



HAZELDEAN

LITCHFIELD

EST 1865



Hazeldean Merinos Riverina Ram Sale 2020

Thursday 15th October
Rosevale, Hay, NSW
Commencing 1pm



HAZELDEAN MERINOS RIVERINA RAM SALE 2020

Inspections from 10am
Thursday 15th October
Rosevale, Hay, NSW
1pm

120 Merinos
Poll & Horn

Enquiries:

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Livestock™

Sale will be interfaced with AuctionsPlus. Videos & photos online 10 days prior to sale plus final weights on Hazeldean and AuctionsPlus websites.



Morning Tea & Lunch provided by Hay Can Assist
Be sure of a catalogue - Bring this one with you
www.hazeldean.com.au

Catalogue can be viewed online on Sheep Genetics Website
and through RAMSELECT



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Dear Merino Breeder,

It is hard to get away from two key issues facing the wool industry at present. Wool prices and mulesing. Many woolgrowers are rolling the two together, looking for sheep that don't need mulesing and opting for plain bodies and low breech wrinkle and tolerating lower fleeceweight. Current low wool prices are encouraging a move in this direction however wool prices will bounce back.

If you believe wool prices will stay permanently depressed then it is probably time to exit the industry and head for the prime lamb market however our experience is that over time, while wool prices are typically volatile, Merino sheep with the right genetics are very profitable.

I think most of us now realise the mulesing issue is not going away so the question boils down to how to deal with it.

Whatever problem we face, we have choices. The choices here are three fold – change genetics, change management or change both. We believe the third option is by far the best. The first option is to immediately select big, plain sheep with barer breaches that require less management but they will also be significantly less profitable. The second option wont see any genetic improvement at all and the third option will continue to improve profitability through using high performance, profit driven Merino genetics whilst gradually reducing breech wrinkle over time. These are the options open to us however it needs to be understood the benefit of the management plus genetic option is way ahead of immediately going out and selecting less productive sheep with a view to overcome the mulesing problem quickly.

There is a strong correlation between low breech wrinkle, plain bodies and low fleeceweight. If you select strictly for plainer bodied sheep you will end up cutting less wool per head unless you select for increased body size and then you will be increasing maintenance costs and running less sheep per hectare, driving down profits.

As with other antagonistic traits like fleeceweight and fibre diameter, curvebenders exist and gains can be made to buck the trend. This is also the case with breech wrinkle and fleeceweight. Our long term clients will agree that our current seedstock flock is not only plainer than they were 20 years ago but are also producing larger quantities of high quality wool. We are working towards plainer sheep with less breech wrinkle all the time but need to keep in mind its impact on the profitability of our own flock and that of our clients. Progress in antagonistic traits is always slow.

The most profitable sheep to run over time are those with moderate mature size but with rapid early growth to yearling. These are the genetics of the Hazeldean type. The rams presented in this catalogue are the best you will find anywhere when all aspects of profitability, including fly control and inclusion in a prime lamb enterprise, are correctly assessed.

Regards,
Jim Litchfield



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Stud History

With the acquisition of Rambouillet and Tasmanian bloodlines, James Litchfield established the Hazeldean Merino Stud in 1865. Occasional introductions based on Riverina Peppins occurred between the 1800's and 1958, when the Stud was closed. In 2000 the stud was reopened to access outside rams that have performed better than Hazeldean rams in Central Test Sire Evaluation and Sheep Genetics evaluation.

Hazeldean is a distinct strain of Australian Merino noted for its constitution, large frame and reputation in bloodline comparison trials, where it consistently demonstrates an ability to turn grass into dollars more effectively than other bloodlines. Hazeldean blood performs at the top in all major wool growing areas of Australia, and generally surpasses all other studs in profitability analyses.

Hazeldean has been under the direction of the Litchfield family for five generations and is one of the nation's oldest studs. It is also the oldest performance-based Merino stud in Australia.

In 1954 the Stud pioneered the adoption of a selection system based on measurable, commercially relevant traits, essential to the maximisation of profitability. The same system, although much enhanced through modern technology, remains the cornerstone of the Stud today.

The Hazeldean Breeding Policy

The special treatment of small groups through shedding and provision of artificial ration is at odds to the philosophy of the Stud. To give accurate and meaningful measurement information, it is necessary to evaluate animals by running them in large contemporary groups under conditions equivalent to those experienced in the world of commercial wool growing. Hazeldean therefore runs its stud operations along the lines of a commercial wool growing and breeding enterprise.

Hazeldean bases its selection decisions and grading for sale on a measurement system that has been in place for many years. Measurement, when applied with common sense, significantly improves the accuracy of selecting for heritable traits of economic importance such as fleece weight and fibre diameter.

Hazeldean Flock Health Status

The Hazeldean flock is assessed under the National Johne's Disease Market Assurance Program and holds a status of Monitored Negative 3 Vaccinated (MN3-V).

The Hazeldean flock is also accredited as Brucellosis free.

Although Hazeldean employs best practice procedures in livestock husbandry and does its best to ensure every animal catalogued for sale is free from disease, internal parasites and external parasites, it does not guarantee that any sale animal is free of disease, internal parasites or external parasites.



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Explanation of Terms Used To Express Measurement Details

An estimation of each ram's genetic worth relative to the average of his contemporaries is provided on each sale lot.

The measurements in the catalogue refer to the Australian Sheep Breeding Values (**ASBVs**) for each animal. An index and rank value are also included.

Australian Sheep Breeding Values (ASBVs):

ASBVs describe the expected performance of a ram's progeny. Although actual measurements of fleece weight, fibre diameter etc are a good guide to the performance of the ram's progeny, adding the measurements of relatives to the calculation allows the likely breeding value of the ram to be more accurately represented.

Accuracy is represented as a percentage and is a reflection of the amount of information that is available to calculate the ASBV.

FD (Dev) - (Fibre Diameter Deviation) - Represents the difference in fibre diameter measurement relative to other animals included in Sheep Genetics evaluation. The measurement is established by assessing a small sample of the fleece taken from the mid-side or the hip of the ram as well as including fibre test information on all relatives tested including brothers, sisters, parents, uncles, aunts etc. A negative figure indicates the ram is estimated to breed finer than average, a plus sign indicates the ram is estimated to breed stronger.

CFW (Clean Fleece Weight) – Rams with a higher clean fleece weight are estimated to produce progeny that cut more wool. Again this is assessed by weighing the fleece of the ram and including fleeceweights taken on all relatives

FDCV% (Co-efficient of Variation of Fibre Diameter)

It is impossible for sheep to have all their wool fibres exactly the same micron – the fibres on a sheep's back vary from fine to strong and the FD measurement is an average of all these fibres. However, some animals have less variation than others and are described as having lower fibre diameter coefficient of variation (FDCV). A lower CV% is often associated with higher staple strength therefore sheep with a small variation about the average are described as having "a good CV". CV is also important as wool can be spun into a finer yarn if it has a low CV.

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



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Index Values

Each sale ram has an index describing its overall value. The index includes the traits of most value in Merino sheep (such as fleece weight and fibre measurement) and puts them together into one figure. This makes selection easier as it removes the need to weigh up fleece weight and fibre measurement independently when selecting rams.

It is also possible to put more emphasis on reducing fibre diameter, increasing fleece weight (or vice versa) or improving any other characteristic through the use of an index. This can be done by applying different weightings to each trait when calculating the index.

For example, as Hazeldean wishes to reduce fibre diameter at a faster rate than lifting fleece weight, we place a 7% premium on the value of fibre diameter in the calculation of our index. We also want to improve staple strength. Because Co-efficient of Variation (CV%) is correlated to Staple Strength, the Hazeldean Index places emphasis on lower CV% as a means to improve this trait.

Index Value's in this catalogue therefore represent each ram's combined performance for all measured traits plus information gathered on all measured relatives.

Information from Relatives

We all know that some rams will breed worse than they appear and some will breed better. This is either due to the influence of environment or genetics.

In the instance of **environment**, for example, rams that spend their entire lives in the ram shed and fed special rations each day are more likely to breed worse than they appear whereas rams who are weaned early, spend their first year in drought and go without a drop of TLC from then on are more likely to breed better than they appear.

