

# YARDSTICK

## SIRE EVALUATION SCHEME

**2000 Drop Hogget Performance & Combined Analysis  
of 1993 to 2000 Born Animals**

**Dale River, Western Australia**

Coordinated by

The Federation of Performance Sheep Breeders (WA Branch)  
Stud Merino Breeders Association of WA

And conducted under guidelines established by the  
Australian Merino Sire Evaluation Association



## **YARDSTICK SIRE EVALUATION SCHEME 2000 Drop Hogget Performance**

The Federation of Performance Sheep Breeders currently co-ordinate the Yardstick Sire Evaluation Scheme with the test site located at Dale River, Western Australia, 50 km west of Brookton along the Brookton Highway. The Yardstick Test Site is an accredited “Central Test Sire Evaluation” site and as such conforms to the requirements of the National Sire Evaluation Policy Committee.

### **Yardstick Mission**

*“To be influential in improving the profitability of merino wool growing in Western Australia and to identify superior sires, define their superiority and promote their use within the industry.”*

The Federation of Performance Sheep Breeders, Stud Merino Breeders Association of WA and the Yardstick Management Committee would like to acknowledge the support of:

Department of Agriculture of Western Australia  
Rampower  
Wool Agency Co  
Wesfarmers Dalgety

## **YARDSTICK RESULTS**

### **Performance Information**

The evaluation was conducted by progeny testing 16 sires at Dale River. All sires were randomly allocated 60 ewes and mated via laparoscopic artificial insemination using frozen semen. The ewes were of Peppin blood and deemed to be commercially acceptable to the industry. The progeny, once born, were run together as one flock and therefore exposed to the same environmental and management conditions. Day to day flock management decisions were the responsibility of the site manager while the overall policy decisions were governed by the Yardstick Management Committee.

The information presented in this booklet provides a comprehensive assessment of progeny performance, both measured and visually assessed. A series of graphs have been supplied to summarize the results as well as tables containing detailed performance information.

### **Across Site and Across Year Information**

The use of common (link) sires at other sire evaluation sites in conjunction with different year drops at Yardstick enables accurate comparisons between all sires. This report provides a combined analysis for the 110 different sires tested in Yardstick between 1993 and 2000. Across site information can be supplied on request.

## SIRE OWNER AND SIRE IDENTITY OF RAMS TESTED IN 1998/99

Code	Sire Identity	Poll/ Horn	Sire Code	Sire Owner	Address	Phone No.
1	AGWA 960315	H	5090121996000315	Agriculture WA	GSARI, PO Box 757 Katanning WA 6317	08 9821 3333
3	AGWA SS33268 #	H	5090121993SS3268	Agriculture WA	GSARI, PO Box 757 Katanning WA 6317	08 9821 3333
13	Billandri 961068	P	6005711996001068	Bill and Geoff Sandilands	“Billandri”, Kendenup WA 6323	08 9851 4030
14	Billandri 970248 #	P	6005711997000248	Bill and Geoff Sandilands	“Billandri”, Kendenup WA 6323	08 9851 4030
19	Cranmore Park 6.2	H	5001531996000002	Bruce Lefroy	RMB 427 Moora WA 6510	08 9654 9066
34	Eastville 7.7	H	5010811997000007	Brett Doncon	PO Box 17 Wickepin WA 6370	08 9888 1011
36	Ejanding 7666	H	5006421997000666	Brett Jones	Ejanding Dowerin WA 6461	08 9632 3012
39	Grindon 960006 *	H	5044551996000006	Roland Ritson	RMB 150 Boyup Brook WA 6244	08 9765 3053
44	Hazeldean 3.1053 *	H	5003831993001053	James Litchfield	Myalla Cooma NSW 2630	02 6453 5567
47	Hyfield 981178	H	5017741998001178	Dakin Farms	RMB 619 Kojonup WA 6395	08 9831 1760
57	Lewisdale 980065	H	5016751998000065	Ray Lewis	RMB 123 Wickepin WA 6370	08 988 6050
66	Merinotech 923043	H	6090401992003043	Bill Webb	Merinotech (WA) Ltd, PO Box 126 Kojonup WA 6395	08 9832 3007
68	Merinotech 966428	H	6090401996006428	Bill Webb	Merinotech (WA) Ltd, PO Box 126 Kojonup WA 6395	08 9832 3007
82	Purpareena 960072	H	5024571996000072	Murray Hall	RMB 571 Tenterden WA 6322	08 98524046
84	Romilly Hills MM980042	P	4890541998000042	Stan Dorman	RMB 235 Beverley WA 6304	08 9647 1056
100	The Grange 830963	H	5042081998030963	Lukis Blake	Multiplex Constructions, 12571 West Swan Rd, Belhus WA 6055	08 9296 1880

# Link Sires Across Years

\* Link Sires Across Sites

## TEST SITE MANAGER'S REPORT

**Test Site Location** Dale River, Brookton Highway, Shire of Beverley  
100km South East of Perth, 50km West of Brookton.

**Average Growing Season Rainfall 465 mm**

1995	Growing Season Rainfall	345 mm
1996	Growing Season Rainfall	590 mm
1997	Growing Season Rainfall	351 mm
1998	Growing Season Rainfall	354 mm
1999	Growing Season Rainfall	495 mm
2000	Growing Season Rainfall	330 mm

**Test Site Managers** Stan, Carole, Kita Dorman & Anne Woods  
RMB 235  
Beverley WA 6304

**Sheep Classers** Bill Johnson (1994/95/96)  
Bryan Sherlock (1994/95/96/97/98)  
Preston Clark (1998/99/2000/2001)  
Hugh Warden (1997)  
Peter Sanders (1999)  
Bevan Taylor (2000, 2001)

**Seasonal Conditions**

Lambing	A good green pick
Weaning	Good paddock feed
Summer	Long, hot and dry
Winter	Good break mid May Feed well away by 1 <sup>st</sup> June

### Major Management Events for 2000 drop

Event	Date	Age	Wool Growth
Mating (AI)	2-4 <sup>th</sup> January 2000		
Lambing	May 28 -June 8 <sup>st</sup> 2000		
Mulesing	July 15 <sup>th</sup> 2000	6 weeks	6 weeks
Weaning	September 25 <sup>rd</sup> 2000	4 months	4 months
Lamb Shearing	September 27 <sup>th</sup> 2000	4 months	4 months
Visual Assessment	August 29 <sup>th</sup> 2001	15 months	11 months
Wool Sampling	August 29 <sup>th</sup> 2001	15 months	11 months
Faecal Egg Count	August 29 <sup>th</sup> 2001	15 months	11 months
Hogget Shearing	October 2 <sup>nd</sup> 2001	16 months	12 months
Body Weighed	October 22 <sup>nd</sup> 2001	16.7 months	3 weeks

## TEST SITE MANAGER'S REPORT (cont)

### Management Factors

Supplementary feeding	lupins and hay	Dec 1 <sup>st</sup> 1998 to Feb 28 <sup>th</sup> 1999
Stocking rate		9.7 to 10.3/ha

### Management for 2000 drop

The recipient ewes spent 3 months on cereal stubble after AI, then on cereal stubble and were supplemented with lupins until lambing. In May the ewes were drafted into their sire groups and supplemented with hay and lupins during the lambing period. Ewes and lambs were then shifted to a pasture paddock and continued to be supplemented with lupins until mulesing in July. At this time feed was only just covering paddocks but ewes were coping well. Any multiple birth lambs seem to be smaller but continued to progress. The total winter rainfall fell over a three month period peaking in July making it a very short growing season. Ewes and lambs were alternated between two pasture paddocks of 46 ha each.

In September, the lambs were in a fair condition when weaned onto pastures that were already haying off. They were crutched and drenched with Cydectin, run at 12.5 stocking rate and on pasture until mid-January when moved to cereal stubble at a stocking rate of 18.0. In April they were then moved to a pasture paddock at a stocking rate of 11.0.

### Management for 1999 Drop

The ewes spent the first 3 months on lupin stubble, the rest on cereal stubble. Good rains fell in May as the ewes were drafted into their sire groups. Ewes were able to hold their condition well during lambing, even surviving many healthy twins. The weather remained mild with no storms and good feed through to mulesing. Lambs were marked in good condition and remained on good pasture until weaning. Green feed has continued through to the first week in November.

