

WELCOME

Yalgoo Genetics:

WELCOME to our 35th Ram

Thank you for taking the time to consider our program. On behalf of everyone at Yalgoo; I hope you enjoyed the festive season and I wish you all the best for a prosperous and fun 2024.

We believe Yalgoo to be one of the most ambitious and aggressive breeding programs in the country. Our ambition has always been to breed the industry's most profitable sheep, using supporting benchmarking data and science to provide validation for our clients.

I was exceptionally fortunate to recently attend the 2023 Rabobank Global Farming Masterclass course in New Zealand with 24 other participants from around the globe. It was an incredible experience, learning from agricultural leaders from diverse and primarily large scale intensive businesses. Within the group were dairy, swine, horticulture, beef, cereal and floriculture farmers. With one member-Moses from Zimbabwe having the task of rebuilding Zimbabwe's agricultural powerhouse status. The trip re-enforced the incredibly competitive nature of land use. We must continue to do more with less and although sustainability will be an important part of the wool industry's future, we sure as hell better not take our eye off production and product quality. The power of genetics are a big part of all agricultural industries with dairy, horticulture, swine, cereal production and floriculture experiencing game changing advances for profitability, water use and disease protection through the evolution of their gene pool. As merino producers, we have so much upside in genetic gain, however we must be bold, aggressive and forward thinking to ensure we can compete with other agricultural and non-agricultural land users.

Genomic Testing

We have undertaken a large investment in genomic testing across our three seedstock enterprises over the past few years. In 2022 we collected well over 2200 tissue samples. This substantial capital investment reflects our commitment to 'industry best practises'. This ensures you are receiving some of the highest gaining, most predictable genetics available.

The 2024 sale team all have genomic enhanced ASBVs. The sale rams you purchase will have genomic sire/dam parent verification and come from dam's with genomic enhanced ASBVs. Making every Yalgoo ram as predictable as is possible.

A balanced approach to sheep breeding is the only guarantee to avoid the 'zero-sum game' of sacrificing COP (cost of production) traits for income traits or vice versa. The challenge is that income traits and COP are generally negatively correlated meaning we sacrifice one for the other.

The solution is combining objective measurement, time, scale, practical oversight and genomics to find the animals that add value on both sides of the profit equation.

Our 2024 sale team reflects this positive balance of income and COP traits:

INCOME TRAITS:

- Extreme fleece value; Rams average top 5% FD and top 38% YCFW
- ▼ Fertility: Rams average top 46% WR (weaning rate)
- ▼ Early growth and carcase an important KPI for our commercial flock is a 20-25kg carcase weight for our wether lambs at 1yo post shearing

COST TRAITS:

- Challenging, summer dominant high rainfall environment resulting in 74 years of selection pressure on body strike
- Non-mulesed for 9 years
- Low body strike: Rams average top 30% FDCV. (correlated to body strike)
- ▼ Top 38% YWEC

PROFIT

- ✓ Number 1 ranking MP+ ram in the industry 220557
- √ Top 2 ranking FP+ rams in the industry 220557 & 220430
- 3 of the top 4 FP+ rams in the industry
- ✓ Sale rams average -Top 4% FP+ index
- √ Top 9% MP+ index
- ✓ Top 20% DP+ index
- √ Top 5% EBIT/DSE (2021 BM)
- ✓ Client leading benchmarking and wether trial data
- Selection is driven by profit not fads and validated through benchmarking, sire evaluations and wether trials
- ✓ Yalgoo rate of gain has been around twice as fast as the average merino flock for FP+ (200%) and MP+(195%) indexes

Our Y/7-15 index continues to be adopted by some of Australia's most profitable wool producers. This approach has also had a strong tick of validation in the recent results of the NSW DPI wether trial at Glen Innes. Each year Yalgoo clients have demonstrated a higher level of profitability. This was repeated again in 2022 where the 2 top teams (\$/DSE) were Yalgoo clients. Congratulations to the Street family for taking 1st place for both \$/hd and \$/DSE in 2022. Thank you again to our valued clients for testing Yalgoo genetics.

Genetic Solutions for Food and Fibre



Recent awards for Yalgoo genetics



Yalgoo news and events for 2024

- Yalgoo Semen Sales see www.yalgoogenetics.com.au
- August 12th, Yalgoo Bull Sale
- Lookout for Congi (TAF) surplus sheep for sale. An excellent opportunity to purchase merino ewes with a long history of objective measurement, predictability of performance and superior profitability
- If you are a Yalgoo client, please speak to Jock about advertising your future sheep sales in this catalogue
- From February 3, Ashby (Ross Tasmania) Private Merino Ram or surplus sheep sales.
 Contact Will Bennett: 0419104979
- 2024 MerinoLink Conference. A hugely popular and not to be missed industry event for progressive sheep producers.

For the history of the Australian wool industry there has always been a premium for wool 2 microns or more finer than the national clip average. This has increased significantly when the supply of wool 2 microns finer than the clip average has been limited. With low supply and a growing next to skin market, the outlook for fine wool is positive. A combination of these two factors should result in a more consistent price premium for fine wools.

A good way to compare the genetic merit of Yalgoo ram's is to use the CRC's Ram Select tool https://www.ramselect.com.au/#/searchCatalogs/ . You can readily compare Ram's from different sources using industry indexes OR change the weightings on traits to suit your business requirements.

Data Information:

Both 2022 and 2023 have posed some genetic trend issues for our flock as SG moved to a new software to store sheep information and calculate breeding values. After the 2022 change; our flock experienced some significant adjustments to our CFW ASBVs in particular, primarily due to a change in Yalgoo's genetic base. After 7 months of working with SG to restore this data back to its original state we made some progress.

Unfortunately, another update that was made in 2023 resulted in our data reverting again for YCFW. We have had SG and AGBU looking into this for us. It is my understanding the issue lies in the fact we have a long history of data submissions, in which the new software elongates our genetic group. AGBU have indicated an intent to revisit the genetic group solutions in 2025.

In my opinion the YCFW ASBV you see in the catalogue may be a slightly conservative estimate of the sheep's genetic potential when benchmarked against the industry. However, the 'in flock' ranking of ASBV's should be unaffected. It is a very technical issue that has taken a long time to understand, so feel free to get in contact with me if you would like to discuss it further.

After some 30 years of doing our structural and fertility assessment, Dr. Phil Holmes was unable to assess the rams in 2023. Tim Lawrence and Dr Destinee Lockyer assessed the rams, so please note that with a different assessor there may be a different distribution of the actual scores. However, I believe that the structural rankings are sound.

Also of note:

- All rams have been genotyped. P/H status in catalogue
- All Yalgoo rams are independently assessed for structural and fertility traits. Sale rams were structurally assessed by Tim Lawrence. Scrotal tone and circumference measurements were taken by Dr. Destinee Lockyer. Available in catalogue.
- All Yalgoo sheep are visually classed for any economic fault Yalgoo 7/15 Index

In the catalogue you will again notice the presence of our custom

index (Y-7/15). A detailed description of this index and why we have developed it, are contained within the catalogue.

Multiples

Twins/triplets will likely produce progeny that are finer, heavier cutting and have heavier body weights than their raw data suggests. One of the advantages of using ASBV's is that this genetic response is already included in the ASBV. Therefore a multiple's progeny will perform at a higher level than his own data suggests and this is reflected in their ASBV's.

To demonstrate the difference; Twins/triplets will be marked on pen cards on sale day.

Influential 2024 sires:

ANDO 669 (poll): Introduced to increase early growth, carcase traits and decrease COP traits. Sire of Yalgoo semen sire 220557; the all-time highest MP+ ram in the industry. Homozygous polled ram that has sired 17% of our 2024 catalogue Top 5% MP+ and DP+.

