

# PETALI

poll merinos  
white suffolks



**70 Poll Merino Rams**  
**70 White Suffolk Rams**



24th On Property Ram Sale  
**Thurs 7 February 2019**



at "Petali", Walcha NSW  
[www.petali.com.au](http://www.petali.com.au)





Martin Oppenheimer holding the 2018 top price Poll Merino 160481 (\$6,500) buyer  
Brendan Ostini, Ravecchia Poll Merinos, Orange NSW & Tom Henry, Elders



Wool of above top price Poll Merino 160481, 75mm at 5.5 month's growth



Poll Merino Flock 60 1279  
White Suffolk Flock 23 0753

Martin & Cheryl Oppenheimer  
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www.petali.com

## 24th On Property Sale

**Thursday 7th February 2019**

**at Petali Woolshed, Walcha NSW**

***Inspection from 9am***

**70 White Suffolk Rams**

***Auction starts at 11am***

**70 Poll Merino Rams**

***Auction starts at 1pm***

- *Complimentary Lamb BBQ Lunch prepared by the Walcha Hospital Auxiliary*
- *2% Rebate to outside agents*
- *Ram Transport available*
- *Guest Auctioneer Paul Dooley*
- *Interfaced with  AuctionsPlus™*



### **White Suffolks (at 11am)**

Landmark Boultons Walcha  
02 6777 2044  
Miles Archdale 0428 660 326  
Simon Newton 0467 660 320



### **Poll Merinos (at 1pm)**

Elders Walcha  
02 6777 2011  
Tom Henry 0409 659 877  
John Newsome 0428 669 498



## Welcome to Petali

**Martin Oppenheimer, Principal**

Welcome to the 24th Petali  
On Property Ram sale

We are pleased to present our latest genetics for your inspection and want to discuss some of the current industry trends & news in the Petali sheep studs.

### RESILIENCE DURING DROUGHT

Deficits in rainfall have made life extremely difficult for most involved in Agriculture in the past 2 years. There is little doubt that we need RESILIENCE to keep going. This includes farming systems, livestock & people.

**Resilient pasture production** from our grazing system at Petali is based on Technograz technology. **Rest is the key** with 60 days & sometimes 90 days between grazing pasture. Small mobs (average 300 sheep or 30 cattle) run at high stock density on 1.25 Ha moving every 2.3 days means that pasture is grazed for only 12-15 days per year.

*That is 350 days rest per year!* Deep rooted perennial grasses & herbs love this system.

**Resilient sheep** have more muscle, fat, early growth, worm & fly resistance. They are productive & efficient animals suited to their environment.

**Resilient people** are confident about the future because they take control of their destiny.

### WELCOME DR MARK FERGUSON

We are fortunate to have engaged Dr Mark Ferguson of NeXtgen Agri as our sheep breeding Consultant. Mark is well known as the co-developer of the successful 'Bred Well Fed Well' extension program & formerly Research Manager of NZ Merino for the past 6 years. He has a client list of top performing merino studs across Australia & NZ, at the cutting edge of breeding balanced modern sheep, fit for their environment. Watch this space.

### MORE RAM LAMBS

For many years we have used only White Suffolk ram weaners (7 months) to mate the Petali commercial merino flock of 1600-2000 ewes. These then become the White Suffolk sale rams (15 months) offered at our on-property auction.

Now we are doing the same with the Poll Merinos. Mating only ram weaners with the Petali commercial merino flock of 2200-2600 ewes. Similarly, these then become the Poll Merino sale rams (15 months) offered at our on-property auction.

### PETALI POLL 150697 PERFORMS WELL IN SIRE EVALUATION

This outstanding sire was the top priced ram at our 2017 on-property ram sale, sold to David Gowing of Tamworth for \$7,000. We entered him into the New England Sire Evaluation in 2017, which is also an MLP site.

150697 is performing well & has been chosen as a 'Link' Sire for the national AMSEA sire evaluations across Australia in 2019. He is a son of Anderson 79, bred by a Leahcim 154 daughter.

### 8 MONTH SHEARING UPDATE

After completing 3 shearings in 2 years, we have settled on simple & low cost clip preparation & direct sales. Demand for our non mulesed 65-75mm merino wool with 8 months growth is excellent, especially with higher staple strength of 50-60 N/KT. Low VM levels of 0.3 or less help also.

Stain & Dag have been minimal, reducing crutching & chemical treatments. It is clear that the sheep maintain better condition scores with more frequent shearing. Despite the drought, 2018/19 looks like a record year for our wool production.

### BENCHMARKING UPDATE

We enter data into Merinoselect & Lambplan & it ranks our sheep nationally with all the sheep on the Sheep Genetics databases. We also enter sires in Merino Sire Evaluation for better linkage to improve accuracy of our data & benchmark our genetic progress. Our farm business data is also benchmarked with other grazing businesses, through Newsome Ag & Agripath. Group results are below:

### GROSS MARGINS 2017/18

	<b>\$/DSE</b>
<b>Sheep - Fibre (Average)</b>	<b>\$34</b>
(Top 20%)	\$54
<b>Sheep - Lamb (Average)</b>	<b>\$31</b>
(Top 20%)	\$73
<b>Cattle - Breeding (Average)</b>	<b>\$22</b>
(Top 20%)	\$42
<b>Cattle - Trading (Average)</b>	<b>\$15</b>
(Top 20%)	\$55

**Again the key take home messages from the enterprise benchmarking are:**

***The best performing Sheep-Lamb flocks have significant wool sales.***

***The best performing Sheep-Fibre flocks have significant sheep & lamb sales.***

### EATING QUALITY EQ - flavour, juiciness, tenderness

Eating Quality is one of the new mega-trends in the red meat industry and lamb is well positioned to take advantage. Lamb has had a good reputation for EQ in recent years.

**Intramuscular Fat (IMF) & Shear Force (SF5)** are key traits that will deliver EQ.

**IMF** is a measure of the fat % in the loin muscle of a lamb and is often referred to as marbling. IMF has been shown to have a significant impact on the flavour, juiciness, tenderness and overall likeability of lamb meals. Rams with more positive IMF ASBVs produce lambs with higher IMF.

**SF5** is a measure of the force or energy required to cut through the loin muscle of lamb after 5 days of ageing. The SF5 ASBV is reported in deviations of kilograms of force. Rams with more negative SF5 ASBVs produce lambs with more tender meat.

White Suffolks and Merinos can have good IMF & SF5 ASBVs, but as always, selection is critical. We know that Growth & Muscle are the big traits for \$ returns, but EQ is a must watch.

**All the best for 2019 and thank you for your support.**

## Petali White Suffolks

Flock 23 0753

**OJD Monitored Negative MN3  
Accredited Brucellosis Free  
Footrot Free declared**

**LAMBPLAN registered  
Full pedigrees & performance  
recorded**

**220 Stud Mature Ewes  
160 Stud Ewe Lambs**



Tagging new lambs & recording birth weight

### Aims

To breed White Suffolk rams suited to be mated with merino, crossbred, composite & maternal ewes for easy lambing, early growth & high value prime lamb production.

