

# RICHMOND

## MERINOS

Flock No. 5021  
Stud Classer: Charlie Massy

### 2019 ON PROPERTY SALE

110 RAMS - HORN AND POLL

JULY/AUGUST 2018 DROP

1:30PM TUESDAY 1ST OCTOBER

INSPECT FROM 10:30AM



## SELLING AGENTS – ELDERS-YOUNG

**CONTACTS:** Aaron Seaman 0488 915 315  
Nick McNamara 0419 643 941

**REBATE:** 2% to outside agents provided they are introduced prior to the sale and settle within 7 days.

**WOOL TESTS:** All wool tests courtesy of New England Fibre Testing. Rams tested with 5 months wool on the 3rd of September. This information should be used as a guide only and Richmond accepts no responsibility for their accuracy.

**ASBV's:** ASBV figures are calculated under the national recording system Sheep Genetics . ASBV figures are continually changing as new data is entered in the system and the figures in the sale catalogue may differ slightly to those presented on sale day.

**SHEARING:** Rams shorn on April 3rd 2019

**DELIVERY:** Collection of rams on sale day is preferred. Delivery at a later date can be arranged although no responsibility will be taken for death or injury of rams left on the property. It is recommended that rams are insured on the day.

### **Stud History**

The “Richmond” flock was founded in 1994 with the purchase of pure Severn Park blood ewes and rams. In 1999 we became a commercial member of the SRS system. In 2001 on the advice of our sheep classer Charlie Massy. We decided to create a nucleus ewe flock and implement a laproscopic insemination program to breed replacement rams. In 2004 we were accepted by Dr Jim Watts as a participating stud within the SRS Merino breeding system.

Over time we have developed the stud to approximately 600 ewes. Since the studs inception genetics have predominately come from Severn Park in the form of semen, rams and stud ewes. The bloodline has proved to be very successful and suitable within our environment. In June 2008 we expanded our stud numbers by purchasing 122 in-lamb stud ewes at the Severn Park dispersal sale. In recent years judicious introduction of outside genetics from a number of bloodlines have been infused to help create the current Richmond phenotype.

## **The Richmond Phenotype**

The sheep we aim to breed is a balanced dual purpose animal compatible with an increasing environmentally conscious consumer base without compromising productivity.

There are five components that control our selection procedure and steer us towards this vision:

**1. Skin structure** - The sheep must be plain bodied with no visible wrinkle evident possessing a skin that is thin and supple. The skin is the engine room of fibre production and if the follicle structure is correct the animal will produce large quantities of fine micron, superior processing fibres.

**2. Fibre** - The wool must be silky soft, highly aligned, deeply crimped and forming small fibre bundles as opposed to traditional thick staples. It should be white and free of suint ,evenly but not over nourished and very long.

**3 Growth** - We select for rapid early weight gain but not necessarily extreme adult weights. We want lambs that mature early and meet specific markets. They must be well muscled but not too lean, with good fat cover. It is our policy to only use sires with high ASBV's for these traits.

**4. Fertility** - We consider fertility to be a major profit driver under current market conditions. High lambing percentages enable self replacing flocks to place more selection pressure on their breeding flock resulting in greater genetic gain. At Richmond, all dry ewes are culled and a strong emphasis is placed on twinning . This has resulted in stud ewes regularly weaning 120% lambs on joining numbers.

**5. Conformation** - It goes without saying that all our sheep must be structurally correct and this is the first thing we look at in the classing race. We also like our sheep to have long bodies, good neck extension with a triple wedge body shape and good ground clearance.

## **MARKET TRENDS - PRESENT AND FUTURE**

There are three market trends that drive our breeding direction. All three have gradually gained momentum across a world wide consumer base and we feel they will become increasingly important as we look towards our vision of the future merino.