Y19110 (horn): For us, Yalgoo 190110 puts together an ideal combination of all traits. Early growth, top 5% WEC and very strong wool quality traits on a muscular, sound, plain body. Sire of Yalgoo 220430, second all-time FP+ ram in the industry. Top 5% all indexes.

Y20629 (poll): 629 has been a real find for us. He has an ideal balance of fleece weight (7% YCFW), wool quality (10% FD, CV and SS) carcase (30% EMD and FAT), WEC and wrinkle traits. A homozygous polled ram with elite wool style and sound structure. The kind of ram to build a ewe flock around. Top 5% FP+ and MP+. RP1133(poll): 1133 progeny blend in really well for wool type. Elite, bright, white, wools. An accurate ram in his structure with high fleece value and early growth. We have a promising son (220560) as a semen sire. Top 5% FP+

Wool flocks have been flying under the radar the past few years. However, the facts are that in much less ideal environmental conditions for growing wool than producing beef or lamb, if you have been running a top 20% wool flock you are consistently at the top end of extensive livestock profitability. Wool's ability to deliver in all seasons is unique.

THANK YOU for taking an interest in our 2024 ram sale. Please don't hesitate to contact us prior to the sale for an inspection or further information.

2024 YALGOO SALE IS INTERFACED ON AUCTIONSPLUS++

Videos of sale lots available late January @ AuctionsPlus and <u>valgoogenetics.com.au</u>

Kind words

Some kind words about Yalgoo genetics

Juan Perez Jones from Los Manantiales Merino stud in Uruguay. Juan has the top ranked ram of over 700 sires on two indexes in Uruguay:

"Some breeders had used Y05448 with great success and last year Mr. Rodolfo Fernandez donated semen from this ram to evaluate at the INIA Nucleus, which confirmed his performance. I congratulate these results and by those who are achieving in your country, If I were to go to Australia I would like to visit again as we share many goals in Merino breeding".

Anthony Uren Former Manager of Congi Station (T.A. Fields). Through Anthony's stewardship; T.A Fields push the innovation boundaries in the pursuit of profit. We learn more from Congi that they do from us:

"Our faith in Yalgoo Genetics only grows stronger. The Nivison's unwavering focus on production and profit is delivering real commercial outcomes to our merino enterprise. Evidenced most recently with Congi wethers producing the highest average fleece value in the 2016 Glen Innes wether trial, coupled with independent benchmarking indicating our flock is delivering Industry leading profitability."

Charles Downie owner/operator of Glenelg estates – Tasmania. We are proud to be associated with Charles and his family. Charles is a great ambassador for innovation and wool profitability.

"I have used Yalgoo genetics almost exclusively for over 10 years. They have measurably improved the key traits that underpin the profitability of the wool flock."

SALE DETAILS

Please bring this catalogue to the Sale

All Figures are ASBV's

The actual performance of individual lots will be printed on sale day

Details of Ram Group from which Sale rams are drawn:

Lambed October	November 2022
Date last shorn	September 2023
Average F.D	14.4
Age when tested	10 months
Number tested	334
Average CV%	21
Wool Growth when tested	10 months
Average Yield	73

FLOCK PERFORMANCE

Average Flock Fleece Diameter of whole clip at 2023 shearing: 15.9 microns. All sale lots have been independently assessed for face cover, feet, testicle circumference and tone.

DISCLAIMER

The vendors, family, sale staff and representatives accept no liability for accidents that may occur, although these are rare at sales, any person attending does so at their own risk.

The following is a description of the Annual offering of Yalgoo rams and an explanation of the operation of the sale.

STUD SIRES

Sires used in the Yalgoo Stud are turned over quickly to increase the rate of genetic progress. We believe strongly in the principle that a good sire will quickly make himself redundant through breeding better sons. As a result, a variable number of Yalgoo sires will be available at the annual sale. These sires will be sold under the Helmsman system. The details of how it works are available on the sale day.

FLOCK IMPROVER RAMS

Each year, the entire drop of Yalgoo rams is ranked in descending order of genetic merit on a selection index. The index ranks the rams essentially on net fleece value. The Yalgoo flock improver rams are drawn mainly from the top 40% of the drop, have minimal fault, and will sire above average progeny. These rams are penned and auctioned individually. Yalgoo flock improver rams are preferred by clients wishing to make the biggest and quickest genetic gains in their flocks.

FLOCK RAMS

Yalgoo flock rams are drawn from the top 60% of the drop and are available for paddock sales with performance data.

To be eligible for sale, every Yalgoo ram must:

- Be free of fleece-rot, dermatitis, non-scourable colour and pigment in wool-growing areas.
- ✓ Have acceptable foot conformation.
- ✓ Have scrotal circumference of at least 28cm at sale day.
- ✓ Have firm and springy testicles of equal size and
- Free of abnormalities.
- Be accredited ovine Brucellosis free.
- ✓ Be monitored negative for ovine Johne's disease.
- Be footrot free.
- ✓ Index 170% on Yalgoo Index

Yalgoo Flock 1552

THE YALGOO STUD

was founded in 1947 on ewes descended from the original Ohio Flock which trace back to sheep imported from WA Grubb, Scone, Tasmania, in the 1880's. For the last 45 years, mainly Yalgoo Sires have been used in the Stud.

RANKING RAMS ON THE SELECTION INDEX

The great advantage of a selection index is that it combines all the economically important traits into a single ranking. That is, where the ram stands in relation to all the rams in his drop. THE YALGOO MERINOS SELECTION INDEX is based on estimated progeny values (ASBV's) rather than the direct performance of the ram himself. Advice from geneticists is that the ASBV rank is the best estimate of an animal's genetic merit for those traits included in the index.

This is similar in many respects to the ASBV system in beef cattle breeding and takes into account the performance of the ram's close relatives including sire, dam, and half brothers and sisters. Most sheep breeders realise that sometimes rams that are ranked highly on the basis of their own individual measurements do not perform to expectations. That is they do not breed progeny as superior as they are. Although these rams are the exception they still occur and if the accuracy of selection can be improved by taking into account their likely breeding performance, then more progress can be made. Therefore the information that we supply will include an index ranking on ASBV's.

ADDITIONAL MEASUREMENTS

In addition to the economically important traits all Yalgoo Merino's sires and sale rams are independently appraised for secondary characters. These include:

- Face cover

- Testicle tone Pigmentation
- Wool quality

Of these, we include foot conformation scores, testicle tone scores and scrotal circumference measurements in the sale catalogue.

Foot Conformation – For a range of reasons, we believe it is important for merino sheep to have well conformed feet. Yalgoo merinos are scored as follows:

- Ideal conformation with no visible signs of distortion Score 1
- Score 2 Mild distortion in one or more feet. May require trimming each year pre-mating.
- Moderate distortion. Should be trimmed pre-mating. Score 3
- Score 4 Unacceptable, culled.

Testicle Tone – Research has shown a 98% correlation between testicle tone and semen quality. Yalgoo rams are scored as follows:

- Very firm and springy. Likely to have excellent semen. Score I
- Score 2 Firm and springy. Likely to have very good semen.
- Soft and flabby. Semen may be suspect. Semen test if
- the ram is to be individually mated.
- Very soft and flabby. Unacceptable, culled. Score 4

Scrotal Circumference - Research has also shown that a minimum scrotal circumference is required to be mated to at least 50 ewes. This is 28cm, as measured by a scrotal tape.

All Yalgoo rams failing to measure 28cm as one year olds are culled. There is no biological advantage for rams having testicles that measure in excess of 36cm

- · At the same time as the testicle tone is assessed and measurements taken, the testicles are palpitated for signs of injury or disease with any detectable abnormality resulting in immediate culling.
- · Yalgoo is an accredited Brucellosis free stud.