### Main Selection Traits

- Low Birth Weight
- High Lambing Ease
- Moderate Fat
- Early Growth
- High Muscle
- Worm Resistance & Resilience
- High IMF
- Low Shear Force

The August born ram lambs are mated with Petali merino flock ewes from March to April. We offer these rams for sale as one year olds.

Stud ewes are mated to White Suffolk sires at 6 months to lamb as one year olds.



## Annual program for Petali White Suffolks 2019

<b>January</b>	Genomic TSU sample top 100+ ram lambs
<b>February</b>	<b>On-Property Ram Sale: White Suffolks at 11am</b> first Thursday in February  Measure weaners Body Weight, scan Eye Muscle & Fat Measure weaners individual Worm Egg Count & drench
<b>March</b>	Classing/selection & mating allocation (Matesel) Stud AI & Natural mating begins Ram lambs mate flock merino CFA sale ewes
<b>April</b>	Shear merino ewes first week (8 month shearing) WS ram lambs mate flock merino ewes Natural mate ewe lambs
<b>May</b>	Ultra-sound Preg Scan CFA sale flock merino ewes & sell Ultra-sound Preg Scan stud ewes
<b>August</b>	Mature Stud ewes lambing Mothering up at birth, birth weights & lambing ease recorded, tagging, any faults noted
<b>September</b>	Stud lamb marking, 6 in 1 vaccine, scabi-guard Yearling ewes lambing
<b>December</b>	Shear merino ewes (8 month shearing) Weaning, 6 in 1 vaccine, drench, shear all WS ewes & rams Backline sale rams. Measure Body Weight

# LAMBPLAN

Analysis: **TERMINAL**, 15 August 2018



Sires			BWT	WWT	PWWT	PFAT	PEMD	NLW	PSC
Animal ID	Inbreeding	Prog:Flks	kg	kg	kg	mm	mm	%	cm
230001-2015-150097	3.1%	352:12	0.53	11.8	18.3	0.0	2.2	5	4.3
ELLA MATTA			95	96	96	96	96	50	84
230002-2013-130572	2.9%	876:15#	0.51	11.1	17.4	0.4	3.0	7	5.6
LANGLEY HEIGHTS			97	98	98	97	98	50	89
230048-2015-150860	6.5%	158:3	0.18	9.4	16.7	-0.3	0.6	8	4.5
FELIX			91	93	93	93	94	44	77
230139-2014-140144	2.1%	123:2	0.16	8.2	13.2	-0.3	2.6	-1	3.8
FARRER			85	87	89	88	89	40	74
230139-2014-140188	5.9%	1480:34#	0.17	11.3	18.0	-0.3	1.7	12	5.2
FARRER			98	98	98	98	98	58	93
230139-2015-150096	4.4%	681:22	0.38	12.0	18.5	-1.1	2.2	8	4.4
FARRER			96	97	97	97	97	44	88
230139-2015-150194	5.3%	173:7	0.04	9.8	16.0	-0.1	2.2	-1	3.7
FARRER			92	93	94	93	94	39	86

PFEC	Lambease	LEQ	EQ	Carcase+	Trade\$	Sire
%	Direct					Dam
-62	-2.7	169.7	164.3	215.9	115.0	230099-2013-130269
91	71	72	71	96		230001-2013-130179
-54	-4.8	158.7	154.2	219.7	114.4	230002-2011-110587
91	73	84	84	97		230002-2010-100435
-57	0.6	141.8	136.6	188.0	112.1	230048-2014-140227
88	64	68	67	93		230048-2012-120493
-70	-2.5	138.8	132.8	195.5	111.7	230318-2011-110138
86	59	63	62	88		230139-2012-120108
-28	-0.6	139.7	137.2	209.4	114.2	230139-2013-130254
95	85	87	87	98		230139-2012-120140
-64	2.0	153.2	147.7	222.7	111.1	230007-2011-110210
93	76	79	78	97		230139-2013-130037
-23	3.3	150.0	147.8	204.3	113.4	230139-2014-140019
90	66	67	65	93		230139-2013-130120

Sires / Page 1

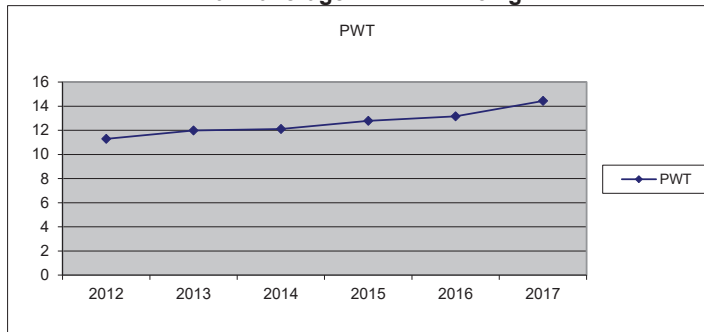
▣ indicates Genotype Usage

17-Aug-2018

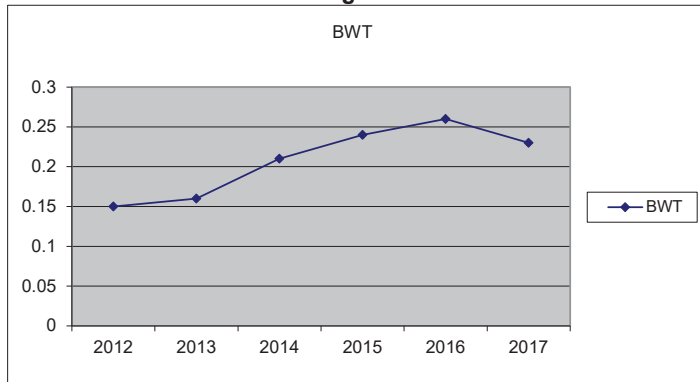
Breed 23 Flock 0753 Years 2017 to 2018

## Petali White Suffolk Genetic Trends

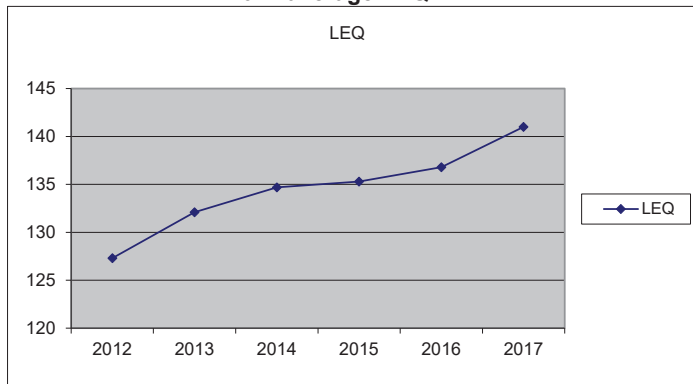
### MORE EARLY GROWTH 2017 average PWT + 14.43 kg



### LOW BIRTH WEIGHT 2017 average BWT + 0.23



### BETTER EATING QUALITY 2017 average LEQ = 141



## Australian Sheep Breeding Values Definitions



### GROWTH

#### **BWT – BIRTH WEIGHT (kg)**

Estimates the genetic difference between animals in live weight at birth.