**1. Elite Fibre Production** - In the 1950's everyone wore wool and there were very few options available particularly for heavy garments. Everything from overcoats to underwear was made of wool and there was a strong market for all grades and styles. In the 1980's the industry was supported by the reserve price scheme creating a false market and encouraging the production of large quantities of inferior quality product. Today we are faced with strong competition from artificial fibres in a world of centrally heated homes and office buildings and we must adapt to this new environment. Our future fibre must be of the highest quality able to be worn next to the skin and marketed as an elite and unique product. We believe that we shouldn't isolate ourselves from future markets by slipping into the trap of growing coarse, poor handling, inferior wools simply in order to fill more bales.

**2. Meat Production** - This is an obvious one and it is here to stay. We believe the merino of the future must be a dual purpose animal and we feel well situated to take advantage of this situation. Our ongoing selection policy for carcass traits, combined with judicious and careful introductions of outside genetics from industry leading sires is paying dividends and have placed us in a great position to take advantage of what seems to be a permanent market trend.

**3. Eco-Friendly Production - Non-Mulesing.** This is an important market trend that large sections of the industry have been turning a blind eye to for some years. It has gradually been creeping up on us and is fast becoming a world wide movement. To remain productive we must move with these market forces rather than fight against them. The Richmond phenotype allows us to produce a clean green product with limited chemical use and ethical animal husbandry. Our white waterproof wools grown on wrinkle free bodies have enabled us to cease jetting for body strike (we have not jetted adult sheep for 19 years) and our plain wrinkle free breeches have allowed us to stop mulesing, eliminating the process 14 years ago. Throughout this time and despite much industry scepticism our production levels have actually increased.

## **HEALTH STATUS**

- All sheep are vaccinated with Gudair vaccine despite there being no record of OJD on Richmond or on any neighboring properties.
- Richmond is a brucellosis free accredited flock.
- There has been no record of footrot in the flocks history.
- Annual fecal egg count tests reveal low egg levels and no sign of worm resistance.
- All animals are vaccinated twice with 6-in-1 and sale rams receive a booster vaccination prior to sale.
- All sale rams were drenched with Trifecta on September 21st.

## **EXPLANATION OF WOOL TERMS**

FD - Fibre Diameter

SD - Standard Deviation - The measure in micron of the spread of fibres.  
The lower the better.

CV% - Co-efficient of Variation - the standard deviation expressed as a percentage, the lower the better. When comparing rams of the same micron, a lower CV% usually means higher quality wool.

CF% - Comfort Factor. Percentage of fibres less than 30 micron, the higher the better. The general rule is that less than 95% comfort factor may cause prickle when worn next to the skin.

## **NOTES ON WOOL TESTS**

Richmond use OFDA fibre measurements as it gives a more accurate reading of higher quality wools being superior to laser scan at picking up ultra fine fibres below 9 micron. This also however has a negative effect on SD and CV% and will give a higher reading for these tests than laser scan simply because it has the ability to pick up a wider range of fibres. Beware of sheep with low SD and CV% readings that have been shedded or fed specifically for sale or show preparation as these feeding regimes will often give the animal artificially low readings. Richmonds breeding values for fibre distribution ( SD and CV% ) place them in the top 15% of all animals tested across the industry.

## **FEEDING**

All sheep on Richmond are run under commercial conditions providing supplementary feed only in times of nutritional stress. Our stud sheep graze the same country as our flock sheep and we are not interested in any form of artificial feeding or show ring activity. No rams are shedded and will be run straight in from the paddock on sale day.

It is and will continue to be our policy to concentrate 100% of our time and money towards improving genetics. Overfed rams with false growth rates are of no benefit to our clients. For this reason we strongly recommend the use of ASBV's for growth and carcass traits.

Richmond rams are genetically wired to breed sheep with growth and constitution.

## **ASBV's**

ASBV's (Australian Sheep Breeding Values) are estimations of an animal's true genetic merit. They are a more accurate guide than raw figures as they take into consideration many factors that may affect the true genetic value of an animal, such as differing birth dates and the hereditary influences of parents and grandparents. They also remove the differing environmental and management influences enabling us to make accurate across flock comparisons.

## **ASBV - Explanation of terms**

**PWT** - Post weaning weight. Estimates the growth difference in animals measured in kgs at 7 to 8 months of age. Our focus is on breeding animals that mature quickly and reach their optimum weight before they cut their teeth.