### Test Site Managers Comment for 1998 drop:

The summer period of 1997/98 was very dry and as this followed a below average spring, the ewes for 1998 drop were agisted from Jan 12<sup>th</sup> to April 14<sup>th</sup> on cereal stubble.

The opening break, although not the first rain, occurred on June 8<sup>th</sup> with 17mm of rain. This was followed by average to poor growth with some severe frosts. In July 1998, growth was 6kg/Ha/day which is far worse than 1997 which was 19kg/Ha/day. These figures are taken from a nearby Woolpro focus site. The fertiliser program which has been 100kg/Ha Superphosphate, was changed to; January - 100kg SCZM and late June - 100kg SuperPotash 1-1. Vaccine used for the 1998 lambs contained selenium and cobalt, which was not previously the case.

A third of the 1998 growing season rainfall fell over five days late in August. This provided good ground water top-up and filled most dams. It has set the scene for a spring which, although late for rainfall, should provide excellent feed.

## Objective Measurement

Trait performance for each progeny group is presented in Table 1 on page 5. These results are all expressed as progeny differences between sires. The result describes the relative performance of progeny which could be expected when sires are mated to ewes of equal quality. Objective data measured and included in the table are;

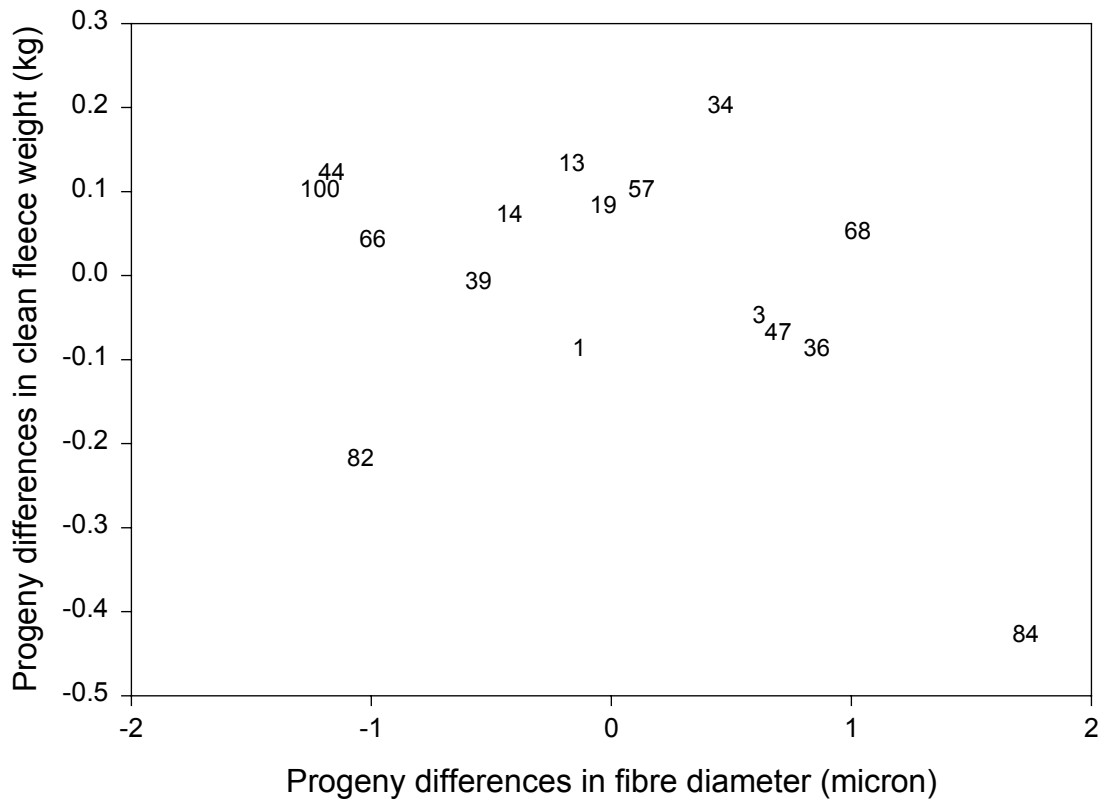
(i) BWT:	Body Weight (kg)
(ii) YLD:	Clean Yield (%)
(iii) CFW:	Clean Fleece Weight (kg)
(iv) GFW:	Greasy Fleece Weight (kg)
(v) SS:	Staple Strength (N/Ktex)
(vi) FD:	Fibre Diameter (Microns)
(vii) CV:	Coefficient of Variation of Fibre Diameter (%)
(viii) SL:	Staple Length (mm)
(ix) Fibre > 30 micron	Fibre above 30 micron (%)
(x) CUR:	Fibre curvature
(xi) Fleece rot	Independently assessed over three sites on each sheep's back and scored from 0 to 5 (0 being no fleece rot present).
(xii) Dags	Assessed on each sheep and scored from 0 to 5 (0 = no dags and 5 = high dags)
(xiii) WEC:	Faecal Worm Egg Count (eggs/gram)

Fleece testing was sponsored by **Wesfarmers Dalgety** and conducted by **Australian Fibre Testing**. Staple strength and staple length were tested by **Australian Fibre Testing**. Fibre diameter was measured using Laserscan, whilst length and strength testing was measured using an AGRITEST machine. Each fleece was typed at shearing by **Peter Leroy of Wool Agency Co**. Figure 1 indicates the distribution of clean fleece weight against fibre diameter for the different sires.

**Table 1: Progeny Differences Between Sires tested in 2000/2001**

Sire Number	Sire	Number of progeny	CFW kg	Yield %	FD micron	CV %	Curvature Deg/mm	SL mm	SS N/ktex	BWT kg	WEC epg	Dags	Fleece rot
3	AGWA SS33268	31	-0.05	0.56	0.63	-1.61	-1.56	4.63	4.59	-1.0	236	-0.27	-0.09
1	AGWA 960315	35	-0.09	-0.93	-0.12	-0.39	-0.38	1.70	5.81	-1.9	-314	-0.21	0.05
14	Billandri 970248	22	0.07	0.33	-0.41	0.21	4.35	-0.71	1.19	-0.2	1388	0.32	-0.07
13	Billandri 961068	31	0.13	1.32	-0.15	1.02	-4.04	-3.52	-6.87	-1.9	-157	-0.30	0.01
19	Cranmore Park 6.2	37	0.08	-0.72	-0.02	-1.11	-1.21	-0.52	4.77	1.0	17	0.01	0.06
34	Eastville 7.7	24	0.20	-0.09	0.47	0.96	-6.97	-2.06	-2.01	1.4	853	0.44	-0.08
36	Ejanding 7666	19	-0.09	-0.83	0.87	1.81	-1.80	5.25	-9.20	1.9	179	-0.36	0.20
38	Grindon 960006	41	-0.01	-0.40	-0.54	-1.26	6.90	0.93	2.74	1.2	38	-0.20	-0.12
44	Hazeldean 3.1053	31	0.12	1.60	-1.15	0.10	-1.83	4.25	-1.92	-0.7	583	-0.05	0.01
47	Hyfield 981178	39	-0.07	-0.02	0.71	-1.11	0.97	-0.88	9.32	-1.9	-24	-0.09	0.09
57	Lewisdale 980065	29	0.10	0.88	0.14	0.86	-1.30	-2.37	-2.69	2.6	1157	0.26	-0.12
66	Merinotech 923043	18	0.04	-3.70	-0.98	2.21	1.46	-2.22	-10.83	0.7	-358	0.17	0.27
68	Merinotech 966428	33	0.05	0.97	1.04	-1.08	2.76	-1.76	7.58	1.7	-1158	0.14	0.03
82	Purpleena 960072	26	-0.22	0.55	-1.03	0.13	-5.14	0.31	-0.35	-3.6	-922	-0.27	-0.12
84	Romilly Hills 980042	26	-0.43	0.12	1.74	-1.21	12.19	-2.37	5.19	5.0	-1268	0.19	0.00
100	The Grange 830963	21	0.10	0.35	-1.20	0.47	-4.41	-0.67	-7.31	-4.2	-250	0.23	-0.12
	Average	463	2.63	74.63	17.81	22.11	81.26	88.16	32.31	35.2	2375	1.27	0.12

**Figure 1: Yardstick Objective Measurement Assessment of Clean Fleece Weight Over Fibre Diameter of sires tested in 2000/2001.**



### Subjective (Visual) Assessment Data

Two sheep classifiers grade all progeny into either “Top”, “Flock”, or “Cull” grades based on their overall assessment of all traits. Individual traits are also scored on a 5 point scale. The results are presented in Table 2 on page 8 per *progeny group*. The difference in progeny numbers between the objective and subjective results is due to tag reading errors during the visual classing. Figure 2 on page 10 graphically illustrates the classifiers grade for tops against culls.