#### **WWT – WEANING WEIGHT (kg)**

Estimates the genetic difference in body weight at weaning or 100 days of age.

#### **PWT – POST WEANING WEIGHT (kg) or EARLY GROWTH**

Estimates the genetic difference in body weight at 225 days of age.

### CARCASE

#### **PEMD – Post Weaning Eye MUSCLE Depth (mm)**

Estimates the genetic difference in eye muscle depth at 45kg live weight.

#### **PFAT - Post Weaning FAT (mm)**

Estimates the genetic difference in fat depth at 45kg live weight.

### WELFARE

#### **PWEC – Post Weaning WORM EGG COUNT (%)**

Estimates the genetic difference in worm burden at 225 days of age, expressed as a % relative to a mob average count of 500 epg.

PWEC ASBV's describe the value of an animals genes for carrying worm burdens - a combination of being genetically less likely to pick up & host worms (resistant) and being able to cope immunologically with worm burdens (resilient).

### REPRODUCTION

#### **NLW – NUMBER OF LAMBS WEANED %**

Estimates the genetic difference in number of lambs weaned compared to average.

### LEQ

#### **LEQ – Lamb 2020 EATING QUALITY Index**

Developed to suit terminal producers targeting improved eating quality in their prime lambs while continuing to improve production traits in a balanced way. The LEQ index is similar to the EQ index however is based on the same production targets as Lamb 2020 where birthweight (BWT) & worm egg count (WEC) are important in the breeding objective.

TRAIT	10 year Change
BWT	0.07
PWT	2.6
PFAT	0.33
PEMD	1.17
PWEC	-36
SF5 (Shear Force)	-2.06
IMF (Intramuscular Fat)	0.1

If more information is required please ask or look up more ASBV's on the Lambplan website [www.sheepgenetics.org.au/LAMBPLAN](http://www.sheepgenetics.org.au/LAMBPLAN)

Information in this catalogue is from the Lambplan run dated 15 Dec 2018.

*Pen cards on sale day may contain more recent information.*

**PETALI WHITE SUFFOLK AUCTION**

Thursday 7 Feb at 11am

Lot	TAG	SIRE	Born	BWT	WWT	PWT	PEMD	PFAT
1	170184	F188	1	0.2	10.5	16.6	2.2	-0.1
2	170044	F194	1	0.19	9.6	15.6	1.2	-0.8
3	170199	F188	2	0.24	9.9	15.7	2.6	-0.2
4	170211	F96	1	0.45	11.3	17.2	1.2	-1.6
5	170074	LA572	2	0.46	11.3	17.7	2.7	-0.4
6	170294	F144	1	0.29	9	14.3	2	-0.5
7	170135	F188	2	0.3	9.9	16	1.6	-0.1
8	170248	F96	1	0.39	10.9	16.2	2.1	-0.8
9	170218	LA572	1	0.39	9.9	15.1	2.1	0
10	170258	FX860	2	0.53	12.3	19.7	2	-0.7
11	170021	F194	2	0.07	8.6	14.1	2.8	0
12	170282	F144	2	0.32	8.9	14	1.9	-0.5
13	170281	F144	2	0.32	9.1	14.8	2	-0.2
14	170156	F188	2	0.22	9.8	16	1.3	-0.4
15	170274	F144	2	0.36	8.9	14.1	1.6	-0.8
16	170110	F96	1	0.18	9.5	14.7	2.2	-0.7
17	170152	F188	2	0.06	8.5	14.2	1.7	0
18	170149	F188	2	0.21	9.8	15.6	0.8	-0.8
19	170133	F96	3	0.3	10.6	16.5	1.8	-0.3
20	170026	F188	2	0.16	9.6	15.9	2	-0.4
<b>PETALI 2017 AVE</b>				<b>0.23</b>	<b>9</b>	<b>14.4</b>	<b>1.9</b>	<b>-0.3</b>
<b>TERMINALS AVE</b>				<b>0.31</b>	<b>9.1</b>	<b>14.3</b>	<b>1.5</b>	<b>-0.4</b>

PWEC	NLW	IMF	SF5	LEQ	Buyer & Price
-49	5%	-0.5	3	141	
-39	1%	-0.3	1.2	141	
-54	3%	-0.4	2.3	146	
-51	6%	-0.6	4.7	143	
-67	9%	-0.7	1.7	152	
-64	0%	-0.5	1.3	139	
-33	5%	-0.3	2.1	138	
-58	4%	-0.4	3.3	148	
-59	10%	-0.3	0.5	144	
-59	6%	-0.6	2.7	152	
-22	0%	-0.3	0	144	
-50	1%	-0.5	1.3	137	
-55	1%	-0.5	1	139	
-21	4%	-0.3	2.1	139	
-50	1%	-0.6	1.5	136	
-55	5%	-0.3	3	144	
-47	3%	-0.2	1.5	137	
-42	5%	-0.3	2.7	135	
-48	7%	-0.3	3.2	143	
-31	4%	-0.6	2.9	137	
				<b>141</b>	
				<b>133</b>	

**PETALI WHITE SUFFOLK AUCTION**

**Thursday 7 Feb at 11am**

Lot	TAG	SIRE	Born	BWT	WWT	PWT	PEMD	PFAT
21	170086	F188	1	0.12	9.4	14.9	1.7	-0.4
22	170024	F96	2	0.38	11.6	17.3	1.7	-1
23	170134	F188	2	0.13	9	14.8	2	0.2
24	170141	F188	2	0.21	10	16	2	-0.2
25	170136	F188	2	0.22	10.5	16.8	2.1	0
26	170261	F144	2	0.21	8.6	13.8	2.4	-0.4
27	170256	F144	1	0.23	9.6	15.4	3.1	-0.2
28	170142	F188	2	0.25	10.4	16.6	1.9	-0.4
29	170267	F144	2	0.19	7.9	12.4	2.4	0.4
30	170106	F96	1	0.3	10.1	15.2	1.4	-1
31	170244	F96	2	0.52	11.9	18.1	0.9	-1.3
32	170049	F188	2	0.11	9.3	14.9	2.4	0
33	170176	LA572	2	0.31	9.2	14.8	2.7	0
34	170174	EM97	2	0.35	9.6	14.8	1.7	-0.1
35	170172	F188	2	0.21	9.9	16.2	1.9	-0.2
36	170245	LA572	1	0.32	8.7	14	2.9	0.2
37	170012	F194	2	0.11	9.1	14.8	2	0
38	170237	FX860	1	0.22	8.8	14.5	2	0
39	170079	LA572	2	0.32	9.5	15.4	2.6	-0.1
40	170117	F194	2	0.19	9.4	15.2	1.3	-0.1
<b>PETALI 2017 AVE</b>				<b>0.23</b>	<b>9</b>	<b>14.4</b>	<b>1.9</b>	<b>-0.3</b>
<b>TERMINALS AVE</b>				<b>0.31</b>	<b>9.1</b>	<b>14.3</b>	<b>1.5</b>	<b>-0.4</b>

