



Department of  
Primary Industries



## Macquarie MLP 2017 Drop

# Raw Data, Adjusted Sire Means and Flock Breeding Values (FBVs)



July 2018

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## Foundation Ewe Base

The base ewes for the site were sourced from commercial clients of two bloodlines, Towalba and Centre Plus, which represent contrasting skin type and levels of wrinkle. The Towalba ewes were sourced from flocks that averaged between 20.5 and 21.5um, whilst the flocks from which the Centre Plus ewes were sourced averaged between 18 and 18.5um. Ewes from these two bloodlines were equally allocated to each sire.

## Site Breeding Objective

To breed a highly commercially viable flock of sheep suitable for the climate and pasture conditions of the western slopes and plains of NSW. Sheep should not require high management inputs but be highly productive (fleece weight) relative to a medium wool type and have good carcase and fertility characteristics that make ewes suitable as 1st cross or prime lamb dams.

In addition to soundness, the production emphasis is equally on increasing fleece weight, carcase and fertility while maintaining fibre diameter.

# Understanding the Results

The sire results presented in this report include **Raw Data, Adjusted Sire Means and Within-Site and Within-Drop Flock Breeding Values (FBVs).**

Term	Definition	
<b>Raw data:</b>	Ewe progeny data which is unadjusted for birth type, rear type, 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.	
<b>Adjusted Sire Means:</b>	Sire means are the average performance of all the progeny of a sire adjusted for an individual's sex, birth type, rear type, age of dam, age of measurement and management group in order to improve the accuracy of the result. The information used for 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 each results table.	
<b>Within-Site and Within-Drop Flock Breeding Values (FBVs):</b>	FBVs presented are calculated from data recorded within-site and within-drop and express the expected <b>genetic</b> 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 Adjusted Sire Means), and the number of progeny a sire has in the analysis.	
<b>The three types of data presented in this report have been chosen to be inclusive of the woolgrower demand for diverse data requirements.</b>		
<b>Age at assessment:</b>	M = Marking - 14 to 42 days W = Weaning - 42 to 120 days E = Early Post Weaning - 120 to 210 days P = Post Weaning - 210 to 300 days	Y = Yearling - 300 to 400 days H = Hogget - 400 to 540 days A2 = Adult - 1.5 to 2.5 years A3 = Adult - 2.5 to 3.5 years
<b>Breeders flock, Sire number:</b>	Identity of the breeder's flock and the sire's number or name.	
<b>Classers Visual Grade:</b>	A classer grades all progeny as either <u>Tops, Flocks or Culls</u> based on their visual assessment of all traits relative to the Site's Breeding Objective (see page 2) and is done in conjunction with the assessment of a range of visual traits. This classing reflects the approach that may be undertaken in a commercial flock.	
<b>F1 Ewe:</b>	First generation Merino ewe progeny that will be assessed through life.	
<b>F2 Progeny:</b>	Progeny of the F1 ewe that are assessed until weaning and then leave the project.	
<b>Indexes:</b>	A breeding index combines multiple flock breeding values into a single value that reflects a certain emphasis on these traits (see Understanding Indexes, page 18 for more information).	
<b>Professional Classer Grade:</b>	A classer grades all progeny as either a <u>Top, Stud, Flock, Sale or Cull</u> based on their visual assessment of all traits relative to the Site's Breeding Objective. This classing reflects the approach that may be undertaken in a stud flock.	
<b>Traits:</b> Abbreviation, trait and the (units reported)	GFW: Greasy fleece weight (kg or %) CFW: Clean fleece weight (kg or %) FD: Average fibre diameter (um) WT: Body weight (kg) FDCV: Fibre diameter coefficient of variation (%) SL: Staple length (mm) at the mid-side SS: Staple strength (NKtex) at the mid-side EMD: Eye muscle depth (mm) at the 'C' site FAT: Fat depth (mm) at the 'C' site WEC: Worm egg count (%)	CONC: Conception - ewes pregnant per 100 ewes joined LS: Litter Size – lambs born per 100 ewes lambing ERA: Ewe Rearing Ability – lambs weaned per 100 lambs born NLB: Number of lambs born per 100 ewes joined NLW: Number of lambs weaned per 100 ewes joined
<b>Visual Traits as reported:</b> Based on the Visual Sheep Scores.	BWR: Breech Wrinkle BCOV: Breech Cover DAG: Dag BDWR: Body Wrinkle COL: Wool Colour	CHAR: Wool Character FACE: Face Cover FLROT: Fleece Rot LEGS: Feet and Legs WEATH: Staple Weathering <i>Further traits are available in the Site Report.</i>
<b>Trait Leaders:</b>	The highest performing 3 (or more if equal) sires for each trait (trait leaders) are highlighted <b>by shading</b> .	

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## Sire and Contact Details

Sires are specifically selected for the project to generate a population that is industry representative. As a result, each site's sire list will include rams that represent a range in breeding philosophies, types, skin types, performance, age, horn status and industry usage.