In the instance of **genetics**, a high performing ram coming from a long line of high performing animals is more likely to breed better than a high performing ram coming from a line with low performing animals in it. If information on relatives (brothers, sisters, aunts, uncles, grandparents as well as sire and dam) is included in the assessment of an animals index, the likelihood of the ram having an accurate index ranking reflecting his true value, is much enhanced.

Semen Sales

Semen is available from our top sires. Hazeldean retains semen rights on all rams unless otherwise agreed upon, according to Hazeldean Semen Terms & Conditions on the website. www.hazeldean.com.au

A current list of our semen sires is available on our website: www.hazeldean.com.au on our **Merinos page** or contact Jim Litchfield on 02 6453 5555.

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Rebecca Ayres

Managing Partner – South Western NSW
Business Regional & Agri
0410 442 328
Rebecca.A.Ayres@nab.com.au





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The Hazeldean sale rams are amongst the top end of all industry rams. The average ASBV's across the whole sale team are far superior to the industry average for fleece weight, fibre diameter and the FP+, MP+ and DP+ indexes. They will greatly increase fleece weight and improve wool quality.



The spread of breeding values on the rams are industry leading; coupled with the type and style of the rams, they are balanced to boost your bottom line.

*This year's group of Auction rams has an average MP+ index of 177.1 which puts the average of these rams in the **top 5% of industry** as a group.*



Hazeldean Rams cut more wool that is of higher value, on sheep with lower maintenance requirements, giving more profit per hectare.

Rams will be available for private selection following the sale or any other time by appointment.





ASBV and Index Percentile Band Table

Analysis **MERINO** Run date **21-Aug-20**

Animals born in **2019** Count **105292**

| Band | Yfd | Ycfw | Yfdcv | Ysl | Yss | NLW | Ysc | Ywec | Ywt | Yfat | Yemd | Ebwr | Score | DP+ | MP+ | FP+ |
|------|------|-------|-------|-------|--------|-----|------|------|------|------|------|-------|-------|-----|-----|-----|
| | u | % | % | mm | Nktext | % | cm | % | kg | mm | mm | | | | | |
| 0 | -6.0 | 49.4 | -4.4 | 32.2 | 11.6 | 23 | 6.4 | -89 | 17.7 | 2.9 | 4.8 | -1.64 | | 243 | 230 | 207 |
| 1 | -3.3 | 36.1 | -2.6 | 22.4 | 6.6 | 15 | 4.9 | -71 | 12.5 | 2.0 | 3.1 | -1.24 | | 200 | 193 | 177 |
| 2 | -2.9 | 34.0 | -2.4 | 20.8 | 5.8 | 14 | 4.6 | -67 | 11.8 | 1.8 | 2.8 | -1.15 | | 194 | 188 | 172 |
| 3 | -2.7 | 32.6 | -2.2 | 19.7 | 5.3 | 13 | 4.4 | -62 | 11.3 | 1.6 | 2.6 | -1.09 | | 190 | 185 | 169 |
| 4 | -2.6 | 31.6 | -2.1 | 18.9 | 5.0 | 12 | 4.3 | -58 | 11.0 | 1.5 | 2.5 | -1.03 | | 187 | 182 | 167 |
| 5 | -2.5 | 30.8 | -2.1 | 18.1 | 4.7 | 11 | 4.1 | -55 | 10.7 | 1.4 | 2.4 | -0.99 | | 185 | 180 | 165 |
| 10 | -2.2 | 27.9 | -1.8 | 15.8 | 3.7 | 9 | 3.6 | -46 | 9.6 | 1.2 | 2.0 | -0.84 | | 177 | 173 | 159 |
| 15 | -2.0 | 26.0 | -1.6 | 14.2 | 3.1 | 8 | 3.3 | -40 | 8.9 | 1.0 | 1.8 | -0.76 | | 172 | 169 | 155 |
| 20 | -1.8 | 24.4 | -1.5 | 13.1 | 2.6 | 6 | 3.0 | -35 | 8.3 | 0.8 | 1.5 | -0.68 | | 168 | 165 | 152 |
| 25 | -1.6 | 23.0 | -1.3 | 12.2 | 2.2 | 5 | 2.8 | -31 | 7.8 | 0.7 | 1.3 | -0.61 | | 165 | 162 | 150 |
| 30 | -1.5 | 21.8 | -1.2 | 11.3 | 1.8 | 5 | 2.6 | -27 | 7.3 | 0.6 | 1.1 | -0.54 | | 162 | 159 | 147 |
| 35 | -1.4 | 20.7 | -1.1 | 10.6 | 1.5 | 4 | 2.4 | -23 | 6.9 | 0.5 | 1.0 | -0.48 | | 159 | 157 | 145 |
| 40 | -1.3 | 19.5 | -1.0 | 9.9 | 1.2 | 3 | 2.2 | -20 | 6.5 | 0.4 | 0.8 | -0.40 | | 157 | 154 | 143 |
| 45 | -1.2 | 18.5 | -0.9 | 9.2 | 0.9 | 3 | 2.1 | -17 | 6.1 | 0.3 | 0.7 | -0.34 | | 154 | 152 | 142 |
| 50 | -1.0 | 17.4 | -0.8 | 8.4 | 0.6 | 2 | 1.9 | -13 | 5.7 | 0.2 | 0.5 | -0.28 | | 152 | 150 | 140 |
| 55 | -0.9 | 16.3 | -0.7 | 7.7 | 0.3 | 1 | 1.7 | -10 | 5.3 | 0.1 | 0.4 | -0.22 | | 149 | 147 | 138 |
| 60 | -0.8 | 15.3 | -0.6 | 7.0 | -0.1 | 1 | 1.6 | -7 | 5.0 | 0.0 | 0.2 | -0.15 | | 147 | 145 | 136 |
| 65 | -0.7 | 14.1 | -0.5 | 6.2 | -0.4 | 0 | 1.4 | -4 | 4.5 | -0.1 | 0.1 | -0.09 | | 145 | 142 | 134 |
| 70 | -0.6 | 12.9 | -0.4 | 5.3 | -0.7 | -1 | 1.2 | -1 | 4.1 | -0.2 | -0.1 | -0.01 | | 142 | 140 | 132 |
| 75 | -0.5 | 11.6 | -0.2 | 4.4 | -1.1 | -2 | 1.1 | 4 | 3.6 | -0.3 | -0.2 | 0.07 | | 139 | 137 | 129 |
| 80 | -0.3 | 10.2 | -0.1 | 3.3 | -1.5 | -3 | 0.9 | 9 | 3.1 | -0.4 | -0.4 | 0.17 | | 136 | 134 | 126 |
| 85 | -0.1 | 8.4 | 0.1 | 2.0 | -2.0 | -4 | 0.6 | 14 | 2.5 | -0.6 | -0.6 | 0.28 | | 132 | 130 | 122 |
| 90 | 0.1 | 6.2 | 0.4 | 0.3 | -2.6 | -5 | 0.3 | 23 | 1.7 | -0.7 | -0.8 | 0.42 | | 127 | 124 | 118 |
| 95 | 0.5 | 2.3 | 0.7 | -2.3 | -3.7 | -7 | -0.1 | 37 | 0.6 | -1.0 | -1.1 | 0.63 | | 117 | 115 | 110 |
| 96 | 0.6 | 1.2 | 0.9 | -3.1 | -4.0 | -8 | -0.2 | 41 | 0.2 | -1.1 | -1.2 | 0.68 | | 114 | 111 | 107 |
| 97 | 0.7 | -0.4 | 1.0 | -4.3 | -4.4 | -9 | -0.4 | 45 | -0.2 | -1.2 | -1.4 | 0.74 | | 110 | 106 | 102 |
| 98 | 0.9 | -2.9 | 1.2 | -6.2 | -4.9 | -10 | -0.6 | 53 | -0.7 | -1.3 | -1.6 | 0.84 | | 102 | 97 | 94 |
| 99 | 1.3 | -9.6 | 1.5 | -9.0 | -5.8 | -14 | -1.0 | 62 | -1.6 | -1.5 | -1.8 | 1.00 | | 87 | 82 | 76 |
| 100 | 3.8 | -37.1 | 3.8 | -20.5 | -10.7 | -42 | -2.9 | 139 | -7.4 | -2.6 | -3.5 | 1.75 | | 4 | 35 | 24 |

