

2020 FIELD DAY

Balmoral Merino Sire Evaluation Results Booklet

- 2018 & 2019 Drops -

What is Sire Evaluation?

Welcome to the Balmoral Merino Sire Evaluation Trial! The Balmoral Merino sire evaluation program compares the breeding performance of a Merino sire by evaluating his progeny and their expressed traits relative to the progeny of other sires. A consistent ewe base is joined to sires via an AI program, and the resulting progeny are evaluated to assess a sire's breeding performance for a large number of traits which are important to breeders and commercial producers. The results assist in the selection of sires suitable for a large range of breeding objectives.

Balmoral's 2018 and 2019 trial sites are 'Koorungal' for 2018 Drop and Jigsaw Farms for 2019 Drop and are amongst the 9 active Merino sire evaluation sites located across Australia. For more information visit merinosuperiorsires.com.au

Balmoral Site Breeding Objective

The goal is to select sheep that are productive and well grown, with sound conformation and carrying heavy fine wool fleeces of good character, colour and nourishment suitable for the western Victorian environment.

2018 & 2019 Drop Results

This booklet gives the results for the 2018 and 2019 Sires entered into the trial at 'Koorungal' and 'Jigsaw Farms'. Assessments are undertaken at particular age stages for a variety of traits. Explanations of these stages and traits are listed below.

The 2018 Drop Post Weaning assessments were undertaken at 8 months of age and wool growth, whilst Adult assessments were completed at 18 months of age and 10 months of wool growth.

The 2019 Drop results are preliminary results until pedigree is finalised. Post Weaning weights were collected at 6 months. At the field day this drop will be 6.5 months of age, with the same wool growth.

Age at Assessment:

M = Marking	- 14 to 42 days	Y = Yearling	- 300 to 400 days
W = Weaning	- 42 to 120 days	H = Hogget	- 400 to 540 days
E = Early Post Weaning	- 120 to 210 days	A = Adult	- 1.5 years and older
P = Post Weaning	- 210 to 300 days		

Wool & Carcase Traits: Abbreviation, trait and the (units reported)

GFW: Greasy fleece weight (kg/%)	WT: Body weight (kg)
CFW: Clean fleece weight (kg/%)	EMD: Eye muscle depth (mm) at the 'C' site
FD: Average fibre diameter (um)	FAT: Fat depth (mm) at the 'C' site
FDCV: Fibre diameter coefficient of variation (%)	WEC: Worm egg count (%)
SL: Staple length (mm) at the mid-side	
SS: Staple strength (NKtex) at the mid-side	

Visual Traits: Based on the Visual Sheep Scores Publication

BRWR: Breech Wrinkle	CHAR: Wool Character
BCOV: Breech Cover	LEGS: Feet and Legs
FLROT: Fleece Rot	DAG: Dag
COL: Wool Colour	FACE: Face Cover

Trait Leaders:

The highest performing 3 (or more if equal) sires for each trait (trait leaders) are highlighted **by shading**.

2018 Drop Results

Wool - Adjusted Sire Means

Adjusted Sire Means are the average performance of all the progeny of a sire adjusted for an individual's birth type, rear type, age of dam and management group. Adjustments improve the accuracy of the result and the size of the adjustment is based on the actual influence of these factors on the drop. No account is made for trait heritability and genetic correlations between traits. The overall progeny group mean is listed at the bottom of the table.

