

New England Merino Sire Evaluation



1998 Drop 1st & 2nd Evaluations
and
1999 Drop 1st Evaluation

Conducted by

NEW ENGLAND MERINO SIRE EVALUATION ASSOCIATION

under the auspices of

The Australian Merino Sire Evaluation Association

with support from

RAMPOWER

and managed by

SELECT Breeding Services

Foreword

NEW ENGLAND MERINO SIRE EVALUATION ASSOCIATION

As the result of meetings in late 1989, a group was formed to conduct Merino Sire Evaluation in the New England. In December 1992, the New England Merino Sire Evaluation Association was formed.

The first programs of insemination was conducted at "Mirani" near Walcha, NSW in April 1990 and 1991. In 1992 and 1993 "Gostwyck Station" made available 800 fine wool ewes for the progeny tests, followed by "Birralee" in 1994 and 1995 and then "Deeargee" in 1996. The Sire Evaluation program has been hosted by CSIRO Chiswick for the annual matings since 1997. The program has operated with assistance from CSIRO Livestock Industries, NSW Agriculture and the University of New South Wales.

Following the tagging of lambs at around two weeks of age, the ewes and their lambs are moved from their sire lambing plots and boxed as one group. The full drop of each sires' ewe and wether lambs are measured and visually assessed in the spring at 12 months of age in 12 months wool growth and again 12 months later. This booklet reports the results of the evaluation of the 1998 drop and 1999 drop progeny.

2001 Open Day

The 1998, 1999 and 2000 Drop progeny described in this report will be on display at the annual Open Day on Thursday 15 February 2001, at CSIRO Chiswick, New England Highway, Armidale NSW.

Website: <http://select.anprod.csiro.au/neses.htm>

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Objective measurements on fleece samples by Laserscan instrumentation were conducted by the Australian Wool Testing Authority Ltd in their Sydney Laboratory. The New England Merino Sire Evaluation Association acknowledges the support of AWTA Ltd in this work.

October 2000.

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The information in this booklet provides a comprehensive assessment of sire's progeny performance, both measured and visually assessed. Figure 1 & 2 for each trial, and the Breeding Objective Index values provide a summary of the results. Additional tables and graphs contain the detailed performance information.

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Understanding the Results

Tables

Sire Graph Code:	Allows a sire to be located on the summary graphs and some tables.
Sire Identity:	Identity of the breeder and the sire's number or name.
No. of Progeny:	The number of progeny a sire had at the most recent measured analysis.
Estimated Progeny Values:	Estimated Progeny Values (EPV) express the expected performance of progeny of a sire relative to another sire in the evaluation when mated to an equal allocation of ewes. EPV are the units used to describe the performance of the major measured traits (see information on accuracy overpage). They are expressed as deviations (dev) from the average of sires in the evaluation. Fibre Diameter traits, Yield and Staple Length EPV's are presented as deviations from the average, expressed in the same units as they were measured. Greasy and Clean Fleece Weights and Body Weights are percentages - 100% equals average and, for example, 10.0 is 10% above average performance of the group.
Measured Traits:	<p><u>GFW %</u>: Greasy Fleece Weight (percentage) <u>CFW %</u>: Clean Fleece Weight (percentage) <u>FD μm</u>: Average Fibre Diameter (micron) <u>BWT %</u>: Body Weight (percentage) <u>CV %</u>: Fibre Diameter Coefficient of Variation <u>Yld %</u>: Washing yield of the midside sample <u>SLen</u>: Staple Length measured in mm at the midside <u>SStr</u>: Staple Strength measured in N/ktex on 10 staples from the midside <u>FEC</u>: Faecal Egg Count. FEC values relate to; - Highly Susceptible: 0.75 & higher - Highly Resistant: -0.75 & lower - Susceptible: 0.50 to 0.75 - Resistant: -0.50 to -0.75 - Mod. Susceptible: 0.25 to 0.5 - Mod. Resistant: -0.25 to -0.5 - Average susceptibility for Faecal Egg Count: 0.25 to -0.25.</p>
Sire Averages:	<p>Sire Averages are the average performance of all the progeny of a sire. No account is made for factors which can improve the accuracy. <u>Fibre Curvature</u>: Curvature relates strongly to crimp frequency. <u>Face Cover</u>: 1 to 5 score, with 1 being very open and 5 very muffled. <u>Wrinkle</u> (Body/Neck): 1 to 5 score, with 1 being very plain and 5 very wrinkled. <u>Fleece Rot Score</u>: The average degree of fleece rot of progeny based on a 0 to 5 score with 0 = no fleece rot, 1 = minor and 5 = a very high level. <u>Fleece Rot Incidence</u>: The percentage of a sires progeny with some level (that is a score from 1 to 5) of fleece rot.</p>
Index Options:	<p>Breeding Objective index options provide the relative value of sires based on a combination of the <u>measured traits</u> - CFW, FD, FDCV & BWT. It should be noted that these are only some of the many indexes which can be used to describe an individual breeder's objective for measured traits. If a breeder uses a sire, the relative performance of the flock must be considered to establish the change that can be expected. <u>The RAMPOWER standard indexes - 3%, 6% & 12% Micron Premium</u> - have been endorsed by the Australian Merino Sire Evaluation Association as the base indexes for sites to provide combined measured trait results (Table 4). <u>3% MP</u>: Maintain FD while maximizing the increase in CFW, maintaining BWT and improving FDCV at 1/5th the value of FD which is in line with spinning performance. <u>6%MP</u>: Moderate level of downward pressure on FD, while maintaining a high level of increase in CFW, maintaining BWT and improving FDCV at 1/5th the FD value. <u>12%MP</u>: A high level of downward pressure on FD, while obtaining a small increase in CFW, maintaining BWT and improving FDCV sufficiently to maintain staple strength. <u>Additional index</u> A 20% index also appears in Table 4.</p>

Understanding the Results

Classer's Grade:	Two Classers grade all progeny as either Tops, Flocks or Culls based on their visual assessment of all traits. The percentage of <u>Tops</u> and <u>Culls</u> is presented.
Group Traits:	The performance for a comprehensive list of traits (in addition to those measured) are scored by the two classers as 'positive', 'average', or 'negative' performance. Traits are grouped into <u>Conformation</u> , <u>Wool Quality</u> and <u>Markings</u> to provide a summary of visual assessed performance. Each trait group shows the percentage of a sires progeny with a positive score or negative score for 1 or more traits in the group.
Individual Traits:	The percentage of progeny which score 'Positive' or 'Negative' for each trait. The table lists individual traits within their Trait Group. A Positive % that is <u>above</u> the groups average indicates good performance for that trait. A Negative % that is <u>below</u> average indicates good performance.
Progeny Group Classing:	An assessment of the evenness of progeny groups carried out in ½ wool between 1st & 2nd evaluations. Classers assess the progeny for wool quality, wool quantity, constitution & conformation - each 10 points & maximum score of 40.

Summary Graphs

Performance distribution graphs provide a summary of performance of sires for two traits such as **Classers 'Tops' and 'Culls'**. Use the labels on the graph to obtain a general idea of the performance of sires in that area of the graph, eg. High Tops / Low Culls.

Accuracy of Estimated Progeny Values

Estimated Progeny Values (EPVs) express the expected performance of progeny of a sire relative to another sire in the evaluation when mated to the same standard of ewes.

Estimated Progeny Values improve the accuracy of sire results because they account for the association between traits, adjustment for birth effects and the number of progeny a sire has in the analysis.

True Progeny Values would be achieved if the number of progeny evaluated for each sire was infinite. Because the number of progeny in the evaluation is not infinite, performance shown in this report is described as *Estimated* Progeny Values.

The correlation (similarity) between the *Estimated* Progeny Value and the *True* Progeny Value is higher as (i) number of progeny is increased, and (ii) the heritability of the trait is greater. If the number of progeny were infinite the correlation between the *Estimated* and *True* Progeny Value would be perfect (described as 100%). Without progeny test information the correlation between the *Estimated* and *True* Progeny Value of sires from different sources would be zero (0.0%). The correlation between *Estimated* and *True* Progeny Value improves rapidly from 0.0% with no progeny to 77% with 10 progeny. The rate of improvement in correlation slows from 86% with 20 progeny, to 90% with 30 progeny and 92% with 40 progeny. Note the correlation used in this example is for a trait such as fibre diameter with a high heritability (0.5).

Sire Codes

Sire codes are an international system which provides a unique number for all sheep when processing across flock data. A sire code has 16 digits

- 2 for breed of flock: 50 (Merino) & 60 (Poll Merino)
- 4 for flock. AASMB flock code or unregistered code
- 4 for year of drop
- 6 for tag number used in breeders records

Understanding the Results

Wool Quality and Fleece Value

Wool Quality performance is described by Style Grade, Staple Length, Colour, Strength and Quality Number in Table 6. All fleeces were assessed at shearing for Length, Style and Colour as described by the AWEX type system (Style with additional grades as described following the Table).

Style Grade is assigned using a numbering system from 1 to 9:

Grade	Style	Description
1	SPN+	Long, soft, bright, well nourished wool with minimum dust penetration and well defined, even crimp.
2	SPN	Good length, soft, bright well nourished wool, very slight tip and well defined even crimp.
3	SPN-	Good length, soft, bright, well nourished wool, some dust penetration, well defined crimp, with some variation allowed throughout the fleece.
4	BTM+	Good length and colour, some dryness allowed, some dust penetration, good crimping with some variation of crimping and length allowed through the fleece.
5	BTM	Good length and colour, some dryness allowed, some dust penetration, some variation in character and length throughout the fleece.
6	GTM+	Good length and medium colour, dry wool's with dust penetration, variation in crimping and length through out the fleece.
7	GTM	Good to medium length, medium colour, drier wools, variations through out the fleece for crimping length and or tensile strength.
8	ATM+	Good to medium length, medium to heavy colour, poor crimp definition and variation in length.
9	ATM	Short, harsh, medium to heavy colour, dry wool, with dust penetration and wasty tip and ill defined crimp and lacking in tensile strength..