PWEC	NLW	IMF	SF5	LEQ	Buyer & Price
-28	4%	-0.4	2.6	137	
-64	6%	-0.5	4.4	145	
-32	5%	-0.2	1.6	137	
-53	4%	-0.6	2.9	139	
-28	4%	-0.6	3.4	137	
-57	1%	-0.6	1.1	139	
-59	1%	-0.7	1.5	144	
-53	4%	-0.6	3.2	140	
-61	0%	-0.5	0.5	135	
-47	4%	-0.3	3.4	140	
-55	5%	-0.6	4.8	141	
-40	4%	-0.3	2.1	141	
-34	9%	-0.3	-0.1	147	
-43	2%	-0	-1.8	149	
-35	6%	-0.4	2.2	141	
-37	9%	-0.2	-0.5	146	
-53	0%	-0.2	0.3	143	
-60	5%	-0.4	1	140	
-70	9%	-0.4	1.2	149	
-25	1%	-0.2	0.8	136	
					<b>141</b>
					<b>133</b>



**PETALI WHITE SUFFOLK AUCTION**

**Thursday 7 Feb at 11am**

Lot	TAG	SIRE	Born	BWT	WWT	PWT	PEMD	PFAT
41	170262	F144	2	0.24	8.2	12.8	1.8	-0.4
42	170239	LA572	1	0.36	9.5	14.7	2.4	-0.1
43	170027	F188	2	0.17	9.1	14.7	2	-0.5
44	170213	LA572	1	0.25	8.1	12.5	2.3	0.5
45	170240	F96	1	0.44	11	16.1	1.5	-0.9
46	170077	EM97	2	0.31	9.2	14.6	2.2	0.5
47	170058	LA572	2	0.28	8.8	13.7	2.5	0.2
48	170216	EM97	2	0.6	11.2	16.9	1.8	-0.2
49	170362	F144	1	0.21	8.5	14.1	3.3	0
50	170018	F96	2	0.33	10.7	16.2	1.5	-0.8
51	170067	F194	2	0.27	9.9	15.9	2.1	-0.3
52	170130	F194	2	0.17	9.4	15.3	1.8	-0.7
53	170276	F144	2	0.17	7.7	12.6	2.4	0.4
54	170005	EM97	1	0.32	9.5	15	1.2	-0.2
55	170019	F96	2	0.2	9.2	14.1	1.1	-0.8
56	170114	F96	2	0.25	10.7	16.7	2.9	-0.3
57	170035	F188	2	0.07	8.5	13.8	2.6	0.4
58	170369	F144	1	0.36	10.2	15.8	2	-1
59	170169	F194	2	0.02	7.8	13.1	3.6	0.5
60	170323	F144	1	0.06	7.4	12.3	2.8	0.4
<b>PETALI 2017 AVE</b>				<b>0.23</b>	<b>9</b>	<b>14.4</b>	<b>1.9</b>	<b>-0.3</b>
<b>TERMINALS AVE</b>				<b>0.31</b>	<b>9.1</b>	<b>14.3</b>	<b>1.5</b>	<b>-0.4</b>

PWEC	NLW	IMF	SF5	LEQ	Buyer & Price
-55	1%	-0.5	1	134	
-78	10%	-0.3	0.5	147	
-27	4%	-0.6	2.7	135	
-35	9%	-0.1	0	138	
-43	5%	-0.4	4.4	141	
-67	4%	0.21	-2.8	154	
-26	9%	-0.1	-0.2	143	
-48	4%	0.02	-1.2	155	
-41	1%	-0.6	0.3	143	
-43	5%	-0.3	3.5	142	
-17	2%	-0.4	1.3	142	
-42	1%	-0.4	1	143	
-64	0%	-0.4	-0.4	136	
-57	2%	0.17	-1.8	150	
-51	5%	-0.2	2.9	137	
-41	7%	-0.5	3.5	147	
-47	3%	-0.2	1	140	
-39	2%	-0.8	2.5	139	
-22	0%	-0.2	-0.9	145	
-69	0%	-0.3	-0.7	140	
					<b>141</b>
					<b>133</b>

**PETALI WHITE SUFFOLK AUCTION**

**Thursday 7 Feb at 11am**

Lot	TAG	SIRE	Born	BWT	WWT	PWT	PEMD	PFAT
61	170155	F188	2	0.13	8.7	14.6	2	0.1
62	170040	FX860	3	0.16	8.5	14.1	0.4	-0.2
63	170145	LA572	2	0.29	9.1	14.7	2.4	0.1
64	170088	F96	2	0.38	10.2	15.2	1.3	-1.3
65	170377	FX860	2	0.25	9.2	16.3	1.6	-0.5
66	170217	EM97	2	0.46	10.2	15.7	2	0.1
67	170183	FX860	2	0.21	8.6	14.5	2.1	0.3
68	170003	F96	3	0.23	9.3	14.3	2.6	0.1
69	170344	FX860	2	0.19	9.3	15.5	2.1	0.2
70	170002	F96	3	0.21	9.7	15	3.5	0.5
<b>PETALI 2017 AVE</b>				<b>0.23</b>	<b>9</b>	<b>14.4</b>	<b>1.9</b>	<b>-0.3</b>
<b>TERMINALS AVE</b>				<b>0.31</b>	<b>9.1</b>	<b>14.3</b>	<b>1.5</b>	<b>-0.4</b>

PWEC	NLW	IMF	SF5	LEQ	Buyer & Price
-19	5%	-0.4	2	134	
-60	4%	-0.1	0.8	132	
-38	10%	-0.3	0.8	143	
-27	5%	-0.6	4	136	
-49	5%	-0.3	0.5	145	
-32	4%	0.11	-2	153	
-50	5%	-0.3	0.4	140	
-51	6%	-0.2	2	143	
-54	4%	-0.2	0.5	145	
-52	6%	-0.2	1.8	148	
					141
					133

*Thanks for attending the Petali Ram Sale.  
Please enjoy the complimentary Lamb BBQ Lunch  
prepared by the Walcha Hospital Auxiliary.*

## Petali Poll Merinos

Flock 60 1279

**OJD Monitored Negative MN3  
Accredited Brucellosis Free  
Footrot Free declared**

**MERINOSELECT registered  
Full pedigree & performance  
recorded**

**650 Poll Merino Ewes  
Average micron: 17.2 (Adult)  
15.2 (Hogget)**



Mothering up & tagging lambs

**Aims:** To breed balanced plain bodied Poll Merino genetics that produce heavy fleece weights of elite fibre plus high weaning rates of lambs with early growth at low cost of production. They do not require mulesing.