The Major Trait results for Conformation, Wool Quality and Pigment are indicated in Table 2. The results display the average score recorded by the progeny of each sire for the visual traits. Pigment is expressed in terms of wool and skin pigment present on non wool bearing areas. Individual trait information is presented in Table 3.

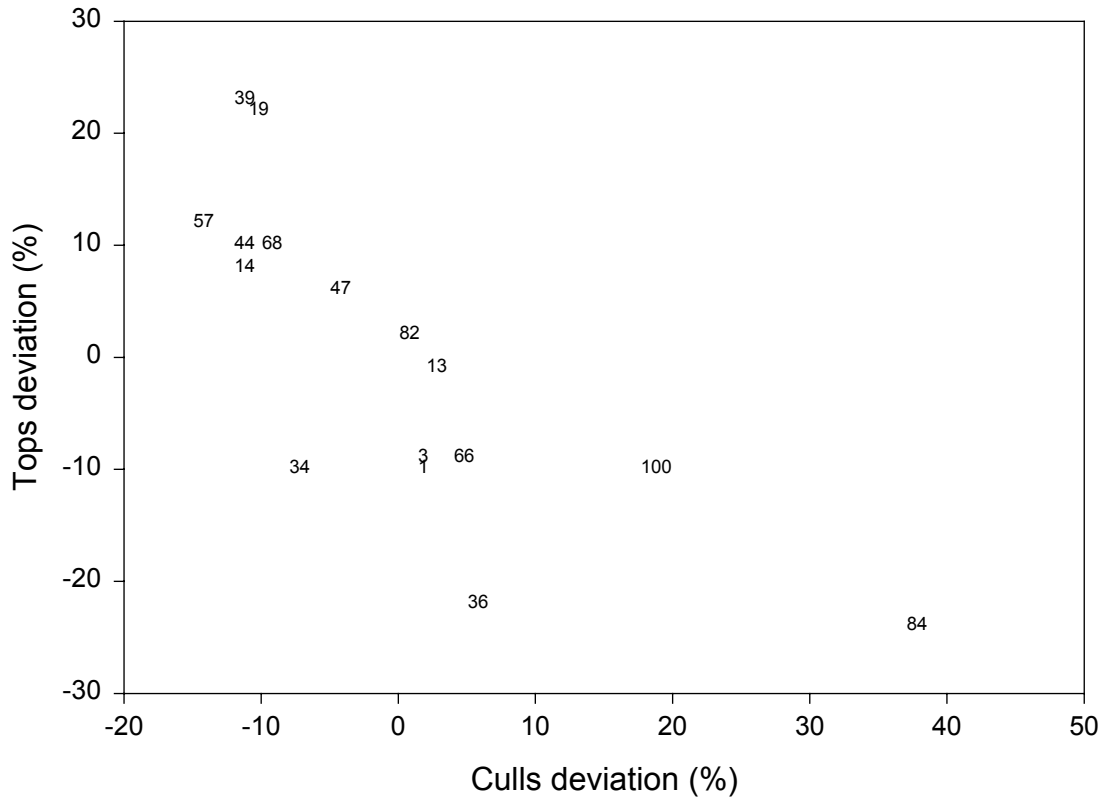
**Table 2: Subjective Assessment of 2000 Drop Lambs**

Sire	Tops %	Culls %	Conformation						Wool Quality					Skin pigment
			Face	Legs	Neck	Body	Jaw %	Back	Colour	Style	Softness	Weathering	Nourishment	
AGWA SS33268	-9	2	2.3	2.0	2.2	2.1	0.0	1.7	2.5	2.5	2.4	2.8	2.0	1.5
AGWA 960315	-10	2	1.7	2.3	1.8	1.9	2.9	1.8	2.3	2.6	2.6	2.4	2.2	2.3
Billandri 970248	8	-11	2.3	2.3	2.4	2.4	0.0	2.0	2.4	2.7	2.7	2.4	2.2	1.9
Billandri 961068	-1	3	2.2	2.1	2.2	2.3	0.0	2.1	2.2	2.7	2.7	2.5	2.5	1.7
Cranmore Park 6.2	22	-10	1.7	2.1	1.9	2.4	0.0	2.1	2.2	2.9	2.9	2.3	2.6	1.7
Eastville 7.7	-10	-7	1.7	2.1	1.9	2.4	0.0	2.0	2.6	2.5	2.5	2.5	2.5	1.7
Ejanding 7666	-22	6	2.3	1.8	2.2	1.8	0.0	1.7	2.6	2.1	2.1	2.6	1.9	1.8
Grindon 960006	23	-11	2.4	2.0	2.4	2.1	2.4	1.8	2.1	2.8	2.8	2.5	2.4	1.4
Hazeldean 3.1053	10	-11	2.0	2.0	2.1	2.4	3.2	1.9	2.2	2.8	2.8	2.4	2.5	1.9
Hyfield 981178	6	-4	2.2	2.0	2.2	2.3	0.0	2.1	2.2	2.9	2.8	2.5	2.6	1.5
Lewisdale 980065	12	-14	2.1	1.8	2.2	2.3	0.0	2.0	2.2	3.0	2.8	2.4	2.5	1.2
Merinotech 923043	-9	5	1.6	1.8	1.8	2.2	0.0	1.5	2.7	2.3	2.4	2.6	2.2	1.7
Merinotech 966428	10	-9	1.8	1.9	1.9	2.0	0.0	1.6	2.2	2.8	2.7	2.4	2.3	1.7
Purpareena 960072	2	1	2.6	2.3	2.4	2.0	0.0	2.2	2.0	2.8	3.0	2.3	2.6	1.7
Romilly Hills 980042	-24	38	1.4	1.6	1.4	1.6	3.7	1.5	2.8	1.6	1.7	2.8	1.4	1.3
The Grange 830963	-10	19	2.5	2.5	2.7	2.5	0.0	2.6	2.1	2.5	2.9	2.4	2.5	1.4
<b>Mean</b>	<b>28</b>	<b>17</b>	2.0	2.0	2.1	2.2	0.8	1.9	2.3	2.6	2.6	2.5	2.3	1.7

**Scoring system**

Conformation	1	to	5	Wool Quality	1	to	5
Face cover	Open		Muffled	Colour	White		Yellow
Neck development	Under		Overdeveloped	Character	Bad		Good
Back and shoulders	Weak		Well developed	Softness	Harsh		Soft
				Dust	Low		High
				Nourishment	Dry		Greasy
Legs and feet	Proportion of faults			Pigmentation	None (0)		High (5)
Jaws	Proportion of faults						

**Figure 2: Yardstick Subjective (Visual) Assessment of Tops Against Culls**



**Table 3: Classers comments on 2000 Drop Yardstick progeny**

Sire	Evenness score	Classers comments	
		Classer 1	Classer 2
AGWA SS33268	3.0 4.0	Smaller body size Structurally below average	Variable in wool type and size
AGWA 960315	4.0 4.5	Plainer type Dry in the wool	Plain sheep Mixed in size
Billandri 961068	3.0 2.5	Smallish body size	Average to good cutters with well nourished wools Smaller framers
Billandri 970248	3.0 4.0	Good staple length	Plainer sheep with dry wool type and variable in size A few leg problems
Cranmore Park 6.7	2.0 2.0	Shorter staples	Above average wool cutters, development and nourishment
Eastville 7.7	2.0 3.0	Bigger frames	Above average nourishment Bigger frame sheep
Ejanding 7666	2.0 2.0	Above average size	Dry in the wool Average to large frames
Grindon 960006	2.0 1.0	Average sheep	Above average body size Above average development
Hazeldean 3.1053	4.0 3.0	Whiter wools	A bit weak in the shoulders
Hyfield 981178	3.0 2.0	Shorter stapled wools	Medium to heavy cutters
Lewisdale 980065	2.0 2.0	Long bodied sheep Good style	Large frames Well covered
Merinotech 966428	2.0 2.0	Good staple length Better style	Good plain types with above average wool cut but dry

**Table 3: Classers comments on 2000 Drop Yardstick progeny (cont)**

Merinotech 923043	3.0 4.0	Shorter staples	Variable in wool type and size
Purpareena 960072	4.0 3.0	Smaller body size Above average coverage	Average to small size
Romilly Hills 980042	2.0 1.0	Big sheep Yellow and dry in the wool	Big plain bodied sheep Dry in the wool
The Grange 830963	4.0 3.0	Smallish sheep Good coverage	Small and short in the body with above average development but good wool type

### Appendix 1: Progeny differences between sires tested in Yardstick (1993 to 2000 Drop)

The use of two or more sires mated in different year drops enable a genetic link to be established. These links ensure that an accurate comparison of progeny performance can be compiled taking into account environmental differences that occur each year. Simply looking at the deviations from the mean of each year drop separately will not provide a true reflection of the relative genetic merit between the 119 sires mated in Yardstick since 1993.