ADDITIONAL NOTES:

Y: Yalgoo Sires

RP: Roseville Park

N: Nerstane TL: Turkey Lane

AND: Anderson

INDEX RANK - Lots ranked by FP+ & Y-7/15

CFW% - Clean Fleece Weight percentage FD um (dev) - Fibre Diameter (deviation)

CV% - Co-efficient of variation of Fibre Diameter percentage (dev.)

BWT% - Body Weight percentage

First and Foremost, Yalgoo has and will always be predominately a commercial merino enterprise. We are basically commercial breeders that wanted to put as much pressure on commercially relevant traits to enhance our commercial ewe base, using all means possible. For the best part of the last 5 decades we have been concentrating on the objective and measurable traits that make wool growers money. The good news for our clients is that we haven't been distracted by intangible traits and fads that hinder genetic progress. This ensures that genetic progress is both measurable and assured

Yalgoo has been measuring and selecting based on economically important traits for 41 years. In the first 25 years the Yalgoo flock went from a 21 micron flock to a 19 micron flock. Wool cuts stayed predominantly around the 4-5kg mark and body weights were fairly stagnant. Wool quality and structural traits were also improved. With the limiting technology and breeding tools available this was considered rapid genetic progress.

PRESENT

In 1997 Yalgoo were amongst the first to embrace sheep breeding values. Yalgoo was a 19 micron flock cutting 5kgs of wool. In this new era of sheep breeding, breeders were able to set flock goals and benchmarks. Grant insisted that it was possible to aggressively reduce micron without sacrificing major economic traits like body size, fleece weight and fertility. Whilst ensuring wool and structural traits were improved. In the ten years that followed, the Yalgoo flock average was reduced from 19 micron to 16.3 and eventually to its current 15.8 micron. Fleece Values have gone from \$73 to \$101.20 over the same period. (*Based on prices supplied by Elders 17/6/11: 2200 c/kg 16.3 micron wool and 1500c/kg 18.3 micron wool)

Wool cut, fertility and body weight remained constant up until 2008. Fleece weights have risen exponentially in the past three years with a renewed focus. We are now at the stage where we are throwing up 15 micron rams that are in the top 1% of the breed for fleece weight.

FUTURE

As has always been the case, our goals are based around the commercial performance of our ewe flock. The stud is purely the vehicle in which to reach these goals. In the next ten years we believe the Yalgoo commercial ewe flock will be a 15 micron flock cutting 7kgs of wool. Wool quality and animal conformation will remain an integral part of the Yalgoo package. These are ambitious goals, however the genetic progress we have made in the last 10 years, suggests they are attainable. We invite you come along for the ride.

Yalgoo is an Accredited Brucellosis Free Flock and has a flock status of MN3 for Johne's disease.

Inspection: Prior to sale by appointment. Sale day from 9.00am.



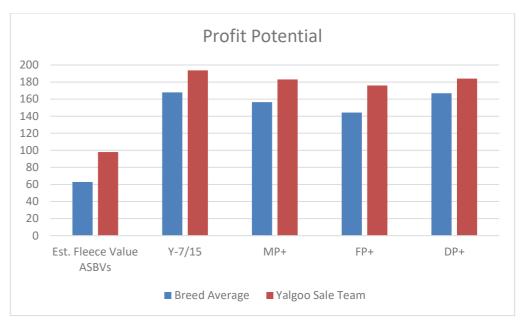
Elders Walcha Paul Jamieson Tom Henry John Newsome Allan Laurie

02 6774 2600 0428 667 998 0409 659 877 0428 669 498 0455 821 394 0409 272 490

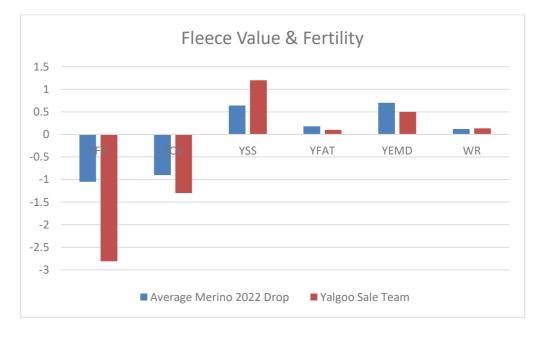


Nick Hall 0436 449 033

Yalgoo Sale Team vs Merino Average





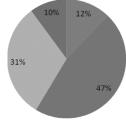


Welcome to the Yalgoo 7/15 index

"The enduring aspect of this index is that it was solely designed for profit. It delivers more fleece value than any other index and is based on profitability per/ha not per hd. It simply removes the noise surrounding profitability"

What?

The 7/15 index is custom designed to move our commercial flock as quickly as possible towards a flock that will cut 7kgs of 15 micron. The following chart demonstrates the weighting of the relevant traits that comprise the index.



Yalgoo 7/15

Body Weight 12% Clean fleece weight 47% Fibre diameter 31%

Staple Strength 10%

Why?

We identified our major profit driving traits and have decided to increase genetic progress in these traits as rapidly as possible by building an index around them. These traits in order of importance in the medium term for our flock are:

- 1. Clean Fleece Weight
- 2. Fibre Diameter
- 3. Body Weight
- 4. Staple Strength

The default indexes that the industry are offering have some traits in them that we believed were dispensable at the behest of increasing the percentage of these major economic traits.

For example one of the indexes has curvature in it. We believe that this is an arbitrary trait that may or may not increase price of wool received. The latest research has shown that there is little difference in the processing qualities of high frequency crimping wool to low frequency crimping wool . In fact if anything the bolder wool processed better.

CV is the other trait that makes up a significant proportion of the default indexes. Due to the strong correlations with Staple Strength we decided to leave CV out of the index. CV will also be controlled through sire selection and we will monitor the affect the index has on flock CV yearly. Overall on balance it was decided to leave CV out to gain more fleece weight and fibre reduction.

Net Lambs Weaned is the other trait that makes an appearance in the default indexes. This is basically a fertility trait that is directly extrapolated from body weight information. By incorporating body weight into our index we are directly increasing fertility.

The key message to understand is that the more traits that you apply to an index: the slower the genetic progress will be in each of these traits! This is why we have concentrated on what we believe are the major profit drivers.

EFFECT

Our commercial wool clip in 2012 averaged 15.8 micron. Our adult commercial ewes (BW:50kg) are cutting 4.8kg of 16 micron. Our 2009(BW:60kg) drop wethers cut 5.5kg of 15.9 micron wool. This is the base from which the Yalgoo index has been worked out from. The predicted genetic response in ten years are displayed above:

Trait	Predicted Response in
	Yalgoo Flock in 10yrs
YWT	1.4 kg
AWT	0.8kg
YCFW	10.5 %
ACFW	11.4%
YFD	-0.7 microns
AFD	-0.8 microns
YCV	0.15%
ACV	0.30%
YSS	1.74 newtons
ASS	0.78 newtons

IMPORTANT NOTE

These genetic responses are conservative because they don't incorporate any other flock management strategies you might be implementing to reach flock goals. For example you may be indexing your commercial ewe base as well as your ram breeding core. Therefore more selection pressure is being applied and genetic progress increases.

Other factors that may increase genetic progress are the amount of data being collected and the flock linkage.

Incorporating the other management strategies used at Yalgoo, we have been advised by geneticists that our rate of genetic gain should be much higher than the predicted response shown above.

FAQs

Q: "Why are there no carcase or WEC traits included in the index?"

A: Once again the more traits that you apply to an index: the slower the genetic progress will be in each of these traits.

The carcase value of a merino ewe in a wool growing enterprise as a percentage of its lifetime income is only around 15%. This income is also 100% derived from body weight. No wool enterprise that I know, is being paid on a grid for the carcase characteristics of their ewes or wethers. Therefore by using the Y-7/15 index we are still increasing carcase value by increasing body weight, through its inclusion in the index and because of BW's high correlation to CFW.