Staple Length is assessed at shearing as A (=1), B (=2), or C (=3) length. A lower number means longer staples.

Colour is assessed at shearing as nil (=1), H1 (=2), or H2 (=3). A lower number means less colour.

Staple Strength is assessed at shearing as sound (=1), W1 (=2), or W2 (=3) strength. A lower number means sounder wool.

Quality Number is assessed at shearing as 74's, 70's, 66's etc. A lower number means bolder crimp.

Fleece Value (\$/fleece) – The combination of style grade, staple length, colour and strength is used to value each fleece, according to its fibre diameter. The c/kg price is determined on a grid produced from the average of the 1999-00 selling season at Newcastle. This price is multiplied by the fleece weight to arrive at the \$/fleece.

Link Sires

Link Sires are evaluated to provide links between other Central Test Sire Evaluation Sites & Years. Links are entered at the request of the Association and the agreement of the owner. Link Sires are marked by * in tables and graphs.

Fine and Superfine Groups

For 1998 and 1999 Drop results, sires nominated as superfine by the entrant are listed first and a separate average for the superfine group is given. Both fine and superfine performance is expressed relative to the average of all sires. From the 2000 joining, superfine sires will not be specifically identified.

1998 Drop 1st and 2nd Evaluations

New England Merino Sire Evaluation 1998 drop 1st & 2nd Evaluations

1st Evaluation: Age - 12 months Wool growth - 12 months

2nd Evaluation: Age - 24 months Wool growth - 12 months

Sire and owner details

Graph Code	Sire Identity & Sire Code	Contact Name, Address Phone and Fax Number
1	Yalgoo 539 5015521995000539	Grant Nivison, Yalgoo Partnership, "Yalgoo", Walcha, 2354. Ph: 02 6777 2525 Fax: 02 6777 2875
2	Emu Creek W6 172 50360219920W6172	Roland Gill, "Emu Creek", Walcha 2354. Ph: 02 6777 9119, Fax: 02 6777 9112
3	RockBank Duncan 5036991995BL0070	Bob Chambers, "Brooklyn", RMB 523, Wagga Wagga 2650. Ph: 02 6928 1123, Fax: 02 6928 1127
4	Grindon Orange 114 5044551994000114	R.F and E.A Ritson, RMB 150, Boyup Brook 6244. Ph: 08 9765 3053 Fax: 08 9765 3006
5	The Grange 680052 5046700000680052	Lukis Blake, "The Grange" 12571 West Swan Rd. Belhus 6055. Ph: 08 9296 1880 Fax: 08 9296 1088
6	CSIRO, Superfine #1 50901419930L0418	Ian Purvis, CSIRO Livestock Industries, Locked Bag 1, Armidale 2350. Ph: 02 6776 1373 Fax: 02 6776 1333
7*	Lorelmo Poll 1733 6004301990001733	John Cordingley, "Topdale", Walcha 2354. Ph: 02 6769 2235, Fax: 02 6769 2235
8	Hazeldean 93.1053 5003831993001053	James Litchfield, Hazeldean Pty Ltd, "Myalla", Cooma 2630. Ph: 02 6453 5567 Fax: 02 6453 5532
9*	Nerstane 697 5032981986000697	John McLaren, "Nerstane" Woolbrook 2354. Ph: 02 6777 5881, Fax 02 6777 5922
10	Nerstane 940426 5032981994940426	John McLaren, "Nerstane" Woolbrook 2354. Ph: 02 6777 5881, Fax 02 6777 5922
11	One Oak Kline 5038551996000026	Graham Wells, "One Oak" PO Box 84, Jerilderie 2716. Ph: 03 5886 1269, Fax: 03 5886 1792
12	Ruby Hills 3606 5041201993003606	A & AH Burgess, "Ruby Hills", Walcha 2354. Ph: 02 6777 2102, Fax: 02 6778 0009
13	Roseville Park 5112 5041661995005112	Graham Coddington, "Glenwood", Dubbo 2830. Ph: 02 68 877 230, Fax: 02 68 877 234
14	Watson Park 168 5043421994000168	Rodney Sieler, "Watson Park", RMB 117, Yarra via Goulburn 2580 Ph: 02 4829 7181, Fax: 02 4829 7126
15	QPLU\$ 4.1847 5047481994001847	Pat Taylor, Trangie Agricultural Research Station, Trangie 2823. Ph: 02 68888 7404, Fax: 02 6888 2201

* Link Sires.

Tables 1 & 2 - Measured and scored assessments - 1998 drop

Table 1. Major measured traits & Classer's grade

Sire Graph Code	Sire Identity	Number of Progeny	Estimated Progeny Values (deviations)								Classer's Grade% #			
			GFW %		CFW %		FD um		BWT %		Tops		Culls	
			1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Superfine														
1	Yalgoo 539	41	-3.4	-1.1	-4.1	-2.7	-0.3	-0.4	-4.7	-3.4	17	24	40	26
2	Emu Creek W6 172	34	-6.8	-12.0	-8.4	-12.6	-0.2	-0.5	-0.9	-0.7	36	25	11	10
3	Rockbank Duncan	23	1.6	-0.1	-0.8	-1.0	0.3	0.4	-2.9	-3.3	35	30	13	20
4	Grindon Orange 114	42	-1.3	-0.6	-2.4	-3.9	0.6	0.3	3.6	4.3	35	19	12	25
5	The Grange 680052	15	-1.1	-4.0	-1.9	-3.4	-0.6	-0.7	2.7	2.5	53	50	3	3
6	CSIRO Superfine #1	29	-4.5	-5.5	-5.4	-6.3	-0.6	-0.7	-4.5	-3.9	27	14	22	43
7*	Lorelmo Poll	37	-8.5	-10.4	-7.2	-8.2	-0.8	-0.6	-1.7	-1.6	26	32	28	18
Fine														
8	Hazeldean 93.1053	31	7.6	7.0	5.0	4.5	-0.1	-0.3	3.2	2.5	24	18	18	37
9*	Nerstane 697	32	7.2	8.5	8.1	9.7	0.4	0.3	0.2	0.2	38	56	9	11
10	Nerstane 940426	30	5.9	5.6	6.5	7.1	0.7	0.8	2.2	1.9	42	37	12	17
11	One Oak Kline	27	5.0	6.1	7.6	9.4	0.6	0.8	3.3	2.6	40	24	7	39
12	Ruby Hills 3606	30	-8.0	-5.9	-5.3	-3.8	-0.6	-0.3	-1.9	-2.1	28	25	21	18
13	Roseville Park 5112	30	-1.3	5.2	0.6	3.5	-0.3	0.0	1.1	1.5	20	32	25	15
14	Watson Park 168	34	5.6	4.7	5.9	4.4	0.4	0.4	2.9	2.3	44	50	9	3
15	QPLU\$ 4.1847	33	1.8	2.5	1.8	3.2	0.5	0.6	-2.6	-2.7	24	18	17	32
	Superfine Average	32	2.3	3.5	1.8	2.8	16.4	17.7	28.1	29.8	33	26	19	22
	Average (All sires)	31	2.4	3.7	1.9	3.0	16.6	18.0	28.9	30.3	33	29	16	22

* Link Sires.

Classers assessments are expressed as a percentage of a sire's progeny.

Table 2. Measured & scored trait performance

Sire Graph Code	Sire Identity	Estimated Progeny Value (devs)					Curvature		Face	Wrinkle	Scr	Fleece Rot			
		CV % comb	Yld% comb	SLen 2nd	SStr 2nd	FEC 2nd	Mean 2nd	SD 2nd	Cover 2nd	Neck 2nd	Body 2nd	Score 1st	Score 2nd	Incidence 1st	Incidence 2nd
Superfine															
1*	Yalgoo 539	0.3	-1.9	-0.5	0.9	-0.38	101.9	90.2	3.0	2.7	1.8	1.7	1.4	48	54
2	Emu Creek W6 172	-0.6	-0.1	-2.2	-0.7	0.59	108.0	88.4	2.9	2.2	1.2	0.1	0.1	3	6
3	Rockbank Duncan	0.5	0.1	-6.2	0.4	0.20	108.1	92.4	3.0	2.7	1.6	0.7	0.2	22	4
4	Grindon Orange 114	-0.8	-2.5	-3.0	4.3	-0.63	105.5	90.6	2.8	2.4	1.5	1.2	1.6	38	52
5	The Grange 680052	-0.5	0.0	-1.8	-0.8	0.06	110.6	92.5	2.9	2.3	1.7	0.2	0.1	13	7
6	CSIRO Superfine #1	-0.1	-0.4	-3.8	0.4	-0.36	104.9	91.8	3.3	2.2	1.4	1.0	0.8	37	34
7*	Lorelmo Poll	-0.1	2.0	-3.6	0.7	0.23	101.4	89.3	3.0	2.4	1.2	0.8	0.7	22	22
Fine															
8	Hazeldean 93.1053	0.0	-1.6	4.8	-1.2	0.10	90.8	83.8	3.0	2.3	1.5	1.5	1.7	41	56
9*	Nerstane 697	0.9	0.0	8.2	-2.1	0.51	92.6	86.3	2.6	2.8	1.8	0.9	0.6	32	19
10	Nerstane 940426	-0.1	0.8	4.0	-0.7	-0.14	95.3	84.4	3.1	2.2	1.6	0.4	0.4	17	17
11	One Oak Kline	0.0	2.0	2.3	-1.2	0.18	89.9	83.9	3.1	2.6	1.3	1.4	2.1	43	63
12	Ruby Hills 3606	0.0	1.8	-2.5	-2.9	0.45	99.7	89.2	3.2	2.4	1.2	0.1	0.1	7	3
13	Roseville Park 5112	0.9	-1.3	3.0	-3.0	-0.10	98.2	88.6	3.0	2.6	1.4	0.8	0.9	20	30
14	Watson Park 168	-0.3	0.4	6.7	1.9	0.04	100.4	88.8	2.9	2.7	1.9	0.3	0.4	9	18
15	QPLU\$ 4.1847	-0.2	0.6	-5.5	3.9	-0.75	102.2	88.5	3.5	3.0	1.7	0.5	0.9	27	33
	Superfine Average	17.0	80.3	88.5	42.7		105.6	91.3	3.0	2.4	1.5	0.9	0.8	26	30
	Average (All sires)	17.2	81.0	93.2	41.3		100.9	89.2	3.0	2.5	1.5	0.8	0.9	25	30

Note: Averages for CV % and Yield % are for the 2nd shearing.

