

# Monaro Central Test Sire Evaluation

2000 Drop 2nd Evaluation

Conducted by

**Monaro  
Merino  
Association  
Inc.**



under the auspices of

**The Australian Merino Sire Evaluation Association**



with support from

**RAMPOWER**

**Heriot Agvet Pty Ltd**

**Allflex Tags**

**NSW Agriculture**

## Foreword

### Monaro Merino Association - Central Test Merino Sire Evaluation

The third Monaro Sire Evaluation commenced in the autumn of 2000, on Milton and Mark Hedger's property, "Merani Park", Numbla Vale, some 13kms south of Dalgety. "Merani Park" is one of the best-improved properties on the Monaro and is regarded as very good country. The Hedger's optimism was rewarded with a break in the season and the ewes subsequently lambed in good condition, providing adequate numbers for a successful evaluation.

Seasonal conditions at that time were extremely poor, with a heavy infestation of wingless grasshoppers devastating already limited pasture resources. The ewes were being hand fed and their condition reflected the prevailing harsh conditions. Milton and Mark were optimistic that a seasonal break would occur and the program went ahead with approximately 850 ewes inseminated in twelve teams.

Thanks also to all who helped out on work days at Merani Park and a special mention to John Alcock, whose family helped out with great enthusiasm.

I hope that everyone has achieved something out of these exercises and I'm sure that participants in sire evaluations all benefit in some way.

### Robert Maguire

Chair

### Committee

John Alcock ..... 02. 6454 6245  
Ray Barron ..... 02. 6454 3149  
John Cahill ..... 02. 6452 3411  
Tom Green ..... 02. 6846 6229  
Andrew Hain ..... 02. 6452 4055  
Wendy Hain ..... 02. 6452 4510  
Charles Keighley ..... 02. 6452 4582  
James Litchfield ..... 02. 6453 5567  
Richard Maguire ..... 02. 6452 1745  
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## Contents

The information in this booklet provides a comprehensive assessment of 2000 drop sire's progeny performance, both measured and visually assessed. Three graphics and Breeding Objective Index values provide a summary of the results. Additional tables and graphs contain the detailed performance information.

This report provides the results from the 2000 drop at their 2nd stage assessment - 24 months of age.

### 2000 Drop Sire Evaluation

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## 2000 Drop – 2nd Evaluation

### Monaro Merino Sire Evaluation 2000 drop 2nd Evaluation

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*	<b>Jiliby 6-140</b> 5040091996000140	Bob Maguire, "Jiliby", Cooma NSW 2630 Ph: 02.6452 1745, Fax: 02.6452 1121
2	<b>Greenland 7-3</b> 5041881997000003	John Alcock, "Greenland", Nimmitabel, NSW 2631 Ph: 02.6454 6245, Fax: 02.6454 6245
3	<b>Hazeldean 5-3356</b> 500381995003356	James Litchfield, "Hazeldean", Myalla, Cooma NSW 2630 Ph: 02.6453 5567, Fax: 02.6453 5532
4*	<b>Nerstane 920002</b> 5032981992920002	John McLaren, "Nerstane", Woolbrook NSW 2354 Ph: 02.6777 5881, Fax: 02.67775922
5	<b>Jiliby 5-60</b> 5040091995000060	Bob Maguire, "Jiliby", Cooma NSW 2630 Ph: 02.6452 1745, Fax: 02.6452 1121
6	<b>Myocum 5-762</b> 5043091995000762	Tom Green, Myocum PTY LTD, Spicers Creek, NSW 2820 Ph: 02.6846 6229, Fax: 02.6846 6229
8	<b>Cottage Park 6-57</b> 5023001996000057	John Shiels, "Cottage Park", Cooma NSW 2630 Ph: 02.6453 5514, Fax: 02.6453 5535
9	<b>Woolaroo 6-348</b> □□□□□□□□□□□□□□□□	PT & KC Walker, PO Box 96, Yass NSW 2582 Ph: 02.6226 1104, Fax: 02.6226 1104
12*	<b>Hazeldean 3-8150</b> 5003831993008150	James Litchfield, "Hazeldean", Myalla, Cooma NSW 2630 Ph: 02.6453 5567, Fax: 02.6453 5532

# Sire codes are an international system, which provide a unique number for all sheep when processing across flock data.

- A sire code has 16 digits -
- 2 for the breed of the flock: eg Merino (50) & Poll Merino (60)
  - 4 for flock code: AASMB Registered flock code or unregistered code
  - 4 for year of drop
  - 6 for tag number used in breeder's records

\*Rams evaluated to provide links between other Central Test Sire Evaluation Sites and Years.