HAZELDEAN RIVERINA RAM SALE REFERENCE SIRES 2020

| Visual Id | SONS IN SALE | SGID | Sire | Horri | MP+ | YFD | YCFW | YFDCM | YWWT | YSS | YSL | YFAT | YEMD |
|-----------|--------------------|------------------|----------|-------|-------|------|------|-------|------|------|------|------|------|
| 12004030 | 2 | 5003832012004030 | NR080121 | HH | 199.7 | -1.2 | 41.3 | 0.0 | 4.4 | 3.4 | 16.0 | -0.9 | -1.5 |
| 15003049 | 1 | 5003832015003049 | 11003542 | HH | 181.9 | -2.0 | 19.3 | -0.8 | 2.9 | 3.2 | 1.4 | -0.2 | 0.0 |
| 15003052 | 3 | 5003832015003052 | 11003542 | PH | 197.1 | -1.7 | 26.9 | -0.7 | 6.0 | 3.7 | 7.0 | 0.6 | 1.3 |
| 15003073 | 1 | 5003832015003073 | 11003542 | PH | 200.6 | -1.8 | 41.5 | 0.2 | 6.4 | -2.5 | 9.1 | -0.6 | 0.0 |
| 15003368 | 7 | 5003832015003368 | CP907538 | PH | 187.4 | -1.5 | 30.6 | -1.3 | 11.7 | -0.5 | 10.3 | 0.4 | 1.0 |
| 15003374 | 1 | 5003832015003374 | CP907538 | PH | 192.6 | -2.6 | 31.5 | -0.9 | 8.7 | -2.0 | 11.3 | 0.0 | -0.7 |
| 15003617 | 1 | 5003832015003617 | NR100958 | HH | 178.6 | -1.4 | 26.3 | -0.7 | 5.2 | 1.9 | 10.3 | -1.0 | -1.1 |
| 15003837 | 1 | 5003832015003837 | 12004059 | HH | 164.1 | -2.2 | 26.7 | 0.3 | 3.3 | -6.9 | 4.8 | -0.7 | -2.3 |
| 15003951 | 3 | 5003832015003951 | 12004059 | PH | 162.9 | -1.6 | 30.2 | -0.1 | 4.6 | -8.2 | 10.6 | -0.3 | -1.1 |
| 15004249 | 2 | 5003832015004249 | 13000127 | PH | 171.1 | -2.6 | 30.6 | -0.3 | 2.2 | -4.0 | 8.5 | -0.6 | -1.4 |
| 15004281 | 2 | 5003832015004281 | 13000127 | PH | 178.9 | -3.3 | 26.9 | -0.5 | 1.8 | -2.1 | 4.9 | -1.2 | -1.5 |
| 15004468 | 1 | 5003832015004468 | 12004030 | HH | 189.4 | -1.1 | 35.3 | -0.4 | 4.1 | 1.3 | 10.8 | -0.6 | -0.1 |
| 16000113 | 34 | 5003832016000113 | CP907538 | PH | 213.0 | -2.3 | 36.4 | -1.3 | 8.3 | 5.2 | 12.4 | -0.6 | -1.5 |
| 16001437 | 3 | 5003832016001437 | 11003542 | HH | 198.2 | -2.5 | 32.2 | -0.6 | 2.0 | 2.3 | 3.6 | -0.8 | -0.7 |
| 16001873 | 1 | 5003832016001873 | 12004030 | HH | 168.7 | -2.6 | 18.7 | -0.5 | 4.6 | -3.2 | 7.9 | -0.5 | -0.5 |
| 16002165 | 4 | 5003832016002165 | 12004059 | PH | 177.7 | -2.2 | 32.8 | -0.4 | 6.4 | -4.8 | 6.5 | -0.9 | -0.4 |
| 16002777 | 3 | 5003832016002777 | 13004936 | HH | 192.3 | -1.7 | 35.9 | 0.4 | 2.7 | -1.5 | 9.3 | -0.9 | 0.3 |
| 17000049 | 5 | 5003832017000049 | 11003542 | PH | 199.9 | -2.5 | 30.5 | -0.1 | 6.4 | -1.6 | 5.0 | -0.4 | -0.6 |
| 17000059 | 5 | 5003832017000059 | 11003542 | PH | 192.2 | -1.9 | 26.6 | -0.7 | 4.9 | 4.2 | 6.3 | -0.3 | -0.9 |

HAZELDEAN RIVERINA RAM SALE REFERENCE SIRES 2020

| Visual Id | SONS IN SALE | SGID | Sire | Horri | MP+ | YFD | YCFW | YFDCM | YWWT | YSS | YSL | YFAT | YEMD |
|--|--------------|------------------|-----------|-------|--------|------|------|---------|------|------|---------|------|------|
| 17000276 | 1 | 5003832017000276 | 11003542 | HH | 190.6 | -2.5 | 26.4 | -1.1 | 2.2 | 1.8 | 4.4 | -0.4 | -0.6 |
| 17000328 | 4 | 5003832017000328 | 11003542 | PH | 201.4 | -2.6 | 30.1 | -0.2 | 4.3 | -1.6 | 4.5 | -0.7 | -0.3 |
| 17000434 | 2 | 5003832017000434 | 11003542 | PH | 193.2 | -1.8 | 33.4 | 0.0 | 3.9 | -1.0 | 7.0 | -0.3 | 0.3 |
| 17001967 | 4 | 5003832017001967 | 12004059 | HH | 182.6 | -1.7 | 34.1 | 0.1 | 2.2 | -1.9 | 10.6 | -0.8 | -1.6 |
| 17002025 | 2 | 5003832017002025 | 13004936 | PH | 212.1 | -3.1 | 32.9 | 0.4 | 5.2 | -3.7 | 1.6 | -1.0 | -0.7 |
| 17002043 | 3 | 5003832017002043 | 13004936 | PH | 190.7 | -1.9 | 29.3 | -0.5 | 6.5 | 1.7 | 4.6 | -0.6 | 0.7 |
| BUNDILLA150009 | 1 | 6014352015150009 | BP 121391 | PP | 194.6 | -0.4 | 35.6 | -0.5 | 9.7 | -1.7 | 13.2 | 1.1 | 1.3 |
| BUNDILLA160089 | 22 | 6014352016160089 | CP407185 | PP | 160.0 | -1.1 | 36.7 | 0.3 | 7.0 | -3.5 | 11.8 | -0.4 | 0.3 |
| POOGINOOK14961 | 1 | 6014422014140961 | PGK-1205 | PP | 197.2 | -0.9 | 45.7 | -1.3 | 9.2 | 5.4 | 12.4 | -0.8 | -1.2 |
| HAZ REF SIRES 2020 AVERAGE ASBVS | | | | | | | | | | | | | |
| SHEEP GENETICS AVERAGE ASBVS 2019 DROP | | | | | | | | | | | | | |
| | | | | | 146 | -1 | 14.2 | -0.7 | 5.2 | 0.4 | 8.1 | 0.1 | 0.3 |
| | | | | | top 5% | | | top 10% | | | top 30% | | |