Explanation of the results presented in the tables and graphs is available on pages 1-3

Table 3 – Wool Quality & Fleece Value - 1998 drop - 2nd

Graph Sire Code	Sire Identity	Sire Averages				Quality Number	Sire Average	
		Style Grade (1-9)	Staple Length (1-3)	Colour (1-3)	Strength (1-3)		Fleece Value (\$/fleece)	Fibre Diameter (µm)
1	Yalgoo 539	2.9	1.2	1.1	1.0	69.3	57.4	17.6
2	Emu Creek W6 172	2.1	1.1	1.0	1.1	70.3	49.9	17.0
3	Rockbank Duncan	2.1	1.3	1.0	1.1	71.0	42.2	18.4
4	Grindon Orange 114	3.3	1.3	1.1	1.0	70.9	41.0	18.2
5	The Grange 680052	2.2	1.1	1.0	1.0	70.7	64.8	17.1
6	CSIRO Superfine #1	3.6	1.4	1.1	1.1	71.2	55.0	17.2
7*	Lorelmo Poll	2.4	1.2	1.0	1.1	70.1	51.8	17.5
8	Hazeldean 93.1053	3.3	1.0	1.1	1.0	64.3	53.6	17.1
9*	Nerstane 697	2.0	1.0	1.0	1.1	68.1	46.9	18.4
10	Nerstane 940426	2.1	1.0	1.0	1.0	68.2	37.4	18.9
11	One Oak Kline	3.6	1.1	1.3	1.1	66.3	36.4	19.0
12	Ruby Hills 3606	2.3	1.3	1.0	1.3	70.3	48.7	17.8
13	Roseville Park 5112	3.0	1.2	1.1	1.2	68.3	48.3	18.1
14	Watson Park 168	2.4	1.0	1.0	1.0	68.9	43.7	18.5
15	QPLU\$ 4.1847	3.0	1.3	1.2	1.0	70.7	39.9	18.6
Superfine Average		2.7	1.3	1.1	1.1	70.7	51.3	17.7
Average		2.7	1.2	1.1	1.1	69.5	47.9	18.0

Note: Additional information on the style grade can be located on page 3.

Figure 1 - Fleece Value - 1998 drop - 2nd

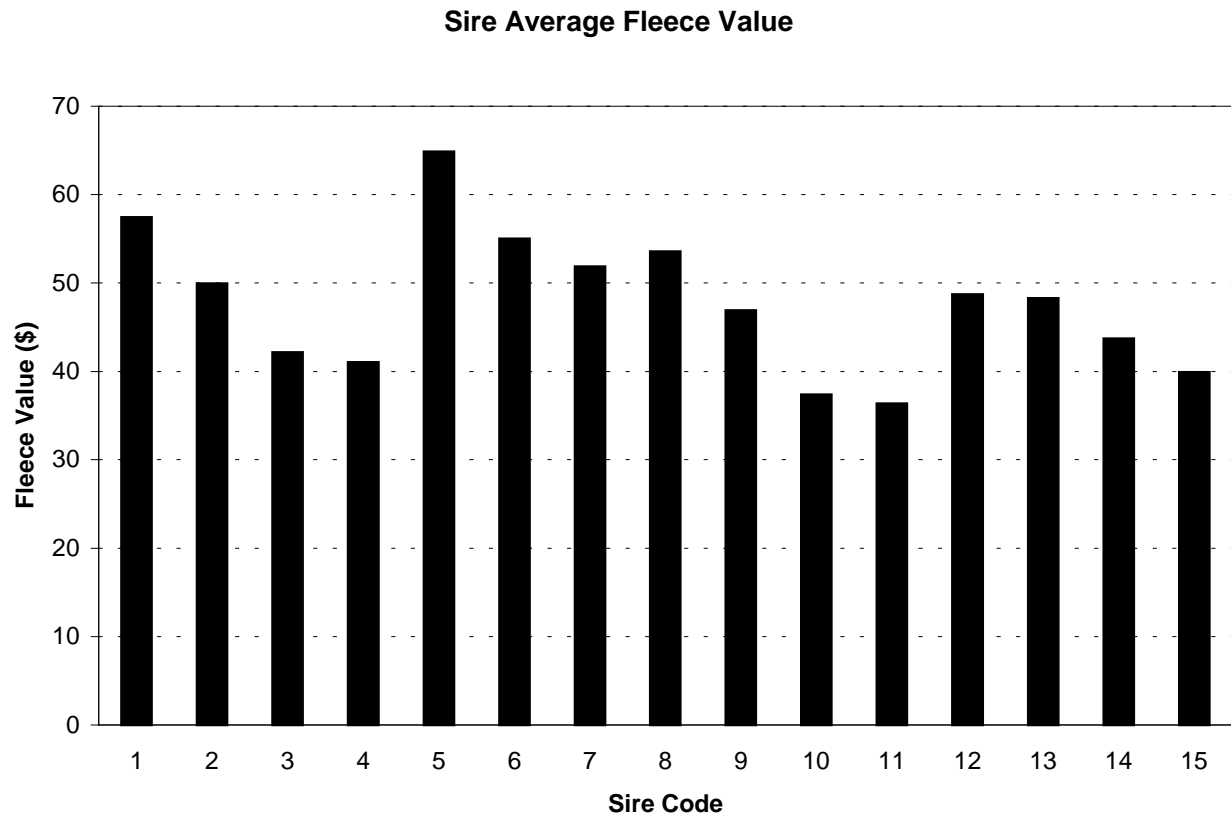


Table 4 - Classer's assessments - 1998 drop - 2nd

Sire Graph Code	Sire Identity	Number of Progeny	Multiple Scanning (%)	Classer's Grade		Conformation		Group Traits % Quality		Markings	
				Tops	Culls	Pos	Neg	Pos	Neg	Pos	Neg
1	Yalgoo 539	41	45	24	26	32	24	76	32		1
2	Emu Creek W6 172	34	38	25	10	22	21	87	21		6
3	Rockbank Duncan	23	58	30	20	41	24	85	22		0
4	Grindon Orange 114	42	53	19	25	35	21	76	40		0
5	The Grange 680052	15	37	50	3	43	3	87	20		0
6	CSIRO Superfine #1	29	31	14	43	14	26	59	48		3
7*	Lorelmo Poll	37	40	32	18	27	26	82	16		3
8	Hazeldean 93.1053	31	58	18	37	52	21	82	47		3
9*	Nerstane 697	32	39	56	11	66	6	98	30		8
10	Nerstane 940426	30	69	37	17	55	10	88	23		7
11	One Oak Kline	27	39	24	39	52	6	78	54		0
12	Ruby Hills 3606	30	42	25	18	32	18	85	27		2
13	Roseville Park 5112	30	61	32	15	55	5	90	37		2
14	Watson Park 168	34	43	50	3	59	1	100	29		3
15	QPLU\$ 4.1847	33	49	18	32	23	29	71	35		0
Superfine Average		32	43	26	22	30	22	78	29		2
Average (All sires)		31	47	29	22	40	17	83	32		3

Sire Graph Code	Conformation/Type %																	
	Body Size		Body Lth		Face Cover		Head/Jaw		Shoulder		Back		Feet/Legs		Developmt		Coverage	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
1	32	17			0				2		0			6				
2	22	19			0				0		0			3				
3	41	15			0				2		0			11				
4	35	12			0				2		2			7				
5	43	0			0				3		0			0				
6	14	22			2				0		0			12				
7*	27	19			0				3		0			9				
8	52	8			0				3		3			6				
9*	66	2			0				2		0			3				
10	55	5			0				3		0			5				
11	52	6			0				0		0			0				
12	32	10			0				2		0			8				
13	55	5			0				0		0			3				
14	59	0			0				0		0			1				
15	23	24			0				3		2			2				
Sf Av	30	16			0				2		0			7				
Av	40	12			0				2		1			5				