### **Main Selection Traits:**

- Weather proof white crimped wool
- High fleece weights
- High weaning rates
- Less breech wrinkle & dag
- More early growth
- More genetic fat
- More genetic muscle
- Better Worm Resistance & Resilience

**Benefits:** Profitable enterprise, Cash flow positive with more wool & lamb sales, can be shorn with 6, 8 or 12 months growth  
Naturally polled sheep for safer handling & mechanical sheep handlers/drafters  
Sheep with early growth require less feed, water & management  
Less chemical treatments used  
No mulesing required

**History:** Petali Merino Stud was established in 1966 (by Martin's parents Herbert & Jillian) with one third of the Mirani Stud (est. 1932 by Martin's grandfather AS Nivison), descendants from the Ohio flock (est. 1868 by Martin's great-great grandfather Abraham Nivison). Originally Tasmanian blood, introductions since have been from productive fine/medium bloodlines.

**Sheep Classers & Selection:** During the 1980's objective measurement using raw data was used in selection. Classers/Consultants: 1991-1997 Dr Jim Watts, 1996-2001 Dr Paul Swan, 2001-2013 Mr Rob Russell, 2018- Dr Mark Ferguson.

Genetic progress since 1991 has been significant and resulted in Petali being a leading productive fine merino flock. Accelerated genetic gain since 2001 has been a result of the adoption of Australian Sheep Breeding Values (ASBV) technology and involvement in MLA's Merino Validation Project from 2002-2005.  
Now Genomic testing is aiding early selection & use of ram lambs, older sires are not required. Matesel is used to optimise genetic gains & minimise co-ancestry.

**Poll Merinos:** Commenced in 1997, with the original merino stud 503054 now discontinued and all sheep since 2007 have been registered under Petali Poll Merino flock number 601279.

## Annual program for Petali Poll Merinos 2019

<b>January</b>	Wean lambs: measure stud lambs body weight, 6 in 1 vaccine B12, drench, draft ram & ewe lambs Genomic TSU sample top 100+ ram lambs
<b>February</b>	<b>On Property Ram Sale: Poll Merinos at 1pm</b> first Thursday in February
<b>March</b>	First classing for stud weaners Record adult ewe body weights & condition scores, classing, sire selection & mating allocation Score all stud merino weaners for dag Measure weaners individual Worm Egg Count & drench
<b>April</b>	AI & Natural Mating begins 5 weeks
<b>May</b>	Weaners Post Weaning Body Weight
<b>July</b>	Ultrasound pregnancy scanning, twin ewes drafted & given preferential treatment
<b>August</b>	Mid-side fleece sample stud weaners Shearing rams, measure fleece weights, record Wool Bin Drench, 6 in 1 vaccine, backline sale rams
<b>Sept/October</b>	Lambing Mothering up, tagging; any faults noted Measure stud merino yearlings for Body Weight, scan Eye Muscle & Fat Depth
<b>November</b>	Lamb marking, 6 in 1 vaccine, scabi-guard Score stud lambs for Breech Wrinkle & Breech Cover
<b>December</b>	Classing for Reserves, Auction & Grades, inspect feet & prepare for sale Jet rams on head

# MERINOSELECT

# PETALI POLL

Analysis: MERINO , 7 November 2018



Sires	InBreeding	Ycfw	Yfd	Yfdcv	Yss	Ycurv	Ysl	Ywt	Yfat	Yemd	NLW
Animal ID	Prog:Fkls	%	u	%	Nktx	deg/mm	mm	kg	mm	mm	%
503298-2015-150115	219:3	20	-1.8	-0.4	-2.2	-4.9	8.0	6.6	0.1	-0.2	2
NERSTANE	Acc.: 95	97	95	71	95	95	94	77	86	27	
600815-2015-152775	0.2% 829:10	21	-1.1	-1.7	0.1	-11.7	8.6	10.4	0.8	0.4	6
LEAHCIM POLL	Acc.: 96	98	97	92	97	97	96	92	95	43	
600815-2015-153234	215:3	22	-0.7	-1.6	-0.8	-15.3	14.5	7.1	0.9	1.2	2
LEAHCIM POLL	Acc.: 95	97	96	88	97	96	91	82	89	43	
601082-2015-151071	202:5	26	-0.7	-1.1	-0.2	-7.4	10.4	6.3	0.8	0.8	1
TOLAND POLL	Acc.: 94	96	94	88	96	95	95	82	90	31	
601279-2013-130322	0.1% 204:1	7	-2.3	-1.9	-1.0	1.3	0.4	6.1	0.8	-0.1	4
PETALI POLL	Acc.: 96	97	96	81	97	93	93	82	91	48	
601279-2014-140241	18:1	13	-1.9	-0.9	2.2	-9.5	2.3	-1.8	-0.5	-1.6	1
PETALI POLL	Acc.: 83	89	84	69	87	83	83	70	76	43	
601279-2014-140297	149:1	8	-2.1	-0.8	-2.2	10.1	-0.1	3.6	0.3	-0.6	-7
PETALI POLL	Acc.: 95	97	95	77	96	95	94	81	90	43	
601279-2014-140412	113:1	9	-2.3	-1.4	0.2	-2.4	3.6	2.3	-0.1	-0.4	1
PETALI POLL	Acc.: 93	96	94	74	95	93	93	79	88	45	
601279-2014-140577	22:1	0	-1.8	-2.3	2.8	3.8	-1.6	5.4	1.4	1.4	3
PETALI POLL	Acc.: 85	90	85	69	88	81	85	73	80	41	
601279-2015-150475	95:1	10	-0.3	-1.8	-0.3	-9.8	10.6	9.5	1.0	0.5	6
PETALI POLL	Acc.: 93	96	93	73	95	94	92	77	85	36	
601279-2015-150697	137:2	30	-0.8	-1.9	5.8	-6.7	14.7	6.9	0.3	0.2	7
PETALI POLL	Acc.: 93	95	93	89	94	93	95	77	83	50	
601365-2015-150185	159:2	20	0.9	-1.1	3.3	-12.5	14.4	4.9	0.3	0.0	8
KARBULLAH	Acc.: 88	92	88	71	91	89	88	74	80	51	
601413-2012-120425	1122:6	26	-0.7	-1.5	4.0	-9.7	14.9	7.7	0.3	-0.6	
KERIN POLL	Acc.: 95	96	94	86	94	93	98	96	97		
609147-2012-120282	0.2% 810:8	23	-0.5	-0.4	-3.8	-5.7	19.1	8.9	1.2	2.1	-1
ANDERSON	Acc.: 96	97	97	88	97	97	98	94	95	56	

Ywec	Ebwr	Sire
%	Score	Sire of Sire
7	-0.01	AR 158 160 147
72	95	43 50 56
24	-0.63	AR 167 161 142
67	94	55 61 67
36	-0.78	AR 154 149 130
62	88	53 60 64
-61	-0.39	AR 159 156 145
76	96	49 57 68
-33	-0.56	AR 140 142 141
81	96	57 62 67
-30	-0.43	AR 128 147 151
61	84	50 53 56
-81	-0.51	AR 112 126 134
78	96	53 59 64
-30	-0.24	AR 138 146 150
74	94	54 59 62
19	-0.48	AR 140 134 131
66	86	49 53 56
-28	-0.67	AR 150 139 129
71	94	48 54 59
-59	0.09	AR 178 178 162
79	96	58 64 69
-35	-0.76	AR 141 134 117
70	90	56 60 61
4	-0.16	AR 157 165 150
62	91	40 50 60
-88	-0.51	AR 152 137 128
87	98	64 68 73