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HAZELDEAN RIVERINA RAM SALE 2020 ASBV SUMMARY

| LOT | Visual Id | Horn | Birth Date | Sire | MP+ | YFD | YCFW | YFDCM | YWT | YSS | YSL | YFAT | YEMD |
|--|-----------|------|------------|----------------|--------------|-------------|-------------|-------------|------------|-------------|------------|-------------|-------------|
| 1 | 19003068 | PP | 22/08/2019 | 17000059 | 180.2 | -1.5 | 27.1 | -1.0 | 6.6 | 0.6 | 10.2 | 0.4 | 0.0 |
| 2 | 19001222 | PP | 22/08/2019 | 15003368 | 171.2 | -1.6 | 22.6 | -1.3 | 7.6 | -0.5 | 6.2 | 0.4 | 0.7 |
| 3 | 19002691 | PH | 2/08/2019 | 16000113 | 200.8 | -2.0 | 38.2 | -0.3 | 4.6 | -0.3 | 10.7 | -0.9 | -1.1 |
| 4 | 19002594 | PH | 22/08/2019 | 17000049 | 176.2 | -1.7 | 25.8 | -1.0 | 5.9 | -0.3 | 8.8 | -0.6 | -0.8 |
| 5 | 19001985 | PH | 22/08/2019 | 17000434 | 159.8 | -1.6 | 17.4 | -0.8 | 3.6 | -0.9 | 4.1 | 0.0 | 0.7 |
| 6 | 19002686 | PH | 2/08/2019 | BUNDILLA160089 | 173.6 | -1.2 | 38.2 | 0.9 | 5.9 | -5.6 | 12.5 | -1.1 | 0.2 |
| 7 | 19002977 | PH | 2/08/2019 | BUNDILLA160089 | 160.5 | -1.8 | 28.8 | -0.7 | 4.2 | -3.3 | 9.8 | -0.2 | 1.0 |
| 8 | 19002988 | PH | 2/08/2019 | BUNDILLA160089 | 168.4 | -1.4 | 33.6 | 0.7 | 4.5 | -2.5 | 9.7 | -1.2 | -0.9 |
| 9 | 19001836 | PH | 22/08/2019 | 15004249 | 163.0 | -1.7 | 24.2 | -0.2 | 3.9 | -1.9 | 6.2 | 0.2 | -0.3 |
| 10 | 19000871 | PH | 1/08/2019 | BUNDILLA150009 | 183.3 | -1.8 | 26.9 | 0.8 | 7.8 | -4.7 | 9.1 | 0.5 | 1.5 |
| 11 | 19002997 | PH | 2/08/2019 | BUNDILLA160089 | 160.1 | -1.7 | 23.5 | -1.5 | 7.4 | -1.2 | 9.6 | -0.4 | 0.8 |
| 12 | 19001324 | PP | 22/08/2019 | 15003368 | 193.6 | -1.5 | 30.2 | -1.0 | 7.5 | 1.8 | 8.2 | 0.4 | 0.1 |
| 13 | 19001350 | PP | 22/08/2019 | 15003368 | 183.2 | -1.7 | 25.9 | -1.5 | 8.6 | 2.1 | 6.5 | -0.1 | 0.5 |
| 14 | 19001081 | PH | 22/08/2019 | 15003052 | 182.5 | -2.0 | 25.5 | -0.9 | 7.0 | -1.3 | 7.1 | 0.3 | 0.0 |
| 15 | 19002953 | PH | 2/08/2019 | 16000113 | 184.0 | -2.1 | 28.0 | -0.9 | 6.3 | -0.4 | 10.8 | 0.0 | 0.4 |
| 16 | 19001070 | PP | 22/08/2019 | 15003052 | 182.6 | -1.7 | 31.2 | 0.6 | 6.3 | -2.5 | 7.8 | 0.5 | 1.4 |
| 17 | 19002927 | PP | 2/08/2019 | BUNDILLA160089 | 163.0 | -1.1 | 29.2 | -0.4 | 7.0 | -0.3 | 7.0 | -0.2 | -0.5 |
| 18 | 19002930 | PP | 2/08/2019 | 16000113 | 178.5 | -2.4 | 20.8 | -1.0 | 7.2 | 2.0 | 8.1 | -0.6 | -0.2 |
| 19 | 19003002 | PP | 22/08/2019 | 16000113 | 179.1 | -1.2 | 22.3 | -2.6 | 6.5 | 7.3 | 9.4 | 0.2 | 0.3 |
| 20 | 19002629 | PP | 2/08/2019 | 16000113 | 200.1 | -2.4 | 35.6 | -0.6 | 5.5 | -0.7 | 14.0 | -1.0 | -1.0 |
| HAZELDEAN RIVERINA 2020 SALE TEAM AVERAGE ASBVS | | | | | 177.1 | -1.9 | 26.7 | -0.6 | 4.9 | -0.2 | 7.8 | -0.4 | -0.3 |
| SHEEP GENETICS AVERAGE ASBVS 2019 DROP | | | | | 146.0 | -1.0 | 14.2 | -0.7 | 5.2 | 0.4 | 8.1 | 0.1 | 0.3 |
| | | | | | top 5% | top 10% | top 30% | | | | | | |

HAZELDEAN RIVERINA RAM SALE 2020 ASBV SUMMARY

| LOT | Visual Id | Horn | Birth Date | Sire | MP+ | YFD | YCFW | YFDCM | YWT | YSS | YSL | YFAT | YEMID |
|--|-----------|------|------------|----------------|--------------|-------------|-------------|-------------|------------|-------------|------------|-------------|-------------|
| 21 | 19001702 | PP | 22/08/2019 | 15003368 | 157.7 | -1.6 | 16.7 | -1.2 | 5.7 | -1.2 | 6.8 | 0.2 | 0.6 |
| 22 | 19002906 | PH | 2/08/2019 | BUNDILLA160089 | 162.6 | -1.3 | 34.5 | 0.9 | 3.5 | -5.8 | 9.4 | 0.1 | 0.2 |
| 23 | 19000002 | PH | 1/08/2019 | POOGINOOK1496 | 167.9 | -0.9 | 33.6 | -1.5 | 9.3 | -0.9 | 11.8 | -0.3 | -0.7 |
| 24 | 19002996 | PH | 2/08/2019 | BUNDILLA160089 | 165.9 | -0.8 | 34.0 | 0.4 | 4.9 | -2.8 | 10.4 | -0.8 | -0.2 |
| 25 | 19002217 | PH | 22/08/2019 | 17000328 | 178.6 | -2.1 | 25.2 | -1.0 | 5.8 | -1.6 | 8.5 | -0.4 | -0.5 |
| 26 | 19002981 | PH | 2/08/2019 | BUNDILLA160089 | 173.6 | -1.3 | 34.8 | -0.5 | 3.6 | -0.7 | 6.7 | -0.3 | -0.2 |
| 27 | 19001586 | PH | 22/08/2019 | 16000113 | 176.4 | -1.8 | 19.5 | -1.4 | 4.8 | 2.6 | 7.8 | -0.5 | -1.3 |
| 28 | 19001747 | PH | 22/08/2019 | 15003951 | 178.3 | -1.6 | 31.7 | -0.4 | 4.1 | -2.9 | 8.3 | -0.4 | -0.9 |
| 29 | 19002092 | PH | 22/08/2019 | 15003073 | 179.7 | -1.4 | 31.6 | -0.4 | 3.8 | -0.5 | 7.8 | -0.9 | -1.1 |
| 30 | 19001487 | PH | 22/08/2019 | 17000328 | 184.6 | -1.3 | 31.3 | 0.2 | 9.0 | -2.0 | 6.9 | 0.0 | 0.1 |
| 31 | 19002698 | PH | 2/08/2019 | BUNDILLA160089 | 164.5 | -1.8 | 24.6 | -0.6 | 5.1 | 0.2 | 7.2 | 0.0 | 0.1 |
| 32 | 19002119 | PH | 22/08/2019 | 17002043 | 160.5 | -2.1 | 18.0 | -0.4 | 2.3 | -2.0 | 2.7 | -0.4 | 0.5 |
| 33 | 19002298 | PP | 22/08/2019 | 15003951 | 168.0 | -2.2 | 22.2 | -0.4 | 3.8 | -3.6 | 4.8 | -0.4 | -1.2 |
| 34 | 19002664 | PP | 2/08/2019 | 16000113 | 203.8 | -1.1 | 39.6 | -0.6 | 7.5 | 3.6 | 16.0 | -0.3 | -0.5 |
| 35 | 19001792 | PP | 22/08/2019 | 15003368 | 187.6 | -2.1 | 28.9 | -0.6 | 8.6 | -1.8 | 8.5 | -0.2 | 0.0 |
| 36 | 19000678 | PH | 1/08/2019 | 16000113 | 205.6 | -2.1 | 32.5 | -0.5 | 6.0 | 3.3 | 7.8 | -0.2 | -0.3 |
| 37 | 19003105 | PH | 22/08/2019 | 17000059 | 167.5 | -1.7 | 21.0 | -0.5 | 3.8 | 0.8 | 6.2 | 0.0 | -0.3 |
| 38 | 19000978 | PH | 22/08/2019 | 15003368 | 183.3 | -1.5 | 24.6 | -1.3 | 8.6 | 2.2 | 5.1 | 0.5 | 1.0 |
| 39 | 19002636 | PH | 2/08/2019 | BUNDILLA160089 | 171.2 | -2.2 | 29.4 | -0.8 | 5.8 | -3.4 | 12.7 | -0.6 | 0.3 |
| 40 | 19002936 | PH | 2/08/2019 | BUNDILLA160089 | 164.9 | -1.5 | 32.9 | 0.1 | 1.9 | -0.8 | 13.0 | -0.3 | 0.1 |
| HAZELDEAN RIVERINA 2020 SALE TEAM AVERAGE ASBVS | | | | | 177.1 | -1.9 | 26.7 | -0.6 | 4.9 | -0.2 | 7.8 | -0.4 | -0.3 |
| SHEEP GENETICS AVERAGE ASBVS 2019 DROP | | | | | 146.0 | -1.0 | 14.2 | -0.7 | 5.2 | 0.4 | 8.1 | 0.1 | 0.3 |
| | | | | | top 5% | top 10% | top 30% | | | | | | |