YEAR	Progeny No	GFW (kg)	CFW (kg)	FD (µm)	CV (%)	BWT (kg)	SS (N/ktex)	SL (mm)	WEC <sup>1</sup> (epg)
1993	501	5.02	3.16	19.33	24.21	42.58	32.60	99.12	
1994	302	4.31	2.98	18.03	23.51	39.36	27.40	93.23	
1995	335	3.58	2.40	17.56	23.24	28.62	28.86	81.67	5.43
1996	413	3.66	2.68	18.30	24.77	32.18	21.76	78.59	4.62
1997	513	3.16	2.23	17.98	24.60	41.74	32.15	73.27	7.10
1998	603	4.11	2.95	19.45	21.81	40.04	30.99	81.19	8.10
1999	682	3.89	2.70	18.42	21.50	34.70	42.90	82.10	5.31
2000	463	3.52	2.63	17.84	21.91	44.79	33.39	88.18	11.35
Combine	3812	3.91	2.72	18.36	23.19	38.00	31.26	84.67	6.99

<sup>1</sup>WEC were not collected for the 1993 and 1994 born animals.

### Expected Progeny Differences (EPD) of sires

SIRENR	YEAR	SIRE	PROGENY	GFW	CFW	FD	CV	BWT	SS	SL	SDWEC
1	2001	AGWA 960315	35	-0.11	-0.11	-0.30	-0.30	-1.88	4.39	0.87	0.07
2	1996	AGWA BF1374	160	-0.14	-0.11	-0.05	-1.02	0.54	0.66	1.06	-0.42
3	2001	AGWA SS33268	109	-0.21	-0.14	0.11	-1.59	-1.63	3.07	2.78	0.72
4	1995	Avonlea 157	77	0.19	0.11	0.76	0.15	0.83	1.24	2.52	-0.38
5	1994	Baseflock B21934	57	-0.05	0.02	1.20	-0.18	1.71	3.08	2.83	-0.10
6	1994	Billandri 91.192	25	-0.05	0.04	-0.45	-0.59	-0.99	-1.34	-4.88	
7	1995	Billandri 92.006	20	-0.26	-0.25	-0.04	-0.34	-0.97	-0.77	-0.87	
8	1996	Billandri 93.386	23	-0.14	-0.12	-0.41	0.38	-1.98	-4.14	-5.88	-0.14
9	1996	Billandri 93.403	18	0.00	0.07	0.04	0.13	-0.14	0.04	-1.02	0.04
10	1998	Billandri 94.0090	34	0.03	0.09	-0.37	0.50	0.48	0.98	0.44	-0.26
11	1997	Billandri 94.087	45	-0.27	-0.13	-0.74	-0.87	-1.22	-3.37	2.70	0.32
12	1999	Billandri 95.0111	33	0.14	0.13	-0.02	0.16	-0.59	1.29	-3.28	0.32

SIRENR	YEAR	SIRE	PROGENY	GFW	CFW	FD	CV	BWT	SS	SL	SDWEC
13	2001	Billandri 961068	31	0.05	0.08	-0.32	0.88	-2.17	-5.46	-3.52	0.13
14	2001	Billandri 970248	55	-0.01	-0.01	-0.60	0.80	-0.67	1.14	-2.48	0.22
15	1997	Boolading 1642.9	29	0.28	0.30	1.68	0.46	1.09	1.60	6.59	-0.32
16	1994	Boolading 373	74	-0.02	-0.09	0.02	0.12	1.02	-0.08	-1.46	
17	1999	Boolading 941077	36	0.44	0.18	1.62	1.90	0.44	0.08	-0.31	0.18
18	1994	Collinsville 244.721	49	-0.28	-0.10	0.39	0.28	-3.27	3.13	-5.87	
19	2001	Cranmore Park 6.2	37	0.06	0.02	-0.07	-0.92	0.37	4.15	-0.74	0.05
20	1995	Cranmore Park 0.3	14	0.10	0.00	0.42	0.60	0.20	2.07	2.81	
21	1996	Cranmore Park 1.5	20	0.09	-0.04	-0.52	-0.75	1.07	-0.93	-2.68	0.17
22	1997	Cranmore Park 2.2	27	0.04	0.03	0.57	0.60	0.16	-1.31	1.47	0.30
23	1999	Cranmore Park 3.13	73	-0.11	-0.12	-0.08	-0.36	0.50	1.21	-2.13	-0.25
24	1998	Cranmore Park 3.3	36	0.26	0.15	0.02	-0.53	0.25	0.29	-0.50	-0.07
25	1999	Cranmore Park 4.2	25	-0.06	0.02	-0.04	-0.70	2.37	0.54	1.16	0.24
26	1999	Cranmore Park 4.8	31	0.02	0.02	-0.74	-0.09	1.35	-2.76	2.12	0.44
27	2000	Cranmore Park 5.13	47	0.17	0.04	-0.04	-0.41	0.53	5.83	-0.37	0.09
28	2000	Cranmore Park 5.3	38	0.15	0.11	0.27	-0.30	0.04	-2.19	-2.87	-0.24
29	1996	Cranmore Park 6.5	53	0.01	-0.07	-0.13	0.41	-0.87	2.02	2.45	0.12
30	1997	Cranmore Park 7.1	52	0.09	-0.04	-0.37	-1.44	3.21	0.26	0.65	0.05
31	1994	Cranmore Park 9.2	38	-0.16	-0.05	-0.03	-0.10	2.40	-0.75	4.02	
32	1998	Darijon Callum	24	-0.22	-0.15	-0.49	0.66	-0.56	1.81	-2.71	-0.05
33	1999	Dongiemon 6.7	28	0.01	-0.01	-0.31	0.40	0.90	-4.25	-0.63	0.03
34	2001	Eastville 7.7	24	0.18	0.13	0.23	0.82	1.00	-1.65	-2.16	0.34
35	2000	EF Smart 971233	35	0.13	0.08	0.19	0.81	0.31	-0.14	-0.50	-0.01
36	2001	Ejanding 7666	19	-0.07	-0.07	0.55	1.43	1.29	-6.34	3.49	0.23
37	1996	Galena 4669	20	-0.05	-0.09	0.51	1.99	-1.08	-1.46	-1.45	0.16
38	1996	Grindon 26	25	0.05	0.02	-0.24	-1.47	0.64	1.73	0.98	-0.34
39	2001	Grindon 960006	40	-0.02	-0.03	-0.76	-1.10	-0.13	1.97	0.26	0.11
40	1998	Haseley 4.1987	34	-0.17	-0.11	-0.17	0.22	2.32	-0.72	-1.95	0.09
41	1997	Haseley 530562	24	0.00	-0.04	0.72	-0.71	1.38	-1.37	-0.68	-0.16
42	1994	Haseley a1.65	21	0.25	0.28	0.16	-0.07	1.70	1.04	-3.03	
43	1998	Hazeldean 0.3007	26	0.06	0.06	-0.29	0.80	-0.21	-1.92	-0.77	-0.34
44	2001	Hazeldean 3.1053	31	0.03	0.07	-1.20	0.16	-1.30	-1.69	3.03	0.18
45	1994	Hazeldean 6.40	56	-0.01	0.04	-0.43	1.58	-2.34	-3.27	4.73	