**YWT** - Yearling weight. Estimates the growth difference in animals measured in kgs at 12 months of age

**YEMD** - Yearling Eye Muscle Depth. Expressed in millimetres of muscle depth. Rams with a higher figure produce sheep with a higher yielding carcass and are generally more robust, better-doing animals.

**YFAT** - Yearling fat depth expressed in millimetres. Rams with a positive fat figure will hold their condition better and will bounce back quickly after stressful times.

**YCFW** - Yearling clean fleece weight. The difference in clean fleece weight expressed as a percentage

**DP+** - Dual Purpose Index. This is an index score that calculates the potential value of an animal for genetic gain when the production system is focused on dual purpose attributes balancing fleece traits with weight gain, muscle development and reproduction. The higher the score the better.

**Note** - A full range of breeding values will be displayed on the pen cards on sale day. Because of space constrictions only the above values are included in the catalogue.

### **SIRES OF SALE RAMS**

**16-110** (xCH-394) Top priced ram at our 2017 on property auction. Purchased by East Loddon merino stud for \$11,000. A multiple trait leader with tremendous carcass attributes.

**16-111** (xCH-394) Very good all round sire with a heavy fleece of high quality and perfect confirmation.

**16-227** (x13-579) High density wool sire with advanced fibre quality that he has passed on to his sons.

**16-313** (x13-1021) Very good all rounder with a meaty, heavy carcass and a high density fleece.

**16-329** (x13-1021) A very deep and boldly crimped sire with extreme staple length and a good carcass to match.

**15-317** (x12-26) Poll son of the high density wool sire 12-26. He has a very supple and advanced skin with exceptional fibre traits that he has passed on to his progeny.

**15-182** (x13-579) Sire with outstanding carcass traits combined with a long stapled, soft, white and superior processing fibre.

**GW-27** (x13-579) Top priced ram purchased at the 2016 Glenwood sale. Another high quality son of 13-579 with high follicle density and good dual purpose traits.

**WP-291** Wallaloo Park. Wool sire combining early growth with fleece weight.

**WP-1514** Wallaloo Park. Widely used and high indexing dual purpose sire providing fleece weight, carcass traits and improved industry linkages.

## ASBV PERCENTILES AS OF AUGUST 2018

	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
TOP 5%	6.3	8.8	1.3	2.2	24.7	16.2	162
TOP 10%	5.3	7.7	1.0	1.8	21.8	13.7	155
TOP 20%	4.2	6.3	0.6	1.2	18.4	11.0	147
TOP 30%	3.4	5.3	0.4	0.7	16.0	9.0	142
TOP 40%	2.8	4.4	0.2	0.5	14.0	7.5	137
TOP 50%	2.2	3.7	0.0	0.2	11.9	6.2	133

# NOTE - Data for YSL and PWT ASBV figures for the 2018 catalogue have not been collected and are generated by trait correlations and ancestral linkages. Because of this their accuracies will be low. The remainder of the listed traits are all based on raw data and accordingly should have much higher accuracy.



LOT 1				TAG 106			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514	SYN	17.6	2.6	99.9	6.3	9.0	0.3	0.8	22.1	18.9	151
NOTES:											

LOT 2				TAG 360			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	SYN	16.9	2.9	100	4.2	6.4	0.4	1.1	13.1	15.8	139
NOTES:											

LOT 3				TAG 41			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	12-216	18.9	2.9	99.8	5.2	7.9	0.1	2.4	15.4	14.6	158
NOTES:											

LOT 4				TAG 44							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	8-13	17.8	3.0	99.8	4.9	7.2	0.3	1.6	16.0	13.0	150
NOTES:											

LOT 5				TAG 643							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160329	SYN	18.4	3.4	99.9	5.3	7.6	0.1	1.9	13.7	16.1	156
NOTES:											

LOT 6				TAG 532			TRIPLET				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27	WP912	17.5	2.6	99.9	3.6	5.4	0.0	0.4	20.6	15.3	145
NOTES:											

LOT 7				TAG 646			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160329	130579	18.3	3.2	99.8	6.2	8.3	-0.1	0.6	19.4	17.2	154
NOTES:											