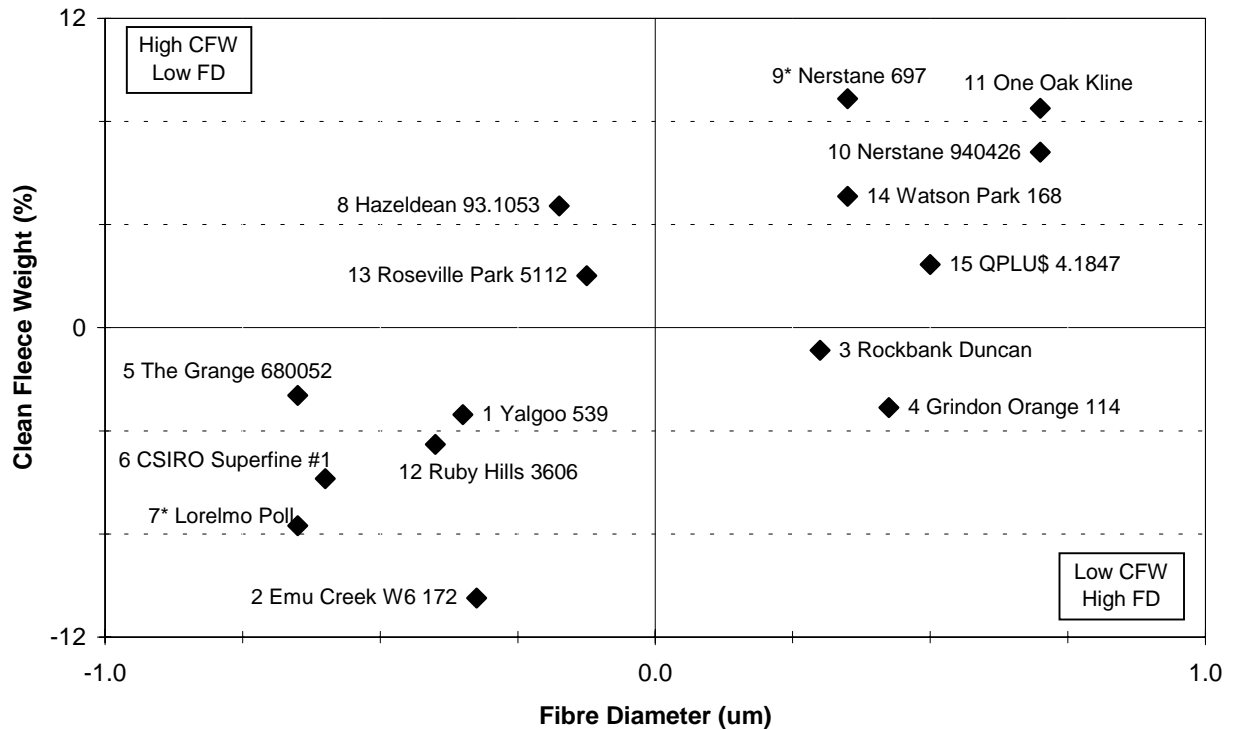
Sire Graph Code	Quality %														Markings %			
	Nourishmt		Colour		Character		Evenness		Handle		Stpl.Structu		Tip Hair		Staple Lth		Skin	Wool
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Neg	Neg
1			32	10	43	6			46	9	9	4			57	0	1	
2			54	3	31	12			54	4	6	3			53	0	6	
3			52	0	24	9			46	13	15	0			35	2	0	
4			32	6	23	15			50	7	6	10			50	6	0	
5			40	3	43	13			67	7	3	0			60	0	0	
6			26	16	17	19			41	12	2	3			40	3	3	
7*			48	0	44	7			56	3	4	3			51	1	3	
8			10	11	26	10			31	16	8	5			76	0	3	
9*			39	6	41	20			56	5	6	2			95	0	8	
10			35	2	25	13			42	8	7	2			80	0	7	
11			15	11	19	26			22	26	6	2			69	2	0	
12			45	5	43	13			53	8	7	3			53	0	2	
13			22	5	22	17			40	5	8	7			85	0	2	
14			34	0	32	24			49	10	16	0			88	0	3	
15			29	18	18	11			39	14	17	0			42	3	0	
Sf Av			40	6	32	11			50	8	6	4			50	2	2	
Av			34	7	30	14			46	10	8	3			62	1	3	

Table 5 - Breeding Objective Indexes - 1998 drop

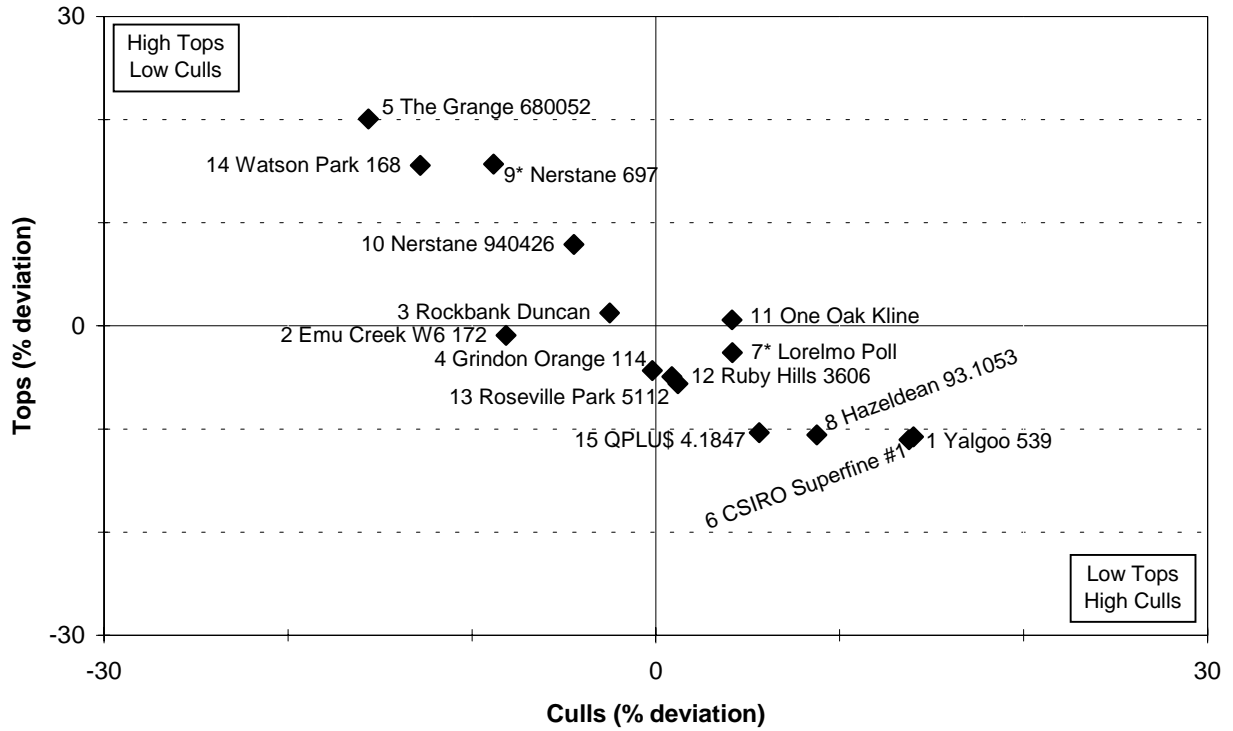
Sire Graph Code	Sire Identity	RAMPOWER Standard Indexes			20% MP Index
		3% MP	6% MP	12% MP	
1	Yalgoo 539	82.6	88.2	96.8	101.6
2	Emu Creek W6 172	61.4	72.0	87.4	94.0
3	Rockbank Duncan	92.0	88.8	88.3	88.4
4	Grindon Orange 114	90.7	89.2	94.3	100.0
5	The Grange 680052	99.5	107.9	113.6	115.5
6	CSIRO Superfine #1	80.8	90.3	101.8	107.4
7*	Lorelmo Poll	73.2	84.2	98.6	105.5
8	Hazeldean 93.1053	115.7	115.2	110.5	107.7
9*	Nerstane 697	127.6	117.7	102.6	94.4
10	Nerstane 940426	126.9	115.7	101.2	93.9
11	One Oak Kline	134.5	121.9	104.2	95.0
12	Ruby Hills 3606	82.1	88.9	95.0	95.5
13	Roseville Park 5112	107.3	105.8	100.3	95.3
14	Watson Park 168	118.1	112.5	106.3	104.8
15	QPLU\$ 4.1847	107.7	101.7	99.2	100.9