SIRENR	YEAR	SIRE	PROGENY	GFW	CFW	FD	CV	BWT	SS	SL	SDWEC
46	1995	Hazeldean 9.16	24	0.03	-0.08	-0.31	2.35	-1.18	-6.19	3.21	
47	2001	Hyfield 981178	39	-0.13	-0.09	0.47	-0.88	-3.33	7.27	-1.29	0.02
48	1998	Hyfield Dakin 5.3	26	0.01	-0.08	-0.26	1.16	0.20	-4.32	-4.13	0.12
49	1994	Karingal H472	36	-0.18	-0.06	1.12	0.56	0.65	-1.44	4.98	
50	1999	Koonje Park (JAK)	32	0.17	0.27	-0.19	0.72	-0.60	1.93	2.41	0.14
51	2000	Kuranooking Park 539	36	0.08	0.12	0.56	-0.59	1.41	4.22	5.16	-0.29
52	1998	LC Abraham	35	-0.13	-0.07	0.66	-1.02	-0.25	0.16	0.67	0.00
53	1994	Lewisdale 333	34	-0.05	0.15	0.27	0.49	-2.22	-0.47	-3.84	
54	1994	Lewisdale 344	42	0.65	0.43	1.60	0.11	2.64	1.76	-0.57	
55	1998	Lewisdale 4.206	31	-0.12	-0.09	0.29	0.82	0.49	-1.21	-1.72	0.16
56	1994	Lewisdale 9.77	33	0.22	0.34	1.63	-1.02	3.35	0.56	0.05	
57	2001	Lewisdale 980065	29	0.04	0.06	-0.05	0.78	2.16	-2.25	-2.49	0.45
58	1995	Lewisdale L1.8	16	-0.31	-0.25	-0.55	0.07	-0.54	-0.84	-5.70	
59	1995	Lewisdale-Corr LC458	13	-0.18	-0.12	-0.50	-0.57	-0.72	-0.99	-3.78	
60	1994	Merinotech 0187	31	-0.11	-0.06	-1.06	0.91	0.34	0.12	5.89	
61	1995	Merinotech 211	18	-0.22	-0.13	-0.34	1.54	-1.03	2.88	1.82	
62	1996	Merinotech 2292	11	0.11	0.05	0.12	0.64	0.42	-2.88	0.36	0.21
63	1998	Merinotech 278	33	-0.07	-0.05	0.37	-2.40	-0.43	6.44	0.73	-0.05
64	1997	Merinotech 3104	28	0.00	0.03	0.15	-0.94	-1.26	-1.25	-1.58	-0.05
65	2000	Merinotech 5089	39	0.41	0.21	0.88	1.51	2.97	-3.41	7.14	-0.45
66	2001	Merinotech 923043	18	0.14	0.00	-0.97	1.69	-0.02	-7.30	-2.17	0.06
67	1999	Merinotech 955403	27	0.40	0.25	0.49	-0.20	-0.35	1.82	-2.36	-0.17
68	2001	Merinotech 966428	33	-0.03	0.01	0.76	-0.84	1.33	5.67	-2.01	-0.54
69	1999	Mirani 177.9	34	-0.11	-0.09	-1.12	-0.22	-1.69	-2.80	-8.05	0.18
70	1998	Monte Verde 144	13	-0.19	-0.12	0.01	0.86	-2.13	-0.55	-3.76	-0.03
71	1995	Monte Verde 23	18	0.33	0.24	-0.46	-0.12	0.34	1.04	1.14	
72	1997	Nerstane 52	27	0.20	0.17	-0.11	-0.87	-1.60	4.74	6.19	-0.40
73	1996	Nerstane 697	22	0.11	0.10	-0.54	0.30	-0.27	-0.46	3.91	0.20
74	1999	Nerstane 920002	28	-0.22	-0.15	-0.92	-0.99	-1.89	1.17	10.99	-0.19
75	2000	Nerstane 940426	41	0.05	0.13	0.08	0.61	-0.66	-0.27	-0.23	-0.30
76	1994	Parakeelya 141	36	0.43	0.19	-1.11	0.51	0.98	-5.37	5.49	
77	1998	Parakeelya 402	37	-0.08	-0.09	-0.27	-0.73	-0.72	-2.30	3.64	0.09
78	1997	Parakeelya 545	36	0.37	0.28	0.29	-0.01	1.20	-0.56	2.20	-0.12

SIRENR	YEAR	SIRE	PROGENY	GFW	CFW	FD	CV	BWT	SS	SL	SDWEC
79	1999	Parakeelya 6P903	22	0.42	0.19	0.23	0.34	-0.39	0.22	-4.51	0.15
80	2000	Pooginook Perkins 7.1	45	-0.38	-0.34	-1.12	1.05	-2.62	-5.67	-4.15	-0.09
81	1999	Purpareena 154	35	0.17	0.06	0.64	-0.05	-1.20	1.05	7.47	-0.05
82	2001	Purpareena 960072	26	-0.30	-0.20	-1.08	0.14	-4.12	-0.44	-0.30	-0.12
83	1997	Rolvenden 416	61	-0.01	0.00	0.69	-1.92	-0.41	4.29	5.26	0.05
84	2001	Romilly Hills 980042	27	-0.44	-0.31	1.37	-0.89	6.10	3.66	-2.42	-0.50
85	1997	Romilly Hills 68	25	-0.06	-0.05	0.00	-0.08	-0.83	-1.48	-3.75	0.04
86	1999	Romilly Hills 96099	33	-0.63	-0.54	1.82	-1.13	2.92	3.86	-2.81	0.16
87	2000	Romilly Hills MM96004	42	-0.52	-0.42	2.00	-1.21	5.46	1.80	-3.95	-0.52
88	2000	Romilly Hills SOH1	45	0.11	0.05	-0.47	-0.77	0.76	0.19	-2.15	0.21
89	2000	Romilly Hills SOH12	42	0.22	0.19	-0.09	-1.33	2.94	2.84	4.82	-0.27
90	2000	Romilly Hills SOH17	27	0.36	0.22	0.31	-1.20	1.52	3.28	4.56	0.21
91	1996	Roseville Park 0.938	23	-0.14	-0.10	-0.58	-0.16	-1.55	-0.59	-4.77	-0.13
92	1997	Roseville Park 3.1440	29	-0.09	-0.01	-0.54	-0.61	0.24	0.69	-5.51	0.17
93	2000	Roseville Park 7.32	35	-0.15	-0.09	-0.83	-0.34	-1.95	-3.36	0.42	-0.32
94	2000	Seven Oaks North 211	41	-0.04	-0.08	-0.17	-0.75	1.42	0.20	-1.64	0.16
95	1994	Sunny Valley 7	39	-0.07	-0.28	0.90	-0.18	-0.22	1.01	-4.02	
96	1997	The Grange 420223	66	0.15	0.11	-0.48	-0.02	-0.51	0.76	2.06	-0.21
97	1998	The Grange 501141	38	0.22	0.16	0.59	1.31	-2.02	-0.16	-2.41	0.04
98	1999	The Grange 60017	32	0.15	0.24	-0.65	0.89	-1.73	-1.24	0.24	-0.04
99	2000	The Grange 730490	44	-0.14	-0.04	-0.97	0.10	-0.71	-1.83	4.45	-0.13
100	2001	The Grange 830963	21	0.07	0.06	-1.28	0.37	-3.88	-5.34	-1.40	-0.03
101	1995	The Grange GR234184	20	0.02	-0.03	-0.96	0.60	0.09	-2.99	3.67	
102	1996	The Grange GR302445	33	-0.04	0.00	-0.63	0.39	0.46	-0.79	1.02	-0.29
103	1999	Wanganella 4	31	-0.07	0.02	0.02	1.20	-1.48	-3.82	-2.32	0.28
104	1995	Warranine Park 2.59	19	0.20	0.23	0.98	0.66	2.31	0.74	4.07	
105	1999	Warranine Park 6.8	36	-0.24	-0.15	-0.47	-0.88	0.17	1.16	-1.96	-0.25
106	1999	Wattle Dale 393.2	34	-0.28	-0.30	-0.64	0.09	-3.56	0.88	-3.32	0.22
107	1997	Wattledale 726	15	-0.24	-0.12	-0.34	-0.05	-0.29	1.06	-2.86	0.22
108	1995	Westbrook 19	16	0.05	0.08	1.10	-0.76	0.65	2.91	0.15	
109	1996	Yalgoo 924	46	-0.38	-0.25	-0.70	-1.25	-1.31	4.35	-0.81	0.23