LOT 8				TAG 20			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	12-216	19.0	2.9	99.8	4.6	8.1	1.0	2.6	16.7	14.7	164
NOTES:											

LOT 9				TAG 614							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27	131021	17.4	2.6	100	5.8	7.1	-0.8	1.1	13.9	14.0	145
NOTES:											

LOT 10				TAG 7			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	8-13	19.1	2.9	99.9	3.9	6.1	0.0	1.1	23.4	13.1	156
NOTES:											

LOT 11				TAG 375			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	CP8317	19.2	3.1	99.7	4.1	6.0	-0.1	0.5	13.6	18.2	133
NOTES:											

LOT 12				TAG 450							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160313	SYN	18.6	3.0	99.9	5.4	8.0	0.0	1.1	18.0	15.5	155
NOTES:											

LOT 13				TAG 65							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110		16.9	2.6	99.8	5.1	8.2	0.0	2.0	12.5	13.4	153
NOTES:											

LOT 14				TAG 378							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	SYN	17.6	2.9	99.9	4.3	6.3	0.2	0.1	13.2	15.3	131
NOTES:											

LOT 15				TAG 729			TRIPLET				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	14-536	19.2	2.7	99.9	5.5	8.6	0.9	2.4	14.6	18.8	156
NOTES:											

LOT 16				TAG 272							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111	14-405	17.9	2.4	100	5.2	7.7	0.3	0.3	14.7	16.1	143
NOTES:											

LOT 17				TAG 408			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	SYN	18.1	2.5	99.9	3.7	5.8	0.3	1.4	16.5	18.0	143
NOTES:											

LOT 18				TAG 36							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	SYN	18.1	2.8	99.9	5.3	8.1	0.4	2.2	16.4	13.7	160
NOTES:											

LOT 19				TAG 746			TRIPLET				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	K-627	17.3	3.0	99.9	5.4	7.8	0.5	1.7	15.9	14.2	146
NOTES:											

LOT 20				TAG 429			HALF POLL				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160313	14-536	17.7	2.6	99.9	6.0	9.1	0.3	1.5	15.0	15.2	159
NOTES:											

LOT 21				TAG 370			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	8-13	18.2	3.1	99.9	3.8	5.8	0.1	0.4	18.8	15.3	146
NOTES:											

LOT 22				TAG 11							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110		18.4	2.9	99.9	4.5	7.2	0.6	2.1	14.2	14.0	157
NOTES:											

LOT 23				TAG 145							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514		18.1	3.8	99.9	4.3	6.1	0.4	1.1	15.1	17.4	136
NOTES:											

LOT 24				TAG 59			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	SYN	17.5	2.5	99.9	4.4	7.1	0.5	1.7	18.3	13.2	161
NOTES:											

LOT 25				TAG 66							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110		16.8	3.2	99.9	7.2	11.2	1.1	1.4	15.2	12.5	156
NOTES:											

LOT 26				TAG 740							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182		17.4	2.7	99.9	6.0	9.0	0.8	2.1	13.9	18.0	145
NOTES:											

LOT 27				TAG 18							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110		18.7	2.9	99.8	5.7	8.9	0.6	1.9	19.0	14.1	160
NOTES:											

LOT 28				TAG 379			TRIPLET				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	8-13	17.1	3.2	99.8	4.5	6.5	0.2	1.0	18.1	16.4	140
NOTES:											

LOT 29				TAG 30			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	SYN	19.3	2.8	99.9	5.1	8.4	1.0	2.5	17.7	13.2	164
NOTES:											

LOT 30				TAG 132			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514	K-627	19.6	3.5	99.9	7.9	10.8	0.0	0.3	21.0	17.2	149
NOTES:											

LOT 31				TAG 845			TWIN HALF POLL				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
W-SYN	140405	18.2	2.8	99.9	2.9	4.3	0.2	0.5	11.6	18.0	131
NOTES:											

LOT 32				TAG 777			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150317	SYN	20.1	3.2	99.7	2.6	5.0	0.3	0.7	12.7	13.1	141
NOTES:											