Figure 2 - Summary Graph - 1998 drop - combined 1st and 2nd

Fleece Weight / Fibre Diameter



Classers Grade



Body Weight / 6% Index Value

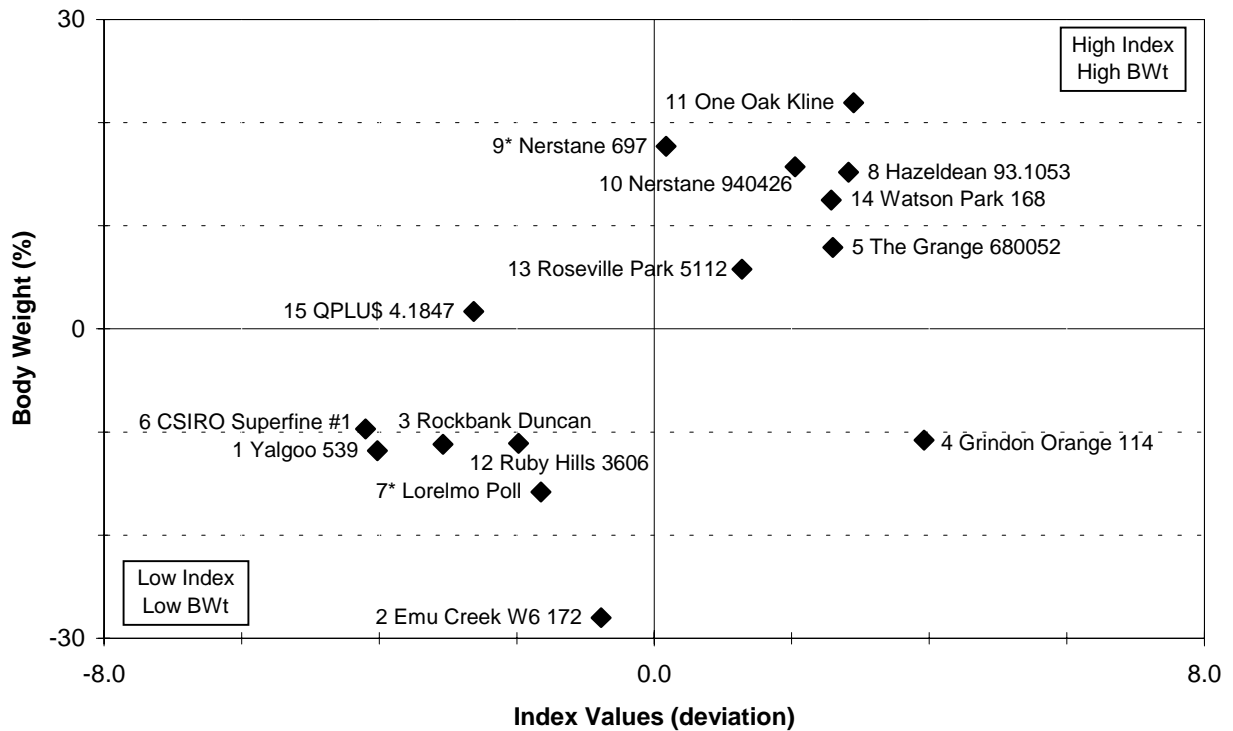


Table 6 - Progeny Group Classing - 1998 drop

Sire Identity	Multiple Scanning (%)	Progeny Group Classing		
		Positive comments	Negative Comments	Score Rank
Superfine				
Yalgoo 539	45	Coverage	Colour, Weather damage, Lower yield, Lack handle, Not superfine type	21.0 3
Emu Creek W6 172	38	Softness, Staple length, Evenness		30.0 2
Rockbank Duncan	58		Handle, Style, Lower yielding, Unevenness	21.0 3
Grindon Orange 114	53		Colour, Handle, Weather damage, Feet	21.0 3
The Grange 680052	37	Even, Good frame, Bright, Soft, Stylish		33.0 1
CSIRO Superfine #1	31	Evenness of sheep	Feet, Colour, Lack style, Staple length	19.0 7
Lorelmo Poll	40	Staple length	Colour, Smut, Weather in shoulder, Bad feet & necks	20.5 6
Fine				
Hazeldean 93.1053	58	Staple length	Colour, Weather damage	24.5 6
Nerstane 697	39	Evenness, Colour, Crimp	Some lack handle	30.0 2
Nerstane 940426	69	Style, softness		25.5 4
One Oak Kline	39	Evenness, Frame, Tip	Unevenness, Wool quality	26.5 3
Ruby Hills 3606	42	Bright, Soft	Light frame, Small	25.0 5
Roseville Park 5112	61	Staple length	Colour, Handle, Unevenness	22.0 7
Watson Park 168	43	Coverage, Staple length	Unevenness, Style, Some colour, Pigment	30.5 1
QPLU\$ 4.1847	49		Lack size, Conformation, Colour	20.5 8
Average	47			24.7

Note: Progeny Group Classing ranks are within the Superfine and Fine wool groups

Manager's Report - 1998 drop - 'Chiswick'

Location

Chiswick is the CSIRO property located between Armidale and Uralla. Chiswick has a long history of pasture improvement and a carrying capacity of 9.0 DSE/ha.

Seasonal Conditions

A good spring and summer provided good feed for most of the year, despite below average rainfall in the autumn. In July Michael Lollback adjudged the mob to be in very good condition for the season and compared to district flocks. Feed declined rapidly in late winter, and the mob may have started to lose condition by shearing, however the fat scores below were still very satisfactory. The season has continued dry and supplementary feeding commenced mid-October.

Month 99-00	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Rainfall mm	66.7	177.5	136.8	131.1	36.3	35.0	107.6	30.5	29.0	7.7	53.1	41.8	18.2

Progeny Condition - Fat Scores at 7 September 2000

Fat Score	1	1+	2	3	3+	Total Assessed
Number (%)	6 (9)	1 (1)	32 (46)	30 (43)	1 (1)	70

Evaluation Program

Event	Date	Age (months)	Wool (months)
Birth date	12-18 September 1998		
Tagging date	24 September 1998	0.5	
Lamb marking/mulesing	6 October 1998	1	
Weaning	25 January 1999	4	
Lamb crutching	1 March 1999	6	6
Small crutching	14 August 1999	11	11
1st Assessment/shearing	9 September 1999	12	12
Crutching	March, August 2000		
2nd Assessment/shearing	5 September 2000	24	12

Management Events

Event	1st Stage	2nd Stage
Vaccination	6 Oct 1998, 25 Jan 1999	
Drenching	Nov 1998, Jan, Feb, Apr, Jun 1999	Nov 1999, May, Sep 2000
Supplementary feed	Nil	Nil
Dipping	Dec 1998	Nov 1999

Classers who carried out Progeny Assessment

1st Stage:	(i) Alan Clarke	(ii) Tony Carlon
2nd Stage:	(i) Alan Clarke	(ii) Tony Carlon

Mr Ray Honnery, Flock Manager, CSIRO "Chiswick"

1999 drop 1st Evaluation

New England Merino Sire Evaluation 1999 drop 1st Evaluation

1st Evaluation: Age - 12 months Wool growth - 12 months

Sire and owner details

Graph Code	Sire Identity & Sire Code	Contact Name, Address Phone and Fax Number
1	Auchen Dhu Purple 18 5017711997000P18	Greg Fletcher, "Auchen-Dhu", Walcha 2354. Ph: 02 6777 2818, Fax: 02 6777 2818
2	Cressbrook B3 5023021994000125	Ross Fulloon, "Cressbrook", Armidale 2350. Ph: 02 6775 1257, Fax: 02 6775 1341
3	Emu Creek E1 669 50360219940E1669	Roland Gill, "Emu Creek", Walcha 2354. Ph: 02 6777 9119, Fax: 02 6777 9112
4	The Grange 780060 5046701997780060	Lukis Blake, "The Grange" 12571 West Swan Road, Belhus 6055. Ph: 08 9296 1880 Fax: 08 9296 1088
5	Geelong Park 51702 5046961995051702	Andrew Vizard, Mackinnon Project, Uni of Melbourne, 250 Princes Hwy, Werribee 3030. Ph: 03 9742 8225, Fax: 03 9742 6852
6	Piangobla AM1 5037891992000565	David Reardon, "Piangobla", Lightning Ridge 2834. Ph: 02 6829 0797, Fax: 02 6829 0550
7	Hazeldean 95.4989 5003831995004989	James Litchfield, Hazeldean Pty Ltd, Hazeldean, Cooma 2630. Ph: 02 6453 5555, Fax: 02 6453 5526
8	Cara SM 30 ** 501236199700SM30	John Newnham, "Cara", Delungra 2403. Ph: 02 6723 6460
9	Yalgoo 463/95 5015521995000463	Grant Nivison, "Yalgoo", Walcha 2354. Ph: 02 6777 2525 Fax: 02 6777 2875
10*	Nerstane 950187 5032981995950187	John McLaren, "Nerstane", Woolbrook 2354. Ph: 02 6777 5881, Fax: 02 6777 5922
11	Nerstane 950421 5032981995950421	John McLaren, "Nerstane", Woolbrook 2354. Ph: 02 6777 5881, Fax: 02 6777 5922
12*	Roseville Park 1440 5041661993001440	Graham and Sally Coddington, "Glenwood", Dubbo 2830. Ph: 02 6887 7230, Fax: 02 6887 7234
13	Lynburn 5025 5044891995000025	Doug Winter, "Lynburn", Bungaldie via Coonabarabran 2357. Ph: 02 6843 4421, Fax: 02 6843 4421
14	Mirani 113.3 ** 5007321993000113	Hugh Nivison, "Mirani", Walcha 2354. Ph: 02 6777 1360, Fax: 02 6777 2683
15	Quamby Park Tyson 6009991997000258	Len Hawkins, "Marinka", Walcha 2354. Ph: 02 6777 5843, Fax: 02 6777 5843

* Link Sires.

** Results not released due to insufficient progeny and therefore low accuracy of results. Sires are required to have at least 20 progeny from one assessment or 15 progeny over 2 assessments. Therefore Cara SM 30 and Mirani 113.3 will be reported in 2001 provided they still have sufficient progeny.

Tables 1 & 2 - Measured & scored assessments - 1999 drop

Table 1. Major measured traits & Classer's grade

Sire Graph Code	Sire Identity	Number of Progeny	Estimated Progeny Values (deviations)				Classer's Grade % #	
			GFW% 1st	CFW% 1st	FDum 1st	BWT% 1st	Tops 1st	Culls 1st
Superfine								
1	Auchen Dhu Purple 18	27	-3.1	-2.8	-0.2	6.8	31	9
2	Cressbrook B3	27	2.1	3.4	0.1	-1.9	41	11
3	Emu Creek E1 669	20	-8.0	-6.0	-0.6	-2.0	20	28
4	The Grange 780060	29	-4.9	-4.5	-0.8	3.0	42	17
5	Geelong Park 51702	35	-2.8	-1.7	0.0	-0.1	29	17
6	Piangobla AM1	25	5.4	2.6	-0.1	-1.0	20	24
Fine								
7	Hazeldean 95.4989	35	7.5	4.3	-0.1	4.0	23	17
8	Cara SM 30	18	Insufficient Progeny - results available 2001					
9	Yalgoo 463/95	27	-1.3	-1.4	-0.2	-5.8	17	47
10*	Nerstane 950187	23	3.5	4.1	0.6	1.6	33	22
11	Nerstane 950421	32	-0.1	0.3	0.7	-5.6	17	28
12*	Roseville Park 1440	21	4.6	4.6	0.3	2.7	36	12
13	Lynburn 5025	30	-5.9	-3.0	0.9	1.3	17	37
14	Mirani 113.3	19	Insufficient Progeny - results available 2001					
15	Quamby Park Tyson	32	-0.3	-1.0	0.2	-1.1	14	34
Superfine Average		27	2.4	2.0	16.4	25.1	31	17
Average (All sires)		26	2.5	2.0	16.6	24.9	26	22

* Link Sires.

Classers assessments are expressed as a percentage of a sires progeny.