HAZELDEAN RIVERINA RAM SALE 2020 ASBV SUMMARY

| LOT | Visual Id | Horn | Birth Date | Sire | MP+ | YFD | YCFW | YFDCM | YWT | YSS | YSL | YFAT | YEMID |
|--|-----------|------|------------|----------------|--------------|-------------|-------------|-------------|------------|-------------|------------|-------------|-------------|
| 41 | 19000541 | PH | 1/08/2019 | 12004030 | 192.2 | -1.1 | 37.5 | -1.1 | 7.0 | 3.0 | 13.6 | -0.3 | -0.5 |
| 42 | 19000870 | PH | 1/08/2019 | 16000113 | 206.4 | -2.5 | 31.9 | -1.2 | 3.6 | 4.5 | 6.2 | -0.5 | -1.2 |
| 43 | 19000805 | PH | 1/08/2019 | 16000113 | 201.9 | -2.7 | 29.8 | -1.6 | 8.2 | 2.6 | 13.5 | -0.9 | -1.3 |
| 44 | 19001450 | PP | 22/08/2019 | 17000434 | 162.5 | -2.3 | 19.7 | 0.3 | 2.8 | -4.5 | 2.7 | -0.2 | -0.1 |
| 45 | 19001020 | PH | 22/08/2019 | 16002165 | 182.4 | -2.1 | 29.3 | -1.1 | 5.6 | -1.3 | 6.7 | -0.4 | 0.3 |
| 46 | 19003011 | PH | 22/08/2019 | 17000059 | 164.6 | -1.7 | 18.6 | -0.8 | 3.9 | 0.1 | 7.7 | -0.3 | -0.4 |
| 47 | 19002914 | PH | 2/08/2019 | 16000113 | 197.7 | -1.6 | 36.0 | 0.1 | 8.3 | -0.2 | 11.4 | -0.5 | -2.0 |
| 48 | 19002992 | PH | 2/08/2019 | BUNDILLA160089 | 170.0 | -1.5 | 30.6 | -1.0 | 4.4 | 0.5 | 9.7 | -0.5 | 0.2 |
| 49 | 19002644 | PH | 2/08/2019 | BUNDILLA160089 | 145.5 | -1.0 | 27.4 | 0.2 | 3.0 | -4.1 | 10.0 | -0.7 | -0.7 |
| 52 | 19002978 | PH | 2/08/2019 | 16000113 | 181.2 | -2.3 | 23.0 | -1.6 | 5.6 | 2.5 | 8.7 | 0.1 | 0.0 |
| 53 | 19002047 | PH | 22/08/2019 | 17000059 | 188.8 | -2.6 | 21.5 | -0.7 | 4.9 | 1.3 | -0.2 | -0.1 | 0.0 |
| 54 | 19001856 | PH | 22/08/2019 | 17000049 | 177.8 | -2.5 | 17.4 | -1.1 | 3.7 | 2.0 | 1.8 | -0.3 | -0.3 |
| 55 | 19003026 | PH | 22/08/2019 | 17002043 | 202.3 | -2.1 | 32.5 | 0.0 | 4.5 | 2.3 | 3.3 | -0.7 | 0.1 |
| 56 | 19002689 | PP | 2/08/2019 | BUNDILLA160089 | 171.6 | -2.4 | 25.8 | 0.1 | 6.9 | -3.6 | 4.7 | -0.5 | -0.5 |
| 57 | 19002031 | PP | 22/08/2019 | 16000113 | 202.8 | -2.3 | 33.5 | 0.0 | 6.5 | 1.0 | 9.5 | -0.2 | -0.7 |
| 58 | 19002270 | PP | 22/08/2019 | 16002165 | 193.1 | -2.1 | 37.2 | 0.2 | 3.6 | -3.1 | 5.6 | -0.8 | -0.4 |
| 59 | 19000654 | PH | 1/08/2019 | 16000113 | 189.2 | -1.4 | 33.5 | -0.6 | 6.3 | 0.1 | 8.9 | 0.2 | 0.6 |
| 60 | 19002907 | PH | 2/08/2019 | BUNDILLA160089 | 154.5 | -1.7 | 24.9 | -0.3 | 4.6 | -3.4 | 8.9 | -0.4 | -0.1 |
| 61 | 19002955 | PH | 2/08/2019 | BUNDILLA160089 | 161.9 | -1.6 | 29.3 | 0.1 | 3.8 | -3.1 | 8.6 | -0.1 | 0.5 |
| 62 | 19002455 | PH | 22/08/2019 | 17000328 | 181.9 | -2.5 | 19.6 | -1.3 | 5.0 | 1.1 | 5.4 | -0.6 | -0.5 |
| HAZELDEAN RIVERINA 2020 SALE TEAM AVERAGE ASBVS | | | | | 177.1 | -1.9 | 26.7 | -0.6 | 4.9 | -0.2 | 7.8 | -0.4 | -0.3 |
| SHEEP GENETICS AVERAGE ASBVS 2019 DROP | | | | | 146.0 | -1.0 | 14.2 | -0.7 | 5.2 | 0.4 | 8.1 | 0.1 | 0.3 |
| | | | | | | | | | | | | | |
| | | | | | top 5% | top 10% | top 30% | | | | | | |