Sires / Page 1

SHEEP GENETICS

11-Nov-2018

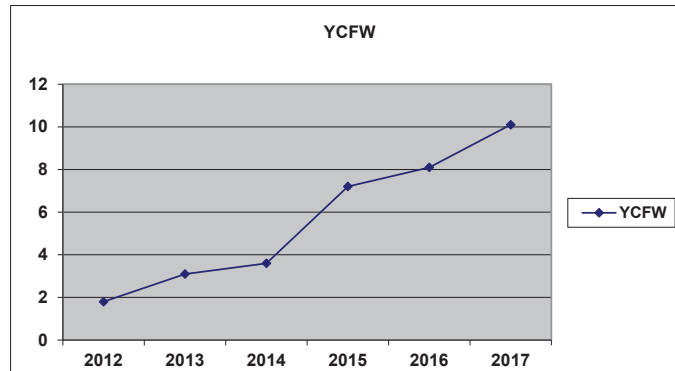
indicates use: \* Merino Superior Sires # Information Nucleus ■ Genotype Used



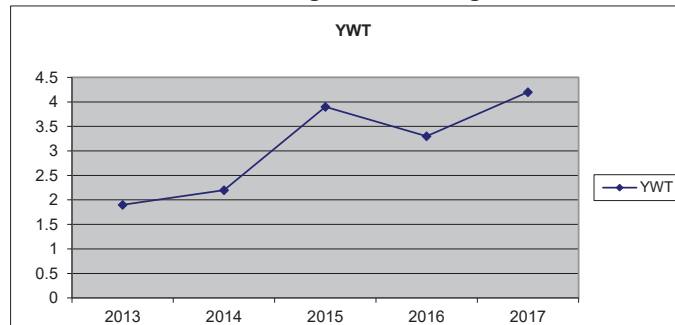
Breed 60 Flock 1279 Years 2017 to 2018

## Petali Poll Merino Genetic Trends

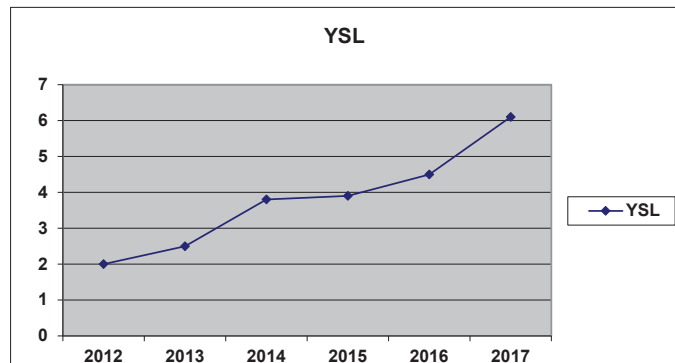
**MORE FLEECE WEIGHT**  
2017 average YCFW + 10.1%



**MORE GROWTH**  
2017 average YWT + 4.2 kg



**MORE STAPLE LENGTH**  
2017 average YSL + 6.1 mm



## Australian Sheep Breeding Values Definitions



### **GROWTH & FERTILITY**

#### **YWT – Yearling Body WEIGHT (kg) or GROWTH**

Rams with higher YWT ASBVs produce progeny that grow faster & are heavier at yearling weight.

#### **YFAT – Yearling FAT Depth (mm)**

Rams with more positive FAT ASBVs produce progeny that are fatter.

**Fat is positively associated with higher reproduction rates, greater lamb & weaner survival. Ewes also lose less weight when nutrition is restricted.**

#### **YEMD – Yearling Eye MUSCLE Depth (mm)**

Rams with more positive EMD ASBVs will produce progeny that have more muscle, independent of weight, plus higher lean meat yields.

**Muscle is positively associated with worm resistance, higher staple strength, higher body condition & more twins.**

### **FIBRE**

#### **YCFW – Yearling Clean FLEECE WEIGHT (%)**

Rams with higher YCFW ASBVs produce progeny that will produce more wool fibre.

#### **YFD – Yearling FIBRE DIAMETER (um)**

Rams with more negative YFD ASBVs produce progeny which produce a lower fibre diameter wool fibre.

#### **YSL – Yearling STAPLE LENGTH (mm)**

Rams with more positive YSL ASBVs produce progeny that will produce longer wool fibres.

#### **YSS - Staple Strength (N/Kt)**

Rams with more positive YSS ASBVs produce progeny that have higher N/kt.

### **WELFARE & COST**

#### **PWEC Worm Egg Count (%)** *Note PWEC is used as this is the age when tested.*

Rams with more negative WEC ASBVs produce progeny who have a higher genetic potential to resist worm burdens. WEC ASBV's estimate an animal's genetic ability for carrying worm burdens - a combination of being genetically less likely to pick up & host worms (resistant) & being able to cope immunologically with worm burdens (resilient). WEC ASBVs are expressed as a % relative to a mob count of 500 epg.

#### **EBWR - Early BREECH WRINKLE**

Estimates the breech wrinkle score for animals at lamb marking. **This is an extremely important trait to access NM market segments.**

Other traits are measured or scored at Petali including **Breech Cover & Dag**.

More information can be found on the MerinoSelect website at [www.sheepgenetics.org.au](http://www.sheepgenetics.org.au)

MerinoSelect ASBV's in this catalogue are from the run dated 22 December 2018.

*Pen Cards on sale day may contain more recent information*

PETALI POLL MERINO AUCTION

Thursday 7 Feb at 1pm

LOT	TAG	SIRE	YWT	YEMD	YFAT	YCFW	YFD	YSL
71	171053	N115	5.6	-0.6	0.5	26	-0.9	4.9
72	170609	K25	6	-0.3	0.4	19	-1.6	13.7
73	170638	A282	10.1	1.8	1.4	9	-1.5	8.3
74	170704	K25	9	0.8	0.4	23	-1.2	15.1
75	170630	N115	4.6	0.6	0.3	22	-1	11.5
76	170494	150697	5.2	0.1	0.7	15	-1.6	4
77	170661	T71	8.3	0.3	0.5	21	-0.4	5.1
78	170474	K185	7.1	0	0.3	12	-0.7	5.4
79	170486	N115	6	-1	0.3	16	-1.2	10.7
80	170628	A282	4.9	1.4	0.6	15	-1	11.3
PETALI AVERAGE			4.2	0.1	0.4	10	-1.5	6.1
SUPFINE AVERAGE			2.4	0.1	-0.1	6	-1.5	0

YSS	YWEC	EBWR	EBCOV	DP+	Buyer & Price
1.4	-12	-0.1	0.1	152	
1.2	-13	-0.1	-0.6	148	
-2.1	-61	-0.3	0	143	
2	-36	-0.4	-0.3	168	
-0.2	-22	0.1	0.1	156	
3.3	-46	-0.2	0.4	157	
2.9	-50	0	-0.4	157	
5.5	-32	-0.8	-0.1	142	
-2.1	-28	-0.4	0	131	
-1.6	-62	-0.4	0	143	
0.3	-29			135	
0.3	-17			127	