To move WEC negatively enough to have a significant economic bearing in terms of reduced drenching costs, the index would have to be strongly weighted towards WEC. This reduces the amount of genetic pressure we can put on the key profit driving traits. WEC is being controlled through sire selection and ensuring only proven resistant rams are infused into the flock.

Q: "What will happen to my flock if it doesn't mirror Yalgoo's starting base flock?

A: If your flock is considerably stronger and you start selecting Yalgoo rams on the Y-7/15 index you will still experience a rapid reduction in micron. This is because our base micron is still extremely low and the rams being sold will still be genetically fine.

Also the fact that this index is heavily based on fibre diameter reduction means that the high indexing rams are generally the finer sheep. They will just have higher GFW.

Simply speaking if you select Yalgoo rams on the Y-7/15 index your flock will end up mirroring our current flock. When it reaches that level, it will then head towards the 7-15 goal.

Q: "Why is 15 micron used as a flock goal?"

A: We have used 15 micron as a flock goal for a few reasons.

- 1. Research shows that 15 micron fabric has ideal processing qualities. Therefore comparative premiums should logically be most pronounced at around 15 micron. A 15 micron flock average, means that we will still have large quantities of sub 14 micron wool to capture any niche premiums.
- 2. By only having to decrease flock micron by 0.8 we can put more emphasis on increasing fleece weight.

Fibre Production Plus Index FP+

Although the Y 7/15 index is now driving genetic progress within the Yalgoo flock, we have included the Fibre Plus Index so you can compare the genetic merit of our sale rams against the industry as a whole.

You may have noticed that SGA also publish a Fibre Production (FP)index. The only difference is that the FP+ takes more traits into account. So the producers that are measuring a greater variety of traits are having their sheep ranked on the FP+ index as well as the FP index.

Trait	Likely Response	Contribution to economic gain (%)
Fleece weight	+2.8%	11%
Fibre diameter	-1.3 microns	47%
Body weight	+1.1kg	1%
CV of FD	-0.9%	3%
Staple strength	+4.6 N.ktex	29%
Worm egg count	-12%	2%
Curvature	+1.8 Deg/mm	1%
Number of lambs weaned	+3%	6%

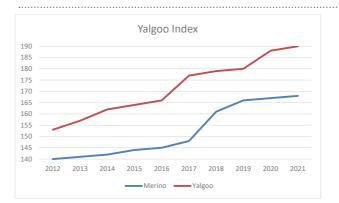
What? "The Fibre Production (FP & FP+) indexes rank animals on their ability to produce merinos for a wool production operation."

Who? "The index is aimed at those producers whose majority of sheep income come from their wool clip. It is for self-replacing merino flocks who keep their wethers as part of their wool producing flock."

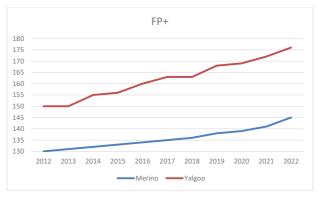
EFFECT

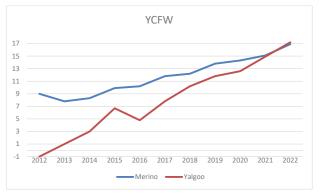
The following table demonstrates the genetic gain a producer would gain by using the FP+ index for 10 years.

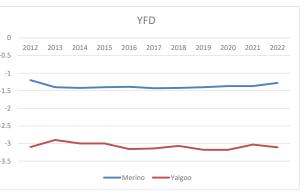
Yalgoo Genetic Trends

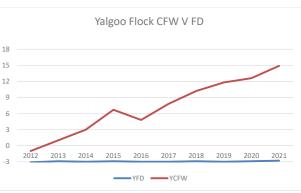






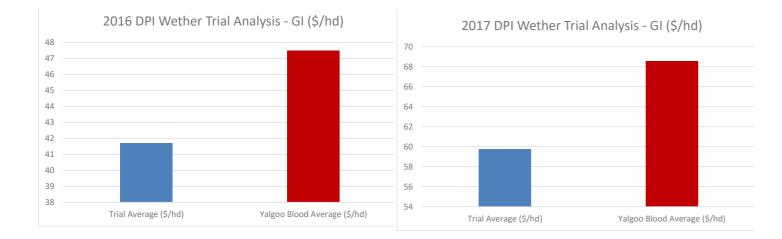


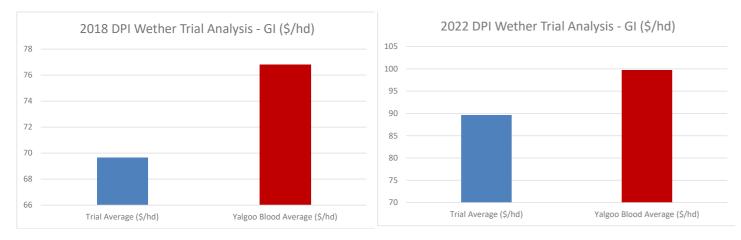


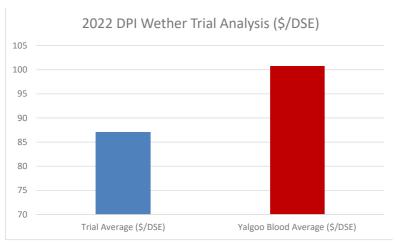


\$ Proven Profitability \$

"Thankyou and congratulations to our valued clients for testing Yalgoo genetics against the industry"







Structural Data 2024

LOT	FACE	PIGMENT	FEET	SCROTAL
				SIZE (cm) 2/11/2023
1	1	2	2	34.5
2	1	1	3	35
3	2	1	3	37.5
4	1	1	2	32
5	1	2	1	35
6	1	2	3	36
7	1	2	2	37.5
8	1	1	2	35.5
9	1	2	2	32.5
10	1	1	1	36
11	1	1	2	35
12	1	1	3	32
13	1	1	1	38
14	1	1	1	35
15	2	1	3	33
16	2	1	3	33.5
17	1	1	1	33
18	1	1	2	34
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35	1	1	2	36
36	1	1	2	30
37	1	1	3	33
38	2	1	1	34.5
39 40	1	1	2	36 34
41		1	3	35
42	1	2	1	32.5
43	1	3	2	37.5
44	2	1	3	33.5
45	1	1	1	33.3
46	1	3	1	34
47	1	1	1	35.5
48	1	1	3	33.5
49	1	1	2	35.5
50	1	1	3	32.5
51	2	1	3	36.5
52	1	1	2	29.5
53	1	3	1	35
54	1	2	3	33
55	1	1	1	33.5
56	1	1	1	29
57	2	1	2	38
58	1	1	3	34.5
59	1	1	3	35
60	3	1	2	37
61	1	1	1	36.5

LOT	FACE	PIGMENT	FEET	SCROTAL
				SIZE (cm)
62	1	1	1	2/11/2023
63	1	1	3	37.5 33.5
64	1	2	3	34
65	2	1	1	36
66	1	1	3	35.5
67	1	1	1	35
68	1	1	1	35 *
69	2	1	2	35
70 71	2	2	2	34.5 35.5
72	2	1	1	31
73	2	1	2	36
74	1	1	2	33
75	1	1	2	33
76	1	1	3	31
77	2	2	1	37.5
78 79	1	1	3	35 35
80	1	1	1	38
81	2	1	3	32.5
82	1	2	2	42
83	1	1	1	34.5
84	2	1	3	34
85	1	1	3	36
86 87	1	2	2	34 29
88	1	1	1	33
89	1	2	3	34
90	1	1	3	31.5
91	1	1	1	36.5
92	1	2	1	32.5
93 94	1	3	1	35 33
95	1	1	3	34
96	1	1	1	30.5
97	2	1	2	32.5
98	1	1	2	29
99 100	2	1	3	33
101	1	2	1	31 34
102	1	1	3	34
103	1	1	3	37
104	1	2	3	33
105	1	2	2	29
106 107	1	2 1	3	33.5 33.5
107	1	1	2	33.5
109	2	1	3	31
110	1	1	3	37
111	1	1	1	35
112	1	1	2	31
113 114	1	1	3	31.5 35.5
115	1	2	2	35.3
116	1	1	2	29
117	1	2	2	33
118	1	1	1	37.5
119	1	1	3	33
120	1	1	1	34
121	1 * meası	1 urement taken 3	2 0/12/23	37 at 1yo