Trait leaders are highlighted

**YARDSTICK LINK RAMS**

<b>Drop Across Site Links</b>					<b>Across Year Links</b>			
1993	Hazeldean 6.40	Cranmore Park 6.5	Parakeelya 141		Hazeldean 6.40	1993+94	Boolading 373	1993+94
1994	Hazeldean 6.40	Cranmore Park 7.1			Cranmore Park 6.5	1993+95	Baseflock B21934	1994+95
1995	Nerstane 697	Roseville Park 0.938	Yalgoo 924	Grindon 26	Rolvenden 416	1994+96	Cranmore Park 7.1	1994+95
1996	Nerstane 52	Roseville Park 1440	The Grange 420223	Cranmore Park 7.1	Avonlea 157	1995+97	Cranmore Park 3.13	1997+98
1997	Hazeldean 0.3007	The Grange 420223			AgWA 1374	1996-99	The Grange 420223	1996+97
1998	Nerstane 920002	Mirani 177.9	The Grange 600017		Billandri 970248	1999+2000	SS32368	1998-2001
1999	Nerstane 940426	Roseville Park 7.32	The Grange 730490					
2000	Hazeldean 3.1053	Grindon 960006						
2001								

## Appendix 2: Breeding objective indexes of sires tests in Yardstick from 1994 to 2001

### What are selection indices?

An index combines into one number the performance of an animal for two or more measured performance traits that are used to predict the total genetic merit of an animal for a specific breeding objective. It makes selection simpler, more consistent and more accurate. The following indices are based on the performance of the progeny of each sire. Nine indices have been applied to cover a wide range of breeding objectives and illustrate differences between sires on objectively measured performance from 1994 to 2001. The 3%, 6% and 12% micron premium (MP) indexes are the standard basic Rampower indexes. In addition to these indices a 30% Worm Egg Count (WEC) have been included. The 30% WEC index places 30% selection emphasis on WEC.

**The Federation of Performance Sheep Breeders and the Yardstick Management Committee do not endorse any particular breeding objective.**

Predicted genetic changes over 10 years from within flock selection for different breeding objectives.

		3%MP (Basic)	6%MP (Basic)	12%MP (Basic)	Index 4	Index 5	Index 6	Index 7	Index 8	Index 9	30% WEC
Clean Fleece weight		10%	6%	2%	0.457 kg	0.367 kg	0.237 kg	0.457 kg	0.363 kg	0.215 kg	0.267 kg
Fibre Diameter	Micron	0.1	-1.0	-1.5	-0.5	-1.0	-1.5	-0.5	-1.0	-1.5	-1.0
Staple Strength	N/ktex	1.1	0.1	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
Body Weight	Kg	0.5	0.3	0.1	0.5	0.5	0.5	0.1	0.1	0.1	0.0

### Appendix 2 (cont.): Selection indexes of sites tests in Yardstick from 1994 to 2001

SIRE NR	YEAR	SIRE	PROGENY	3%MP	6%MP	12%MP	Index 4	Index 5	Index 6	Index 7	Index 8	Index 9	30% WEC
1	2001	AGWA 960315	35	97.82	99.40	101.16	94.59	98.47	104.31	97.67	101.89	112.08	98.50
2	1996	AGWA BF1374	160	97.62	98.71	100.48	95.45	95.95	96.80	95.54	96.04	97.33	109.96
3	1999	AGWA SS33268	109	96.96	97.87	99.87	91.28	92.29	93.74	93.33	94.61	98.42	69.43
4	1996	Avonlea 157	77	101.23	98.11	95.27	102.83	99.06	93.38	102.40	98.64	91.76	109.68
5	1995	Baseflock B21934	57	98.00	93.80	90.66	97.49	91.95	83.69	97.13	91.64	82.14	92.49
6	1994	Billandri 91.192	25	102.40	104.15	105.63	102.86	104.90	107.90	103.07	105.11	108.54	
7	1995	Billandri 92.006	20	93.65	94.78	96.72	86.60	86.62	86.52	86.73	86.78	86.51	
8	1996	Billandri 93.386	23	97.50	99.12	100.59	92.90	93.61	94.38	92.27	92.91	92.32	98.87
9	1996	Billandri 93.403	18	101.78	101.32	100.63	103.20	103.00	102.67	103.25	103.06	102.70	101.73
10	1998	Billandri 94.0090	34	102.93	103.69	103.68	107.15	109.58	113.39	107.67	110.11	115.38	119.39
11	1997	Billandri 94.087	45	98.62	102.11	105.67	95.22	98.02	102.10	94.86	97.56	101.43	88.83
12	1999	Billandri 95.0111	33	103.50	103.04	102.12	106.18	106.93	108.04	107.05	107.90	110.12	96.81

**Appendix 2 (cont.): Selection indexes of sites tests in Yardstick from 1994 to 2001**

<b>SIRE NR</b>	<b>YEAR</b>	<b>SIRE</b>	<b>PROGENY</b>	<b>3%MP</b>	<b>6%MP</b>	<b>12%MP</b>	<b>Index 4</b>	<b>Index 5</b>	<b>Index 6</b>	<b>Index 7</b>	<b>Index 8</b>	<b>Index 9</b>	<b>30% WEC</b>
13	2001	Billandri 961068	31	102.44	102.84	102.39	101.90	101.60	100.76	100.70	100.27	97.00	97.44
14	2001	Billandri 970248	55	100.59	102.31	103.24	101.98	105.88	111.84	103.28	107.28	115.67	100.67
15	1997	Boolading 1642.9	29	104.25	97.09	90.32	108.04	99.28	86.00	106.91	98.20	81.65	105.68
16	1994	Boolading 373	74	97.35	97.54	97.97	96.47	96.18	95.85	95.95	95.59	94.87	
17	1999	Boolading 941077	36	100.20	92.95	85.84	100.94	91.98	78.27	99.48	90.53	72.84	81.83
18	1994	Collinsville 244.721	49	96.27	95.08	94.42	89.50	89.20	88.44	92.10	92.19	93.60	
19	2001	Cranmore Park 6.2	37	101.30	101.95	102.81	102.89	105.05	108.53	104.65	106.99	113.44	104.46
20	1995	Cranmore Park 0.3	14	98.64	96.86	95.22	98.28	96.82	94.65	98.78	97.42	95.62	
21	1996	Cranmore Park 1.5	20	100.36	102.71	105.03	101.66	103.96	107.58	101.17	103.33	107.26	99.00
22	1997	Cranmore Park 2.2	27	99.31	96.87	94.60	98.58	94.81	89.01	97.46	93.63	85.48	83.02
23	1998	Cranmore Park 3.13	73	97.21	98.05	99.31	95.44	96.31	97.74	95.82	96.71	99.02	104.96
24	1998	Cranmore Park 3.3	36	104.34	104.05	103.52	107.85	107.84	107.86	107.85	107.84	107.95	110.22
25	1999	Cranmore Park 4.2	25	101.14	101.56	102.15	104.52	104.63	105.08	103.71	103.68	103.94	96.33
26	1999	Cranmore Park 4.8	31	102.15	104.74	106.67	105.86	108.54	112.73	104.59	107.01	110.69	94.86
27	2000	Cranmore Park 5.13	47	101.49	101.71	101.93	104.29	107.02	111.41	106.70	109.69	118.12	105.34
28	2000	Cranmore Park 5.3	38	102.53	101.40	100.28	103.65	101.22	97.44	102.44	99.90	93.94	107.97
29	1994	Cranmore Park 6.5	53	98.15	98.63	99.05	96.49	98.22	100.83	97.90	99.79	104.37	95.44
30	1995	Cranmore Park 7.1	52	100.46	102.63	105.16	103.91	105.56	108.47	102.84	104.27	107.34	104.08
31	1994	Cranmore Park 9.2	38	98.65	98.97	99.47	100.29	99.74	99.15	98.87	98.11	96.38	
32	1998	Darijon Callum	24	96.63	98.53	100.20	94.69	98.30	103.83	96.16	99.89	108.04	101.85
33	1999	Dongiemon 6.7	28	100.18	101.12	101.66	101.34	101.08	100.67	99.27	98.72	95.85	99.68
34	2001	Eastville 7.7	24	102.52	100.84	98.68	106.10	103.94	100.70	104.71	102.41	97.17	91.63
35	2000	EF Smart 971233	35	101.22	99.87	98.15	103.20	102.05	100.30	102.84	101.66	99.27	101.77
36	2001	Ejanding 7666	19	96.16	93.73	91.44	93.97	87.97	78.75	90.09	83.69	68.34	77.21
37	1996	Galena 4669	20	95.48	92.93	90.32	91.37	88.06	82.81	90.80	87.50	80.30	81.41
38	1996	Grindon 26	25	101.87	103.40	105.21	103.43	105.40	108.54	104.11	106.11	110.85	117.41
39	2001	Grindon 960006	40	101.48	104.81	107.99	102.78	107.85	115.68	104.33	109.50	120.58	106.51
40	1998	Haseley 4.1987	34	97.37	98.20	99.12	98.30	98.57	99.22	97.04	97.11	97.00	95.14
41	1997	Haseley 530562	24	97.79	95.75	94.70	95.80	91.00	83.75	93.97	89.02	78.68	93.83
42	1994	Haseley a1.65	21	107.10	105.66	103.58	115.21	114.53	113.69	114.76	114.02	113.04	
43	1998	Hazeldean 0.3007	26	101.69	102.12	101.83	103.60	104.41	105.57	103.07	103.79	104.38	115.83