Breeders flock, Sire name Sire ID #	Contact Details	Sire of Sire	Poll	Link Sire
<b>Centre Plus Poll, 707115</b> 601250-2007-707115	<b>Robert Mortimer</b> Devondale, Tullamore NSW 2874 P: (02) 6892 8259, M: 0429 92 8292, E: robert@centreplus.com.au	601250-2004-407373 (Centre Plus Poll, 407373)	PP	Link Sire
<b>Collinsville Poll, 130545 (Apollo)</b> 600105-2013-130545	<b>Tim Dalla</b> PO Box 26, Hallett SA 5419 M: 0488 77 3329, E: Tim@collinsville.com.au	600105-2011-111122 (Collinsville Poll, 111122)	PP	
<b>Darriwell, 130941 (Buddha)</b> 503655-2013-130941	<b>Russell Jones</b> Darriwell, 924 Darriwell Rd, Trundle NSW 2875 P: (02) 6869 9242, M: 0428 69 9243, E: darriwool@hotmail.com	503655-2011-000952 (Darriwell, 000952)	HH	Link Sire
<b>GRASS Merino, 122190 (P47)</b> 503884-2012-122190	<b>Graham Peart</b> GRASS Merinos Pty Ltd, PO Box 216, Nambucca Heads NSW 2448 P: 0428 825 721, E: g.peart@icloud.com	609040-2006-066533 (Merinotech WA, 066533)	HH	Link Sire
<b>GullenGamble Poll, 120018</b> 601414-2012-120018	<b>Mark Kerin</b> GullenGamble, Yeoval NSW 2868 P: (02) 6846 4252, M: 0427 46 4252, E: gullen@bordnet.com.au	600815-2008-080445 (Leahcim Poll, 080445)	PP	
<b>Hazeldean, 13.4936</b> 500383-2013-004936	<b>Jim Litchfield</b> Hazeldean Pty Ltd, Cooma NSW 2630 P: (02) 6453 5555, M: 0417 67 6561, E: admin@hazeldean.com.au	500383-2011-003542 (Hazeldean, 003542)	PH	
<b>Kerin Poll, 151911</b> 601413-2015-151911	<b>Nigel Kerin</b> Karuga Park, 1142 Bournewood Rd, Yeoval NSW 2868 P: (02) 6846 4070, M: 0427 46 4979, E: kerinag@bigpond.com	600088-2013-130306 (Moorundie Park Poll, 130306)	PP	
<b>Moojepin, 120652</b> 504637-2012-120652	<b>Chad Taylor</b> Marapana, 456 Wuuluman Road, Wellington NSW 2820 P: (02) 6845 3620, M: 0458 45 3608, E: chad@mumblebone.com.au	504637-2010-100248 (Moojepin, 100248)	PH	Link Sire
<b>Mumblebone, 151367</b> 500063-2015-151367	<b>Chad Taylor</b> Marapana, 456 Wuuluman Road, Wellington NSW 2820 P: (02) 6845 3620, M: 0458 45 3608, E: chad@mumblebone.com.au	600815-2011-111173 (Leahcim Poll, 111173)	PH	

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Breeders flock, Sire name Sire ID #	Contact Details	Sire of Sire	Poll	Link Sire
<b>Roseville Park, 132933</b> 504166-2013-132933	<b>Matthew and Cherie Coddington</b> Glenwood, 39R Dilladerry Rd MS3, Dubbo NSW 2830 P: (02) 6887 7286, M: 0428 63 5386, E: rpmerinos@bigpond.com	504166-2009-090014 (Roseville Park, 090014)	HH	
<b>Trigger Vale Poll, 140477</b> 609251-2014-140477	<b>Andrew and Mandi Bouffler</b> Valera, Lockhart NSW 2656 P: (02) 6920 7656, M: 0427 20 7656, E: info@triggervalesheepstuds.com.au	609251-2011-110511 (Trigger Vale Poll, 110511)	PP	Link Sire
<b>Wanganella, 130816</b> 500083-2013-130816	<b>Angus Munro</b> Boonoke, Conargo Road, Denliquin NSW 2710 P: (03) 5884 6604, M: 0488 60 1603, E: amunro@austfood.com.au	503506-2009-090137 (East Mundalla, 090137)	HH	
<b>West Plains Poll, 110004 (Mercenary)</b> 601236-2011-110004	<b>Drew Chapman</b> 306 Rocky Range Rd, Delegate NSW 2633 P: (02) 6458 8129, M: 0428 82 3533, E: laura.chapman1@bigpond.com	501341-2009-090089 (Hinesville, 090089)	PH	Link Sire
<b>Wilgunya, 121224</b> 503764-2012-121224	<b>Max Wilson</b> Wilgunya, Dirranbandi QLD 4486 P: (07) 4625 8214, E: mwilson@westnet.com.au	Unknown	HH	
<b>Willandra Poll, 140030 (Des)</b> 600610-2014-140030	<b>Ross Wells</b> Willandra, 477 North Coree Rd, Jerilderie NSW 2716 P: (03) 5886 1223, M: 0428 86 1605, E: rossirene@reachnet.com.au	600610-2012-120026 (Willandra Poll, 120026)	PH	

#Sire ID provides a unique number for all sheep. A sire ID has 16 digits.

- 2 for the breed of the flock, e.g., Merino (50), Poll Merino (60), Dohne (51), SAMM (48).
- 4 for flock code, AASMB Registered flock code or unregistered code.
- 4 for year of drop.
- 6 for tag number used in the breeder's records.

**Link Sires** are those evaluated to provide links between years and sites so that all the site results can be combined into a separate report.