## **Location**

The Monaro Central Test Sire Evaluation 2000 drop was conducted at Milton Hedger's property of Merani Park, 13km south of Dalgety

## **Seasonal Conditions**

Seasonal conditions were fair to good throughout the period. The sheep were grazed at low stocking rates in an endeavour to allow them to reach, as far as possible, their full genetic potential. Hence rainfall figures alone did not play a major influence on the results obtained for first stage.

Whilst drought conditions prevailed at joining, a seasonal break allowed the ewes to be in excellent condition prior to lambing. Whilst the percentage of ewes in lamb were affected the survival rate of lambs born was very good, allowing good numbers to be marked in each group. At their first shearing in August, 2001 these sheep were exceptionally well grown and in good condition.

Seasonal conditions were good throughout the second evaluation period. Sheep were again grazed at low stocking rates in an endeavour to allow them to reach their full genetic potential.

The ewe portion of the progeny were joined on March 7th 2002 and lambled in early August two weeks after the second assessment shearing.

Rainfall (mm) in 2000, 2001 and 2002 was as follows:

<b>Month</b>	<b>Year</b>		
	2000	2001	2002
January		67	39
February		128	119
March		37	30
April		44	68
May		31	14
June	37	15	31
July	13	117	5
August	25	53	22
September	76	26	
October	32	34	
November	191	67	
December	28	72	

## Managers Report - 2000 drop – 2nd

### Evaluation Program

Event	Date	Age (months)	Wool (months)
Ewe Classing	February, 2000		
Ewe insemination	20 <sup>th</sup> March, 2000		
Ewe Scanning	29 <sup>th</sup> May, 2000		
Lambing	Commenced 8 <sup>th</sup> August 2000		
Tagging & stocked together	18 & 19 <sup>th</sup> September, 2000	1	1
Weaning	December 2000	4	4
Crutching	7 <sup>th</sup> March, 2001	6	6
Classing & side sampling	28 <sup>th</sup> June 2001	10	10
Fleece Rot Scoring	17 <sup>th</sup> July 2001	11	11
Shearing	13 <sup>th</sup> & 14 <sup>th</sup> August, 2001	12	12
Crutching	8 <sup>th</sup> April, 2002	20	8
Classing and side sampling	15 <sup>th</sup> July, 2002	23	11
Ewe Shearing & Body Weights	19 <sup>th</sup> July, 2002	23.5	11.5
Wether Shearing & Body Weights	12 <sup>th</sup> August, 2002	24	12
Lambing	2 <sup>nd</sup> August, 2002	24	0.5

### Management Events

Event	Date
Lambing	Commenced 8 <sup>th</sup> August, 2000
Tagged & vaccinated 6 in 1	18 & 19 <sup>th</sup> September, 2000
Mark & mulesed vaccinated 6 in 1	14 <sup>th</sup> October, 2001
Weaned, drenched, "Ivomec", jetted, "Veterazin", Cobalt bullets & "Ivomec" drench	5 <sup>th</sup> December 20 <sup>th</sup> February, 2001
Crutched	7 <sup>th</sup> March, 2001
Field Day Public assessment of progeny groups	9 <sup>th</sup> May, 2001
Drench, "Cydectin"	26 <sup>th</sup> May, 2001
Classers progeny assessment	28 <sup>th</sup> June, 2001
Treated for lice (Jetted)	19 <sup>th</sup> August, 2001
Drench, "Cydectin"	24 <sup>th</sup> October, 2001
Drench, "Cydectin"	8 <sup>th</sup> April, 2002