LOT 33				TAG 472							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160313	14-288	16.8	2.6	99.9	3.2	4.5	0.2	1.1	7.0	12.8	136
NOTES:											

LOT 34				TAG 384							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227		19.5	3.1	99.8	4.2	6.2	0.0	0.6	9.4	16.2	132
NOTES:											

LOT 35				TAG 406			HALF POLL				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	14-405	16.8	2.4	99.9	6.1	8.6	0.3	0.9	10.8	16.6	143
NOTES:											

LOT 36				TAG 383							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227		16.5	2.9	99.9	3.9	5.6	-0.1	0.4	17.1	15.7	144
NOTES:											

LOT 37				TAG 135			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514	12-216	17.9	3.1	99.7	6.0	8.6	0.5	1.1	15.6	17.3	145
NOTES:											

LOT 38				TAG 311							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111	SYN	18.7	2.8	99.8	6.2	9.8	0.5	1.4	15.7	15.7	157
NOTES:											

LOT 39				TAG 333							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227		18.9	2.6	99.9	4.6	7.0	0.5	1.5	8.3		138
NOTES:											

LOT 40				TAG 339							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	12-216	17.8	2.5	100	5.3	8.1	0.2	1.3	11.8	17.2	147
NOTES:											



LOT 41				TAG 289			HALF POLL				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111		16.5	2.8	99.9	3.9	6.2	0.2	0.6	13.2	14.5	139
NOTES:											

LOT 42				TAG 721							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	12-26	17.9	2.6	99.9	3.5	6.0	0.8	1.6	17.9	13.6	148
NOTES:											

LOT 43				TAG 369							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	14-405	16.2	2.4	100	1.7	2.5	0.2	0.7	13.5	16.7	130
NOTES:											

LOT 44				TAG 535							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27	131021	18.5	3.0	99.7	4.3	5.7	0.0	0.5	11.0	14.3	132
NOTES:											

LOT 45				TAG 367			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	CH-394	17.6	2.6	99.8	6.3	9.1	0.1	0.7	14.4	16.3	144
NOTES:											

LOT 46				TAG 405			HORN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	SYN	18.9	2.9	99.8	4.5	7.1	0.8	1.7	12.0	18.8	137
NOTES:											

LOT 47				TAG 102			TWIN		HORN		
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514	12-216	18.4	2.8	99.8	5.8	7.9	0.1	0.8	13.3	16.1	133
NOTES:											

LOT 48				TAG 437			HORN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160313		17.9	3.2	99.9	4.3	7.0	0.7	1.3	11.3	15.5	142
NOTES:											

LOT 49				TAG 314			HORN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111		18.8	2.8	99.9	4.3	6.8	0.5	1.4	11.4	14.7	142
NOTES:											

LOT 50				TAG 745			HORN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	131021	19.9	2.9	99.9	5.8	8.1	0.8	2.1	14.8	19.6	149
NOTES:											

LOT 51				TAG 229							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP-291		18.1	2.8	99.9	5.7	9.5	0.7	1.0	15.4	12.9	149
NOTES:											

LOT 52				TAG 759			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	8-13	18.9	2.9	99.9	3.9	6.4	0.7	1.6	13.1	14.9	136
NOTES:											

LOT 53				TAG 22							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110		19.3	3.2	99.9	6.8	10.5	0.5	1.7	21.7	12.9	167
NOTES:											

LOT 54				TAG 267							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111	131021	17.2	2.8	100	4.2	5.6	0.0	0.8	18.9	17.0	153
NOTES:											

LOT 55				TAG 607			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27	SYN	19.6	3.3	99.6	3.6	5.2	-0.3	0.4	12.3	11.7	130
NOTES:											

LOT 56				TAG 61			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	13-579	17.9	2.7	99.8	4.8	7.6	0.8	2.0	19.3	12.4	168
NOTES:											

LOT 57				TAG 682			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160329	SYN	18.9	3.1	99.9	5.4	7.8	0.2	1.3	14.8	15.6	150
NOTES:											

LOT 58				TAG 684			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160329	WP912	18.6	3.4	99.6	4.3	5.9	0.1	1.5	18.5	16.8	155
NOTES:											