# 2017 Drop

## Raw Data

### Counts – F1 Ewes

Breeders flock, Sire number	Marking 26/06/17	Weaning 06/09/17	Post Weaning 01/02/18	Yearling 30/04/18	Survival Rate from Marking %
Centre Plus Poll, 707115	34	34	34	34	100%
Collinsville Poll, 130545 (Apollo)	28	27	25	24	86%
Darriwell, 130941	23	22	20	20	87%
GRASS Merino, 122190 (P47)	46	43	42	42	91%
GullenGamble Poll, 120018	31	29	29	29	94%
Hazeldean, 13.4936	34	33	33	32	94%
Kerin Poll, 151911	26	24	24	24	92%
Moojepin, 120652	42	41	41	41	98%
Mumblebone, 151367	31	29	29	27	87%
Roseville Park, 132933	30	29	29	29	97%
Trigger Vale Poll, 140477	35	35	35	35	100%
Wanganella, 130816	21	21	21	21	100%
West Plains Poll, 110004 (Mercenary)	16	16	16	16	100%
Wilgunya, 121224	33	31	30	30	91%
Willandra Poll, 140030 (Des)	34	34	33	33	97%
<b>Average</b>	<b>31</b>	<b>30</b>	<b>29</b>	<b>29</b>	<b>97%</b>
<b>Total</b>	<b>464</b>	<b>448</b>	<b>441</b>	<b>437</b>	

Reductions in F1 Ewe counts are a result of mortality and culling for welfare reasons.

# 2017 Drop

## Raw Data

Wool growth in Months  
Post Weaning 9

### Wool – F1 Ewes

Breeders flock, Sire number	Post Weaning 19/02/18					
	GFW (kg)	CFW (kg)	FD (um)	FDCV (%)	SL (mm)	SS (NKtex)
Centre Plus Poll, 707115	3.6	2.3	17.6	18.9	84.7	29.2
Collinsville Poll, 130545 (Apollo)	3.9	2.5	18.1	18.1	80.4	32.5
Darriwell, 130941	3.7	2.3	18.0	19.1	77.6	30.9
GRASS Merino, 122190 (P47)	3.9	2.5	18.5	18.5	82.0	34.9
GullenGamble Poll, 120018	3.7	2.4	17.5	19.0	84.6	26.7
Hazeldean, 13.4936	3.8	2.5	16.6	18.2	77.7	30.4
Kerin Poll, 151911	3.9	2.4	17.9	18.7	84.0	32.5
Moojepin, 120652	3.6	2.2	18.0	19.2	89.6	25.7
Mumblebone, 151367	3.7	2.4	18.1	17.0	88.1	31.1
Roseville Park, 132933	3.8	2.4	18.1	17.8	79.0	30.5
Trigger Vale Poll, 140477	3.6	2.3	18.7	18.0	81.6	28.6
Wanganella, 130816	3.7	2.5	17.8	18.4	81.0	28.2
West Plains Poll, 110004 (Mercenary)	3.3	2.1	16.4	20.1	73.6	24.5
Wilgunya, 121224	3.7	2.3	17.1	19.1	74.0	30.6
Willandra Poll, 140030 (Des)	3.8	2.5	17.7	19.4	78.3	28.9
<b>Average</b>	<b>3.7</b>	<b>2.4</b>	<b>17.7</b>	<b>18.6</b>	<b>81.1</b>	<b>29.7</b>

This publication contains raw data which has not been adjusted for factors that may improve the accuracy of its interpretation for genetic evaluation purposes such as birth and rear type, age of dam, age of measurement and management group, the number of breeding age ewes that are dry, rearing single or twin lambs nor accounting for differences in the foundation ewe sources. Persons should take particular care using raw data for genetic evaluation.

# 2017 Drop

## Raw Data

### Weights – F1 Ewes

	<b>Weaning 06/09/17 (kg)</b>	<b>Post Weaning 08/03/18 (kg)</b>	<b>Yearling 30/04/18 (kg)</b>	<b>Weight Gain Weaning to Yearling (kg)</b>
Centre Plus Poll, 707115	23.1	46.2	54.9	31.8
Collinsville Poll, 130545 (Apollo)	23.9	46.7	55.8	31.9
Darriwell, 130941	21.6	45.7	55.3	33.7
GRASS Merino, 122190 (P47)	24.0	47.5	56.2	32.2
GullenGamble Poll, 120018	22.3	46.9	55.2	32.9
Hazeldean, 13.4936	21.9	42.3	50.9	29.0
Kerin Poll, 151911	24.5	49.2	58.2	33.7
Moojepin, 120652	22.7	46.5	54.8	32.1
Mumblebone, 151367	25.2	47.4	56.6	31.4
Roseville Park, 132933	24.5	45.7	54.4	29.9
Trigger Vale Poll, 140477	24.7	51.3	61.3	36.6
Wanganella, 130816	23.6	45.8	55.6	32.0
West Plains Poll, 110004 (Mercenary)	21.0	42.2	51.5	30.5
Wilgunya, 121224	22.1	44.5	54.0	31.9
Willandra Poll, 140030 (Des)	22.8	46.1	56.3	33.5
<b>Average</b>	<b>23.2</b>	<b>46.3</b>	<b>55.4</b>	<b>32.2</b>