^{*} measurement taken 30/12/23

ГОТ	TAG	GENOMIC P/H	SIRE	YWT	YCFW	YFD	YDCV	YSS	YEMD	YFAT	YWEC	EBCOV	WR	MP+	FP+	, +d0	Y-7/15	Purchaser	₩
-	556	F	AND669	8.9	19.1	-2.5	-2.5	3.0	0.3	0.4	-14	0.28	0.27	194	182	202	194		
2	209	PH	AND669	10.4	35.6	-1.9	-1.1	1.2	-0.2	0.0	83	-0.01	0.25	214	183	219	218		
က	563	PH	TL2042	9.0	31.9	-2.9	0.0	-2.2	-0.5	-0.4	-26	0.04	0.08	189	181	181	206		
4	214	PH	Y1670	1.8	34.6	-3.1	-1.1	-3.0	1.2	0.5	-49	0.19	0.12	195	184	193	203		
5	585	PH	AND669	11.2	24.7	-2.4	-1.5	-1.5	0.0	0.3	-12	-0.23	0.19	191	173	194	196		
9	717	Н	AND669	9.6	26.5	-2.5	-0.7	-0.3	9.0-	-0.4	-47	0.17	0.16	192	178	189	201		
7	180	PH	AND1296	7.3	22.3	-3.1	-0.2	-3.8	9.0	0.5	09-	0.25	0.12	181	171	186	191		
œ	636	ЬР	AND669	10.9	25.9	-2.0	-1.1	1.9	8.0	0.1	-15	0.32	0.2	195	174	206	199		
စ	92	Ŧ	AND1296	3.8	29.4	-2.1	-0.3	2.8	1.2	0.5	-74	-0.03	0.14	192	181	197	199		
10	644	ЬР	AND669	9.6	24.9	-2.5	-3.2	5.4	4.	8.0	-35	0.08	0.18	199	186	207	206		
1	718	Н	AND669	6.6	16.9	-2.2	-2.1	3.9	1.4	9.0	9	-0.21	0.31	195	178	214	192		
12	621	ЬН	RP1133	8.2	31.3	-2.1	-0.7	-1.2	-1.0	-1.3	38	-0.17	-0.04	181	167	173	208		
13	169	ЬР	AND1296	5.5	21.5	-2.1	-1.5	1.5	0.7	6.0	-65	0.03	0.22	182	172	191	180		
4	492	PH	Y17537	2.7	23.5	-3.3	-0.7	2.4	-0.1	-0.2	-49	0.3	0.14	195	191	190	207		
15	478	PH	Y17537	1.1	28.8	-3.5	6.0-	3.4	1.5	0.5	-37	0.39	0.13	210	204	212	226		
16	165	PH	Y20213	1.7	21.5	4.0	0.0	4.6	1.2	9.0	-36	0.37	0.12	180	175	183	191		
17	371	ЬР	Y20629	-1.0	22.6	-3.5	-1.8	4.7	9.0	6.0	-47	0.72	0.02	183	186	175	204		
18	680	ЬР	AND669	9.2	11.6	-2.4	-2.1	0.1	9.1	1.2	ဇှ	0.05	0.26	173	161	194	171		
19	80	PH	Y19306	3.1	16.8	-3.0	-2.0	9.9	1.3	0.5	6	0.32	0.17	191	183	194	197		
20	635	ЬР	AND669	8.5	24.0	-1.7	-1.7	6.5	1.5	1.4	7	-0.29	0.19	190	173	203	194		
21	699	ЬР	AND669	7.8	27.3	-2.5	-1.9	5.9	0.2	0.1	က	90.0	0.24	215	196	221	222		
22	189	Ŧ	Y20204	5.2	19.5	-3.4	-1.8	2.7	1.0	-0.3	-74	0.16	0.17	196	194	201	208		
23	523	PH	Y20550	2.1	20.2	-2.8	-1.6	3.5	6.0	0.8	-21	-0.32	0.12	182	176	180	190		
24	519	PH	Y20550	1.2	22.7	-3.5	-1.6	2.8	-0.8	-0.5	-43	-0.06	0.1	188	183	173	198		
25	352	ЬР	Y20629	1.2	16.7	-3.3	-1.7	2.4	1.5	9.0	6-	0.36	0.2	186	180	195	193		
Bre	Breed Average	ge		6.9	17.5	7.	6.0-	9.0	0.7	0.2	-19	-0.14	0.12	159	146	167			

Top 30%

LOT	TAG	GENOMIC P/H	SIRE	YWT	YCFW	YFD	YDCV	YSS	YEMD	YFAT	YWEC	EBCOV	WR	MP+	Ŧ.	DP+	Y-7/15	Purchaser \$	
26	279	Ŧ	N404	5.8	15.7	-4.3	-0.4	4.8	1.0	9.0	-27	-0.29	0.09	179	174	181	195		
27	550	РН	AND669	8.8	28.6	-2.4	-2.3	0.9	0.2	-0.3	-34	-0.06	0.2	209	195	211	220		
28	350	HH	Y19110	5.8	23.3	-2.1	-2.0	4.7	0.5	-0.2	-52	-0.04	0.17	191	179	194	198		
29	268	ЬР	AND669	10.0	18.9	-2.2	-1.6	1.	0.5	-0.2	-33	0.01	0.18	181	168	189	186		
30	572	ЬН	RP1133	8.2	29.9	-2.4	-0.4	4.0	-0.7	-1.2	6	-0.27	-0.03	184	171	173	209		
31	233	ЬН	N404	7.6	24.9	-3.0	-2.0	-3.0	0.3	1.0	-34	-0.81	0.12	189	177	189	199		
32	305	ЬН	Y1670	6.0	27.7	-3.1	-1.2	-3.3	-2.3	-1.5	-44	0.13	-0.01	176	169	152	196		
33	314	Ŧ	N404	3.2	31.5	-2.8	-0.2	1.4	-0.8	-0.7	-18	0.06	0.04	186	175	177	205		
34	331	РН	Y20629	0.4	21.1	-2.2	-2.1	7.5	0.4	4.0	-30	0.24	0.1	184	182	161	198		
35	524	ЬН	Y20550	-0.1	19.6	-3.4	-1.5	1.1	0.2	0.0	-30	-0.09	0.2	186	178	181	189		
36	340	ЬР	Y20629	-0.2	24.3	-2.3	-1.5	7.8	1.1	6.0	-14	0.29	0.16	193	185	193	200		
37	6	Ŧ	Y19306	3.4	22.1	-3.9	-0.9	-2.6	-0.1	0.0	-15	0	0.18	199	189	196	208		
38	221	ЬН	Y1670	2.1	25.3	-3.2	-0.7	-3.7	0.2	-0.5	-55	0.47	0.15	188	182	188	197		
39	422	РН	Y20629	3.0	28.4	-2.5	-0.5	1.5	0.7	-0.2	-38	0.09	0.09	190	177	189	199		
40	681	ЬН	AND669	3.6	19.3	-2.5	-2.2	2.9	0.4	9.0	0	0.47	0.17	182	172	183	185		
41	559	ЬР	AND669	7.7	20.1	-1.8	-1.9	2.9	1.0	8.0	2	-0.24	0.18	179	167	191	185		
42	91	РН	AND1296	3.1	28.5	-1.8	9.0-	4.1-	1.4	9.4	-52	0.16	0.02	164	155	165	172		
43	86	РН	Y20204	3.2	15.8	-3.1	-2.3	3.7	1.	0.2	-55	0.21	0.14	179	178	184	189		
44	349	王	Y19193	4.4	18.6	-2.7	-1.4	0.2	1.6	-0.1	-59	-0.05	0.24	189	182	203	193		
45	176	王	Y20204	5.4	18.9	-3.4	-0.5	-1.2	-1.3	-0.5	-50	0.41	0.16	185	181	178	198		
46	255	王	Y19110	6.5	24.8	-1.7	-0.9	5.1	4.	0.0	-47	0.11	0.1	184	172	192	197		
47	641	РН	AND669	5.5	27.3	-2.3	-1.4	1.5	0.5	1.4	2	0.14	0.18	191	175	194	195		
48	325	ЬР	Y19193	2.9	10.3	-3.3	-2.5	4.	2.8	1.3	-15	0.17	0.11	169	169	179	179		
49	632	РН	RP1133	6.8	9.4	-2.8	-2.4	2.4	1.9	9.4	-26	-0.31	0.27	184	177	203	186		
20	280	Ŧ	N404	12.1	20.8	-1.8	-1.7	0.0	-0.4	-0.3	-38	-0.59	0.14	178	165	182	191		
Bre	Breed Average	lge		6.9	17.5	-1.1	-0.9	9.0	0.7	0.2	-19	-0.14	0.12	159	146	167			