### Classers who carried out visual progeny assessment

1st & 2nd Stage: (i) Mr Rodney Evans, Tara Park Merino Stud, Boorowa  
(ii) Mr Craig Wilson, Classer, Wagga

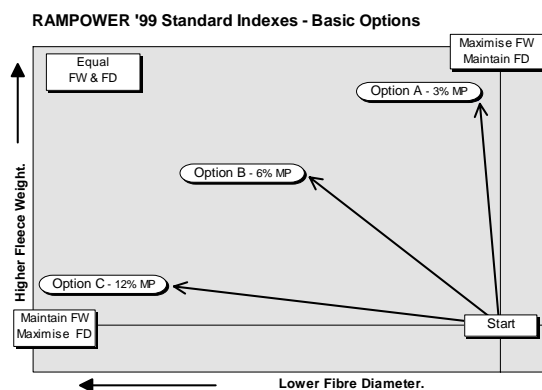
***Mr Milton and Mark Hedger, "Merani Park", Site Managers.***

## Understanding the results

### Summary Graphs and Table - pages 6 & 7

**Summary Graph:** Each sire that has 20 or more progeny evaluated is located on the graph. The graph describes performance for combined measured traits (on the side axis) and visual assessment (bottom axis). Measured traits are combined with a RAMPOWER Option B (6% MP) Index balance. Visual trait performance is Classers Grade performance (Tops and Culls). The Index and Classers Grade performance for each sire is listed in the Summary Table. Sires that are above average performers for these traits are located in the top right hand quarter.

**Summary Table:** Each sire is listed for three Index performance options and Classers Grade (Tops and Culls). The Index options are based on measured traits and they vary the emphasis on fleece weight relative to fibre diameter while maintaining emphasis on body weight and CV% (see graph to side and 'Index Options' - page4).



**Fleece Weight vs Fibre Diameter** The graph describes performance for Fleece Weight on the side axis and Fibre Diameter on the bottom axis. Sires that are above average Fleece Weight and below average Fibre Diameter are located in the top left hand quarter.

**Classers Top vs Cull Grade** The graph describes performance for classers 'Top' Grade on the side axis and 'Cull' Grade on the bottom axis. Sires that have above average Tops and below average Culls are in the top left hand quarter.

### Tables - pages 7 & 8

**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 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.

**Traits:**

- GFW %: Greasy Fleece Weight (percentage)
- CFW %: Clean Fleece Weight (percentage)
- FD  $\mu$ m: Average Fibre Diameter (micron)
- BWT %: Body Weight (percentage)
- CV %: Fibre Diameter Coefficient of Variation
- Stpl Lth: Staple Length measured in mm at the midside

## Understanding the results - continued

- Sire Averages:** Sire Averages are the average performance of all the progeny of a sire. No account is made for factors which can improve the accuracy.  
Fleece Rot Score: The average degree of fleece rot of progeny based on a 0 to 5 score with 0 being no fleece rot, 1 being minor and 5 being a very high level.  
Fleece Rot Incidence: The percentage of a sires progeny with some level of fleece rot; that is a score from 1 to 5.
- 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 Tops and Culls 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 Conformation, Wool Quality and Markings 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 above the groups average indicates good performance for that trait. Negative % that is below average indicates good performance.

### Index Options

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Breeding Objective index options provide the relative value of sires based on a combination of the measured traits - 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 is considering the use of a sire, the relative performance of the breeders flock must be considered to establish the result that can be expected when the sire is used.

The RAMPOWER standard indexes - A, B and C (3%, 6% & 12% Micron Premium) - have been endorsed by Central Test Sire Evaluation as the base indexes for sites to provide combined measured trait performance.

Option A (3% MP): Maintain FD while maximising the increase in CFW, maintaining BWT and improving FDCV at 1/5th the value of FD which is in line with spinning performance.

Option B (6%MP): A moderate level of downward pressure on FD, while maintaining a high level of increase in CFW, maintaining BWT and improving CV% at 1/5th the value of FD.