Breeders flock, Sire number	Progeny No*	PGFW (kg)	PCFW (kg)	PFD (µm)	AFD (µm)	PFDCV (%)	AFDCV (%)	ASL (mm)	ASS (Nktex)
Anderson Poll, 150266 (Link)	29	2.0	1.3	15.2	18.1	19.0	16.5	80.2	50.8
Challara Poll, 150245 (Link)	29	2.0	1.4	14.8	17.8	19.4	17.1	90.3	49.1
Ejanding Poll, 155906	33	1.8	1.2	14.9	17.5	18.7	16.5	78.9	49.2
Glen Donald Poll, 150091	29	1.8	1.3	15.3	18.4	19.0	17.1	82.6	49.9
Glen Holme, 151450	28	1.9	1.2	15.1	17.7	20.2	17.0	78.5	45.3
Hannaton Poll, 130015	23	1.9	1.3	15.2	17.9	19.6	17.2	78.0	50.2
Karabein Poll, 150357 (Link)	29	1.8	1.2	15.2	17.4	18.5	16.1	85.4	54.3
Kerin Poll, 160137 (Link)	22	2.2	1.5	15.1	18.3	18.8	17.7	84.0	44.1
Koorinal, 150026	32	2.0	1.4	15.1	17.7	18.7	16.5	83.1	51.2
Kurra-Wirra, 160029	25	1.9	1.3	15.6	18.3	18.6	17.1	80.2	54.5
Merinotech WA Poll, 155477	18	2.0	1.4	15.6	17.7	18.0	16.0	76.3	59.9
Nerstane, 150226	26	1.9	1.3	15.2	17.9	19.2	17.4	83.3	44.7
The Mountain Dam, 14/RG076 (Link)	30	1.8	1.2	15.0	17.5	17.9	16.1	83.5	48.8
Tuckwood Poll, 131026 (Link)	26	1.9	1.3	14.8	17.7	18.2	16.7	83.9	52.6
Turkey Lane, 150071	27	2.0	1.3	14.4	16.7	19.0	16.7	79.9	46.3
Turkey Lane, 150077 (Link)	41	2.0	1.3	14.6	17.4	18.8	16.0	84.1	56.6
Wallaloo Park Poll, 161514 (Link)	38	1.9	1.3	15.1	17.9	19.0	16.6	91.8	45.3
Woodside Moutajup, 110149	37	1.7	1.1	14.4	16.8	20.2	16.8	76.0	46.2
Woolaroo, Sydney Uni 50yo	27	1.9	1.2	16.2	19.7	20.8	18.7	71.5	50.1
Yiddinga, 160132	28	1.9	1.3	15.1	17.6	20.3	18.4	80.6	44.6
Average	29	1.9	1.3	15.1	17.8	19.1	16.9	81.6	49.7

*Progeny No at weaning

2018 Drop Results

Weight and Carcase - Adjusted Sire Means

Adjusted Sire Means are the average performance of all the progeny of a sire adjusted for an individual's birth type, rear type, age of dam and management group. Adjustments improve the accuracy of the result and the size of the adjustment is based on the actual influence of these factors on the drop. No account is made for trait heritability and genetic correlations between traits. The overall progeny group mean is listed at the bottom of the table.

Breeders flock, Sire number	Progeny No*	WWT (kg)	PWT (kg)	YWT (kg)	HWT (kg)	YEMD (mm)	YFAT (mm)
Anderson Poll, 150266 (Link)	29	24.0	26.8	38.1	54.1	22.0	2.9
Challara Poll, 150245 (Link)	29	23.9	27.7	37.5	53.8	22.2	2.8
Ejanding Poll, 155906	33	26.7	30.6	40.6	59.8	21.5	2.7
Glen Donald Poll, 150091	29	24.6	27.7	39.6	54.2	20.7	2.7
Glen Holme, 151450	28	26.6	29.5	39.7	55.6	21.8	2.6
Hannaton Poll, 130015	23	22.8	26.0	36.2	49.7	21.0	2.6
Karabein Poll, 150357 (Link)	29	22.7	25.9	35.3	49.9	21.6	2.8
Kerin Poll, 160137 (Link)	22	24.7	28.5	37.8	54.5	20.5	2.6
Koorungal, 150026	32	23.0	25.5	34.7	48.7	21.6	2.8
Kurra-Wirra, 160029	25	23.6	25.6	36.4	49.7	21.9	3.0
Merinotech WA Poll, 155477	18	24.1	28.5	39.4	55.8	21.5	2.9
Nerstane, 150226	26	23.9	26.1	36.7	51.0	20.4	2.8
The Mountain Dam, 14/RG076 (Link)	30	21.3	24.8	33.9	48.8	21.4	2.9
Tuckwood Poll, 131026 (Link)	26	24.2	26.9	37.7	53.6	21.8	2.9
Turkey Lane, 150071	27	24.8	28.0	38.3	53.0	20.6	2.8
Turkey Lane, 150077 (Link)	41	24.0	27.0	38.0	53.9	22.0	3.0
Wallaloo Park Poll, 161514 (Link)	38	23.8	27.3	37.5	54.8	21.6	2.8
Woodside Moutajup, 110149	37	20.6	22.7	31.3	45.4	21.0	2.9
Woolaroo, Sydney Uni 50yo	27	21.8	23.2	32.5	45.5	21.4	2.7
Yiddinga, 160132	28	23.0	25.8	36.8	50.3	21.3	2.8
Average	29	23.7	26.7	36.9	52.1	21.4	2.8

