

### Host Property and Ewe Base

The McMahan family at McPiggery, Lameroo generously hosted the 2019 and 2020 Drops of Sire Evaluation progeny. McPiggery receives an average of 325mm rainfall in a Winter dominant pattern, although Lameroo only received 208.4mm in 2018 and 227mm in 2019. The McPiggery ewe mature weight is 70-75kg, producing approximately 20 micron wool. The ewes mated for the 2019 Drop trial were sourced from a rising 3-4 year old age group and classed pre-joining to ensure an even line.

### 2019 Drop Summary

The site evaluated 16 entered rams including 3 link sires. A fourth link was created when an entry was used at another site after the SA joining. 60 ewes were joined to each sire via AI in mid-late November 2018 over two days. At day 50, the ewes were scanned as pregnant with a resulting conception rate of 69.6% from the AI program. At this time, the ewes were separated into three mobs of twin-bearing ewes and two mobs of singles and placed on native grass pastures. Dry conditions continued with ewes being supplementary fed barley via trail feeding up until lambing in mid-April and vetch hay just prior to lambing to minimise disturbance.

Lambing occurred in April 2019. Lamb marking took place in mid-May with visual traits fibre pigmentation, non-fibre pigmentation, recessive black, random spot, breech cover and breech wrinkle recorded. Sire pedigree was established by DNA testing. There were 666 progeny generated across the 16 rams. The average marking breech cover was visually assessed as 1.8 (from a range of 1-5, as per the Visual Sheep Scores publication), and the average marking breech wrinkle was visually assessed as 1.7 (from a range of 1-5, as per the Visual Sheep Scores publication). This indicates the lambs were reasonably plain. Following lamb marking, lambing mobs were boxed up again from which time they continued to be trail fed barley. The ewes were maintained in condition score 3.

Progeny were weaned at 14 weeks of age in late July. Weaning weights were assessed, with single lambs weighing an average of 32.4kg and twin lambs an average of 28.2kg, giving a total average weaning weight of 30.1kg live weight. Progeny then ran together in one mob, on sown barley pasture, until the end of the year. Lambs were crutched / jetted in September 2019. McPiggery had a good Winter with average rainfall, however it was a frosty season which limited feed production. Below average rainfall Spring 19 - Summer 20 resulted in lambs having access to self-feeders of oats over Summer.

On January 8, 2020 Eye Muscle Depth and Fat were scanned. The remaining classing was on March 10, 2020 including:

- Mid-side fleece sampling: yield, fibre diameter, fibre diameter coefficient of variation, fibre diameter standard deviation, curvature, comfort, staple strength and staple length.
- Visual classing: fleece rot, wool colour, wool character, dust penetration, staple structure, face cover, jaw, legs/feet, dag, and Classer's Visual Grade.

Shearing was on March 12 and 13, 2020 with greasy fleece weight being collected. Post shearing visual traits shoulder/back and body wrinkle were assessed on April 1, 2020. The wether component of the 2019 drop was then sold. The ewes underwent their adult assessment of mid-side sampling (except staple strength and length) and visual classing on October 6, 2020. Greasy fleece weight and post shearing visual traits will be assessed at shearing early November 2020. WEC was not collected as minimum testing thresholds were not reached. This will mark the completion of the 2019 drop trial.

### 2020 Drop Summary

The site evaluated 18 entered rams including 3 link sires in 2020. 60 ewes were joined to each sire via AI in late November 2019 over two days. At day 50, the ewes were pregnancy scanned with a resulting AI conception rate of 72%. Pre-lambing, the ewes were separated into six twin-bearing mobs and the three singles mobs and were placed on native grass pastures. A wet February provided green feed with occasional supplementary feeding of barley hay during the lambing period.

Lambing was in late April 2020. Lamb marking was mid-May, with visual traits fibre pigmentation, non-fibre pigmentation, recessive black, random spot, breech cover and breech wrinkle recorded. Sire pedigree was established by DNA testing. There were 877 progeny generated across the 18 rams. The average marking breech cover was visually assessed as 1.0 (from a range of 1-5, as per the Visual Sheep Scores publication), and the average marking breech wrinkle was visually assessed as 1.5 (from a range of 1-5, as per the Visual Sheep Scores publication). This indicates the lambs were reasonably plain. Following lamb marking, lambing mobs were boxed up again, and ewes were maintained in condition score 3.

Weaning was at 13 weeks of age in late July with progeny tip shorn. Weaning weights were assessed, with single lambs weighing an average of 33.2kg and twin lambs an average of 29.4kg, giving a total average weaning weight of 31.3kg live weight. Progeny then ran together in one mob on sown barley pasture.