Option C (12%MP): A high level of downward pressure on FD, while obtaining a small increase in CFW, maintaining BWT and improving CV% at 1/5th of FD.

### Accuracy of Estimated Progeny Value

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Estimated Progeny Values (EPV) 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*.

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. With an infinite population the correlation is 100%. Note - the correlation used in the above example is for a trait such as fibre diameter with a high heritability (0.5).

Summary Graph - Combined Measured Traits and Classers Grade

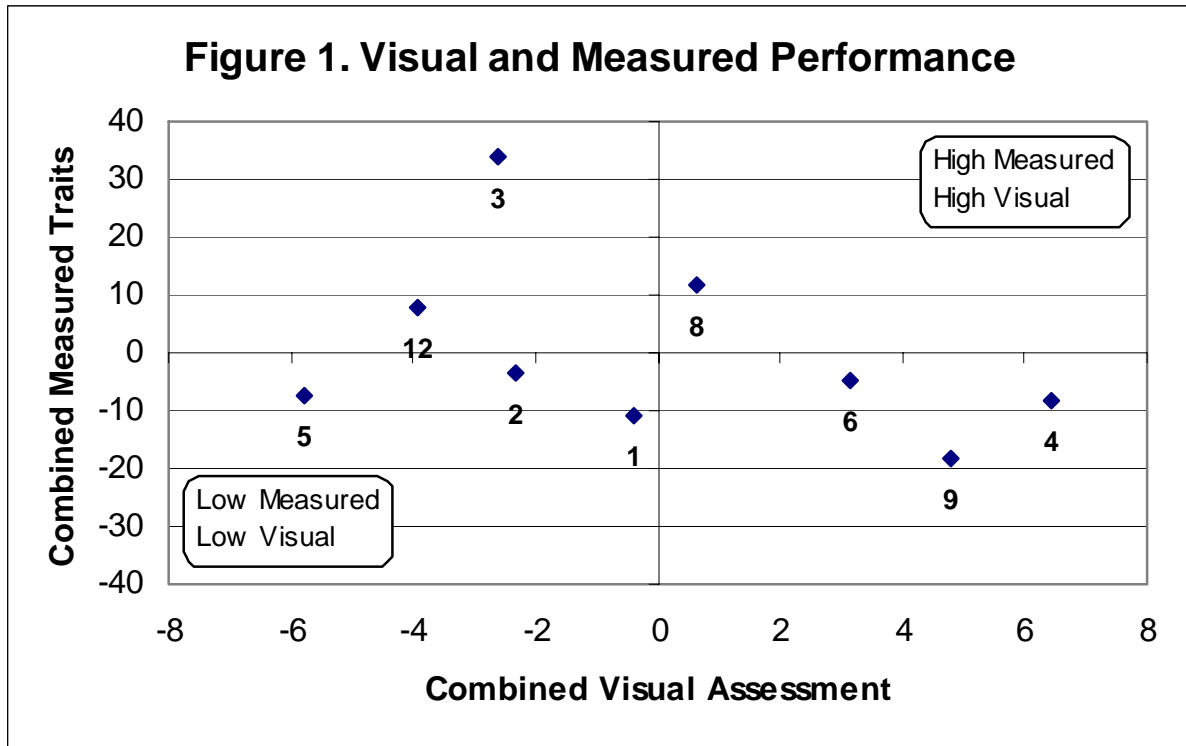
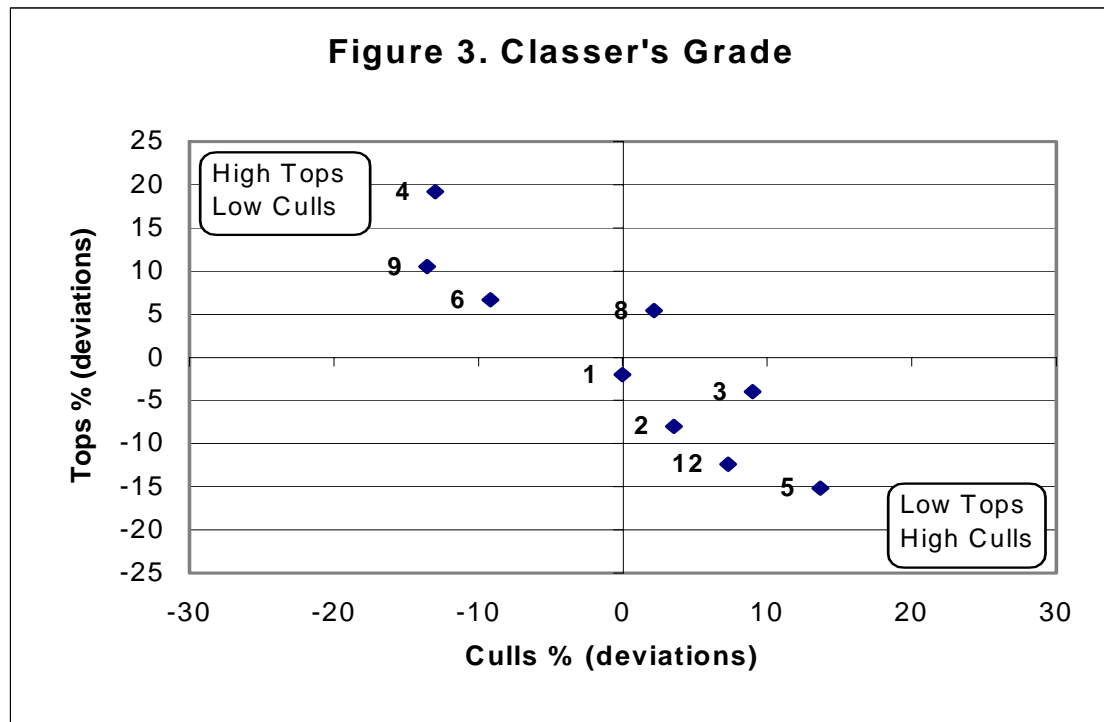
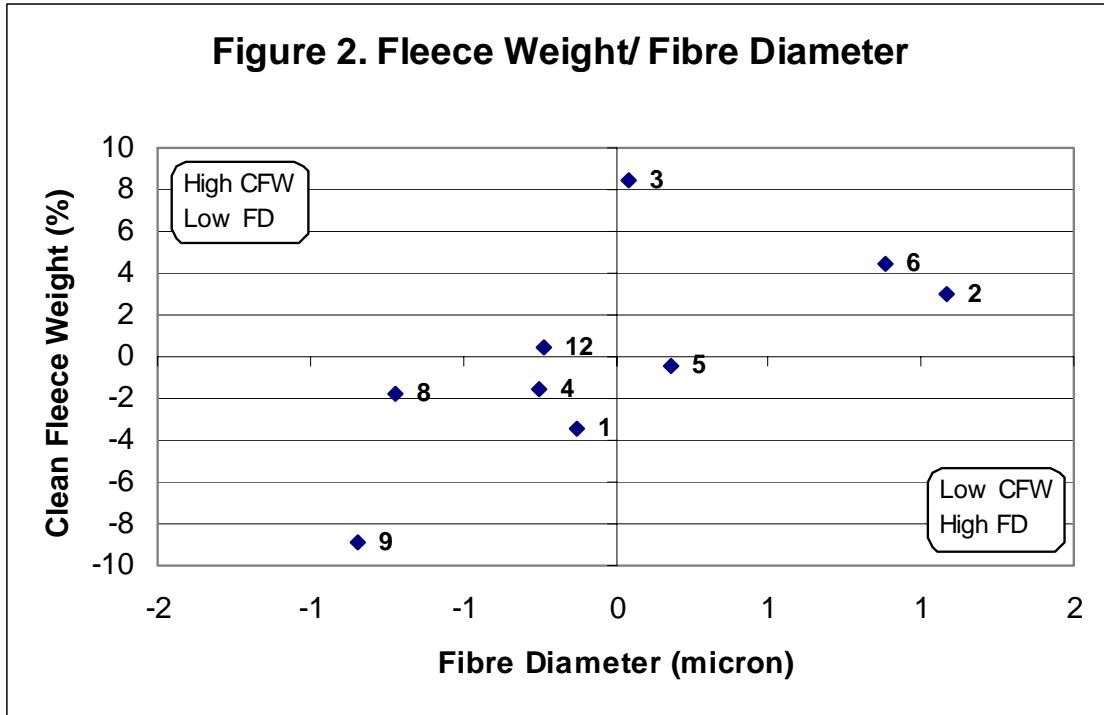


