1264	280	2720	97	2	1	0	0		0
	n/a	Ewes	1292	160	2000	100	0	0	0	0		0
	n/a	Weaners	1400	200	3840	86	10	4	0	0		44
	n/a	Ewes & lambs	1440	0	2720	90	9	1	0	0	0	0
	n/a	Ewes	1484	520	3120							52

Lab: Veterinary Health Research, Armidale

RLPB	Age	Sex	Strongyle EPG			Larval differentiation %					Liver Fluke EPG	Nemat. EPG
			Mean	low	high	Haem	Trich	Ost	Coop	Oes		
Armidale	n/a	Ewes	1512	40	3160							0
	n/a	Weaners	1524	40	3360	98	2	0	0	0		52
	n/a	Ewes	1620	800	2520	99	0	1	0	0	0	0
	n/a	Ewes & lambs	1688	0	4920	90	9	1	0	0		4
	n/a	Weaners	1828	680	3400	88	12	0	0	0		16
	n/a	Ewes & lambs	3164	400	8840	91	9	0	0	0		0
	n/a	Ewes & lambs	3296	240	9800	89	11	0	0	0		0
	n/a	Weaners	3612	1200	6080							80
	n/a	Ewes	3720	520	7840							20
Cooma	n/a	Ewes	7504	0	31400	100	0	0	0	0	0	0
	n/a	Lambs	28	0	120	0	82	18	0	0		72
	n/a	Weaners	4	0	40							4
Coonabarabran	n/a	Ewes	12	0	40							0
	n/a	Weaners	12	0	40							40
	n/a	Ewes	64	0	160	24	47	24	0	5		4
Goulburn	n/a	Wethers	2108	120	9040	97	2	1	0	0	0	8
Maitland	n/a	Weaners	948	0	4760	94	0	1	0	5		124
Moree	n/a	Lambs	0	0	0							12
	n/a	Ewes & lambs	436	80	960	93	3	4	0	0		0
	n/a	Ewes & lambs	552	0	2760	100	0	0	0	0		12
Narrabri	n/a	Weaners	0	0	0							72
	n/a	Weaners	0	0	0							12
Narrandera	n/a	Hoggets	36	0	120	0	47	50	0	3		0
Northern New England	n/a	Rams	30	0	80							20
	n/a		110	0	280	28	68	4	0	0		0
	n/a	Ewes & lambs	164	0	640	0	96	4	0	0		0
	n/a	Wethers	180	0	800	2	85	6	0	7		0
	n/a	Weaners	196	0	640	6	75	19	0	0		0
	n/a	Mixed sex	232	0	840	80	20	0	0	0		0
	n/a	Ewes	264	0	800	26	65	9	0	0		0
	n/a	Ewes & lambs	380	0	1080	92	8	0	0	0		0
	n/a	Ewes	424	0	1560	57	35	2	0	6		0
	n/a		488	40	1080	48	43	5	0	4		12
	n/a		556	0	4720	100	0	0	0	0	0	16
	n/a	Wethers	632	80	1800	46	34	12	0	8	0	0
	n/a	Lambs	808	160	1640	10	78	11	1	0		24
	n/a	Hoggets	1040	560	2480	0	88	4	0	8		24
	n/a	Hoggets	1920	80	5840							0
n/a	Ewes	2388	840	4400	83	17	0	0	0	0	0	
n/a	Hoggets	2564	840	5160	70	27	3	0	0		0	
n/a	Wethers	2668	0	7000							0	
n/a	Hoggets									0		
Tamworth	n/a	Weaners	780	40	3160	92	6	0	0	2		20
Walgett	n/a	Ewes	460	120	1040	74	26	0	0	0		16
Yass	n/a	Lambs	0	0	0						0	92
	n/a	Lambs	0	0	0						0	28
	n/a		4	0	40						0	20

Lab: Veterinary Health Research, Armidale

RLPB	Age	Sex	Strongyle EPG			Larval differentiation %					Liver Fluke EPG	Nemat. EPG
			Mean	low	high	Haem	Trich	Ost	Coop	Oes		
Yass	n/a	Ewes	28	0	160						1	8
	n/a	Wethers	48	0	160						0	0

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

Also see **“Worms on the Web”**: www.agric.nsw.gov.au/reader/sheep-internal

NSW Department of Primary Industries Regional Veterinary Labs

www.agric.nsw.gov.au/reader/das-laboratory

“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

Wollongbar tel (02) 6626 1261

Private laboratories contributing data to WormFax

Veterinary Health Research, Armidale tel (02) 6771 1358

New England Veterinary Centres, Armidale tel (02) 6771 2022

Have you seen The Boss?

www.wormboss.com.au

The information contained in this publication is based on knowledge and understanding at the time of writing (March 2007). 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.

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