

2019 DOWERIN FIELD DAY

Muresk Merino Sire Evaluation Results Update – 2018 Drop

What is Sire Evaluation?

Welcome to the Dowerin Field Days and the Muresk Merino Sire Evaluation Trial! The Muresk 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.

Muresk is one of 11 active Merino sire evaluation sites located across Australia. For more information visit merinosuperiorsires.com.au. A full report for the 2018 Drop will be published following shearing.

Muresk Site Breeding Objective

The Muresk sire evaluation site works to breed sheep that are to be easy care based on, and because of, good conformation and constitution. They will have a medium to large frame with bright white, stylish wool that is free from colour and water faults. The wool cut is to be sufficient to balance wool production with body size to ensure both are optimised and add real value to the bottom line.

2018 Sire List

Barloo, 130121 (<i>Link sire</i>)	Eastville Park Poll, 160602	Moorundie Poll, 160388
Billandri Poll, 130641 (<i>Link sire</i>)	Ejanding, 167085 (Kenny)	Nepowie Poll, 160104
Challara Poll, 150245 (<i>Link sire</i>)	Kolindale Poll, 160355	Olinda Poll, 160001
Cranmore Poll, 160015	Lewisdale Poll, 150010 (Monty) (<i>Link sire</i>)	Seymour Park Poll, 150111

2018 Drop Results

This booklet gives the results for the 2018 Sires. Assessments are undertaken at particular age stages for a variety of traits. Explanation of these stages and traits are listed below.

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		
Traits: Abbreviation, trait and the (units reported)			
FD:	Average fibre diameter (um)	WT:	Body weight (kg)
FDCV:	Fibre diameter coefficient of variation (%)	EMD:	Eye muscle depth (mm) at the 'C' site
SL:	Staple length (mm) at the mid-side	FAT:	Fat depth (mm) at the 'C' site
SS:	Staple strength (NKtex) at the mid-side		
Trait Leaders:			
The highest performing 3 (or more if equal) sires for each trait (trait leaders) are highlighted by shading . Approx 10%.			

Raw Data

This raw data is unadjusted for birth type, rear type, sex, age of dam, age of measurement or management group. No account is made for trait heritability and genetic correlations between traits. The overall progeny group mean is listed at the bottom of each results table.

Wool	Breeders flock, Sire number	Progeny No*	HFD (um)	HFDCV (%)	HSL (mm)	HSS (Nktex)
	Barloo, 130121	36	16.2	22.4	85.9	25.9
Billandri Poll, 130641	31	15.1	21.6	76.0	30.4	
Challara Poll, 150245	48	15.5	20.8	85.6	27.6	
Cranmore Poll, 160015	47	16.2	19.9	74.9	30.9	
Eastville Park Poll, 160602	36	15.4	21.6	74.3	30.9	
Ejanding, 167085 (Kenny)	36	15.8	20.7	82.2	29.9	
Kolindale Poll, 160355	43	15.5	21.7	77.6	34.1	
Lewisdale Poll, 150010 (Monty)	45	16.1	21.7	77.4	31.8	
Moorundie Poll, 160388	39	15.7	21.6	79.0	28.7	
Nepowie Poll, 160104	36	15.7	20.6	79.0	32.2	
Olinda Poll, 160001	32	15.8	21.0	78.8	32.4	
Seymour Park Poll, 150111	23	15.4	21.5	74.0	32.5	
Average	38	15.7	21.3	78.7	30.6	

Weight and Carcase	Breeders flock, Sire number	Progeny No*	WWT (kg)	PWT (kg)	YWT (kg)	YEMD (mm)	YFAT (mm)
	Barloo, 130121	36	24.3	32.4	44.7	23.6	1.8
Billandri Poll, 130641	31	25.9	33.9	43.3	23.9	1.9	
Challara Poll, 150245	48	24.2	33.4	44.1	25.6	2.1	
Cranmore Poll, 160015	47	25.7	35.3	46.6	25.8	2.1	
Eastville Park Poll, 160602	36	22.1	31.0	43.0	24.0	1.9	
Ejanding, 167085 (Kenny)	36	25.8	34.8	45.5	24.9	2.1	
Kolindale Poll, 160355	43	23.9	31.5	40.9	22.6	1.7	
Lewisdale Poll, 150010 (Monty)	45	23.8	32.6	42.8	23.9	1.8	
Moorundie Poll, 160388	39	23.9	32.6	43.2	23.2	1.8	
Nepowie Poll, 160104	36	27.8	37.5	49.0	25.8	2.1	
Olinda Poll, 160001	32	26.0	34.7	45.5	23.7	1.8	
Seymour Park Poll, 150111	23	25.5	34.0	43.7	23.4	1.7	
Average	38	24.9	33.6	44.4	24.2	1.9	

*Progeny No is as at weaning.

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 (see adjustments noted above for Raw Data), and the number of progeny a sire has in the analysis.