*Progeny No at weaning

2018 Drop Results

Wool - Flock Breeding Values (FBVs)

These FBVs are calculated from data recorded within-site and within-drop and express the expected **genetic** performance of a sire relative to another sire in the evaluation (when mated to the same standard of ewes). FBVs improve the accuracy of sire results because they account for the association between traits, the heritability of the trait, and non-genetic effects such as birth type, rear type and sex, and the number of progeny a sire has in the analysis.

Breeders flock, Sire number	Progeny No*	PGFW (kg)	PCFW (kg)	PFD (µm)	AFD (µm)	PFDCV (%)	AFDCV (%)	ASL (mm)	ASS (Nktex)
Anderson Poll, 150266 (Link)	29	8	6	0.2	0.6	-0.2	-0.5	-2.3	1.2
Challara Poll, 150245 (Link)	29	10	15	-0.4	0.0	0.6	0.4	15.1	-1.2
Ejanding Poll, 155906	33	-7	-11	-0.3	-0.6	-0.8	-0.7	-4.6	0.0
Glen Donald Poll, 150091	29	-7	-3	0.4	0.9	-0.2	0.2	1.8	0.5
Glen Holme, 151450	28	-3	-6	0.0	-0.1	1.3	0.4	-4.8	-3.8
Hannaton Poll, 130015	23	-2	-4	0.1	0.1	0.7	0.5	-5.7	0.9
Karabein Poll, 150357 (Link)	29	-8	-10	0.1	-0.7	-0.9	-1.2	5.6	4.4
Kerin Poll, 160137 (Link)	22	21	23	0.2	0.9	0.0	0.9	4.3	-4.9
Koorinal, 150026	32	6	9	0.0	-0.1	-0.6	-0.7	2.2	1.7
Kurra-Wirra, 160029	25	0	-1	1.0	0.8	-0.6	0.0	-3.1	4.8
Merinotech WA Poll, 155477	18	8	9	0.8	-0.1	-1.5	-1.3	-8.6	9.4
Nerstane, 150226	26	-2	-3	0.3	0.3	0.1	0.6	2.5	-4.5
The Mountain Dam, 14/RG076 (Link)	30	-11	-9	-0.2	-0.5	-1.8	-1.4	3.2	-0.8
Tuckwood Poll, 131026 (Link)	26	-3	1	-0.4	-0.2	-1.1	-0.6	3.6	2.3
Turkey Lane, 150071	27	5	3	-1.4	-1.9	-0.2	0.0	-3.4	-4.1
Turkey Lane, 150077 (Link)	41	8	4	-1.0	-0.9	-0.5	-1.5	4.3	7.7
Wallaloo Park Poll, 161514 (Link)	38	-4	-4	0.1	0.3	-0.3	-0.6	18.6	-4.6
Woodside Moutajup, 110149	37	-18	-20	-1.5	-1.9	1.6	0.2	-10.2	-4.0
Woolaroo, Sydney Uni 50yo	27	-2	-4	2.2	3.4	2.6	2.7	-16.9	1.0
Yiddinga, 160132	28	-1	6	0.0	-0.3	1.9	2.6	-1.5	-6.1

*Progeny No at weaning

2018 Drop Results

Weight, Carcase and WEC - Flock Breeding Values (FBVs)

FBVs are calculated from data recorded within-site and within-drop and express the expected **genetic** performance of a sire relative to another sire in the evaluation (when mated to the same standard of ewes). FBVs improve the accuracy of sire results because they account for the association between traits, the heritability of the trait, and non-genetic effects such as birth type, rear type and sex, and the number of progeny a sire has in the analysis.