**Appendix 2 (cont.): Selection indexes of sites tests in Yardstick from 1994 to 2001**

<b>SIRE NR</b>	<b>YEAR</b>	<b>SIRE</b>	<b>PROGENY</b>	<b>3%MP</b>	<b>6%MP</b>	<b>12%MP</b>	<b>Index 4</b>	<b>Index 5</b>	<b>Index 6</b>	<b>Index 7</b>	<b>Index 8</b>	<b>Index 9</b>	<b>30% WEC</b>
44	2001	Hazeldean 3.1053	31	104.39	108.27	110.87	107.69	113.74	122.86	108.48	114.52	125.72	110.88
45	1994	Hazeldean 6.40	56	101.16	101.72	101.19	100.62	101.92	103.56	100.57	101.86	102.93	
46	1995	Hazeldean 9.16	24	97.27	97.39	96.60	94.87	94.03	92.45	92.88	91.80	86.96	
47	2001	Hyfield 981178	39	96.92	96.03	96.15	90.24	91.33	92.80	94.66	96.36	102.71	92.09
48	1998	Hyfield Dakin 5.3	26	97.75	98.34	98.49	96.66	96.18	95.35	94.84	94.11	90.84	91.66
49	1994	Karingal H472	36	95.56	91.57	88.51	91.55	84.66	74.12	89.71	82.73	68.29	
50	1999	Koonje Park (JAK)	32	107.20	106.62	104.82	113.90	115.91	118.97	115.20	117.34	122.40	112.26
51	2000	Kuranooking Park 539	36	102.29	100.23	98.52	105.64	104.18	102.20	106.44	105.11	104.33	113.02
52	1998	LC Abraham	35	97.32	95.74	95.31	92.97	89.42	83.93	92.63	89.11	82.20	87.96
53	1994	Lewisdale 333	34	103.24	101.54	99.45	103.28	101.93	99.59	103.88	102.66	99.97	
54	1994	Lewisdale 344	42	108.12	101.00	93.94	116.91	108.45	95.79	115.21	106.68	90.63	
55	1998	Lewisdale 4.206	31	96.42	95.30	94.38	94.23	92.04	88.70	93.23	90.95	85.93	85.71
56	1994	Lewisdale 9.77	33	106.04	99.74	94.23	112.55	103.30	89.49	109.96	100.54	82.23	98.48
57	2001	Lewisdale 980065	29	101.30	100.87	99.92	105.47	104.42	103.01	103.50	102.19	98.71	88.49
58	1995	Lewisdale L1.8	16	94.50	97.21	100.16	89.68	92.43	96.57	90.00	92.73	97.77	
59	1995	Lewisdale-Corr LC458	13	98.07	100.52	103.12	95.34	97.75	101.35	95.62	98.03	102.34	
60	1994	Merinotech 0187	31	100.23	103.69	106.06	103.03	108.90	117.97	103.78	109.61	121.25	
61	1995	Merinotech 211	18	96.46	97.29	97.62	94.73	98.04	103.09	96.77	100.29	108.48	
62	1996	Merinotech 2292	11	100.74	99.81	98.59	101.79	99.78	96.68	100.20	98.02	92.49	91.58
63	1998	Merinotech 278	33	99.19	99.29	100.77	96.49	97.34	98.75	99.29	100.50	105.65	99.71
64	1997	Merinotech 3104	28	100.88	100.77	101.07	98.68	97.51	95.54	98.58	97.44	94.59	98.70
65	2000	Merinotech 5089	39	103.01	98.42	93.40	109.03	102.22	92.01	105.43	98.26	82.69	113.25
66	2001	Merinotech 923043	18	101.14	103.70	104.77	103.39	105.56	108.71	100.89	102.68	103.09	104.10
67	1999	Merinotech 955403	27	105.80	103.36	100.68	109.90	108.06	105.25	110.49	108.78	106.16	113.04
68	2001	Merinotech 966428	33	99.13	96.87	95.54	99.53	97.65	95.05	100.87	99.19	98.35	114.48
69	1999	Mirani 177.9	34	100.03	104.37	108.12	98.44	103.63	111.33	98.85	103.99	112.92	100.08
70	1998	Monte Verde 144	13	96.17	96.10	96.08	90.98	91.01	90.80	91.71	91.86	91.84	92.22
71	1995	Monte Verde 23	18	107.60	108.47	108.27	115.10	118.04	122.62	115.78	118.73	125.06	
72	1997	Nerstane 52	27	105.15	105.44	105.47	107.79	110.71	115.14	110.74	114.02	122.48	125.73
73	1996	Nerstane 697	22	103.75	105.16	105.70	107.43	110.27	114.59	107.78	110.61	115.99	104.87
74	1999	Nerstane 920002	28	98.55	102.79	107.04	95.30	101.18	110.03	97.43	103.49	115.92	110.45