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# 2017 Drop

## Raw Data

### Condition Score and Carcase Measurements – F1 Ewes

Breeders flock, Sire number	Post Weaning 08/03/18		
	Condition Score	EMD (mm)	FAT (mm)
Centre Plus Poll, 707115	3.4	23.5	3.6
Collinsville Poll, 130545 (Apollo)	3.1	22.4	3.2
Darriwell, 130941	3.2	22.1	2.6
GRASS Merino, 122190 (P47)	3.5	23.2	3.2
GullenGamble Poll, 120018	3.2	21.9	3.3
Hazeldean, 13.4936	2.9	19.9	2.4
Kerin Poll, 151911	3.4	23.6	2.8
Moojepin, 120652	3.6	25.2	4.3
Mumblebone, 151367	3.5	23.4	3.1
Roseville Park, 132933	3.0	20.2	2.8
Trigger Vale Poll, 140477	3.7	24.1	4.1
Wanganella, 130816	3.1	21.9	3.2
West Plains Poll, 110004 (Mercenary)	3.0	21.4	2.6
Wilgunya, 121224	3.2	20.7	2.9
Willandra Poll, 140030 (Des)	3.3	21.3	3.5
<b>Average</b>	<b>3.3</b>	<b>22.3</b>	<b>3.2</b>

This publication contains raw data which has not been adjusted for factors that may improve the accuracy of its interpretation for genetic evaluation purposes such as birth and rear type, age of dam, age of measurement and management group, the number of breeding age ewes that are dry, rearing single or twin lambs nor accounting for differences in the foundation ewe sources. Persons should take particular care using raw data for genetic evaluation.

## 2017 Drop

### Raw Data

#### Birth and Rear Type – F1 Ewes

Breeders flock, Sire number	F1 Ewes Weaned	Birth Type (Scanning)			Rear Type (Weaning)		
		Single	Twin	Triplets	Single	Twin	Triplets
Centre Plus Poll, 707115	34	10	21	3	14	20	
Collinsville Poll, 130545 (Apollo)	27	9	16	2	10	17	
Darriwell, 130941	22	8	13	1	9	13	
GRASS Merino, 122190 (P47)	43	8	33	2	14	29	
GullenGamble Poll, 120018	29	4	23	2	9	20	
Hazeldean, 13.4936	33	5	25	3	11	20	2
Kerin Poll, 151911	24	10	13	1	15	9	
Moojepin, 120652	41	12	23	6	16	21	4
Mumblebone, 151367	29	8	19	2	16	13	
Roseville Park, 132933	29	12	12	5	14	14	1
Trigger Vale Poll, 140477	35	12	22	1	14	21	
Wanganella, 130816	21	5	16		6	15	
West Plains Poll, 110004 (Mercenary)	16	6	10		7	9	
Wilgunya, 121224	31	8	23		11	20	
Willandra Poll, 140030 (Des)	34	8	26		10	24	
<b>Total</b>	<b>448</b>	<b>125</b> <b>28%</b>	<b>295</b> <b>66%</b>	<b>28</b> <b>6%</b>	<b>176</b> <b>39%</b>	<b>265</b> <b>59%</b>	<b>7</b> <b>2%</b>

**\*\*This relates to the F1 Ewes own birth and rear type\*\***

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# 2017 Drop

## Raw Data

### Visual Scores

Breeders flock, Sire number	Marking 26/06/17		Post Weaning 01/02/18					Post Weaning BDWR	Post Weaning 06/03/18		
	BWR	BCOV	COL	FLROT	CHAR	LEGS	FACE		BWR	BCOV	CCOV
Centre Plus Poll, 707115	2.5	3.6	3.1	1.1	3.0	2.3	3.1	2.4	2.6	3.7	3.4
Collinsville Poll, 130545 (Apollo)	2.3	3.8	3.2	1.4	2.8	1.7	3.2	2.2	2.3	4.0	3.5
Darriwell, 130941	2.7	4.3	3.0	1.0	3.4	1.7	3.5	3.0	3.2	4.0	3.8
GRASS Merino, 122190 (P47)	2.5	4.3	2.6	1.1	3.0	2.0	3.1	2.9	3.1	4.0	3.6
GullenGamble Poll, 120018	2.3	4.5	3.1	1.1	3.0	1.9	3.1	2.5	2.6	4.2	3.6
Hazeldean, 13.4936	2.4	3.9	2.6	1.2	3.0	1.8	3.3	2.8	2.9	4.0	3.4
Kerin Poll, 151911	2.2	3.5	3.4	1.1	3.5	2.0	3.0	2.8	3.0	3.9	3.2
Moojepin, 120652	2.0	4.1	3.1	1.0	3.4	1.8	3.0	1.9	2.2	3.7	3.4
Mumblebone, 151367	2.1	3.8	3.1	1.1	2.8	2.1	3.3	2.2	2.5	4.0	3.4
Roseville Park, 132933	2.6	4.4	2.9	1.1	3.2	2.1	3.1	3.0	3.1	4.2	3.8
Trigger Vale Poll, 140477	1.8	3.9	3.2	1.1	3.1	2.1	3.2	2.1	2.3	3.8	3.6
Wanganella, 130816	2.6	4.7	3.0	1.2	3.1	1.7	3.3	2.6	2.8	4.2	3.8
West Plains Poll, 110004 (Mercenary)	2.7	4.4	2.9	1.0	3.1	1.8	3.1	2.9	2.9	4.4	3.9
Wilgunya, 121224	2.8	4.1	2.8	1.0	3.0	1.9	3.3	2.9	3.2	3.9	3.9
Willandra Poll, 140030 (Des)	2.6	4.1	2.9	1.0	3.2	1.8	3.3	3.0	3.2	4.1	3.7
<b>Average</b>	<b>2.4</b>	<b>4.1</b>	<b>3.0</b>	<b>1.1</b>	<b>3.1</b>	<b>1.9</b>	<b>3.2</b>	<b>2.6</b>	<b>2.8</b>	<b>4.0</b>	<b>3.6</b>

The Marking visual scores reported are the results of both the F1 ewe and F1 wether progeny of the sires, as are the Post Weaning BDWR scores.