Table 2. Measured & scored trait performance

Sire Graph Code	Sire Identity	EPVs (deviation)				Fibre Curvature Mean 1st	Face SD 1st	Wrinkle Sc Cover 1st	Fleece Rot Neck 1st	Fleece Rot Body 1st	Fleece Rot Score 1st	Fleece Rot Incidence 1st
		CV% 1st	Yld% 1st	SLen 1st	FEC 1st							
Superfine												
1	Auchen Dhu Purple 18	-1.0	0.4	-6.8	0.37	101.4	88.7	2.7	2.6	1.6	1.5	56
2	Cressbrook B3	0.4	2.6	-3.0	0.00	97.8	88.3	3.1	3.0	2.2	0.9	30
3	Emu Creek E1 669	-0.5	0.8	-3.0	0.25	108.6	92.7	3.9	2.3	1.3	0.6	25
4	The Grange 780060	-0.1	0.6	-4.4	0.40	108.2	95.3	2.9	2.8	1.8	0.9	31
5	Geelong Park 51702	-0.1	-0.1	1.9	-0.05	96.2	86.6	3.1	2.6	1.3	0.3	11
6	Piangobla AM1	0.1	-1.1	-2.1	0.10	89.5	85.3	2.8	2.5	1.8	1.8	56
Fine												
7	Hazeldean 95.4989	-0.1	-1.9	4.4	-0.88	94.1	86.1	2.8	2.9	1.8	1.6	60
8	Cara SM 30	Insufficient Progeny - results available 2001										
9	Yalgoo 463/95	1.5	-0.5	0.9	-0.15	90.9	86.1	3.9	2.7	1.6	1.1	37
10*	Nerstane 950187	-0.7	0.7	5.0	0.24	98.5	86.6	3.3	2.5	1.7	0.7	22
11	Nerstane 950421	-0.1	-1.2	3.0	0.10	103.9	90.3	3.8	2.6	1.4	1.0	34
12*	Roseville Park 1440	-0.1	1.0	2.2	-0.15	102.0	90.0	3.6	2.6	1.7	1.0	38
13	Lynburn 5025	-0.1	-0.6	4.8	-0.62	100.1	88.2	3.2	1.9	1.0	1.2	43
14	Mirani 113.3	Insufficient Progeny - results available 2001										
15	Quamby Park Tyson	0.5	-0.9	-3.6	0.06	98.3	88.0	3.8	2.6	1.9	1.8	53
Superfine Average		17.5	81.0	76.1		100.0	89.4	3.0	2.7	1.6	1.0	34
Average (All sires)		17.7	80.3	80.1		98.3	88.4	3.2	2.6	1.6	1.1	38

Note: Additional information on the results presented in the tables and graphs is available on pages 1-3

Table 3 – Wool Quality & Fleece Value - 1999 drop - 1st

Graph Code	Sire Code	Sire Averages				Quality Number	Sire Average	
		Style Grade (1-9)	Staple Length (1-3)	Colour (1-3)	Strength (1-3)		Fleece Value (\$/fleece)	Fibre Diameter (µm)
1	Auchen Dhu Purple 18	3.3	1.7	1.0	1.0	71	48.6	16.6
2	Cressbrook B3	2.4	1.3	1.0	1.0	70	55.2	16.8
3	Emu Creek E1 669	2.4	1.4	1.0	1.3	74	65.7	15.7
4	The Grange 780060	2.5	1.3	1.0	1.1	73	77.5	15.8
5	Geelong Park 51702	2.3	1.1	1.0	1.0	71	55.4	16.5
6	Piangobla AM1	3.5	1.2	1.0	1.1	69	56.0	16.5
7	Hazeldean 95.4989	3.1	1.1	1.0	1.1	69	62.5	16.5
8	Cara SM 30	Insufficient Progeny - results available 2001						
9	Yalgoo 463/95	3.4	1.4	1.2	1.0	69	62.8	16.3
10*	Nerstane 950187	2.4	1.1	1.0	1.0	70	49.6	17.2
11	Nerstane 950421	3.3	1.1	1.1	1.0	71	44.6	17.1
12*	Roseville Park 1440	2.1	1.1	1.0	1.0	70	55.3	17.0
13	Lynburn 5025	3.7	1.2	1.0	1.0	70	34.9	17.5
14	Mirani 113.3	Insufficient Progeny - results available 2001						
15	Quamby Park Tyson	3.6	1.4	1.1	1.0	70	48.1	16.8
Superfine Average		2.7	1.3	1.0	1.1	71.1	59.5	16.4
Average		2.9	1.3	1.0	1.0	70.4	56.4	16.6

Note: Additional information on the style grade can be located on page 3.

Figure 1 - Fleece Value - 1999 drop - 1st

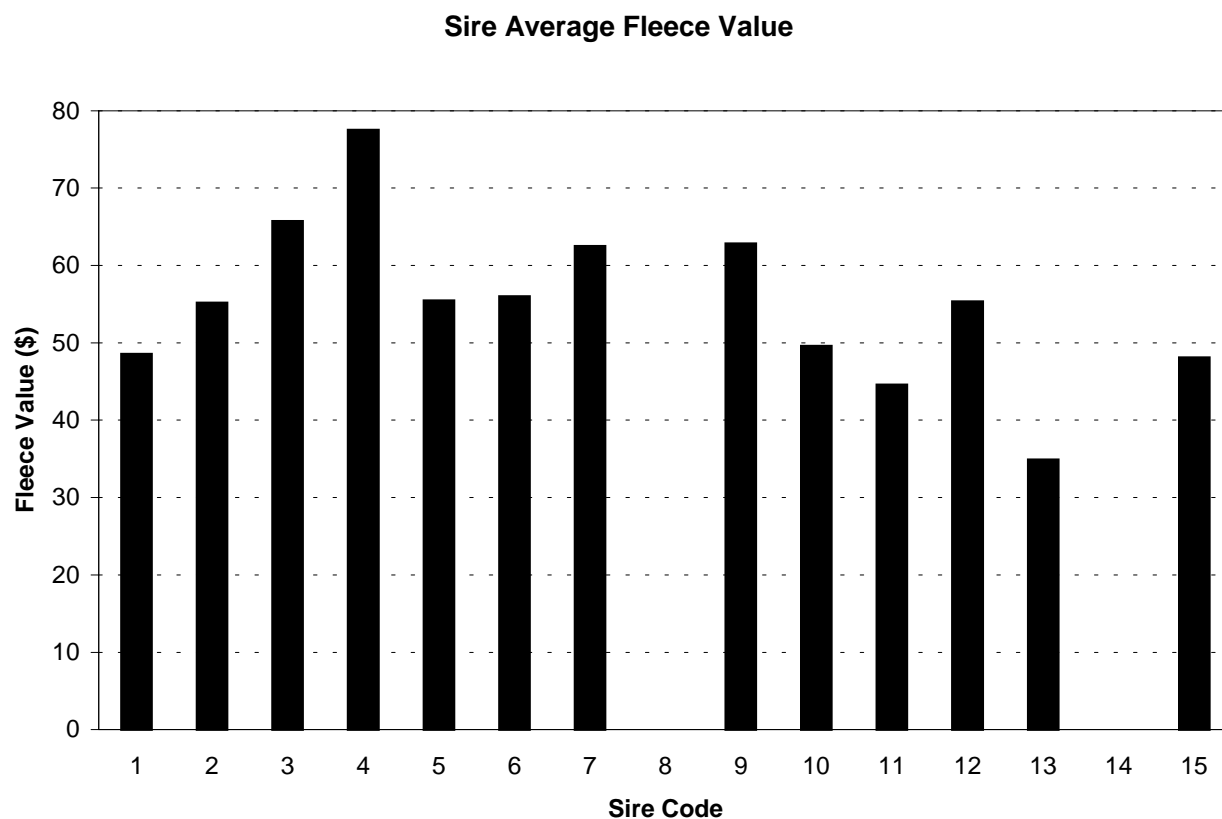


Table 4 - Classer's assessments - 1999 drop - 1st

Sire Graph Code	Sire Identity	Number of Progeny	Multiple Scanning (%)	Classer's Grade %		Conformation		Group Traits % Quality		Markings			
				Tops	Culls	Pos	Neg	Pos	Neg	Pos	Neg		
1	Auchen Dhu Purple 18	27	66	31	9	63	15	74	37		6		
2	Cressbrook B3	27	40	41	11	48	22	85	20		0		
3	Emu Creek E1 669	20	32	20	28	15	38	85	15		0		
4	The Grange 780060	29	32	42	17	42	25	81	23		2		
5	Geelong Park 51702	35	50	29	17	36	24	84	29		6		
6	Piangobla AM1	25	59	20	24	32	34	70	28		4		
7	Hazeldean 95.4989	35	64	23	17	41	19	83	28		0		
8	Cara SM 30	18	43	Insufficient Progeny - results available 2001									
9	Yalgoo 463/95	27	39	17	47	32	43	73	40		0		
10*	Nerstane 950187	23	41	33	22	43	28	83	26		2		
11	Nerstane 950421	32	61	17	28	17	31	86	41		3		
12*	Roseville Park 1440	21	50	36	12	50	21	83	33		2		
13	Lynburn 5025	30	55	17	37	38	22	75	52		0		
14	Mirani 113.3	19	46	Insufficient Progeny - results available 2001									
15	Quamby Park Tyson	32	57	14	34	27	34	67	41		2		
Superfine Average		27	46	31	17	40	23	93	34		3		
Average (All sires)		26	48	26	22	38	24	74	28		2		