LOT	TAG	GENOMIC P/H	SIRE	YWT	YCFW	YFD	YDCV	YSS	YEMD	YFAT	YWEC	EBCOV	WR	MP+	FP+	DP+	Y-7/15	Purchaser	\$
51	657	ЬР	AND669	9.7	18.7	-2.2	-2.3	1.5	1.6	0.5	17	0.13	0.28	190	171	206	186		
52	2	PH	Y19306	6.0	11.4	-2.4	-0.7	0.3	0.7	0.7	-46	-0.47	0.24	178	171	191	179		
53	435	РН	Y19110	6.1	27.0	-2.1	-1.3	4.0	8.0	-0.4	-42	0.47	0.09	189	177	192	203		
54	574	PH	TL2042	2.4	26.6	-2.8	-0.7	-0.5	-0.2	0.3	-28	0.26	0.03	177	173	167	196		
55	253	РР	Y1670	3.1	22.8	-3.2	-1.5	-2.7	0.0	-0.4	-20	0.11	0.09	178	172	174	190		
26	394	РН	Y19110	2.8	15.5	-2.9	-1.8	4.0	1.3	6.0	-51	0.23	0.17	189	187	195	200		
22	615	PH	TL2042	5.6	17.3	-3.2	-1.4	-1.2	0.2	1.0	-49	0	0.02	169	170	163	190		
28	128	壬	AND1296	3.7	18.6	-3.2	-0.3	-1.6	-0.4	-0.4	-70	0.22	0.15	178	175	175	187		
29	213	ЬН	N404	7.1	19.8	-2.7	0.7	-3.9	8.0	-0.1	30	-0.42	0.09	172	156	179	184		
09	631	ЬН	RP1133	6.4	17.3	-3.5	-0.4	-1.1	-0.3	-0.8	-23	-0.03	0.1	185	178	179	200		
61	809	ЬР	AND669	8.4	22.8	-2.7	-2.9	8.1	1.0	1.2	-23	-0.1	0.13	195	183	196	205		
62	665	PH	TL2042	2.6	11.6	-2.9	-2.1	1.3	1.5	1.0	-35	90.0	0.07	166	169	169	180		
63	592	PH	RP1133	6.5	22.2	-2.6	6.0-	1.1	0.5	0.3	-5	0.02	0.06	181	172	181	194		
64	227	FH	Y1670	-1.7	25.1	-2.7	-0.4	1.5	1.7	6.0	-65	0.2	0.13	183	179	186	189		
65	504	壬	Y17537	5.6	12.9	-3.0	-1.3	1.5	0.1	-0.2	-36	0.2	0.18	183	179	183	191		
99	133	壬	Y20204	2.6	19.2	-2.1	-1.8	9.9	9.0	-0.5	-32	-0.21	0.16	185	180	187	194		
29	216	PH	N404	1.7	24.7	-3.3	0.3	-5.1	0.0	9.0	-36	0.07	0.19	185	173	183	184		
89	329	壬	Y19110	9.8	14.1	-2.5	-1.7	2.6	1.0	-0.7	-73	-0.07	0.2	179	171	192	185		
69	262	壬	N404	1.7	16.1	-3.4	-1.3		-0.4	0.0	-24	0.51	0.21	183	177	178	186		
70	634	F	AND669	6.5	26.4	-2.1	-1.7	3.3	-0.2	-0.2	-45	0.25	0.11	194	184	192	210		
71	182	Ŧ	AND1296	8.8	22.4	-2.2	-1.6	3.7	9.0	-0.1	-75	-0.18	0.13	182	173	186	192		
72	576	壬	Y19110	5.3	19.6	-2.6	4.1-	2.9	4.0	-0.2	-61	0.42	0.2	190	181	195	196		
73	257	풒	N404	7.1	18.9	-2.7	-0.1	-1.6	-0.2	-0.2	4	0	0.11	179	167	179	194		
74	320	풒	Y19193	3.7	16.6	-3.3	-1.6	-0.4	0.0	-0.4	-50	9.0	0.04	176	180	173	200		
75	423	풒	Y19193	2.5	20.3	-3.0	-2.0	1.6	1.3	-0.3	4	0.03	0.12	185	183	189	198		
Bre	Breed Average	ЭĠ		6.9	17.5	<u>+</u>	6.0-	9.0	0.7	0.2	-19	-0.14	0.12	159	146	167			

Top 5%
Top 30%

| 201 | 196 | 192 | 192 | 186 | 198 | 197 | 175 | 185 | 175 | 185 | 206

 | 186 | 183
 | 201
 | 196 | 199 | 202
 | 176 | 187 | 192
 | 199 | 193 | 190 | 185 | |
|--------|--|--|---|---|---|---|--|--|--|---
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---|--|--|--
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--|--|--|---
--|---|---|---|---|
| 191 | 169 | 165 | 197 | 176 | 167 | 176 | 189 | 169 | 154 | 156 | 163

 | 174 | 190
 | 180
 | 171 | 197 | 173
 | 191 | 192 | 170
 | 185 | 165 | 187 | 181 | 167 |
| 187 | 179 | 171 | 178 | 175 | 162 | 176 | 172 | 171 | 166 | 167 | 179

 | 173 | 169
 | 180
 | 172 | 187 | 169
 | 173 | 171 | 173
 | 177 | 174 | 174 | 165 | 146 |
| 193 | 179 | 177 | 187 | 179 | 175 | 174 | 176 | 172 | 163 | 164 | 181

 | 176 | 177
 | 184
 | 179 | 189 | 180
 | 181 | 188 | 174
 | 180 | 173 | 183 | 177 | 159 |
| 0.23 | 0.07 | 90.0 | 0.21 | 0.22 | -0.01 | 0.02 | 0.24 | 0.11 | 90.0 | 0.02 | -0.01

 | 0.11 | 0.18
 | 0.09
 | 0.06 | 0.2 | 0.03
 | 0.27 | 0.23 | 0.05
 | 0.07 | 0.05 | 0.16 | 0.14 | 0.12 |
| 0.28 | 0.52 | 0.38 | -0.26 | 0 | 0.01 | 0.15 | 0.21 | -0.24 | -0.19 | 0.1 | 0.52