Wool	Breeders flock, Sire number	Progeny No*	HFD (um)	HFDCV (%)	HSL (mm)	HSS (Nktex)
	Barloo, 130121	36	1.0	1.8	12.0	-6.8
Billandri Poll, 130641	31	-1.2	0.5	-4.9	-0.5	
Challara Poll, 150245	48	-0.4	-0.8	11.7	-4.9	
Cranmore Poll, 160015	47	1.1	-2.2	-6.5	1.1	
Eastville Park Poll, 160602	36	-0.6	0.5	-7.8	0.1	
Ejanding, 167085 (Kenny)	36	0.1	-0.9	5.5	-1.1	
Kolindale Poll, 160355	43	-0.4	0.7	-2.3	5.0	
Lewisdale Poll, 150010 (Monty)	45	0.8	0.7	-1.9	1.9	
Moorundie Poll, 160388	39	0.0	0.6	0.7	-2.7	
Nepowie Poll, 160104	36	0.0	-1.0	0.4	2.4	
Olinda Poll, 160001	32	0.2	-0.3	0.5	3.0	
Seymour Park Poll, 150111	23	-0.6	0.3	-7.4	2.4	

Weight and Carcase	Breeders flock, Sire number	Progeny No*	WWT (kg)	PWT (kg)	YWT (kg)	YEMD (mm)	YFAT (mm)
	Barloo, 130121	36	-0.5	-1.4	0.6	-1.2	-0.5
Billandri Poll, 130641	31	0.9	0.0	-1.9	-0.1	0.3	
Challara Poll, 150245	48	-0.7	0.0	0.2	2.6	1.6	
Cranmore Poll, 160015	47	1.7	3.0	3.8	1.9	1.0	
Eastville Park Poll, 160602	36	-4.7	-4.7	-2.1	0.3	-0.1	
Ejanding, 167085 (Kenny)	36	1.4	2.0	2.2	0.7	0.8	
Kolindale Poll, 160355	43	-1.2	-3.1	-5.1	-1.5	-1.0	
Lewisdale Poll, 150010 (Monty)	45	-1.7	-1.8	-2.6	0.1	-0.2	
Moorundie Poll, 160388	39	-1.8	-2.1	-2.1	-1.2	-0.5	
Nepowie Poll, 160104	36	4.5	6.4	7.3	0.6	0.2	
Olinda Poll, 160001	32	1.2	1.0	0.5	-1.2	-0.5	
Seymour Park Poll, 150111	23	0.9	0.7	-0.8	-1.1	-1.0	

*Progeny No is as at weaning.

Visual Trait Assessment

A classer grades all progeny as either Top, Flock or Cull 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. Progeny are also assessed for a range of visual traits.

Classer's Grade – Deviations from the Average

Classer: Mitch Crosby

Classer's Grade	Breeders flock, Sire number	Progeny No*	Hogget	
			TOPS (%)	CULLS (%)
	Barloo, 130121	36	0	4
	Billandri Poll, 130641	31	-7	16
	Challara Poll, 150245	48	15	-9
	Cranmore Poll, 160015	47	3	-5
	Eastville Park Poll, 160602	36	-5	-3
	Ejanding, 167085 (Kenny)	36	-2	-7
	Kolindale Poll, 160355	43	-3	17
	Lewisdale Poll, 150010 (Monty)	45	-14	17
	Moorundie Poll, 160388	39	4	-7
	Nepowie Poll, 160104	36	6	-17
	Olinda Poll, 160001	32	1	-4
	Seymour Park Poll, 150111	23	3	-2
	Average	38	19	29

*Progeny No is as at weaning.

Visual Traits – Score (Between 1 and 5)

Visual Traits	Breeders flock, Sire number	Progeny No*	Marking		Hogget					
			BWR	BCOV	FLROT	COL	CHAR	LEGS	DAG	FACE
	Barloo, 130121	36	3.2	2.8	1.2	2.0	2.4	1.5	2.3	2.7
	Billandri Poll, 130641	31	3.4	2.7	1.2	1.8	2.2	1.7	2.3	2.9
	Challara Poll, 150245	48	2.8	2.8	1.1	1.4	2.3	1.5	1.7	2.4
	Cranmore Poll, 160015	47	3.0	2.7	1.1	1.9	2.2	1.9	1.8	2.5
	Eastville Park Poll, 160602	36	3.2	2.8	1.2	1.8	2.2	1.4	1.6	2.7
	Ejanding, 167085 (Kenny)	36	3.2	2.9	1.3	2.0	2.4	1.3	1.9	2.3
	Kolindale Poll, 160355	43	3.2	2.8	1.1	1.7	2.3	2.0	2.4	2.6
	Lewisdale Poll, 150010 (Monty)	45	3.3	2.7	1.4	2.3	2.6	1.8	2.0	2.7
	Moorundie Poll, 160388	39	2.8	2.7	1.1	1.7	2.6	1.7	2.0	2.8
	Nepowie Poll, 160104	36	2.8	2.8	1.1	2.2	2.0	1.3	2.1	2.5
	Olinda Poll, 160001	32	2.8	2.6	1.3	2.2	2.4	1.5	2.1	2.5
	Seymour Park Poll, 150111	23	3.5	3.1	1.2	1.8	2.0	1.6	2.0	2.6
	Average	38	3.1	2.8	1.2	1.9	2.3	1.6	2.0	2.6

*Progeny No is as at weaning.

Visual Traits as reported: Based on the Visual Sheep Scores Publication.

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