LOT 59				TAG 492			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160313		20.4	2.9	99.8	3.8	5.9	0.3	1.6	13.0	14.2	149
NOTES:											

LOT 60				TAG 730			TRIPLT				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	14-536	19.5	3.4	99.8	3.8	6.1	0.9	2.0	10.0	15.7	145
NOTES:											

LOT 61				TAG 24							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110		17.2	2.9	99.9	7.9	11.9	0.5	2.5	13.0	12.6	164
NOTES:											

LOT 62				TAG 666							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160329	12-26	17.9	3.1	99.9	4.8	7.1	-0.2	0.8	16.3	16.7	159
NOTES:											

LOT 63				TAG 10							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	K-627	19.1	3.2	99.9	6.8	10.3	0.3	1.5	23.7	11.9	170
NOTES:											

LOT 64				TAG 274							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111	14-405	16.7	2.8	99.8	4.5	6.7	0.4	1.2	10.1	14.0	140
NOTES:											

LOT 65				TAG 206			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP-291	11-556	17.5	2.7	99.9	2.7	4.3	-0.4	-0.3	21.2	15.8	151
NOTES:											

LOT 66				TAG 509							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160313	13-579	17.2	2.9	99.9	4.8	6.2	0.4	1.7	11.4	11.8	141
NOTES:											

LOT 67				TAG 769			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	SYN	17.7	2.8	99.9	4.2	6.2	0.6	1.7	8.5	13.8	129
NOTES:											

LOT 68				TAG 362			TWIN		HALF POLL		
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	SYN	17.4	3.2	99.9	4.1	6.3	0.4	1.0	10.4	17.1	136
NOTES:											

LOT 69				TAG 563							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27	11-39	18.5	2.7	99.9	3.8	5.1	-0.2	0.7	10.8	11.4	133
NOTES:											

LOT 70				TAG 852							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
W-SYN	11-39	18.5	2.6	100	4.8	7.2	0.5	1.9	13.0	15.7	144
NOTES:											

LOT 71				TAG 585							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27	WP912	17.0	2.5	99.9	4.2	5.9	-0.2	0.7	13.5	11.3	141
NOTES:											

LOT 72				TAG 712			TWIN HALF POLL				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	SYN	17.7	2.6	99.9	4.0	6.4	1.1	1.9	10.1	14.4	129
NOTES:											

LOT 73				TAG 319			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111	8-13	19.7	3.3	99.7	4.9	7.9	1.0	1.5	12.9	12.7	151
NOTES:											

LOT 74				TAG 9							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	12-26	17.6	2.8	99.9	4.9	8.0	0.7	2.4	18.5	12.4	163
NOTES:											

LOT 75				TAG 108							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514		17.2	2.9	99.8	7.3	10.6	0.9	1.9	13.4	16.1	144
NOTES:											

LOT 76				TAG 28							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110		17.2	2.9	99.9	4.0	6.3	0.5	2.5	16.3	13.9	158
NOTES:											

LOT 77				TAG 25							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110		17.2	3.3	99.9	4.8	6.8	0.2	1.6	19.6	13.3	156
NOTES:											

LOT 78				TAG 338							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	CH-394	18.6	3.0	99.9	3.5	5.0	-0.1	0.4	15.3	15.4	149
NOTES:											

LOT 79				TAG 633			TWIN HALF POLL				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160329	13-579	17.0	2.9	99.9	4.8	6.4	1.0	0.1	15.8	13.4	150
NOTES:											

LOT 80				TAG 6			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	13-579	17.0	3.3	99.9	6.4	9.6	0.5	1.2	20.7	12.6	169
NOTES:											



LOT 81				TAG 23			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	13-579	18.1	3.0	99.7	5.1	7.8	1.0	2.5	17.7	14.4	162
NOTES:											

LOT 82				TAG 8			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	12-216	17.5	2.8	99.9	4.1	7.2	0.9	2.0	15.9	14.4	159
NOTES:											