The Post Weaning traits scored on the 01/02/18 are scores from the F1 ewe progeny only.

The Post Weaning traits scored on the 06/03/18 are the results of the F1 wether progeny only.

This publication contains raw data which has not been adjusted for factors that may improve the accuracy of its interpretation for genetic evaluation purposes such as birth and rear type, age of dam, age of measurement and management group, the number of breeding age ewes that are dry, rearing single or twin lambs nor accounting for differences in the foundation ewe sources. Persons should take particular care using raw data for genetic evaluation.

# 2017 Drop

## Raw Data

### Professional Classer Grade – F1 Ewes

Classer: Chris Bowman

Results are ewe numbers as classed into each grade.

Breeders flock, Sire number	Post Weaning 01/02/18				
	Top	Stud	Flock	Sale	Cull
Centre Plus Poll, 707115		1	17	9	7
Collinsville Poll, 130545 (Apollo)	1	3	16	4	1
Darriwell, 130941		1	10	6	3
GRASS Merino, 122190 (P47)	1	4	26	7	4
GullenGamble Poll, 120018	1	2	13	10	3
Hazeldean, 13.4936		1	16	11	5
Kerin Poll, 151911	1	2	8	10	3
Moojepin, 120652		2	18	14	7
Mumblebone, 151367		4	15	7	3
Roseville Park, 132933		3	15	5	6
Trigger Vale Poll, 140477		2	20	11	2
Wanganella, 130816		1	15	3	2
West Plains Poll, 110004 (Mercenary)		1	1	8	6
Wilgunya, 121224			15	13	2
Willandra Poll, 140030 (Des)	3	2	19	8	1
<b>Total</b>	<b>7</b> <b>2%</b>	<b>29</b> <b>7%</b>	<b>224</b> <b>51%</b>	<b>126</b> <b>29%</b>	<b>55</b> <b>12%</b>

*Please note: Two different classing approaches carried out separately by two different classers are reported in this booklet. The Professional Classing results reported in the above table are raw unadjusted data based on a five way class.*

*The Classers Grade on page 15 is presented as Adjusted Sire Means which are adjusted for birth and rear type, age of dam, age of measurement and management group.*

This publication contains raw data which has not been adjusted for factors that may improve the accuracy of its interpretation for genetic evaluation purposes such as birth and rear type, age of dam, age of measurement and management group, the number of breeding age ewes that are dry, rearing single or twin lambs nor accounting for differences in the foundation ewe sources. Persons should take particular care using raw data for genetic evaluation.

## 2017 Drop

# Adjusted Sire Means

<b>Wool growth in Months</b>	
Post Weaning	9

## Wool

Breeders flock, Sire number	PGFW (kg)	PCFW (kg)	PFD (um)	PFDCV (%)	PSL (mm)	PSS (NKtex)
Centre Plus Poll, 707115	3.7	2.4	17.1	18.9	82.7	29.9
Collinsville Poll, 130545 (Apollo)	3.8	2.6	17.7	17.9	78.6	33.3
Darriwell, 130941	3.6	2.4	18.1	18.7	77.0	32.6
GRASS Merino, 122190 (P47)	3.8	2.6	18.2	18.2	79.5	36.2
GullenGamble Poll, 120018	3.8	2.6	17.0	18.7	83.3	29.1
Hazeldean, 13.4936	3.9	2.7	16.6	18.2	79.7	31.7
Kerin Poll, 151911	3.8	2.5	17.2	17.9	81.8	32.8
Moojepin, 120652	3.6	2.4	17.6	19.0	89.3	27.3
Mumblebone, 151367	3.7	2.5	18.1	17.3	88.1	32.8
Roseville Park, 132933	3.6	2.4	17.3	17.8	76.6	31.4
Trigger Vale Poll, 140477	3.5	2.4	18.5	17.4	78.9	30.2
Wanganella, 130816	3.8	2.6	17.2	19.2	80.3	29.2
West Plains Poll, 110004 (Mercenary)	3.4	2.3	16.6	18.7	75.1	29.3
Wilgunya, 121224	3.7	2.5	16.8	18.9	73.2	29.9
Willandra Poll, 140030 (Des)	3.8	2.6	17.2	19.1	77.3	30.8
<b>Average</b>	<b>3.7</b>	<b>2.5</b>	<b>17.4</b>	<b>18.4</b>	<b>80.1</b>	<b>31.1</b>

W= Weaning (42 to 120 days); P = Post Weaning (210 to 300 days); Y = Yearling (300 to 400 days); H = Hogget (400 to 540 days); A = Adult (540 days and older).

**These Adjusted Sire Means were calculated using available data from both the F1 ewe and F1 wether progeny of the sires.**

Adjustments account for factors that may improve accuracy of using the results such as birth and rear type, age of dam, age of measurement and management group (which includes accounting for differences in the foundation ewe sources).