Indexes

A breeding index combines multiple flock breeding values into a single value that reflects a certain emphasis on these traits. For more information visit merinosuperiorsires.com.au/resources.

Breeders flock, Sire number	Progeny No*	WWT (kg)	PWT (kg)	YWT (kg)	HWT (kg)	YEMD (mm)	YFAT (mm)	PWEC
Anderson Poll, 150266 (Link)	29	0.4	0.5	2.2	3.1	1.0	0.4	-31
Challara Poll, 150245 (Link)	29	0.6	1.9	1.0	1.9	1.3	0.1	33
Ejanding Poll, 155906	33	5.2	8.6	8.1	10.9	0.4	-0.4	21
Glen Donald Poll, 150091	29	1.5	2.6	4.6	2.5	-1.3	-0.7	-20
Glen Holme, 151450	28	4.4	6.3	5.9	5.3	0.6	-0.6	16
Hannaton Poll, 130015	23	-1.1	-1.4	-1.6	-3.1	-0.8	-1.0	-4
Karabein Poll, 150357 (Link)	29	-1.3	-1.7	-3.1	-3.2	0.3	0.0	6
Kerin Poll, 160137 (Link)	22	1.7	3.1	1.7	2.4	-1.5	-0.8	-2
Koorinal, 150026	32	-1.3	-2.8	-4.0	-4.3	0.3	0.2	-15
Kurra-Wirra, 160029	25	-0.7	-2.0	-1.7	-3.3	0.8	1.0	-32
Merinotech WA Poll, 155477	18	1.3	3.2	4.2	4.6	0.3	0.5	6
Nerstane, 150226	26	0.1	-0.8	-0.4	-1.9	-1.7	-0.3	10
The Mountain Dam, 14/RG076 (Link)	30	-3.5	-4.8	-5.3	-4.5	0.1	0.5	7
Tuckwood Poll, 131026 (Link)	26	0.6	0.6	1.4	2.2	0.7	0.3	36
Turkey Lane, 150071	27	1.9	2.8	2.8	1.8	-1.4	-0.4	-17
Turkey Lane, 150077 (Link)	41	0.4	0.8	2.0	2.7	1.3	1.2	1
Wallaloo Park Poll, 161514 (Link)	38	0.4	1.6	1.8	4.4	0.6	0.3	2
Woodside Moutajup, 110149	37	-5.5	-9.4	-10.3	-9.2	-0.7	0.2	-14
Woolaroo, Sydney Uni 50yo	27	-3.6	-7.3	-8.6	-9.4	0.0	-0.3	10
Yiddinga, 160132	28	-1.4	-1.8	-0.8	-3.0	-0.3	-0.1	9

Dual Purpose Plus	Merino Production Plus	Fibre Production Plus	Wool Production Plus
118	110	106	112
129	119	110	122
134	123	113	118
100	98	96	101
118	100	93	102
83	89	94	89
93	93	103	86
94	110	100	120
92	98	103	97
96	91	96	91
125	127	122	119
76	85	86	90
81	85	93	82
118	113	108	110
103	115	118	110
134	129	128	118
110	99	94	104
56	73	93	66
48	51	52	67
93	92	92	98

*Progeny No at weaning

2018 Drop Results

Visual Trait Assessment

An independent classer grades all progeny as either Tops, Flocks or Culls based on their visual assessment of all traits relative to the Site's Breeding Objective (see page 1). This classing reflects the approach that may be undertaken in a commercial flock and is presented as a deviation from the average score. Progeny are also scored, between 1 and 5, on a range of visual traits which are also reported as deviations from the average score (see page 1).