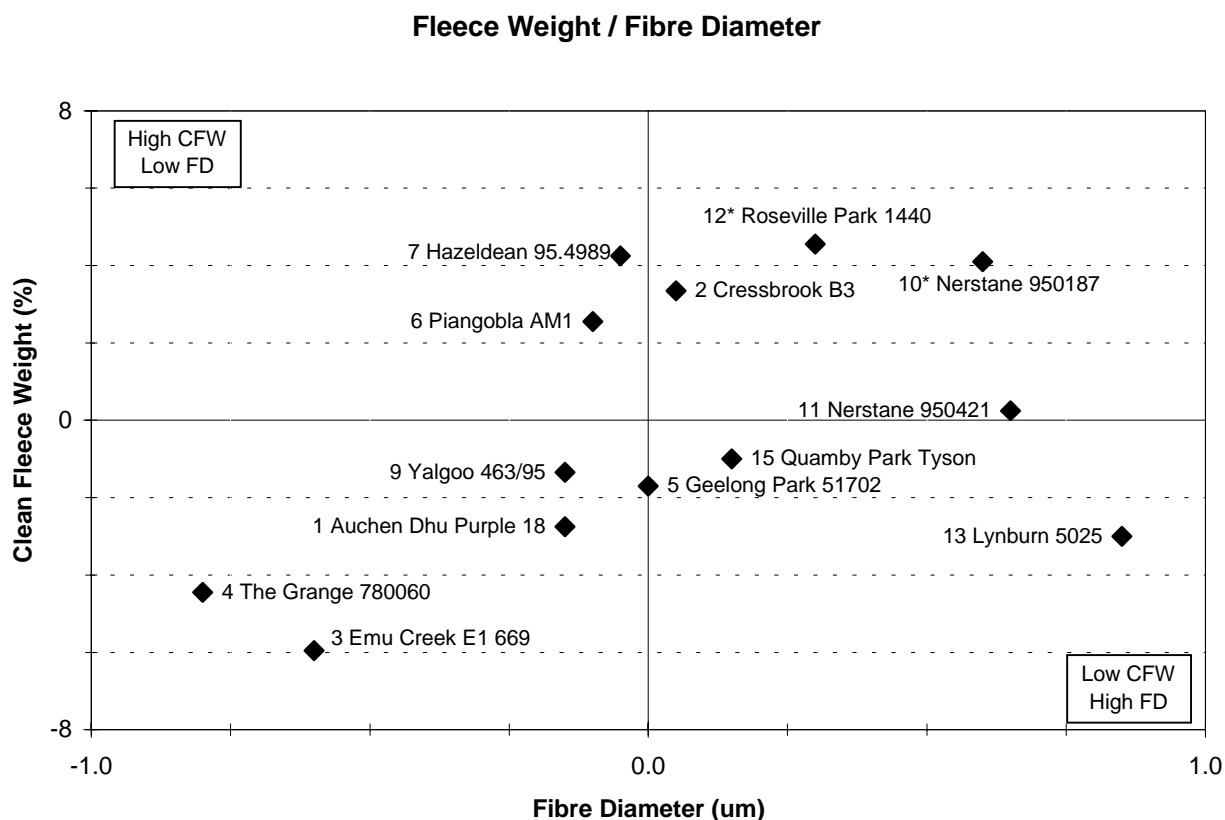
Sire Graph Code	Body Size		Body Lth		Face Cover		Head/Jaw		Shoulder		Back		Feet/Legs		Developmt		Coverage	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
1	63	11			0				0		2		4					
2	48	20			0				2		0		2					
3	15	38			0				0		0		10					
4	42	25			0				0		0		7					
5	36	22			1				1		1		1					
6	32	24			0				2		8		0					
7	41	15			0				1		4		0					
8	Insufficient Progeny - results available 2001																	
9	32	43			0				0		0		7					
10*	43	26			0				0		2		2					
11	17	30			0				0		0		6					
12*	50	19			0				0		0		2					
13	38	20			0				0		0		3					
14	Insufficient Progeny - results available 2001																	
15	27	33			0				0		2		6					
Sf Av	40	23			0				1		2		0					
Av	38	24			0				0		1		4					

Sire Graph Code	Nourishmt		Colour		Character		Evenness		Handle		Stpl.Structu		Tip Hair		Staple Lth		Markings %	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Skin Neg	Wool Neg
1			39	15	31	9			46	6	2	0			30	11		6
2			43	9	54	2			59	7	9	0			44	2		0
3			45	3	30	3			73	3	3	5			43	5		0
4			48	0	33	16			65	2	2	2			32	2		2
5			30	4	25	17			48	7	1	6			71	0		6
6			26	6	32	12			52	4	2	6			58	0		4
7			23	7	43	5			46	6	1	9			70	0		0
8	Insufficient Progeny - results available 2001																	
9			26	0	25	17			43	15	2	9			58	2		0
10*			26	2	39	11			48	4	4	15			70	0		2
11			23	8	8	25			52	5	2	5			66	0		3
12*			31	7	33	10			43	17	5	5			67	0		2
13			15	8	7	25			32	25	2	12			65	0		0
14	Insufficient Progeny - results available 2001																	
15			22	11	25	8			45	14	2	9			50	3		2
Sf Av			38	6	34	10			56	5	3	3			47	3		3
Av			31	7	29	13			50	8	3	6			56	2		2

Table 5 - Breeding Objective Indexes - 1999 drop - 1st

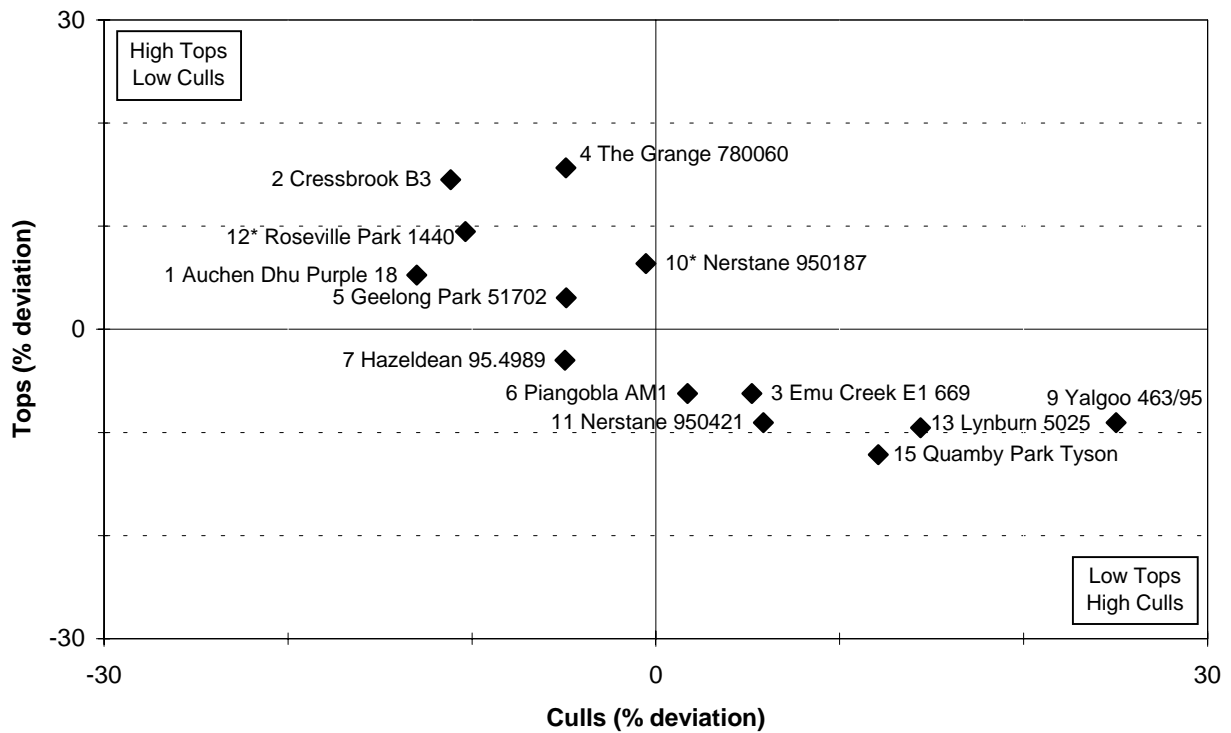
Sire Graph Code	Sire Identity	RAMPOWER Standard Indexes			20% MP Index
		3% MP	6% MP	12% MP	
1	Auchen Dhu Purple 18	95.4	99.8	106.3	110.7
2	Cressbrook B3	115.9	112.1	107.8	107.2
3	Emu Creek E1 669	82.5	92.9	105.8	112.8
4	The Grange 780060	89.4	100.2	110.7	115.5
5	Geelong Park 51702	92.6	93.8	95.6	96.0
6	Piangobla AM1	109.7	108.8	106.4	105.5
7	Hazeldean 95.4989	113.6	112.5	107.5	104.1
8	Cara SM 30	Insufficient Progeny - results available 2001			
9	Yalgoo 463/95	92.4	92.3	90.8	87.9
10*	Nerstane 950187	112.3	105.1	98.4	96.2
11	Nerstane 950421	95.1	88.7	84.8	83.1
12*	Roseville Park 1440	116.5	111.1	104.2	101.4
13	Lynburn 5025	81.9	75.3	72.2	69.5
14	Mirani 113.3	Insufficient Progeny - results available 2001			
15	Quamby Park Tyson	95.6	93.5	92.2	91.2