## 2017 Drop

# Adjusted Sire Means

## Weight and Carcase

Breeders flock, Sire number	WWT (kg)	PWT (kg)	YWT (kg)	PEMD (mm)	PFAT (mm)
Centre Plus Poll, 707115	24.2	45.0	55.1	23.7	3.8
Collinsville Poll, 130545 (Apollo)	25.1	46.1	56.1	22.4	3.3
Darriwell, 130941	22.9	44.8	55.3	22.4	2.8
GRASS Merino, 122190 (P47)	24.6	46.8	56.1	23.0	3.3
GullenGamble Poll, 120018	24.1	46.4	55.8	22.0	3.4
Hazeldean, 13.4936	23.4	42.6	50.8	21.0	2.7
Kerin Poll, 151911	24.9	49.4	59.1	23.2	2.9
Moojepin, 120652	23.9	45.4	54.4	25.2	4.4
Mumblebone, 151367	25.0	46.2	56.6	23.2	3.1
Roseville Park, 132933	24.3	44.0	53.6	20.5	3.0
Trigger Vale Poll, 140477	25.2	50.5	61.0	23.1	3.9
Wanganella, 130816	24.8	45.9	56.0	22.2	3.3
West Plains Poll, 110004 (Mercenary)	23.1	41.8	52.3	22.6	2.9
Wilgunya, 121224	23.3	44.2	53.8	21.3	3.1
Willandra Poll, 140030 (Des)	24.2	46.5	56.4	21.5	3.6
<b>Average</b>	<b>24.2</b>	<b>45.7</b>	<b>55.5</b>	<b>22.5</b>	<b>3.3</b>

W= Weaning (42 to 120 days); P = Post Weaning (210 to 300 days); Y = Yearling (300 to 400 days); H = Hogget (400 to 540 days); A = Adult (540 days and older).

**The WWT was calculated using available data from both the F1 ewe and F1 wether progeny of the sires.**

**Adjusted Sire Means for PWT and YWT were calculated using only the F1 ewe progeny of the sires.**

Adjustments account for factors that may improve accuracy of using the results such as birth and rear type, age of dam, age of measurement and management group (which includes accounting for differences in the foundation ewe sources).

## 2017 Drop

# Adjusted Sire Means

## Classer's Visual Grade – F1 Ewes

Classer: Allan Casey

Breeders flock, Sire number	Progeny No <sup>^</sup>	PTOPS (%)	PCULLS (%)
Centre Plus Poll, 707115	34	-15	22
Collinsville Poll, 130545 (Apollo)	27	-1	3
Darriwell, 130941	22	-12	6
GRASS Merino, 122190 (P47)	43	13	-16
GullenGamble Poll, 120018	29	12	-20
Hazeldean, 13.4936	33	-15	0
Kerin Poll, 151911	24	3	-6
Moojepin, 120652	41	-2	6
Mumblebone, 151367	29	9	-4
Roseville Park, 132933	29	-5	13
Trigger Vale Poll, 140477	35	11	-7
Wanganella, 130816	21	6	-4
West Plains Poll, 110004 (Mercenary)	16	-10	4
Wilgunya, 121224	31	-17	15
Willandra Poll, 140030 (Des)	34	23	-11
<b>Average</b>	<b>30</b>	<b>31</b>	<b>29</b>

W= Weaning (42 to 120 days); P = Post Weaning (210 to 300 days); Y = Yearling (300 to 400 days); H = Hogget (400 to 540 days); A = Adult (540 days and older).

<sup>^</sup> Progeny No is the total ewe progeny number for each sire at weaning.

**These Classer's Visual Grade were calculated using only the F1 ewe progeny of the sires.**

**Please note:** Two different classing approaches carried out separately by two different classers are reported in this booklet.

The Classers Visual Grade results are presented in the table above as Adjusted Sire Means which are adjusted for birth and rear type, age of dam, age of measurement and management group.

The Professional Classing results reported on page 12 are raw unadjusted data based on a five way class. More information about these differing approaches can be found on page 3.

Adjustments account for factors that may improve accuracy of using the results such as birth and rear type, age of dam, age of measurement and management group (which includes accounting for differences in the foundation ewe sources).

## 2017 Drop

# Within-Site and Within-Drop Flock Breeding Values

## Wool

Breeders flock, Sire number	Progeny No <sup>^</sup>	PGFW (%)	PCFW (%)	PFD (um)	PFDCV (%)	PSL (mm)	PSS (Nktex)
Centre Plus Poll, 707115	66	-1	-6	-0.5	0.8	4.1	-2.2
Collinsville Poll, 130545 (Apollo)	51	7	9	0.6	-0.7	-1.8	3.6
Darriwell, 130941	52	-2	-4	1.0	0.5	-4.9	2.5
GRASS Merino, 122190 (P47)	73	6	9	1.4	-0.3	-1.5	8.8
GullenGamble Poll, 120018	57	4	7	-0.7	0.5	4.8	-3.8
Hazeldean, 13.4936	73	9	14	-1.4	-0.3	-0.6	1.0
Kerin Poll, 151911	48	4	-1	-0.4	-0.7	2.7	2.7
Moojepin, 120652	80	-3	-8	0.4	1.0	15.4	-6.6
Mumblebone, 151367	62	1	-1	1.1	-1.8	12.8	3.2
Roseville Park, 132933	62	-5	-11	-0.2	-1.0	-6.1	0.7
Trigger Vale Poll, 140477	71	-11	-12	2.0	-1.9	-2.2	-1.2
Wanganella, 130816	45	4	6	-0.4	1.3	0.5	-3.1
West Plains Poll, 110004 (Mercenary)	50	-15	-12	-1.3	0.5	-7.4	-2.8
Wilgunya, 121224	60	-2	1	-1.1	0.8	-11.1	-2.1
Willandra Poll, 140030 (Des)	73	4	8	-0.4	1.2	-4.9	-0.7

W = Weaning (42 to 120 days); P = Post Weaning (210 to 300 days); Y = Yearling (300 to 400 days); H = Hogget (400 to 540 days); A = Adult (540 days and older)

<sup>^</sup> Progeny No is the total progeny number for each sire at weaning, including ewes and wethers.