PETALI POLL MERINO AUCTION

Thursday 7 Feb at 1pm

LOT	TAG	SIRE	YWT	YEMD	YFAT	YCFW	YFD	YSL
81	170442	T71	4.3	-0.1	1	15	-1.7	5
82	170429	L34	7	1	0.8	22	-1.1	13.1
83	170889	T71	4.5	0.8	0.6	16	-0.9	7.3
84	170795	150475	7.7	0.4	0.8	11	-1.4	3
85	170513	N115	2.7	0.8	0.4	7	-2.1	2.6
86	170411	150697	3.5	-0.8	-0.1	21	-1.2	9.7
87	170422	150697	4.2	0.6	0.5	10	-1.1	6
88	170819	140297	8.1	-0.4	0.5	4	-2.6	-2.8
89	170608	T71	1.2	-0.4	0.4	16	-1.3	10.7
90	170457	K185	4.4	0.2	0.3	16	0.8	12.1
91	170541	K185	4.7	0.1	0	19	0	15.7
92	170910	N115	5.8	0.4	0.7	7	-1.6	7.5
93	170715	K185	2.4	-1	0.1	17	-0.6	8
94	170866	150475	6.6	0.5	0.8	5	-1.1	5.5
95	170588	K25	4.8	-0.2	0.8	9	-1.7	9.5
96	170469	T71	1.3	0.6	0.5	19	-1	6.9
97	170602	A282	7.1	1.6	1.1	17	-1.5	12.6
98	170945	N115	2.6	0.2	0.3	9	-1.6	9.5
99	170466	L75	5.8	0.7	0.9	12	-1.5	8.3
100	170424	150475	8.5	-0.5	0.4	14	-0.4	3.7
PETALI AVERAGE			4.2	0.1	0.4	10	-1.5	6.1
SUPFINE AVERAGE			2.4	0.1	-0.1	6	-1.5	0

YSS	YWEC	EBWR	EBCOV	DP+	Buyer & Price
-2.9	-53	-0.6	-0.1	147	
0.2	6	-0.8	-0.2	158	
0.9	-34	-0.4	-0.1	144	
-0.3	-32	0	-0.1	150	
-1.1	-26	0.2	-0.6	139	
4.1	-39	0.3	0.2	144	
5.4	-46	0.1	-0.2	133	
-0.5	-52	-0.5	-0.8	134	
0.1	-50	0.3	-0.1	136	
4.6	-25	-0.3	-0.6	133	
2.8	-23	-0.7	-0.2	139	
-0.2	-1	-0.6	-0.2	135	
-0.3	-48	-0.7	-0.6	134	
-0.6	-46	-0.4	-0.3	131	
1.1	-14	-0.4	-0.5	129	
1.6	-53	-0.2	-0.6	140	
-1.1	-79	-0.3	-0.3	156	
0.1	1	-0.2	0.3	132	
0	-4	-0.2	-0.1	149	
1.7	-36	-0.6	-0.2	144	
0.3	-29			135	
0.3	-17			127	

PETALI POLL MERINO AUCTION

Thursday 7 Feb at 1pm

LOT	TAG	SIRE	YWT	YEMD	YFAT	YCFW	YFD	YSL
101	170403	150475	9.4	0.1	0.8	5	-0.6	7.9
102	170668	150475	8.3	0.2	0.7	10	-1.1	8.8
103	170571	150697	4.4	0	0.4	17	-1.8	7.6
104	170432	N115	6.4	-1.2	-0.5	15	-1.6	2.6
105	170769	L75	6.1	0.6	1	1	-2	1.9
106	170758	150697	5.6	-0.2	0.3	12	-1.7	6.1
107	170770	A282	5.6	1.4	0.8	10	-1.1	13.1
108	171116	150475	7.3	0.2	0.8	16	0.2	14.9
109	170471	T71	0.5	0.2	0.6	9	-1	4.6
110	170538	K185	3.8	0.8	0.5	14	-0.9	6.5
111	170895	150475	6.7	0.3	0.7	11	-0.7	9.3
112	170731	150697	3.7	-0.4	0.1	16	-1.1	9.5
113	170553	L75	7.7	-0.4	0.4	10	-2.3	7.4
114	170586	A282	5.9	0.2	0.5	9	-1.3	6.3
115	170694	L75	4.4	-0.1	0.3	15	-1.3	10.7
116	170501	L75	4.7	0.2	0.6	13	-0.7	11.3
117	170887	150475	5.4	-0.5	0.7	13	-1.1	9.3
118	171073	150475	7.4	-0.1	0.9	16	0.2	13.2
119	170908	140297	3.3	-0.2	0.2	1	-1.9	0.4
120	170498	L75	6.3	-1.4	0.1	14	-1.9	7.6
PETALI AVERAGE			4.2	0.1	0.4	10	-1.5	6.1
SUPFINE AVERAGE			2.4	0.1	-0.1	6	-1.5	0

YSS	YWEC	EBWR	EBCOV	DP+	Buyer & Price
-2.2	-13	-0.8	-0.1	140	
-0.4	-35	-0.6	-0.2	138	
2.5	-31	0	-0.4	153	
-1.6	-3	0.1	0.1	141	
-0.3	-19	-0.6	-0.6	135	
3.1	-44	0.3	0.2	154	
-1.1	-71	-0.3	-0.1	128	
2.2	-20	-0.8	-0.1	139	
2.5	-53	-0.6	-0.1	133	
2.3	-51	-0.1	-0.3	143	
-0.3	-33	-0.6	-0.3	135	
4.3	-51	-0.2	0.1	145	
-1.7	-10	0.1	0.2	156	
-3.4	-71	-0.4	-0.2	128	
-0.1	-2	-0.4	0.2	132	
2.4	-18	-0.4	-0.5	133	
-0.4	-22	-0.8	-0.3	145	
2.2	-57	-0.7	-0.3	138	
0.8	-67	-0.6	-0.4	114	
-0.1	1	-0.9	-0.4	142	
0.3	-29			135	
0.3	-17			127	