LOT 83				TAG 391							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	10-228	17.5	3.1	99.7	4.3	6.2	0.3	1.6	12.7	13.3	143
NOTES:											

LOT 84				TAG 281							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111	SYN	17.0	2.9	99.9	4.0	6.6	0.6	1.1	11.3	14.9	143
NOTES:											

LOT 85				TAG 191			TWIN		HALF POLL		
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP-291	12-216	18.9	2.8	99.9	3.7	6.3	0.3	-0.5	19.0	15.6	133
NOTES:											

LOT 86				TAG 138			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514		<b>19.8</b>	<b>3.8</b>	<b>99.7</b>	<b>4.7</b>	<b>7.0</b>	<b>1.0</b>	<b>1.9</b>	<b>14.8</b>	<b>16.1</b>	<b>142</b>
NOTES:											

LOT 87				TAG 543			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27	SYN	<b>18.0</b>	<b>2.9</b>	<b>99.9</b>	<b>3.2</b>	<b>4.7</b>	<b>-0.3</b>	<b>-0.2</b>	<b>15.8</b>	<b>13.8</b>	<b>129</b>
NOTES:											

LOT 88				TAG 761			TRIPLLET				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	10-228	<b>18.0</b>	<b>2.7</b>	<b>99.9</b>	<b>5.5</b>	<b>8.6</b>	<b>0.9</b>	<b>1.6</b>	<b>13.1</b>	<b>14.9</b>	<b>136</b>
NOTES:											

LOT 89				TAG 584							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27	14-405	<b>19.6</b>	<b>3.2</b>	<b>99.8</b>	<b>3.5</b>	<b>4.6</b>	<b>-0.6</b>	<b>-1.0</b>	<b>12.9</b>	<b>13.5</b>	<b>122</b>
NOTES:											

LOT 90				TAG 64							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160110	GW-362	<b>17.9</b>	<b>4.1</b>	<b>99.9</b>	<b>3.3</b>	<b>5.9</b>	<b>1.0</b>	<b>1.6</b>	<b>15.4</b>	<b>10.5</b>	<b>162</b>
NOTES:											

LOT 91				TAG 321			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111	14-252	15.9	2.5	100	4.5	6.5	0.1	1.0	11.6	13.8	151
NOTES:											

LOT 92				TAG 457			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160313	SYN	19.2	3.0	99.9	3.0	4.6	0.4	2.2	7.8	12.6	142
NOTES:											

LOT 93				TAG 713			TRIPLLET				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	8-13	20.0	3.2	99.7	4.5	7.0	1.4	2.3	11.9	15.6	134
NOTES:											

LOT 94				TAG 715			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	SYN	17.6	2.6	99.9	4.6	7.5	1.3	2.3	13.1	16.0	136
NOTES:											

LOT 95				TAG 366							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	131021	17.2	2.7	99.9	3.7	5.0	0.1	1.2	15.6	16.5	140
NOTES:											

LOT 96				TAG 778			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150317	SYN	18.1	3.1	100	1.1	3.2	0.7	0.7	12.5	14.3	136
NOTES:											

LOT 97				TAG 276			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111	8-13	18.3	2.5	99.8	6.1	9.5	0.7	1.4	15.2	12.9	156
NOTES:											

LOT 98				TAG 158			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514	12-216	19.0	3.4	99.6	6.5	9.2	0.2	0.4	16.9	16.7	137
NOTES:											

LOT 99				TAG 154							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514	SYN	18.1	2.7	99.9	4.8	6.7	0.6	1.5	15.0	16.9	138
NOTES:											

LOT 100				TAG 404			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227		17.2	2.9	99.9	5.3	7.7	-0.2	-0.1	17.8	17.0	141
NOTES:											

LOT 101				TAG 337			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	13-579	17.4	2.5	99.9	2.1	3.0	0.3	1.1	17.5	17.3	138
NOTES:											

LOT 102				TAG 786			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150317	SYN	18.0	2.5	99.9	2.5	4.9	0.4	0.4	12.8		142
NOTES:											

LOT 103				TAG 678			TWIN HALF POLL				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160329	BD1200	17.0	2.6	99.9	5.2	7.2	0.2	1.8	15.2	14.7	144
NOTES:											