HAZELDEAN RIVERINA RAM SALE 2020 ASBV SUMMARY

| LOT | Visual Id | Horn | Birth Date | Sire | MP+ | YFD | YCFW | YFDCM | YWT | YSS | YSL | YFAT | YEMID |
|--|-----------|------|------------|----------------|--------------|-------------|-------------|-------------|------------|-------------|------------|-------------|-------------|
| 63 | 19001887 | PH | 22/08/2019 | 17002043 | 165.0 | -2.2 | 16.8 | -0.6 | 5.6 | -1.7 | 4.0 | -0.1 | 0.4 |
| 64 | 19002684 | PH | 2/08/2019 | BUNDILLA160089 | 169.0 | -2.1 | 30.6 | 0.0 | 5.7 | -3.9 | 9.6 | -1.0 | -0.4 |
| 65 | 19002416 | PH | 22/08/2019 | 16000113 | 190.7 | -2.3 | 29.1 | -0.7 | 4.0 | 2.9 | 9.5 | -1.0 | -1.5 |
| 66 | 19001382 | PH | 22/08/2019 | 17002025 | 167.4 | -2.6 | 20.0 | -0.4 | 3.2 | -2.8 | 5.0 | -1.1 | -1.3 |
| 67 | 19002971 | PH | 2/08/2019 | BUNDILLA160089 | 150.6 | -1.4 | 26.4 | 0.4 | 3.1 | -5.5 | 9.9 | -0.5 | 0.0 |
| 68 | 19002498 | PH | 22/08/2019 | 16000113 | 185.8 | -2.1 | 21.6 | -1.6 | 5.1 | 4.4 | 7.8 | -0.4 | -0.7 |
| 69 | 19002682 | PH | 2/08/2019 | BUNDILLA160089 | 157.5 | -1.5 | 28.4 | -0.8 | 3.6 | -2.5 | 9.1 | -0.2 | 0.9 |
| 70 | 19000849 | PH | 1/08/2019 | 16000113 | 169.6 | -1.4 | 28.0 | -1.4 | 2.6 | 4.5 | 11.5 | -0.1 | -0.7 |
| 71 | 19002950 | PH | 2/08/2019 | 16000113 | 196.6 | -2.0 | 34.2 | -0.3 | 5.8 | 1.4 | 8.7 | -0.5 | -1.4 |
| 72 | 19002655 | PH | 2/08/2019 | 16000113 | 196.4 | -1.8 | 34.5 | -1.0 | 4.0 | 2.5 | 12.3 | 0.0 | -0.3 |
| 73 | 19002700 | PH | 2/08/2019 | BUNDILLA160089 | 168.9 | -1.2 | 29.9 | -0.7 | 4.8 | 2.1 | 9.8 | -0.7 | -0.6 |
| 74 | 19003953 | PH | 22/08/2019 | 16000113 | 184.1 | -2.1 | 25.8 | -0.9 | 6.3 | 0.4 | 9.0 | -0.6 | -1.0 |
| 75 | 19000659 | PH | 1/08/2019 | 16000113 | 182.5 | -2.4 | 24.1 | -2.0 | 3.4 | 5.2 | 8.6 | -0.4 | -0.3 |
| 76 | 19001323 | PP | 22/08/2019 | 15003368 | 184.0 | -0.9 | 28.8 | -1.2 | 6.5 | 4.3 | 7.6 | 0.4 | 0.9 |
| 77 | 19002947 | PH | 2/08/2019 | 16000113 | 189.0 | -2.9 | 27.0 | -1.3 | 2.0 | 0.8 | 8.7 | -0.1 | 0.2 |
| 78 | 19002633 | PH | 2/08/2019 | BUNDILLA160089 | 172.8 | -1.3 | 34.0 | -0.7 | 5.0 | -0.2 | 13.3 | -0.3 | 0.5 |
| 79 | 19000669 | HH | 1/08/2019 | 16000113 | 181.7 | -2.4 | 25.3 | -1.4 | 4.6 | 2.7 | 9.1 | -1.0 | -1.4 |
| 80 | 19003067 | HH | 22/08/2019 | 16000113 | 190.2 | -1.7 | 27.1 | -0.8 | 6.4 | 3.1 | 7.3 | -0.2 | -0.6 |
| 81 | 19002208 | HH | 22/08/2019 | 17000049 | 160.6 | -2.1 | 20.3 | -0.1 | 2.6 | -1.1 | 3.9 | -0.1 | -0.2 |
| 82 | 19001223 | HH | 22/08/2019 | 16002165 | 176.8 | -2.2 | 28.7 | 0.3 | 5.1 | -5.0 | 5.2 | -0.4 | -0.2 |
| HAZELDEAN RIVERINA 2020 SALE TEAM AVERAGE ASBVS | | | | | 177.1 | -1.9 | 26.7 | -0.6 | 4.9 | -0.2 | 7.8 | -0.4 | -0.3 |
| SHEEP GENETICS AVERAGE ASBVS 2019 DROP | | | | | 146.0 | -1.0 | 14.2 | -0.7 | 5.2 | 0.4 | 8.1 | 0.1 | 0.3 |
| | | | | | | | | | | | | | |
| | | | | | top 5% | top 10% | top 30% | | | | | | |

HAZELDEAN RIVERINA RAM SALE 2020 ASBV SUMMARY

| LOT | Visual Id | Horn | Birth Date | Sire | MP+ | YFD | YCFW | YFDCM | YWT | YSS | YSL | YFAT | YEMID |
|--|-----------|------|------------|----------|--------------|-------------|-------------|-------------|------------|-------------|------------|-------------|-------------|
| 83 | 19002597 | HH | 2/08/2019 | 16000113 | 173.9 | -1.0 | 28.5 | -0.4 | 6.1 | 1.3 | 8.3 | -0.7 | -1.6 |
| 84 | 19001820 | HH | 22/08/2019 | 16001437 | 176.8 | -2.0 | 24.6 | -1.2 | 2.7 | 1.7 | 2.3 | -0.4 | -0.7 |
| 85 | 19002170 | HH | 22/08/2019 | 15004468 | 176.2 | -0.9 | 28.9 | -0.6 | 4.2 | 1.6 | 10.6 | -0.5 | 0.0 |
| 86 | 19001913 | HH | 22/08/2019 | 17000059 | 165.3 | -1.8 | 15.1 | -0.9 | 2.9 | 1.7 | 4.5 | -0.1 | -0.5 |
| 87 | 19002004 | HH | 22/08/2019 | 17000049 | 174.8 | -1.9 | 24.9 | -0.3 | 4.7 | 0.2 | 8.0 | -0.8 | -1.1 |
| 88 | 19001808 | HH | 22/08/2019 | 16002777 | 171.1 | -2.3 | 24.7 | -0.2 | 1.7 | -2.1 | 6.4 | -0.9 | -0.2 |
| 89 | 19001135 | HH | 22/08/2019 | 16001437 | 174.7 | -2.0 | 21.9 | -0.9 | 2.8 | 1.1 | 6.3 | -0.6 | 0.1 |
| 90 | 19001107 | HH | 22/08/2019 | 15004249 | 187.8 | -2.1 | 32.8 | -0.8 | 4.8 | 1.4 | 6.9 | -0.5 | -1.0 |
| 91 | 19003896 | HH | 22/08/2019 | 17001967 | 160.3 | -2.2 | 15.9 | -0.7 | 3.0 | -3.3 | 5.6 | -0.5 | -1.1 |
| 92 | 19001795 | HH | 22/08/2019 | 16002165 | 176.2 | -2.7 | 21.7 | -1.2 | 4.8 | -0.6 | 3.4 | -0.5 | -0.3 |
| 93 | 19000826 | HH | 1/08/2019 | 16000113 | 188.0 | -1.5 | 32.2 | -0.3 | 7.2 | 3.3 | 6.8 | -0.9 | -1.4 |
| 94 | 19000985 | HH | 22/08/2019 | 16002777 | 170.3 | -1.6 | 24.0 | -0.6 | 3.0 | -1.7 | 9.2 | -0.3 | 0.3 |
| 95 | 19002193 | HH | 22/08/2019 | 17001967 | 165.8 | -1.1 | 22.5 | -0.6 | 1.3 | 1.1 | 7.3 | -0.7 | -0.9 |
| 96 | 19001118 | HH | 22/08/2019 | 16001873 | 169.8 | -2.3 | 20.8 | -0.5 | 3.7 | -1.6 | 5.6 | -0.1 | 0.3 |
| 97 | 19003007 | HH | 22/08/2019 | 16000113 | 167.5 | -1.3 | 24.3 | -1.6 | 4.0 | 3.2 | 10.1 | -0.3 | -0.9 |
| 98 | 19001058 | HH | 22/08/2019 | 15004281 | 188.5 | -2.6 | 25.7 | -1.3 | 3.9 | 3.1 | 4.0 | -0.8 | -1.2 |
| 99 | 19000924 | HH | 22/08/2019 | 16002777 | 174.8 | -2.0 | 29.3 | 0.4 | 4.0 | -4.0 | 5.0 | -0.9 | -0.7 |
| 100 | 19001425 | HH | 22/08/2019 | 16000113 | 180.0 | -2.3 | 28.0 | -0.4 | 4.8 | 0.5 | 9.5 | -0.6 | -1.5 |
| 101 | 19002438 | HH | 22/08/2019 | 17000049 | 175.3 | -2.5 | 24.1 | 0.5 | 4.5 | -4.0 | 3.2 | -0.2 | -0.6 |
| 102 | 19002384 | HH | 22/08/2019 | 16000113 | 175.7 | -2.2 | 21.2 | -1.0 | 5.0 | 3.1 | 8.2 | -0.9 | -1.4 |
| HAZELDEAN RIVERINA 2020 SALE TEAM AVERAGE ASBVS | | | | | 177.1 | -1.9 | 26.7 | -0.6 | 4.9 | -0.2 | 7.8 | -0.4 | -0.3 |
| SHEEP GENETICS AVERAGE ASBVS 2019 DROP | | | | | 146.0 | -1.0 | 14.2 | -0.7 | 5.2 | 0.4 | 8.1 | 0.1 | 0.3 |
| | | | | | top 5% | top 10% | top 30% | | | | | | |