Breeders flock, Sire number	Progeny No*	Adult		Marking		Post Weaning	Adult				
		TOPS (%)	CULLS (%)	BRWR	BCOV	DAG	FLROT	COL	CHAR	LEGS	FACE
Anderson Poll, 150266 (Link)	29	-9	-6	0.0	-0.3	-0.1	-0.1	0.2	0.0	0.3	0.1
Challara Poll, 150245 (Link)	29	0	-3	-0.1	-0.1	-0.3	0.0	-0.1	0.1	0.0	-0.4
Ejanding Poll, 155906	33	-5	5	-0.2	0.1	-0.5	0.0	0.4	0.0	-0.3	0.1
Glen Donald Poll, 150091	29	11	-15	-0.2	0.0	0.4	-0.1	-0.1	-0.4	-0.2	0.2
Glen Holme, 151450	28	-5	-13	-0.4	0.3	0.1	0.4	0.5	0.4	-0.3	0.0
Hannaton Poll, 130015	23	-3	-12	0.1	0.2	0.3	-0.3	-0.1	-0.3	0.5	0.0
Karabein Poll, 150357 (Link)	29	0	-16	-0.4	-0.4	0.0	-0.5	0.0	0.1	0.3	0.0
Kerin Poll, 160137 (Link)	22	17	-5	0.1	-0.5	0.0	-0.2	0.0	-0.2	0.1	-0.1
Koorinal, 150026	32	-8	9	0.4	0.1	0.3	0.5	0.0	-0.1	0.3	0.0
Kurra-Wirra, 160029	25	23	-7	-0.2	0.1	0.3	-0.4	-0.1	-0.2	-0.6	0.2
Merinotech WA Poll, 155477	18	-2	14	-0.2	-0.2	-0.3	0.7	-0.1	0.1	0.0	-0.1
Nerstane, 150226	26	-16	0	0.4	0.3	0.1	-0.1	-0.2	0.0	0.1	0.1
The Mountain Dam, 14/RG076 (Link)	30	-3	19	-0.2	-0.2	0.4	0.3	-0.3	-0.1	-0.1	0.0
Tuckwood Poll, 131026 (Link)	26	1	-14	0.0	0.0	-0.6	-0.4	-0.4	-0.1	-0.1	-0.2
Turkey Lane, 150071	27	16	-2	0.4	0.1	0.3	-0.5	-0.2	-0.6	-0.4	0.0
Turkey Lane, 150077 (Link)	41	6	-19	-0.4	-0.4	-0.3	0.0	-0.1	-0.2	0.2	-0.2
Wallaloo Park Poll, 161514 (Link)	38	9	-16	-0.2	0.2	0.0	-0.1	0.1	0.5	-0.3	0.1
Woodside Moutajup, 110149	37	-17	32	0.5	0.3	-0.1	0.2	-0.1	-0.1	0.4	0.1
Woolaroo, Sydney Uni 50yo	27	-20	47	0.4	0.4	0.2	0.9	0.9	0.8	0.0	0.1
Yiddinga, 160132	28	6	2	0.3	0.1	0.0	-0.1	-0.3	0.3	0.2	0.1
Average	29	24	27	1.9	3.1	1.9	1.8	2.0	2.1	2.8	2.9

*Progeny No is at weaning

2019 Drop Preliminary Results

These results are preliminary until pedigree is finalised for this drop.

Adjusted Sire Means

Adjusted Sire Means are the average performance of all the progeny of a sire adjusted for an individual's birth type, rear type, age of dam and management group. Adjustments improve the accuracy of the result and the size of the adjustment is based on the actual influence of these factors on the drop. No account is made for trait heritability and genetic correlations between traits. The overall progeny group mean is listed at the bottom of the table.