LOT 104				TAG 738			TRIPLET				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	8-13	19.2	3.2	99.9	4.0	6.2	1.3	2.8	11.3	14.6	135
NOTES:											

LOT 105				TAG 398							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160227	13-579	16.2	2.7	99.9	4.9	6.9	0.5	1.2	11.6	15.0	145
NOTES:											

LOT 106				TAG 200			TWIN				
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
WP1514	SYN	18.2	2.7	99.9	3.2	5.4	0.2	-0.5	13.2	14.2	126
NOTES:											

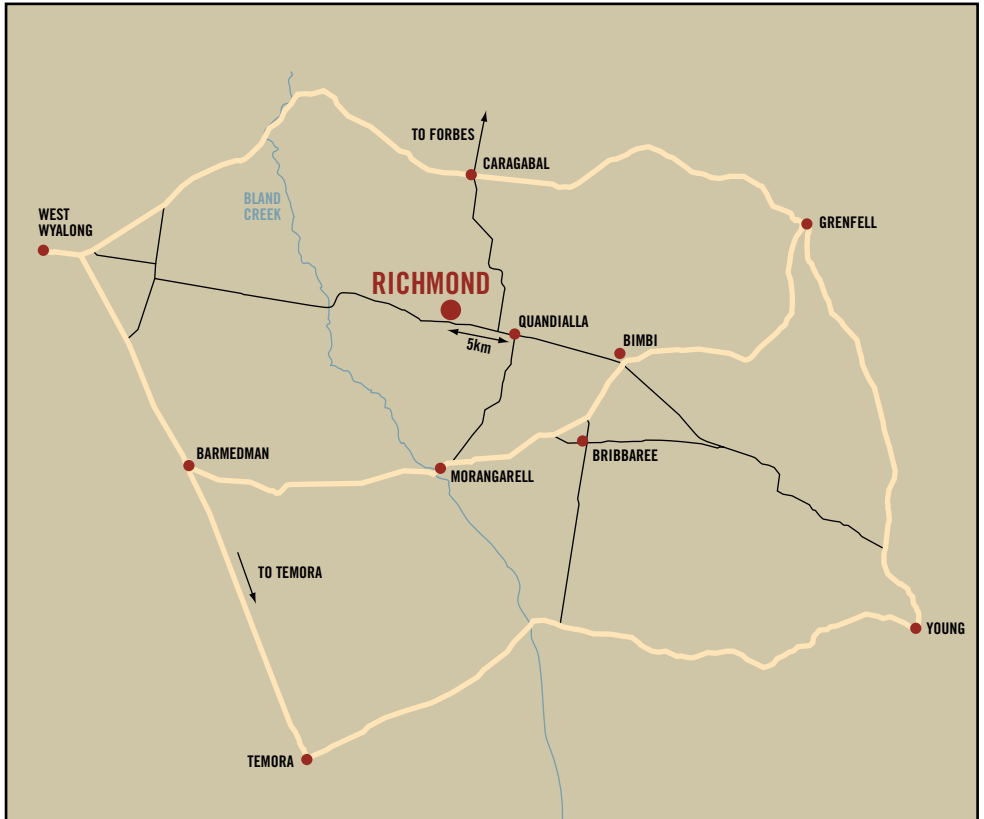
LOT 107				TAG 280							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111		16.4	3.2	99.9	4.2	6.3	0.3	1.3	8.5	14.5	136
NOTES:											

LOT 108				TAG 566							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
GW-27		17.2	2.6	99.9	4.5	6.4	-0.6	-0.4	12.3	14.5	132
NOTES:											

LOT 109				TAG 309							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
160111		18.1	3.0	99.8	5.0	8.5	1.0	1.5	14.4	15.3	147
NOTES:											

LOT 110				TAG 768							
SIRE	DAMS SIRE	MIC	SD	CF%	PWT	YWT	YFAT	YEMD	YCFW	YSL	DP+
150182	SYN	18.9	2.8	99.8	4.3	6.6	0.8	1.9	11.4	17.3	136
NOTES:											





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