**Appendix 2 (cont.): Selection indexes of sites tests in Yardstick from 1994 to 2001**

<b>SIRE NR</b>	<b>YEAR</b>	<b>SIRE</b>	<b>PROGENY</b>	<b>3%MP</b>	<b>6%MP</b>	<b>12%MP</b>	<b>Index 4</b>	<b>Index 5</b>	<b>Index 6</b>	<b>Index 7</b>	<b>Index 8</b>	<b>Index 9</b>	<b>30% WEC</b>
75	2000	Nerstane 940426	41	103.12	102.08	100.48	105.40	104.94	104.17	105.52	105.10	104.13	114.66
76	1994	Parakeelya 141	36	107.23	110.25	111.57	115.28	118.92	124.50	113.31	116.59	120.83	
77	1998	Parakeelya 402	37	98.66	100.26	102.15	95.72	96.29	97.02	95.23	95.73	95.69	93.55
78	1997	Parakeelya 545	36	106.81	104.89	102.41	113.62	111.61	108.65	112.59	110.47	106.08	114.45
79	1999	Parakeelya 6P903	22	104.35	102.76	100.69	107.68	106.58	104.86	107.77	106.72	104.71	101.32
80	2000	Pooginook Perkins 7.1	45	92.86	97.35	101.47	84.69	88.77	94.60	84.24	88.20	93.51	93.96
81	1999	Purpareena 154	35	100.11	97.69	95.68	98.13	95.21	90.62	98.64	95.87	90.79	95.78
82	2001	Purpureena 960072	26	96.82	101.20	105.20	90.27	96.63	105.94	92.83	99.44	112.20	104.12
83	1995	Rolvenden 416	61	99.43	98.04	97.98	96.61	94.77	92.01	98.18	96.60	95.30	92.60
84	2001	Romilly Hills 980042	27	89.03	85.72	84.85	85.64	78.76	68.97	83.38	76.29	64.01	91.02
85	1997	Romilly Hills 68	25	98.66	98.88	99.28	96.11	95.59	94.67	95.82	95.29	93.58	94.25
86	1999	Romilly Hills 96099	33	82.25	78.21	77.74	68.39	59.59	46.50	67.33	58.56	42.93	50.02
87	2000	Romilly Hills MM96004	42	85.05	80.04	78.44	76.02	64.93	48.58	72.71	61.38	39.88	76.07
88	2000	Romilly Hills SOH1	45	102.90	104.78	106.39	106.13	108.71	112.75	106.24	108.77	113.87	102.83
89	2000	Romilly Hills SOH12	42	106.14	106.51	106.73	114.39	115.70	118.11	114.39	115.63	119.42	124.76
90	2000	Romilly Hills SOH17	27	105.89	104.69	103.57	111.92	111.41	110.89	112.45	112.01	112.60	104.19
91	1996	Roseville Park 0.938	23	98.68	101.14	103.46	96.03	99.22	103.95	96.94	100.21	106.37	105.29
92	1997	Roseville Park 3.144	29	101.14	103.39	105.44	102.58	105.81	110.82	103.20	106.45	113.17	101.62
93	2000	Roseville Park 7.32	35	99.45	102.86	105.95	96.47	99.87	104.80	96.52	99.88	105.01	112.34
94	2000	Seven Oaks North 211	41	98.70	99.94	101.55	98.86	99.67	101.09	98.43	99.15	100.71	94.49
95	1994	Sunny Valley 7	39	90.56	88.44	88.00	81.25	76.78	69.91	81.09	76.71	68.44	
96	1997	The Grange 420223	66	104.05	105.40	106.01	107.55	110.63	115.34	108.51	111.66	118.21	119.10
97	1998	The Grange 501141	38	102.31	99.01	95.26	102.31	99.26	94.35	102.69	99.79	93.91	96.96
98	1999	The Grange 60017	32	107.45	108.47	107.89	112.98	116.30	121.16	113.75	117.11	123.17	119.52
99	2000	The Grange 730490	44	100.92	104.42	107.16	101.67	106.34	113.38	101.95	106.56	114.87	112.76
100	2001	The Grange 830963	21	104.32	108.42	111.08	103.89	109.20	116.79	104.30	109.58	117.63	113.20
101	1995	The Grange GR234184	20	101.01	104.15	106.32	103.06	107.01	113.01	102.44	106.21	112.41	108.66
102	1996	The Grange GR302445	33	101.15	103.15	104.46	103.65	106.71	111.43	103.59	106.56	112.13	117.56
103	1999	Wanganella 4	31	99.79	99.03	97.78	98.13	96.55	93.87	97.07	95.41	90.42	86.83
104	1995	Warranine Park 2.59	19	103.82	99.26	94.60	109.61	104.18	96.11	108.10	102.56	91.98	
105	1999	Warranine Park 6.8	36	97.43	100.05	103.04	95.39	98.48	103.27	96.21	99.33	106.03	108.15

**Appendix 2 (cont.): Selection indexes of sites tests in Yardstick from 1994 to 2001**

<b>SIRE NR</b>	<b>YEAR</b>	<b>SIRE</b>	<b>PROGENY</b>	<b>3%MP</b>	<b>6%MP</b>	<b>12%MP</b>	<b>Index 4</b>	<b>Index 5</b>	<b>Index 6</b>	<b>Index 7</b>	<b>Index 8</b>	<b>Index 9</b>	<b>30% WEC</b>
106	1999	Wattle Dale 393.2	34	93.40	96.59	100.06	84.39	88.86	95.35	86.94	91.69	101.35	84.34
107	1997	Wattledale 726	15	97.53	99.13	100.83	95.64	98.01	101.64	96.52	98.95	104.22	92.06
108	1995	Westbrook 19	16	100.24	96.52	93.78	99.82	94.96	87.63	99.96	95.22	87.10	
109	1996	Yalgoo 924	46	95.38	99.34	103.91	90.32	96.30	105.44	93.44	99.71	113.97	91.85

\* WEC were not collected in 1994 and 1995

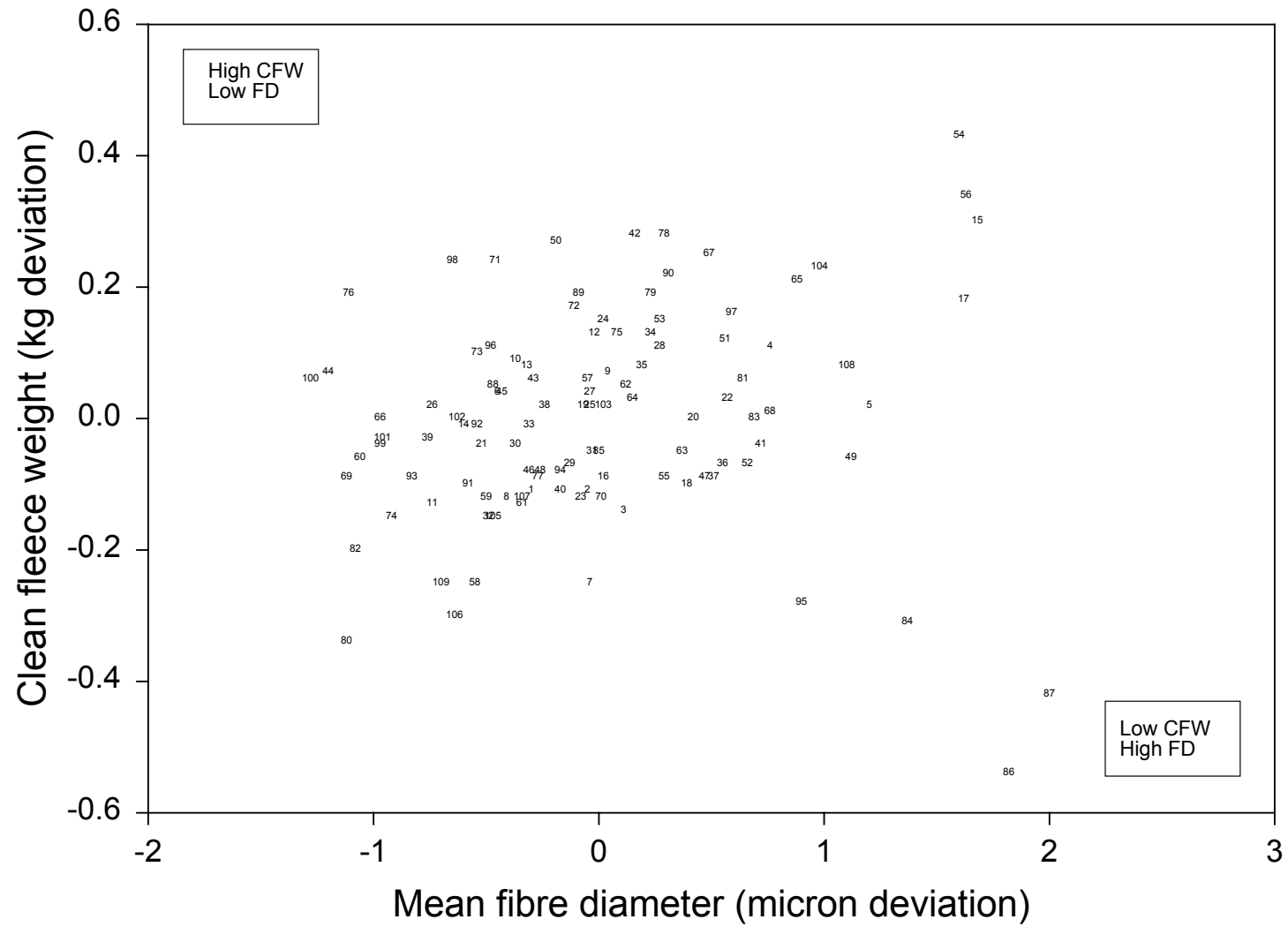


Figure 3. Clean Fleece Weight Over Fibre Diameter

## Yardstick Management Committee

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