**These Flock Breeding Values were calculated using both the F1 ewe and F1 wether progeny of the sires.**

**Please see page 3 for a full description of trait names and an explanation of Flock Breeding Values.**



## 2017 Drop

# Within-Site and Within-Drop Flock Breeding Values

## Weight and Carcase

Breeders flock, Sire number	Progeny No <sup>^</sup>	WWT (kg)	PWT (kg)	YWT (kg)	PEMD (mm)	PFAT (mm)
Centre Plus Poll, 707115	66	-0.2	-0.3	-0.1	1.7	1.3
Collinsville Poll, 130545 (Apollo)	51	1.4	0.7	0.2	-0.1	-0.1
Darriwell, 130941	52	-2.0	-0.7	0.6	-0.2	-0.9
GRASS Merino, 122190 (P47)	73	0.7	0.7	0.7	0.8	-0.1
GullenGamble Poll, 120018	57	-0.3	0.4	-0.2	-0.8	0.1
Hazeldean, 13.4936	73	-1.7	-4.3	-6.3	-2.3	-1.9
Kerin Poll, 151911	48	1.5	3.5	4.3	0.7	-0.8
Moojepin, 120652	80	-0.3	0.6	0.3	4.3	3.3
Mumblebone, 151367	62	1.2	-0.2	0.0	0.9	-0.3
Roseville Park, 132933	62	0.1	-1.8	-2.8	-2.8	-1.1
Trigger Vale Poll, 140477	71	2.2	5.7	7.9	1.1	1.8
Wanganella, 130816	45	1.0	-0.1	-0.4	-0.5	-0.2
West Plains Poll, 110004 (Mercenary)	50	-2	-2.8	-3.0	0.1	-0.7
Wilgunya, 121224	60	-1.5	-1.7	-1.9	-1.7	-0.8
Willandra Poll, 140030 (Des)	73	0.0	0.2	0.8	-1.3	0.5

W = Weaning (42 to 120 days); P = Post Weaning (210 to 300 days); Y = Yearling (300 to 400 days); H = Hogget (400 to 540 days); A = Adult (540 days and older)

<sup>^</sup> Progeny No is the total progeny number for each sire at weaning, including ewes and wethers.

**The WWT was calculated using available data from both the F1 ewe and F1 wether progeny of the sires. Flock Breeding values for PWT and YWT were calculated using only the F1 ewe progeny of the sires.**

**Please see page 3 for a full description of trait names and an explanation of Flock Breeding Values.**

## Understanding Indexes

A breeding index combines multiple Flock Breeding Values into a single value that reflects a certain emphasis on these traits. It is important that you use an index that best matches the breeding objective and production system of the flock you are selecting for.

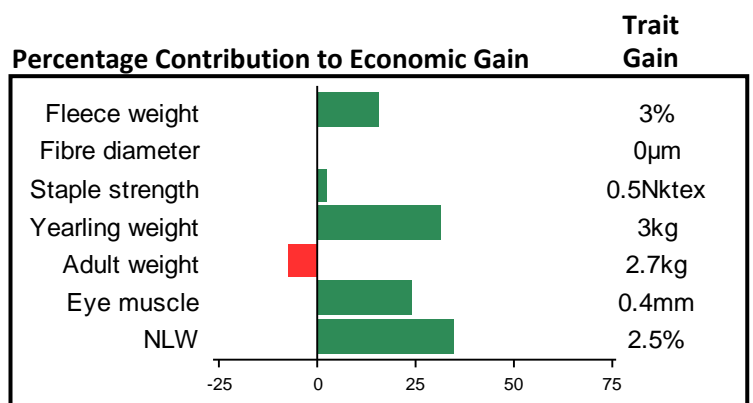
It is recommended that the performance of individual Flock Breeding Values and visually assessed traits is used in conjunction with an index as selection indexes assist in making balanced selection decisions.

The indexes on the following page are the DP+; MP+; FP+ and WP+. The first 3 of these indexes are the same as MERINOSELECT indexes of that name but account for the fact that direct reproduction records have not yet been recorded on the F1 ewes. The WP+ index is unique to AMSEA.

Charts shown display the percentage contribution that each trait makes to economic gain in a commercial flock that uses an index for sire selection. Additionally, included for each index are the likely within-flock responses from using an index for 10 years. These responses are based on a ram breeding flock with a standard breeding program, no introduction of outside genetics and applying 35% of their selection emphasis on traits that are not in the index (such as visually assessed performance).

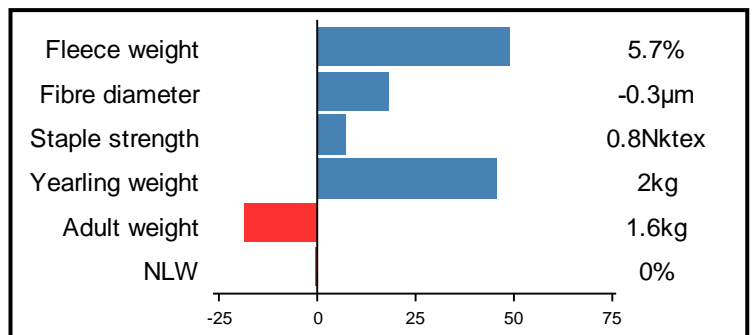
### Dual Purpose Plus (DP+)

Based on a meat focused production system where surplus progeny are sold as lambs and a portion of ewes are joined to terminal sires. Large increase in body weight and carcase traits. Moderate increase in fleece weight. Maintain fibre diameter and staple strength. Moderate increase in reproduction.