## 2020 Drop

### Birth Type

Breeders flock, Sire number	Progeny Weaned		Birth Type (%)	
	Single	Twin	Single	Twin
Baderloo Poll, 180049	42	50	50	50
Calcookara Poll, 170060	57	51	51	49
Caroonboon, 181395	42	57	57	43
Challara Poll, 181063	49	49	49	51
Collandra North, 180645	41	76	76	24
Collinsville Poll, 130545 (Apollo) (Link)	48	48	48	52
Flairdale Poll, 180015 (Link)	55	47	47	53
Glenville Poll, T88018	57	40	40	60
Hazeldean, 000113 (Link)	44	64	64	36
Malleetech Poll, 188039	53	38	38	62
Mernowie Poll, 180500	51	43	43	57
Mumblebone, 170129	41	61	61	39
Old Ashrose Poll, 150445	50	46	46	54
Pepper Well Poll, 188187	43	51	51	49
Ramsgate, 180451	43	47	47	53
Ridgway Poll, 180157	47	43	43	57
Stockton, DB0074	43	42	42	58
Willandra Poll, 180080	44	41	41	59
<b>Average</b>	<b>850</b>	<b>417</b> <b>49%</b>	<b>433</b> <b>51%</b>	

### Visual Scores

Breeders flock, Sire number	Breech Scores @ Marking	
	BRWR	BCOV
Baderloo Poll, 180049	1.2	1.0
Calcookara Poll, 170060	1.3	1.1
Caroonboon, 181395	1.4	1.1
Challara Poll, 181063	1.2	1.0
Collandra North, 180645	1.9	1.0
Collinsville Poll, 130545 (Apollo) (Link)	1.5	1.0
Flairdale Poll, 180015 (Link)	1.2	1.1
Glenville Poll, T88018	1.2	1.0
Hazeldean, 000113 (Link)	2.4	1.1
Malleetech Poll, 188039	1.6	1.1
Mernowie Poll, 180500	1.7	1.0
Mumblebone, 170129	1.2	1.0
Old Ashrose Poll, 150445	1.4	1.0
Pepper Well Poll, 188187	1.2	1.1
Ramsgate, 180451	1.5	1.0
Ridgway Poll, 180157	1.4	1.1
Stockton, DB0074	1.2	1.1
Willandra Poll, 180080	2.2	1.0
<b>Average</b>	<b>1.5</b>	<b>1.0</b>

### Weight

Breeders flock, Sire number	Adjusted Sire Means		Flock Breeding Values	
	WWT (kg)	WWT (kg)	WWT (kg)	WWT (kg)
Baderloo Poll, 180049	29.1	29.1	-2.8	-2.8
Calcookara Poll, 170060	31.9	31.9	0.8	0.8
Caroonboon, 181395	32.9	32.9	2.0	2.0
Challara Poll, 181063	32.4	32.4	1.4	1.4
Collandra North, 180645	29.7	29.7	-1.9	-1.9
Collinsville Poll, 130545 (Apollo) (Link)	31.6	31.6	0.4	0.4
Flairdale Poll, 180015 (Link)	30.6	30.6	-0.9	-0.9
Glenville Poll, T88018	32.6	32.6	1.7	1.7
Hazeldean, 000113 (Link)	31.0	31.0	-0.4	-0.4
Malleetech Poll, 188039	29.7	29.7	-2.1	-2.1
Mernowie Poll, 180500	31.5	31.5	0.3	0.3
Mumblebone, 170129	30.9	30.9	-0.5	-0.5
Old Ashrose Poll, 150445	33.6	33.6	3.0	3.0
Pepper Well Poll, 188187	31.5	31.5	0.2	0.2
Ramsgate, 180451	31.5	31.5	0.2	0.2
Ridgway Poll, 180157	30.9	30.9	-0.5	-0.5
Stockton, DB0074	30.8	30.8	-0.7	-0.7
Willandra Poll, 180080	31.2	31.2	-0.2	-0.2
<b>Average</b>	<b>31.3</b>	<b>31.3</b>		

Weight results are presented in the table above as both Adjusted Sire Means and Flock Breeding Values. See the corresponding 2019 drop pages for further explanation.

<b>Visual Traits as reported:</b>	BRWR: Breech Wrinkle BCOV: Breech Cover DAG: Dag Scored betw. 1-5 based on the Visual Sheep Scores.	CHAR: Wool Character FACE: Face Cover LEGS: Feet and Legs Further traits are available in Site Reports.
<b>Trait Leaders:</b>	The highest performing 3 (or more if equal) sires for each trait (trait leaders) are highlighted by shading.	