 | 0.45 | -0.15
 | 0
 | -0.12 | 0.02 | 0.06
 | -0.05 | 0.03 | 0.47
 | 0.03 | 0.34 | 0.12 | -0.09 | -0.14 |
| -64 | -32 | 24 | 15 | 24 | 30 | -40 | -25 | -38 | -71 | -35 | 10

 | -38 | -12
 | -11
 | -26 | 09- | 32
 | -23 | က | -13
 | -49 | 6 | -29 | 8 | -19 |
| -0.8 | -0.3 | 9.0 | 0.2 | 9.0- | -1.1 | 0.4 | 0.7 | -0.5 | 0.2 | -0.7 | 9.0-

 | -0.1 | 1.0
 | -0.1
 | -0.4 | 0.2 | -0.4
 | 1.7 | 0.0 | -0.3
 | -0.2 | 9.0- | 9.0 | 0.5 | 0.2 |
| -1.1 | -0.2 | -0.7 | 1.3 | -0.4 | -0.8 | 1.4 | 1.8 | -0.3 | -0.7 | -0.3 | -0.5

 | 0.7 | 1.9
 | 0.1
 | 9.0- | 1.1 | -0.2
 | 1.4 | 0.5 | 0.5
 | 1.3 | 0.0 | 6.0 | 0.5 | 0.7 |
| 4.7 | 1.2 | 0.0 | 1.6 | -2.4 | 3.9 | -1.4 | 4.0 | -0.3 | -2.8 | -2.3 | 5.0

 | 2.5 | 3.5
 | 2.6
 | -4.3 | 4.1 | -0.5
 | 0.8 | 0.5 | 6.8
 | -0.4 | 3.7 | -1.8 | 3.6 | 9.0 |
| -1.8 | -1.3 | -0.7 | -2.7 | -1.4 | 4.1- | -1.6 | -1.2 | -0.9 | -0.9 | -0.2 | -0.8

 | -2.2 | -1.8
 | -1.2
 | -1.2 | -2.4 | 0.0
 | 9.0- | -0.4 | -3.3
 | -1.2 | 9.0- | -0.5 | -2.1 | 6.0- |
| -2.4 | -3.4 | -3.0 | -2.9 | -4.3 | -1.2 | -3.8 | -2.8 | -3.0 | -2.8 | -4.0 | -3.1

 | -3.0 | -2.5
 | -2.9
 | -3.1 | -3.2 | -2.7
 | -3.3 | -2.2 | -2.4
 | -3.0 | -2.9 | -3.0 | -1.8 | 7.7 |
| 15.2 | 20.6 | 23.3 | 15.1 | 7.7 | 25.5 | 12.4 | 11.8 | 14.9 | 19.5 | 11.5 | 23.5

 | 14.6 | 15.7
 | 16.1
 | 21.7 | 14.4 | 23.0
 | 12.6 | 22.9 | 17.7
 | 18.2 | 13.0 | 23.8 | 18.2 | 17.5 |
| 6.7 | 0.0 | 1.8 | 8.4 | 5.0 | 7.1 | 8.9 | 3.3 | 2.4 | 0.4 | 2.6 | -0.8

 | 3.5 | 5.7
 | 5.6
 | 8.9 | 0.7 | 3.9
 | 1.8 | 2.7 | 2.0
 | 5.5 | -0.2 | 3.4 | 8.1 | 6.9 |
| Y19110 | Y20204 | Y17537 | RP1133 | Y19306 | RP1133 | TL2042 | Y19193 | Y1670 | TL2042 | Y18002 | Y17537

 | Y19193 | AND669
 | RP1133
 | TL2042 | Y19193 | N404
 | Y20213 | N404 | Y1670
 | Y19193 | Y20587 | N404 | AND669 | |
| 王 | Ŧ | Ŧ | H | 壬 | ЬН | ЬН | ЬН | ЬН | ЬН | ЬН | ЬР

 | ЬН | РР
 | ЬН
 | ЬР | ЬН | HH
 | РР | H | ЬН
 | PP | HH | 壬 | РР | de |
| 620 | 105 | 489 | 589 | 23 | 614 | 617 | 322 | 235 | 566 | 661 | 512

 | 388 | 673
 | 672
 | 663 | 20 | 206
 | 162 | 236 | 313
 | 472 | 369 | 232 | 693 | Breed Average |
| 92 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 98 | 87

 | 88 | 88
 | 06
 | 91 | 92 | 93
 | 94 | 92 | 96
 | 97 | 86 | 66 | 100 | Bre |
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199 199 199 199 199 199 199 199 199 199 199</th><th>489 HH Y19110 6.7 15.2 2.4 1.1 0.8 64 0.28 6.2 0.29 1.1 0.8 64 0.28 0.2</th><th>620 HH Y19110 6.7 16.2 -2.4 -1.1 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 0.0 -0.7 -0.3 -0.2 -0.2 -0.3 0.0 -0.7 -0.3 -0.3 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.3 -0.</th><th>620 HH Y19110 6.7 15.2 2.4 4.1 4.1 4.0 6.4 0.2 6.2<</th></td<></th> | 620 HH Y19110 6.7 15.2 2.4 1.8 4.7 -1.1 -0.8 -64 0.28 0.23 192 187 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 187 181 188 187 181 188 188 187 188 189 187 188 189 187 188 189 187 188 189 187 189 188 189 187 189 188 189 | 620 HH Y19110 6.7 15.2 2.4 -1.1 -0.8 64 0.28 0.23 193 197 191 191 191 191 192 105 -1.3 1.2 -0.2 -0.3 -32 0.52 0.07 179 | 620 HH Y19110 6.7 15.2 2.4 4.1 4.7 4.1 0.8 -64 0.28 0.23 193 187 191 499 HH Y20204 0.0 20.6 3.4 4.13 1.2 -0.2 -0.3 -22 0.07 171 16 1.3 0.2 15 0.05 0.7 171 16 1.3 0.2 15 0.02 0.0 <td< th=""><th>620 HH Y19110 6.7 15.2 2.4 -1.1 -0.8 -64 0.28 0.23 49 187 19.1 499 HH Y20204 0.0 20.6 -3.4 -1.3 1.2 -0.2 -0.3 -32 0.62 0.07 17 17 165 589 PH RP1133 8.4 15.1 -2.2 1.6 1.3 0.2 1.5 0.26 0.7 17 165 23 HH Y19306 5.0 7.7 4.3 -1.4 2.4 0.6 2.4 0.6 2.4 0.7 0.0 0.7 0.0 0.7 0.8 2.4 0.6 1.7 17 165 175 175 176 175 176 175 176 176 175 176 176 176 177 171 176 176 176 176 176 177 171 176 176 176 176 176</th><th>620 HH Y19110 6.7 15. -2.4 -1.1 -0.8 64 0.28 0.23 15. -1.1 -0.8 64 0.28 0.20 10.2 -0.2 -0.3 -32 0.52 0.07 179 179 189 199</th><th>489 HH Y19110 6.7 15.2 2.4 1.1 0.8 64 0.28 6.2 0.29 1.1 0.8 64 0.28 0.2
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Purchaser																							
Y-7/15	183	193	184	179	211	190	193	176	207	192	164	191	184	189	192	206	185	164	192	165	186		
DP+	195	185	172	171	184	170	179	153	205	175	143	192	166	191	172	195	178	169	169	162	184	167	
Т	168	183	170	162	195	171	176	160	189	175	157	177	170	180	176	192	176	162	175	159	172	146	
MP+	181	183	170	164	189	172	180	167	202	179	153	182	171	185	178	199	176	164	178	162	178	159	
WR	0.21	0.15	0.11	0.07	0.09	0.03	0.08	0.07	0.22	0.14	90.0	0.18	0.07	0.19	0.07	0.23	0.13	0.2	0.07	0.12	0.16	0.12	
EBCOV	0.1	0.04	-0.19	-0.31	0.24	0.51	0.51	0.13	0.1	0.11	-0.03	0.16	0.23	0.04	0.11	0.44	0.07	-0.01	0.23	-0.15	0.21	-0.14	
YWEC	-34	-45	-25	-40	-15	-43	-17	-25	6-	-68	-73	-46	-17	-45	-34	-45	-54	-65	-41	-64	-54	-19	
YFAT	0.5	9.0	0.1	-0.5	4.0	0.4	1.0	6.0-	0.2	-0.1	-0.6	1.5	0.0	0.5	4.1-	-0.3	0.7	0.7	0.0	0.3	1.7	0.2	
YEMD	1.1	4.	0.4	1.1	6.0	0.7	1.0	-1.0	0.8	-0.8	-1.0	1.4	9.0	1.1	0.1	-0.7	1.0	0.3	6.1	0.7	1.6	0.7	
YSS	1.8	3.4	2.3	-3.1	5.5	-2.5	-1.3	-3.0	3.3	0.4	-3.8	3.8	-0.8	0.5	2.9	5.4	9.4	2.2	0.3	9.0	0.8	9.0	
YDCV	-1.3	-2.9	-2.3	0.0	-2.4	0.1	-0.9	-0.4	-1.0	-1.2	-0.9	-2.3	-1.5	-1.7	-1.5	-1.5	-0.5	-0.8	-1.7	-1.3	0.1	-0.9	
	-2.0	-3.5	-2.9	-3.0	-3.9	-3.9	-3.2	-2.8	-3.3	-2.7	-3.1	-2.4	-3.6	-2.7	-3.2	-3.0	-3.0	-2.4	-2.7	-2.8	-3.1	-1.1	
YWT YCFW YFD	17.2	13.1	9.4	14.2	14.8	16.0	20.6	23.9	20.3	17.6	10.4	15.8	17.7	16.5	17.9	18.9	20.0	11.2	24.3	12.6	20.2	17.5	
ΥW	9.8	3.0	8.8	3.5	-0.1	3.3	2.9	-0.6	4.7	6.3	2.2	4.8	-1.2	4.0	3.5	4.4	7:	2.9	7:	3.8	9.0	6.9	
SIRE	AND669	Y19193	Y18002	Y1670	Y20629	Y18002	RP1133	Y1670	Y19110	AND1296	Y1670	Y20629	Y1670	Y19306	Y20204	Y19110	Y17537	AND1296	Y1670	Y20550	AND1296		
GENOMIC P/H	Ŧ	Ŧ	Н	ЬН	ЬР	ЬН	ЬН	ЬН	Ŧ	ЬН	ЬН	ЬН	ЬН	Ŧ	Ħ	Ŧ	Н	ЬН	Н	Ŧ	Ŧ	e	
TAG	591	359	570	701	357	99	642	564	319	187	228	347	246	7	118	395	505	151	296	518	200213	Breed Average	i
LOT	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	Bree	