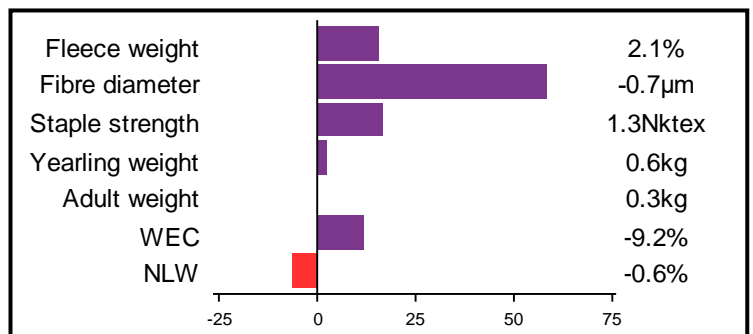
### Merino Production Plus (MP+)

Based on a balanced wool and meat production system where surplus progeny are sold as hoggets. Balanced emphasis on increasing fleece weight and reduction in fibre diameter. Moderate increase in body weight, with little change in reproduction.



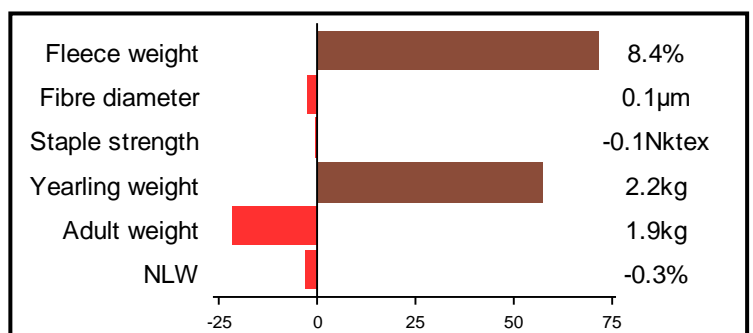
### Fibre Production Plus (FP+)

Based on a wool production system where wethers are retained, operating in an environment where worms cause economic losses. Large reduction in fibre diameter. Moderate increase in staple strength. Small reduction in WEC (if measured in the breeding program). Small increase in fleece weight. Little change in body weight and reproduction.



### Wool Production Plus (WP+)

Based on the MP+ production system with a greater emphasis on increasing fleece weight, while maintaining fibre diameter and a moderate emphasis on increasing body weight.



## 2017 Drop

# Within-Site and Within-Drop Indexes

Breeders flock, Sire number	Dual Purpose Plus	Merino Production Plus	Fibre Production Plus	Wool Production Plus
Centre Plus Poll, 707115	109	94	97	95
Collinsville Poll, 130545 (Apollo)	104	109	105	109
Darriwell, 130941	102	97	94	99
GRASS Merino, 122190 (P47)	110	104	101	104
GullenGamble Poll, 120018	94	105	104	105
Hazeldean, 13.4936	75	111	117	105
Kerin Poll, 151911	131	118	114	114
Moojepin, 120652	115	75	78	84
Mumblebone, 151367	103	92	92	95
Roseville Park, 132933	66	94	99	89
Trigger Vale Poll, 140477	118	91	83	96
Wanganella, 130816	95	102	100	105
West Plains Poll, 110004 (Mercenary)	96	94	102	90
Wilgunya, 121224	88	106	108	102
Willandra Poll, 140030 (Des)	94	109	105	108

These Indexes were calculated using all the available data collected on both the F1 ewe and F1 wether progeny of the sires.

## Macquarie Evaluation Association Site Committee

The Macquarie MLP Site is governed by a Site Committee made up of the following breeders, commercial producers, service providers and NSW Department of Primary Industries staff:

Matthew Coddington	Dubbo
Don Hamblin	Nyngan
Megan Rogers	Forbes
Kathryn Egerton-Warburton	Orange
Kelvin Appleyard	Trangie
Mark Mortimer	Tullamore
Mark Kerin	Yeoval
Nigel Kerin	Yeoval

Garry Kopp	Peak Hill
Greg Sawyer	Cudal
Allan Casey	Orange
Jane Rindfleish	Dubbo
David Greig	Tottenham
Sue Mortimer	Armidale
David Mula	Trangie
Graham Wells	Smoko

## Updates

This publication will be updated on a regular basis as further assessments are undertaken.

This report is complemented by a sire evaluation site report that is published at the completion of the post weaning and hogget assessment stages.

### For further information about Merino Sire Evaluation

Please contact Ben Swain, AMSEA Executive Officer on 0427 100 542 or [ben.swain@bcsagribusiness.com.au](mailto:ben.swain@bcsagribusiness.com.au)

### For further information about the Macquarie MLP Site

Please contact Kathryn Egerton-Warburton, Site Manager on 0429 943 708 or [kathryn.egerton-warburton@dpi.nsw.gov.au](mailto:kathryn.egerton-warburton@dpi.nsw.gov.au)

## Disclaimer

This publication contains raw data which has not been adjusted for factors that may improve the accuracy of its interpretation for genetic evaluation purposes such as birth and rear type, age of dam, age of measurement and management group, the number of breeding age ewes that are dry, rearing single or twin lambs nor accounting for difference in the foundation ewe sources. Persons should take particular care using raw data for genetic evaluation.

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