HAZELDEAN RIVERINA RAM SALE 2020 ASBV SUMMARY

| LOT | Visual Id | Horn | Birth Date | Sire | MP+ | YFD | YCFW | YFDCM | YWT | YSS | YSL | YFAT | YEMID |
|--|-----------|------|------------|----------|--------------|-------------|-------------|-------------|------------|-------------|------------|-------------|-------------|
| 103 | 19002081 | HH | 22/08/2019 | 17001967 | 166.1 | -1.7 | 24.6 | -0.6 | 0.8 | -1.5 | 7.7 | -0.6 | -0.5 |
| 104 | 19002071 | HH | 22/08/2019 | 17002025 | 185.4 | -3.0 | 24.2 | 0.9 | 4.6 | -7.9 | 1.4 | -0.6 | -0.3 |
| 105 | 19003925 | HH | 22/08/2019 | 15003374 | 157.9 | -2.7 | 15.2 | -0.4 | 3.7 | -5.3 | 5.0 | -0.1 | -0.7 |
| 106 | 19003058 | HH | 22/08/2019 | 17001967 | 182.8 | -1.2 | 32.5 | -0.3 | 4.2 | -0.6 | 9.8 | -0.5 | -1.7 |
| 107 | 19001248 | HH | 22/08/2019 | 15003951 | 164.3 | -2.2 | 19.1 | -0.8 | 3.0 | -2.5 | 5.0 | -0.2 | -0.3 |
| 108 | 19000950 | HH | 22/08/2019 | 15003837 | 156.8 | -1.5 | 20.0 | -0.3 | 2.5 | -2.0 | 5.0 | -0.4 | -1.1 |
| 109 | 19002627 | HH | 2/08/2019 | 16000113 | 187.9 | -1.8 | 30.6 | -0.5 | 5.3 | 0.8 | 11.2 | -0.5 | -0.6 |
| 110 | 19001285 | HH | 22/08/2019 | 16001437 | 195.5 | -1.5 | 34.2 | -1.1 | 3.6 | 5.5 | 8.3 | -0.9 | -0.8 |
| 111 | 19001722 | HH | 22/08/2019 | 15004281 | 182.0 | -2.9 | 29.9 | -0.2 | 2.5 | -2.6 | 5.8 | -1.2 | -1.9 |
| 112 | 19002464 | HH | 22/08/2019 | 17000328 | 175.8 | -2.2 | 29.9 | 0.5 | 1.9 | -6.5 | 7.4 | -0.8 | -0.8 |
| 113 | 19002824 | HH | 2/08/2019 | 12004030 | 191.4 | -2.3 | 29.4 | -0.4 | 6.3 | 0.5 | 6.3 | -0.7 | -1.0 |
| 114 | 19001955 | HH | 22/08/2019 | 16000113 | 175.3 | -2.7 | 14.1 | -1.8 | 6.0 | 2.4 | 5.7 | -0.6 | -0.4 |
| 115 | 19001269 | HH | 22/08/2019 | 15003052 | 158.5 | -1.8 | 15.4 | -0.8 | 1.6 | -1.1 | 7.5 | 0.7 | 1.4 |
| 116 | 19002916 | HH | 2/08/2019 | 16000113 | 193.4 | -2.0 | 30.0 | -1.3 | 5.0 | 3.6 | 8.1 | -0.7 | -0.8 |
| 117 | 19003145 | HH | 22/08/2019 | 17000276 | 194.4 | -2.7 | 23.1 | -1.4 | 5.4 | 1.1 | 4.2 | -0.2 | 0.1 |
| 118 | 19002025 | HH | 22/08/2019 | 15003617 | 167.3 | -1.4 | 20.9 | -1.2 | 3.9 | 0.7 | 9.2 | -0.4 | 0.3 |
| 119 | 19002954 | HH | 2/08/2019 | 16000113 | 180.7 | -1.6 | 28.5 | 0.1 | 5.6 | -0.4 | 8.8 | 0.0 | -1.1 |
| 120 | 19002699 | HH | 2/08/2019 | 16000113 | 188.6 | -1.5 | 26.1 | -2.3 | 8.8 | 5.2 | 11.7 | 0.1 | -0.4 |
| HAZELDEAN RIVERINA 2020 SALE TEAM AVERAGE ASBVS | | | | | 177.1 | -1.9 | 26.7 | -0.6 | 4.9 | -0.2 | 7.8 | -0.4 | -0.3 |
| SHEEP GENETICS AVERAGE ASBVS 2019 DROP | | | | | 146.0 | -1.0 | 14.2 | -0.7 | 5.2 | 0.4 | 8.1 | 0.1 | 0.3 |
| | | | | | top 5% | | | top 10% | | | top 30% | | |



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LITCHFIELD

Lot: 37 **Horn: PH** **Tag No: 19003105**

Sire: 11003542

Sire: 12000232

Sire: 17000059

Dam: 16009310

Dam: 12004287

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.7 | 21.0 | -0.5 | 3.8 | 0.8 | 167.5 | 18.0 | 4.5 | 18.9 |
| 70% | 65% | 64% | 64% | 61% | | | | |

Buyer _____

\$ _____

Lot: 38 **Horn: PH** **Tag No: 19000978**

Sire: CP907538

Sire: 11003542

Sire: 15003368

Dam: 17000400

Dam: 12006191

Dam: 14004074

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.5 | 24.6 | -1.3 | 8.6 | 2.2 | 183.3 | 19.1 | 3.3 | 26.9 |
| 71% | 66% | 66% | 67% | 63% | | | | |

Buyer _____

\$ _____

Lot: 39 **Horn: PH** **Tag No: 19002636**

Sire: CP407185

Sire:

Sire: BUNDILLA160089

Dam:

Dam: BUNDILLA-120912

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.2 | 29.4 | -0.8 | 5.8 | -3.4 | 171.2 | 17.7 | 6.4 | 19.8 |
| 69% | 64% | 64% | 67% | 57% | | | | |

Buyer _____

\$ _____



HAZELDEAN
LITCHFIELD

Lot: 40 Horn: PH Tag No: 19002936

Sire: CP407185

Sire:

Sire: BUNDILLA160089

Dam:

Dam: BUNDILLA-120912

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.5 | 32.9 | 0.1 | 1.9 | -0.8 | 164.9 | 18.1 | 6.2 | 22.8 |
| 71% | 66% | 65% | 68% | 57% | | | | |

Buyer _____ \$ _____

Lot: 41 Horn: PH Tag No: 19000541

Sire: NR080121

Sire: CP907538

Sire: 12004030

Dam: 15003383

Dam:

Dam: 13005690

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.1 | 37.5 | -1.1 | 7.0 | 3.0 | 192.2 | 18.8 | 5.4 | 15.4 |
| 77% | 72% | 72% | 76% | 68% | | | | |

Buyer _____ \$ _____

Lot: 42 Horn: PH Tag No: 19000870

Sire: CP907538

Sire: 11003542

Sire: 16000113

Dam: 16001537

Dam: 12000260

Dam: 13008203

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.5 | 31.9 | -1.2 | 3.6 | 4.5 | 206.4 | 17.9 | 3.7 | 16.1 |
| 73% | 68% | 67% | 72% | 53% | | | | |

Buyer _____ \$ _____

Riverina Ram Sale 2020

Top 5%

Top 10%

Top 30%

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HAZELDEAN
LITCHFIELD

Lot: 43 **Horn: PH** **Tag No: 1900805**

Sire: CP907538

Sire: RP100038

Sire: 16000113

Dam: 14000282

Dam: 12000260

Dam: 10000349

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.7 | 29.8 | -1.6 | 8.2 | 2.6 | 201.9 | 16.5 | 4.3 | 18.1 |
| 73% | 68% | 68% | 72% | 64% | | | | |

Buyer _____ \$ _____

Lot: 44 **Horn: PP** **Tag No: 19001450**

Sire: 11003542

Sire: 11004910

Sire: 17000434

Dam: 15007975

Dam: 13005713

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.3 | 19.7 | 0.3 | 2.8 | -4.5 | 162.5 | 16.4 | 4.8 | 14.3 |
| 67% | 62% | 61% | 62% | 59% | | | | |