Breeders flock, Sire number	Progeny No*
Anderson Poll, 170660 (Link)	52
Baderloo Poll, 150171	58
Conrayn, MVB123 (Link)	56
Curlew, 170111	53
Glen Holme, 162503 (Dohne)	56
Gunallo Poll, 170295 (Link)	53
Jigsaw Farms, 160270	54
Kerin Poll, 160137 (Link)	41
Kerin Poll, 171646	26
Kerrsville, 166010	55
Kia Ora, 150608 (Rex)	57
Kiandra Poll, 160793	65
Kurra-Wirra, 170039	45
Miramooona, 140012 (Link)	58
Moorundie Poll, NE73 (Link)	56
Mumblebone, 170709	64
Pendarra Poll, 160028	41
Trigger Vale Poll, 170929	47
Turkey Lane, 170060	44
Willera Poll, 175584	55
Yiddinga, 170576	44
Mean	51

Flock Breeding Values (FBVs)

FBVs are calculated from data recorded within-site and within-drop and express the expected **genetic** performance of a sire relative to another sire in the evaluation (when mated to the same standard of ewes). FBVs improve the accuracy of sire results because they account for the association between traits, the heritability of the trait, and non-genetic effects such as birth type, rear type and sex (see adjustments noted above for Raw Data), and the number of progeny a sire has in the analysis.

Adjusted Sire Means	Wool		Weights	
	PFD (µm)	PFDCV (%)	WWT (kg)	PWT (kg)
	16.8	17.6	24.7	26.2
	15.8	17.1	22.9	24.8
	16.0	18.4	23.8	24.7
	16.0	17.5	22.5	23.8
	16.1	17.4	26.7	29.3
	16.0	18.0	25.9	26.1
	17.0	18.8	23.3	24.8
	16.4	17.9	24.9	26.3
	16.2	18.2	24.4	25.8
	16.1	18.7	23.9	25.1
	16.0	18.1	24.0	24.6
	15.9	18.2	22.7	24.0
	15.9	16.7	24.8	25.9
	16.3	17.5	24.4	26.4
	16.0	19.3	23.9	24.9
	16.7	18.0	24.0	25.1
	15.8	18.0	24.8	25.8
	17.1	18.2	24.5	25.7
	15.7	17.3	22.8	23.9
	16.5	17.8	23.1	24.7
	15.8	17.1	22.0	23.4
Mean	16.2	17.9	24.0	25.3

Visual Trait Assessments

Progeny are scored, between 1 and 5, on a range of visual traits which are also **reported as deviations from the average score** (see page 1). The 2019 drop were scored at marking for BRWR and BCOV.

FBVs	Wool		Weights		Visual Traits	Breach	
	PFD (µm)	PFDCV (%)	WWT (kg)	PWT (kg)		BRWR	BCOV
	1.2	-0.5	1.5	2.6		0.3	-0.1
	-0.7	-1.4	-2.0	-1.4		-0.6	0.1
	-0.3	0.8	-0.4	-1.4		0.6	0.4
	-0.4	-0.6	-2.8	-3.7		0.0	-0.2
	-0.1	-0.9	5.6	10.6		-0.6	-0.2
	-0.3	0.2	3.1	2.3		-0.1	-0.1
	1.5	1.5	-1.2	-1.3		0.1	0.0
	0.3	0.1	1.6	2.0		0.1	-0.4
	0.0	0.3	0.7	0.7		0.2	-0.1
	-0.2	1.3	-0.3	-0.9		0.6	0.7
	-0.4	0.3	-0.2	-1.4		0.9	0.2
	-0.5	0.6	-2.5	-3.5		0.0	0.3
	-0.5	-1.9	1.4	1.7		-0.2	-0.3
	0.1	-0.7	1.0	2.9		0.1	0.0
	-0.4	2.4	-0.3	-1.3		0.0	-0.1
	1.0	0.1	-0.1	-0.3		-0.8	-0.2
	-0.8	0.2	1.2	1.2		0.2	0.5
	1.7	0.5	1.0	1.0		-0.7	-0.3
	-1.0	-0.8	-2.2	-3.6		0.4	0.0
	0.6	-0.2	-1.6	-1.7		-0.7	0.0
	-0.8	-1.3	-3.4	-4.6		0.3	0.0
	-	-	-	-		2.1	3.0

*Progeny No is at weaning

Further assessment results for both the 2018 and 2019 drops will be available in Site Reports released via merinosuperiorsires.com.au



Thank you to our Sponsors

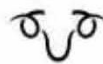
We gratefully acknowledge the generous support of our sponsors and appreciate their participation in our trials.



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