**PETALI POLL MERINO AUCTION**

Thursday 7 Feb at 1pm

LOT	TAG	SIRE	YWT	YEMD	YFAT	YCFW	YFD	YSL
121	170924	N115	4	-0.3	0.3	15	-1.6	3.4
122	170529	150475	4.9	-0.5	0.5	5	-1.6	5.2
123	170738	150475	7.3	0.5	0.7	8	-0.7	2.2
124	170832	130322	5.3	0.5	0.6	3	-2.1	-2.5
125	170879	150475	3.8	0	0.7	2	-1.4	7.4
126	170843	140297	4.9	-0.6	0.3	4	-1.6	1.9
127	170597	L34	0.3	1.4	1	11	-0.8	13.8
128	170666	L34	4.2	2	1.2	9	-1	5.8
129	170900	140297	5.6	0.3	0.6	14	-1.5	7.9
130	170574	L75	6.7	0.8	0.6	9	-1	8.3
131	170583	L34	2.1	0.4	0.7	9	-1.2	8.9
132	170708	K185	2.7	0	0.1	14	0.1	6.3
133	171082	140412	2.6	-0.2	0.1	4	-2.7	1.4
134	170818	140297	0.8	-0.1	0.4	6	-1.6	6.7
135	170579	K185	4.3	-1	0.2	3	-1.3	6.7
136	171025	150475	4.5	-0.4	0.7	6	-1.3	9.6
137	170762	L34	4.1	0.2	0.5	10	-1.2	5.1
138	170754	A282	2.6	-0.2	0.1	12	-1.5	12.6
139	170723	150697	5.2	0.8	0.7	16	-0.6	8.1
140	170654	T71	8	0.8	0.7	16	-1.3	3.9
<b>PETALI AVERAGE</b>			<b>4.2</b>	<b>0.1</b>	<b>0.4</b>	<b>10</b>	<b>-1.5</b>	<b>6.1</b>
<b>SUPFINE AVERAGE</b>			<b>2.4</b>	<b>0.1</b>	<b>-0.1</b>	<b>6</b>	<b>-1.5</b>	<b>0</b>

YSS	YWEC	EBWR	EBCOV	DP+	Buyer & Price
-1.7	-3	0.3	0	136	
-0.5	-19	-0.4	-0.1	130	
1.5	-24	-0.4	-0.1	147	
-0.7	-31	0.2	0.1	136	
0.2	-21	-0.3	-0.1	119	
1.8	-63	-0.4	-0.5	112	
2.6	-13	-0.3	-0.7	136	
-1.4	-28	-0.5	-0.4	142	
-3.3	-62	-0.1	-0.2	135	
1.2	-12	-0.6	-0.5	137	
0.4	1	-0.1	0	129	
3.1	-32	-0.1	-0.6	137	
0.5	-39	0	0	131	
-1	-53	-0.7	-0.5	114	
5.1	-36	-0.7	-0.2	130	
-1.1	-27	-0.5	-0.5	131	
-0.7	10	-0.4	-0.2	139	
0	-69	-0.4	-0.3	123	
4.8	-57	-0.3	-0.1	152	
1.3	-38	-0.3	-0.1	156	
<b>0.3</b>	<b>-29</b>			<b>135</b>	
<b>0.3</b>	<b>-17</b>			<b>127</b>	

*Thanks for attending the Petali Ram Sale.  
Please enjoy a complimentary drink with us after the sale.*

## Adapt or be disrupted - breeding for the future

Dr Mark Ferguson at LambEx 2018 (by Kristen Frost, Farmonline)

**“Adapt or be disrupted. In the sheep industry we have to think:**

**How are we going to adapt to change?”**

These are the words of Mark Ferguson, managing director of neXtgen Agri Ltd, when he spoke to LambEx delegates in Perth, August 2018, stressing the importance for sheep producers to rethink the way they breed sheep.

“Sheep breeders will need to be more flexible than ever before. To prosper in this new world, we need to rethink the way we breed our sheep.”

He told delegates that there were 3 key adaptations when building the future ewe:

### **1 Get seriously consumer focused.**

“Get to know your consumer – they are the key to our future, we need to understand their drivers,” he said.

“It is no longer good enough to produce what is best for us and expect someone to buy it. We have to build trust with that consumer set and breeding is a part of that future.”

Mr Ferguson said our production system used to be driven around product, taste and convenience. But there are new drivers, and the affluent consumer’s mind set is going to be on health, wellness, social impact, safety and experience.

“The \$10 per kilogram lamb comes with those evolving drivers, so we need to nail those evolving drivers with our breeding,” he said. “We have to guarantee that we have that eating experience for our consumer set. Therefore putting intra-muscular fat in our future ewe is a definite tick.”

“We also need to have a production system that our consumers can be proud of. When they are eating our products we want them to be proud of where they came from and how they were produced.

They are proud not only of the productivity, but our system. A system where we are not using chemicals and we are not using intervention.”

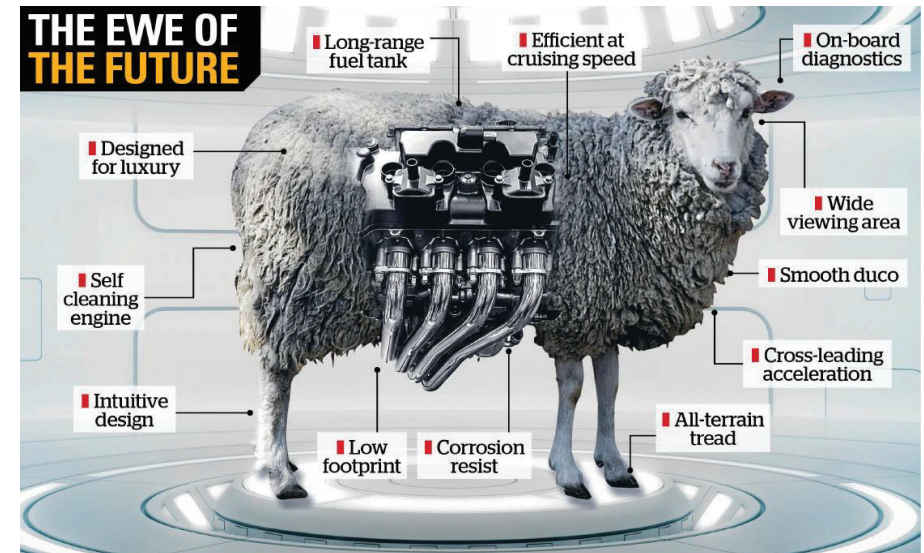
### **2. Get focused on cost, time and chemicals in our breeding programs.**

“We need to think about breeding in terms of less – how do we take costs out, how do we take chemicals out and how do we take time out.”

According to MLA’s costing reports the top five costs are all under some form of genetic control such as lamb mortality, internal parasites, and fly strike.

“These are all things that we can select for to improve.

We have to think about how we breed a future ewe that requires less time, less chemicals and less costs. If we could breed a sheep that requires less grain feeding, that would have a huge impact on enterprises.”



### **3. Embrace data.**

“Augmented breeding decisions are part of our very near future.

Having information at our fingertips through data is going to continue going forward.

We simply have not had the ability to accurately map both the inputs and outputs of individual sheep to determine which are indeed most profitable in a commercial setting. We are now entering an era where we will have this information.”

Mr Ferguson said technology is about to deliver us an ocean of new information about our sheep. For the first time in history we will truly know which ones are most profitable.

“We will also know which ones will maintain the highest welfare standards.”

**He concluded by saying that the ewe of the future is in the hands of the people who choose to breed her.**

**Standing still is actually going backwards, at an ever increasing rate.**



**Dr Mark Ferguson says  
“Adapt or be disrupted”**



Map: 2011 Google, Whereis, Sensis Pty Ltd

## Directions to Petali, Walcha NSW

Petali is 18kms north of Walcha, 22km south of Uralla, on Thunderbolt's Way. Petali is situated on the western side of the road, follow signs to the Woolshed.



[www.petali.com.au](http://www.petali.com.au)