Buyer _____ \$ _____

Lot: 45 **Horn: PH** **Tag No: 19001020**

Sire: 12004059

Sire: 11003542

Sire: 16002165

Dam: 17000430

Dam: 13005823

Dam: 14004504

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.1 | 29.3 | -1.1 | 5.6 | -1.3 | 182.4 | 17.1 | 5.1 | 18.0 |
| 71% | 66% | 66% | 67% | 63% | | | | |

Buyer _____ \$ _____



HAZELDEAN
LITCHFIELD

Lot: 46 Horn: PH Tag No: 19003011

Sire: 11003542

Sire:

Sire: 17000059

Dam: 14006858

Dam: 12004287

Dam: 12005674

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.7 | 18.6 | -0.8 | 3.9 | 0.1 | 164.6 | 16.8 | 4.8 | 11.4 |
| 67% | 62% | 61% | 61% | 58% | | | | |

Buyer _____ \$ _____

Lot: 47 Horn: PH Tag No: 19002914

Sire: CP907538

Sire:

Sire: 16000113

Dam:

Dam: 12000260

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.6 | 36.0 | 0.1 | 8.3 | -0.2 | 197.7 | 18.9 | 6.6 | 33.0 |
| 71% | 65% | 65% | 69% | 59% | | | | |

Buyer _____ \$ _____

Lot: 48 Horn: PH Tag No: 19002992

Sire: CP407185

Sire:

Sire: BUNDILLA160089

Dam:

Dam: BUNDILLA-120912

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.5 | 30.6 | -1.0 | 4.4 | 0.5 | 170.0 | 18.5 | 6.1 | 32.7 |
| 69% | 64% | 63% | 67% | 57% | | | | |

Buyer _____ \$ _____



HAZELDEAN

LITCHFIELD

Lot: 49 **Horn: PH** **Tag No: 19002644**

Sire: CP407185

Sire:

Sire: BUNDILLA160089

Dam:

Dam: BUNDILLA-120912

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.0 | 27.4 | 0.2 | 3.0 | -4.1 | 145.5 | 19.6 | 6.1 | 10.1 |
| 70% | 65% | 65% | 68% | 57% | | | | |

Buyer _____ \$ _____

Lot: 50 **Horn: PH** **Tag No: 19002995**

Sire: CP407185

Sire:

Sire: BUNDILLA160089

Dam:

Dam: BUNDILLA-120912

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.9 | 24.0 | -0.3 | 3.5 | 0.0 | 163.3 | 17.4 | 4.9 | 22.8 |
| 70% | 65% | 64% | 67% | 57% | | | | |

Buyer _____ \$ _____

Lot: 51 **Horn: PH** **Tag No: 19002172**

Sire: 11003542

Sire: 14005227

Sire: 15003049

Dam: 16003684

Dam: 12004787

Dam: 11000677

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.1 | 23.3 | -0.3 | 4.5 | 0.4 | 179.0 | 17.7 | 4.5 | 23.1 |
| 72% | 67% | 66% | 67% | 62% | | | | |

Buyer _____ \$ _____



HAZELDEAN
LITCHFIELD

Lot: 52 Horn: PH Tag No: 19002978

Sire: CP907538

Sire:

Sire: 16000113

Dam:

Dam: 12000260

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.3 | 23.0 | -1.6 | 5.6 | 2.5 | 181.2 | 16.5 | 5.2 | 14.6 |
| 70% | 64% | 64% | 68% | 59% | | | | |

Buyer _____

\$ _____

Lot: 53 Horn: PH Tag No: 19002047

Sire: 11003542

Sire: 11003542

Sire: 17000059

Dam: 15000289

Dam: 12004287

Dam: 13000462

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.6 | 21.5 | -0.7 | 4.9 | 1.3 | 188.8 | 17.0 | 4.4 | 21.0 |
| 73% | 68% | 68% | 69% | 66% | | | | |

Buyer _____

\$ _____

Lot: 54 Horn: PH Tag No: 19001856

Sire: 11003542

Sire: 12006245

Sire: 17000049

Dam: 14005907

Dam: 14004374

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFDµm | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.5 | 17.4 | -1.1 | 3.7 | 2.0 | 177.8 | 17.5 | 4.4 | 38.1 |
| 71% | 66% | 65% | 65% | 62% | | | | |

Buyer _____

\$ _____



HAZELDEAN
LITCHFIELD

Lot: 55 Horn: PH Tag No: 19003026

Sire: 13004936 Sire: 11003542

Sire: 17002043 Dam: 15000209

Dam: 14000670 Dam: 11005158

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.1 | 32.5 | 0.0 | 4.5 | 2.3 | 202.3 | 17.2 | 6.1 | 37.5 |
| 72% | 67% | 66% | 67% | 64% | | | | |

Buyer _____ \$ _____

Lot: 56 Horn: PP Tag No: 19002689

Sire: CP407185 Sire:

Sire: BUNDILLA160089 Dam:

Dam: BUNDILLA-120912 Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.4 | 25.8 | 0.1 | 6.9 | -3.6 | 171.6 | 17.4 | 6.5 | 27.6 |
| 73% | 67% | 67% | 70% | 59% | | | | |

Buyer _____ \$ _____

Lot: 57 Horn: PP Tag No: 19002031

Sire: CP907538 Sire: CP907538

Sire: 16000113 Dam: 13000034

Dam: 12000260 Dam: 11000355

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.3 | 33.5 | 0.0 | 6.5 | 1.0 | 202.8 | 17.6 | 5.1 | 18.5 |
| 74% | 70% | 69% | 72% | 67% | | | | |

Buyer _____ \$ _____



HAZELDEAN LITCHFIELD

Lot: 58 Horn: PP Tag No: 19002270

Sire: 12004059

Sire: 11003542

Sire: 16002165

Dam: 17001300

Dam: 13005823

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -2.1 | 37.2 | 0.2 | 3.6 | -3.1 | 193.1 | 17.8 | 5.7 | 17.4 |
| 71% | 66% | 65% | 67% | 62% | | | | |

Buyer _____ \$ _____

Lot: 59 Horn: PH Tag No: 19000654

Sire: CP907538

Sire: 12004689

Sire: 16000113

Dam: 14005716

Dam: 12000260

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|-----|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.4 | 33.5 | -0.6 | 6.3 | 0.1 | 189.2 | 18.1 | 5.0 | 16.3 |
| 73% | 68% | 68% | 71% | 62% | | | | |

Buyer _____ \$ _____

Lot: 60 Horn: PH Tag No: 19002907

Sire: CP407185

Sire:

Sire: BUNDILLA160089

Dam:

Dam: BUNDILLA-120912

Dam:

| Australian Sheep Breeding Values 21 August 2020 | | | | | | Wool Test Results 19 May 2020 | | |
|--|-------|--------|--------|------|-------|----------------------------------|-----|------|
| yFD μ m | yCFW% | yFDCV% | yWT kg | ySS | MP+ | Micron | GFW | SS |
| -1.7 | 24.9 | -0.3 | 4.6 | -3.4 | 154.5 | 18.4 | 5.3 | 16.6 |
| 70% | 65% | 64% | 67% | 57% | | | | |

Buyer _____ \$ _____

HOW TO GET TO ROSEVALE

Rosevale is located 14 kilometres south of Hay on the Cobb Highway which runs from Deniliquin to Hay. Travelling from Hay, turn left at the Jerilderie road 10 kilometres south of Hay and the Rosevale entrance is on the right hand side about 4 kilometres.



We look forward to seeing you there



HAZELDEAN
LITCHFIELD
EST 1865

Hazeldean Merinos

Way out in front

Riverina Ram Sale

120 Merino & Poll Rams

Thursday October 15th

Rosevale, Hay

Monaro Ram Sale

230 Merino & Poll Rams

Thursday October 29th

Hazeldean, Cooma



- Average MP+ index in the top 10% of industry
- Average FD top 15% of industry
- YCFW in the top 20% of industry

*The performance of the Hazeldean Merino is unrivalled –
compare our sale teams to others on SGA/MerinoSelect*

Bea Litchfield: 0427 933 103

Jim Litchfield: 0417 676 561

Ed Bradley: 0412 298 546

Richard Cannon: 0427 931 177

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LITCHFIELD
EST 1865

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