Figure 2 - Summary Graph - 1999 drop - 1st

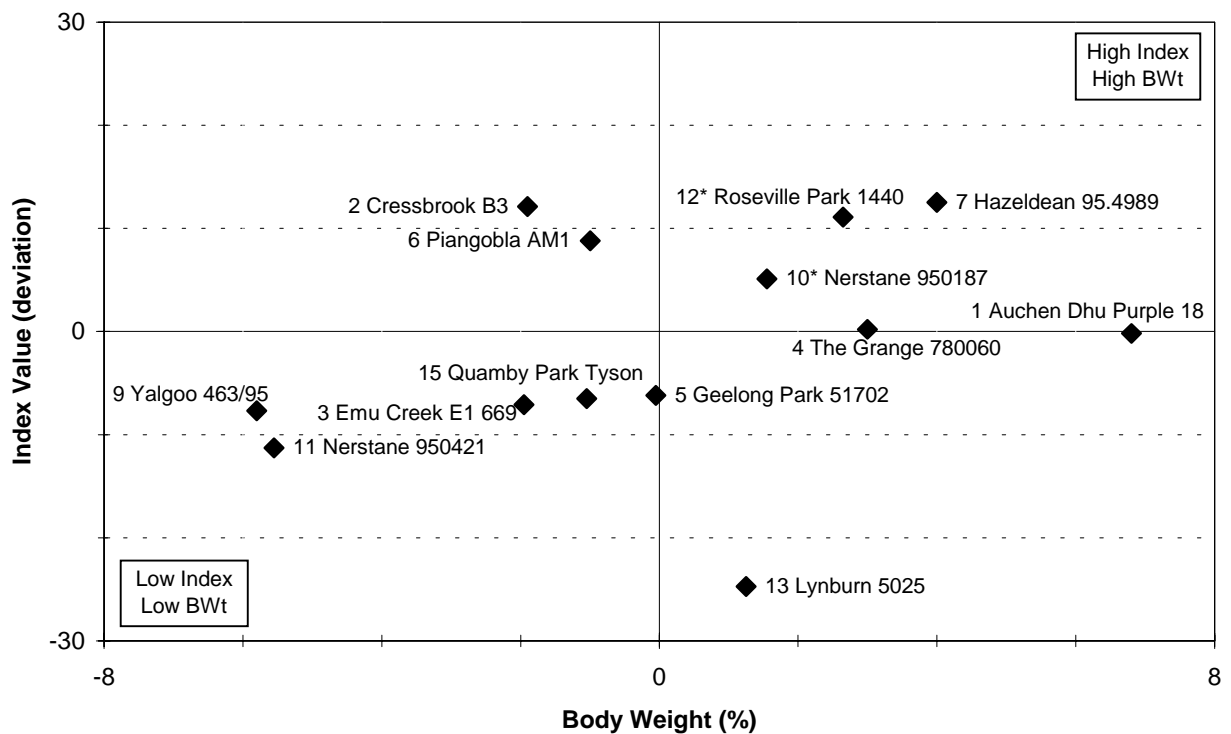


Figures 3 & 4 - Summary Graphs - 1999 drop - 1st

Classers Grade



Body Weight / 6% Index Value



Manager's Report - 1999 drop - Chiswick

Location

Chiswick is the CSIRO property located between Armidale and Uralla. Chiswick has a long history of pasture improvement and a carrying capacity of 9.0 DSE/ha.

Seasonal Conditions

Despite below average rainfall in the autumn, feed supply was maintained post-weaning and the sheep had attained good condition by winter.. Feed declined rapidly in late winter, but the mob was still in excellent condition at a post-shearing fat scoring (see below). Supplementary feeding may be required soon if conditions do not improve.

Month 99-00	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Rainfall mm	66.7	177.5	136.8	131.1	36.3	35.0	107.6	30.5	29.0	7.7	53.1	41.8	18.2

Progeny Condition - Fat Scores at 7 September 2000

Fat Score	1	2	3	Total Assessed
Number (%)	3 (6)	38 (73)	11 (21)	52

Evaluation Program

Event	Date	Age (months)	Wool (months)
Birth date	20-28 August 1999		
Tagging date	23 September 1999	1	
Lamb marking/mulesing	5 October 1999	1	
Weaning	25 January 2000	4	
Lamb crutching	1 March 2000	6	6
Small crutching	21 July 2000	11	11
1st assessment/shearing	6 September 2000	12	12
Weighed and Scored	7 September 2000	12	0

Management Events

Event	Date
Vaccination	Oct 1999, Jan 2000
Drenching	Nov 1999, Feb, Apr, Sep 2000
Supplementary feed	Nil
Jetting	Nov 1999

Classers who carried out Progeny Assessment

1st Stage: (i) Alan Clarke (ii) Tony Carlon

Mr Ray Honnery, Flock Manager, CSIRO "Chiswick"

2000 Drop Evaluation

New England Merino Sire Evaluation 2000 Drop

The following sires were entered in the 2000 drop New England Merino Sire Evaluation. The first stage report for these animals will be produced in 2001.

Sire and owner details

Graph Sire Identity & Code Sire Code #	Contact Name, Address Phone and Fax Number
1 Karori Blue 49 5047731995950049	Robert and Katrina Blomfield, "Karori", Walcha 2354. Ph: 02 6777 9189, Fax: 02 6777 9188 karori@northnet.net.au
2 Ruby Hills RH7099 5041201997007099	A & AH Burgess, "Ruby Hills", Walcha 2354. Ph: 02 6777 2102, Fax: 02 6778 0009 rubyhill@northnet.com.au
3 T13 Consortium 98A3176 50905619980A3176	Ian Purvis, CSIRO Livestock Industries, Locked Bag 1, Armidale 2350. Ph: 02 6776 1373, Fax: 02 6776 1333 ian.purvis@li.csiro.au
4 Hazeldean 5.8150 5003831993008150	Jim Litchfield, Hazeldean Pty Ltd, Hazeldean, Cooma 2630. Ph: 02 6453 5555, Fax: 02 6453 5526 hazldean@cooma.snowy.net.au
5 Roseville Park RP7-32 5041661997000032	Graham & Sally Coddington, "Glenwood", Dubbo 2830. Ph: 02 6887 7230, Fax: 02 6887 7234
6 Geelong Park 62401 5046961996062401	Andrew Vizard, Mackinnon Project, Uni of Melbourne, 250 Princes Hwy, Werribee 3030. Ph: 03 9742 8225, Fax: 03 9742 6852 a.vizard@vet.unimelb.edu.au
7* Nicholson River The Phantom 5044101993PHANTM	Doug Pemberton, "the Meadows", Howletts Road, Nicholson 3882. Ph: 03 5156 8952, Fax: 03 5156 8953 pemberton@net-tech.com.au
8 The Grange 880044 5046701998880044	Lukis Blake, "The Grange" 12571 West Swan Road, Belhus 6055. Ph: 08 9296 1880 Fax: 08 9296 1088 egerton@westnet.net.au
9* Hazeldean 90.3007 5003831990003007	Jim Litchfield, Hazeldean Pty Ltd, Hazeldean, Cooma 2630. Ph: 02 6453 5555, Fax: 02 6453 5526 hazldean@cooma.snowy.net.au
10 Grindon P6 5044551996000006	R.F and E.A Ritson, RMB 150, Boyup Brook 6244. Ph: 08 9765 3053 Fax: 08 9765 3006 grindon@mns.net.au
11 Mirani 23.5 5007321995000023	Hugh Nivison, "Mirani", Walcha 2354. Ph: 02 6777 1360, Fax: 02 6777 2683 mirani@mirani.org
12 Cressbrook N8 5023021996000059	Ross Fulloon, "Cressbrook", Armidale 2350. Ph: 02 6775 1257, Fax: 02 6775 1341 cressbrk@northnet.com.au
13 Nerstane 960092 5032981996960092	William Lee, "Claremont", Molong 2866. Ph: 02 6369 6227, Fax: 02 6369 6231
14 Nerstane N960142 5032981996960142	John McLaren, "Nerstane", Woolbrook 2354. Ph: 02 6777 5881, Fax: 02 6777 5922 nerstane@northnet.com.au

* Link Sires.

Manager's Report - 2000 drop - Chiswick

Location

Chiswick is the CSIRO property located between Armidale and Uralla. Chiswick has a long history of pasture improvement and carrying capacity of 9.0 DSE/ha.

Seasonal Conditions

The ewes were improving in condition at insemination, and had good feed available through the autumn and winter. At lambing several days of cold wet and windy weather resulted in high losses. Some predation by foxes and crows was also evident. Feed supplies have rapidly dwindled in the current dry conditions and supplementary feeding started mid-October. However the lambs have grown well to this stage. Weaning will be brought forward to December to maximise the progress of weaners.

2000 Lambing

Event	Date	Ewe and lamb numbers
A.I.	29-30 March 2000	700 ewes inseminated
Scanning	21 June 2000	419 ewes scanned pregnant to AI (60.0%), carrying 559 lambs (80.1%)
Lambing	20-28 August 2000	
Tagging	12 September 2000	294 lambs tagged
Marking	3 October 2000	

Mr Ray Honnery, Flock Manager, CSIRO "Chiswick"

Ultrasound and Lamb Marking Results

Code	Sire Identity	AI	AI	AI	Total Ewes	Mult #	No.AI	No. at Mark	Mult
		Single	Twin	Triple		Scan %	Lms		Rear %
1	Karori Blue 49	17	11	1	49	41	42	18	10
2	Ruby Hills RH7099	19	15		50	44	49	31	0
3	T13 Consortium 98A3176	24	9		50	27	42	22	9
4	Hazeldean 5.8150	18	7		50	28	32	16	11
5	Roseville Park RP7-32	21	7	1	50	28	38	26	8
6	Geelong Park 62401	23	12	1	49	36	50	27	29
7*	Nicholson River The Phantom	17	10	1	50	39	40	(11)	-
8	The Grange 880044	19	7		50	27	33	15	0
9*	Hazeldean 90.3007	22	8		50	27	38	26	7
10	Grindon P6	23	11		50	32	45	30	7
11	Mirani 23.5	18	12		50	40	42	18	0
12*	Cressbrook N8	22	5		50	19	32	23	17
13	Nerstane 960092	20	10		50	33	40	22	17
14	Nerstane N960142	21	6	1	50	25	36	20	0
Totals		284	130	5	698	32	559	294	10

Percentage of ewes conceived to AI and scanned as multiples