Table A - RAMPOWER Standard Index Options and Classers Grade

Sire Graph Code	Sire Identity	RAMPOWER Standard Index Options						Classer's Grade			
		A (3%MP)		B (6%MP)		C (12%MP)		Tops %		Culls %	
		1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd
1	Jiliby 6-140	89	88	91	89	93	93	10	14	42	30
2	Greenland 7-3	108	111	92	96	79	84	12	8	37	34
3	Hazeldean 5-3356	128	137	125	134	121	124	8	12	49	39
4	Nerstane 920002	90	85	98	92	105	100	34	35	20	17
5	Jiliby 5-60	102	93	100	92	101	94	1	1	44	44
6	Myocum 5-762	120	106	105	95	90	85	26	23	26	21
8	Cottage Park 6-57	99	105	108	112	113	116	12	22	37	32
9	Woolaroo 6-348	74	70	86	82	98	97	34	27	17	17
12	Hazeldean 5-8150	91	106	96	108	100	108	11	4	49	38
Average performance		100	100	100	100	100	100	17	16	36	30



**Note:** A sire on the above graph can be identified by matching the number on the graph to the corresponding Graph Code and sire in the Table on the bottom of page 6.

Tables 1 & 2 - Measured and scored assessments – 2000 drop – 2nd

**Table 1. Major measured traits & classers grade**

Sire Graph Code	Sire Identity	Number of Progeny	Estimated Progeny Values (deviations)								Classers' Grade			
			GFW%		CFW%		FD $\mu$ m		BWT%		Tops %		Culls %	
			1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd
1	Jilliby 6-140	53	2.3	-1.3	0.0	-3.5	-0.3	-0.1	1.7	1.1	10	14	42	30
2	Greenland 7-3	43	6.5	2.2	6.9	2.9	1.0	1.1	3.3	3.9	12	8	37	34
3	Hazeldean 5-3356	37	<b>7.2</b>	<b>3.9</b>	<b>10.3</b>	<b>8.4</b>	-0.1	0.0	-3.0	-2.8	8	12	49	39
4	Nerstane 920002	58	0.7	-3.0	-0.3	-1.6	-0.6	-0.3	0.9	-1.5	<b>34</b>	<b>35</b>	<b>20</b>	<b>17</b>
5	Jilliby 5-60	49	4.1	-0.7	4.3	-0.4	0.0	0.2	-3.4	-4.0	1	1	44	44
6	Myocum 5-762	57	<b>11.5</b>	<b>5.8</b>	<b>8.8</b>	<b>4.4</b>	0.8	0.9	<b>7.2</b>	<b>5.8</b>	26	23	26	21
8	Cottage Park 6-57	51	2.5	-0.7	-0.1	-1.8	<b>-1.0</b>	<b>-0.7</b>	<b>5.0</b>	<b>4.9</b>	12	22	37	32
9	Woolaroo 6-348	60	-2.8	-7.8	-3.9	-8.9	<b>-1.0</b>	<b>-0.8</b>	<b>-4.9</b>	<b>-4.7</b>	<b>34</b>	<b>27</b>	<b>17</b>	<b>17</b>
12	Hazeldean 5-8150	39	2.1	1.6	0.7	0.4	-0.5	-0.2	-2.7	-2.8	11	4	49	38
	Average performance	50	5.0	6.6	3.6	4.9	19.2	20.2	34.4	48.3	17	16	36	30

\* Sires evaluated to provide links between years and sites

<sup>1</sup> Classers assessments are expressed as a percentage of a sires progeny