Understanding MERINOSELECT ASBVs

Rams with a higher clean fleece weight (CFW) will produce progeny that cut more wool. A ram with an ASBV of 20% will produce progeny that cut 10% more wool than the progeny of a ram with an ASBV of 0.

Animals with lower fibre diameter coefficient of variation (FDCV) ASBVs will genetically have a lower variation in fibre diameter. A higher CV% is often associated with lower staple strength.

Animals with more positive staple strength (SS) ASBVs will, on average, have genetically stronger wool. This ram will, on average, sire progeny with 7.5 N/Kt stronger wool than an average sire.

Rams with a more positive ASBV for eye muscle depth (EMD) produce lambs that have a higher lean meat yield. A ram with an ASBV of 1.0 will breed lambs with 0.5mm more EMD than a ram with an ASBV of 0.

Worm egg count (WEC) ASBVs estimate an animal's genetic potential for resisting worm burdens. Lower WEC ASBVs are desirable. This ram will, on average, sire progeny that have 10% fewer eggs/gram than a ram with an ASBV of 0.

CFW **FDCV** EMD WEC FD SL NLW **INDEX** Trait (N/Kt) (kg) (%) (%) (mm) (%) **ASBV** 4.0 20 -0.80 1.24 15 10 1.0 10 -20 138.6 46 40 46 46 37 45 45 21 45 Acc

Animals with a more positive ASBV for weight (WT) will produce lambs that grow faster and therefore reach target weights in a shorter period of time.

Lower negative fibre diameter (FD) ASBVs are generally desirable. A ram that has an ASBV of -0.8 will produce progeny that are genetically 0.4 microns finer than a ram with an ASNV of 0.

Animals with more positive staple length (SL) ASBVs will, on average, have greater genetic potential for longer fibre length. This ram will sire progeny that grow, on average, 5mm longer wool than progeny of a ram with a 0 ASBV for SL.

Rams with a higher number of lambs weaned (NLW) ASBV will sire daughters that wean a higher percentage of lambs. A ram with an ASBV of 10 will sire daughters who on average will wean 5% more lambs than daughters of a ram with an ASBV of 0

An index is a guide to the value of a ram for a particular market. Rams with higher indexes will produce sheep that are more suited to that particular breeding objective.

• An ASBV of 0 is the average of the 1990 drop.

and Australian Wool Innovation Limited ABN 12 095 165 558

- Note: A useful rule of thumb for converting ram ASBVs into production differences is to simply halve the ASBV (as rams contribute half the genetics of the lamb).
- Accuracy published as a percentage, is a reflection of the amount of effective information that is available to calculate the ASBV. All ASBVs are now published with accuracies. The higher the percentage, the closer the ASBV is to the true breeding value of the animal. Breeding values without accuracies are Flock Breeding Values (FBVs) and can only be compared within the flock.

For more Information contact Sheep Genetics Ph: 02 6773 2948 Fax: 02 6773 2707 Info@sheepgenetics.org.au www.sheepgenetics.org.au





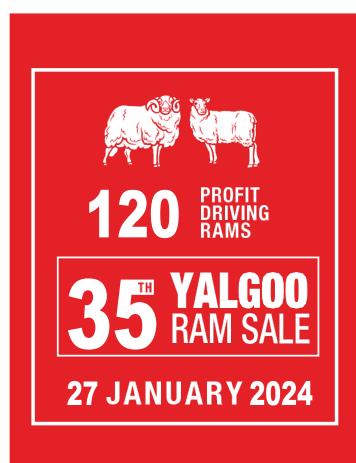
BUYERS INSTRUCTION SLIP

YALGOO RAM SALE Saturday 27th January 2024

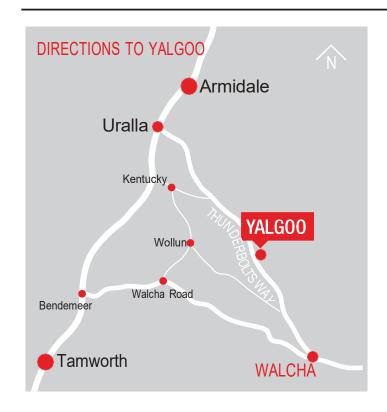
No verbal instructions will be accepted

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concerning the delivery of stock must be given in writing and signed by the buyer or their representative.



- Superior Profit Home of number 1 ranked MP+ and FP+ rams in the industry.
- **2024 Sale rams Value** Top 4% FP+ and 9% MP+
- Extreme Fleece Value Top 4% FD Top 38% YCFW
- ✓ Lower cost of Production White, bright, stylish, weather resistant wool, low WECS and non-mulesed for 10 years
- Maximum accuracy Entire flock genomic tested
- Aggressive program Stud ewes are annually drawn from 4000 +/- indexed hogget ewes





Yalgoo Partnership Jock Nivison 0497 762 977 Grant Nivison 0477 669 228 jock@yalgoogenetics.com.au www.yalgoogenetics.com.au