**Table 2. Measured & scored trait performance**

Sire Graph Code	Sire Identity	Number of Progeny	Estimated Progeny Values				Fleece Rot			
			CV%		Staple Length		Score		Incidence	
			1st	2nd	1st	2nd	1st	2nd	1st	2nd
1	Jilliby 6-140	53	0.6	0.7	-0.9	0.0	3.8	<b>2.3</b>	92	<b>68</b>
2	Greenland 7-3	43	0.8	0.4	-1.7	-2.2	4.1	3.1	100	95
3	Hazeldean 5-3356	37	<b>-0.8</b>	<b>-1.1</b>	3.3	2.5	4.4	3.3	95	84
4	Nerstane 920002	58	<b>-0.7</b>	<b>-0.9</b>	11.5	10.7	<b>3.2</b>	<b>2.1</b>	<b>86</b>	76
5	Jilliby 5-60	49	0.0	-0.3	-1.9	-3.0	4.4	3.0	100	86
6	Myocum 5-762	57	0.5	0.3	-3.6	-3.6	<b>3.4</b>	<b>2.3</b>	95	77
8	Cottage Park 6-57	51	0.4	0.3	-3.5	-4.4	4.3	3.3	100	94
9	Woolaroo 6-348	60	0.8	0.8	-2.6	-4.1	4.0	<b>2.3</b>	<b>90</b>	<b>68</b>
12	Hazeldean 5-8150	39	0.2	0.0	3.7	4.1	4.3	3.6	100	79
	Average performance	50	21.7	22.3	86.3	103.4	4.0	2.8	95.3	80.8

**Note:** Information on how to use the results in the tables and graphs is available on pages 4 and 5.

**Tables 3 - Classer's assessments - 2000 drop – 2nd**

**Table 3a. Classer's Grade and Group Traits**

Sire Graph Code	Sire Identity	Number of Progeny	Classer's Grade%				Group Traits%						
			Tops		Culls		Conformation		Quality		Markings		
			Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
1	Jiliby 6-140	53	10	14	42	30	0	7	20	49			2
2	Greenland 7-3	43	12	8	37	34	0	17	13	51			1
3	Hazeldean 5-3356	37	8	12	49	39	0	16	16	53			0
4	Nerstane 920002	58	34	35	20	17	0	0	41	34			0
5	Jiliby 5-60	49	1	1	44	44	0	19	3	48			3
6	Myocum 5-762	57	26	23	26	21	0	2	30	32			4
8	Cottage Park 6-57	51	12	22	37	32	1	22	28	33			0
9	Woolaroo 6-348	60	34	27	17	17	0	13	49	22			2
12	Hazeldean 5-8150	39	11	4	49	38	0	24	10	43			3
Average		49	17	16	36	30	0	13	23	41			2

**Table 3b. Classer's Individual Trait Performance (Conformation and Type)**

Sire Graph Code	Conformation and 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	0	0	0	0		0							7					0
2	0	0	0	0		8							10					1
3	0	0	0	0		4							12					0
4	0	0	0	0		0							0					0
5	0	0	0	0		0							19					1
6	0	0	0	0		0							1					1
8	1	0	1	0		8							14					0
9	0	1	0	1		0							12					0
12	0	0	0	0		0							24					0
Av.	0	0	0	0		2							11					0

**Table 3c. Classer's Individual Trait Performance (Wool Quality) and Markings**

Sire Graph Code	Wool Quality %														Markings %			
	Nourishmnt		Colour		Character		Evenness		Handle		Stpl.Struct		Tip Hair		Topline		Skin	Wool
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Neg	Neg
1	6	19	5	17	10	16			7	12								2
2	5	16	1	13	6	21			5	20								1
3	7	27	0	15	7	19			8	15								0
4	17	22	10	3	22	10			13	12								0
5	0	23	2	6	1	19			1	19								3
6	6	8	8	4	20	15			4	16								4
8	16	11	3	11	17	17			9	11								0
9	24	3	3	15	20	7			26	3								2
12	3	10	0	10	5	23			4	10								3
Av.	9	15	4	10	12	16			8	13								2

**Monaro  
Merino  
Association  
Inc.**

