

# Greendale Merino Stud Genetic Progress Report



## Greendale Merino Stud Genetic Progress

Greendale has been making significant genetic progress with a five-year average genetic trend of 6.3 index points compared to the industry average of 2.8 index points (Merino Production Plus).

Greendale Merinos embarked on a journey to capture full pedigree using DNA Parentage testing in 2018. The 2018, 2019 and 2020 drop have all been DNA Parentage tested. All the ram progeny in 2018 and 2019 were 50K Genomic tested and in 2020 both ewe and ram progeny were 50K Genomic tested. Moving forward Greendale Merinos will be 50K Genomic testing all progeny to maximise the accuracy of the Australian Sheep Breeding Values (ASBVs) as a selection tool and to capture the benefits of genomics to predict hard to measure traits, such as inter muscular fat (IMF) and later in life traits such as adult clean fleece weight (ACFW) and reproduction.

Figures 1 and 2 show the trajectory of Greendale Merino's breeding program and the McGufficke family's commitment to breeding productive performance measured Merinos.

Table 1 presents the trait and index improvements for each year drop and the direction of the breeding program. Moving forward with the 2021 Reserve Ram Team 1% and 5% for micron, clean fleece weight and the MP+ and FP+ indexes.

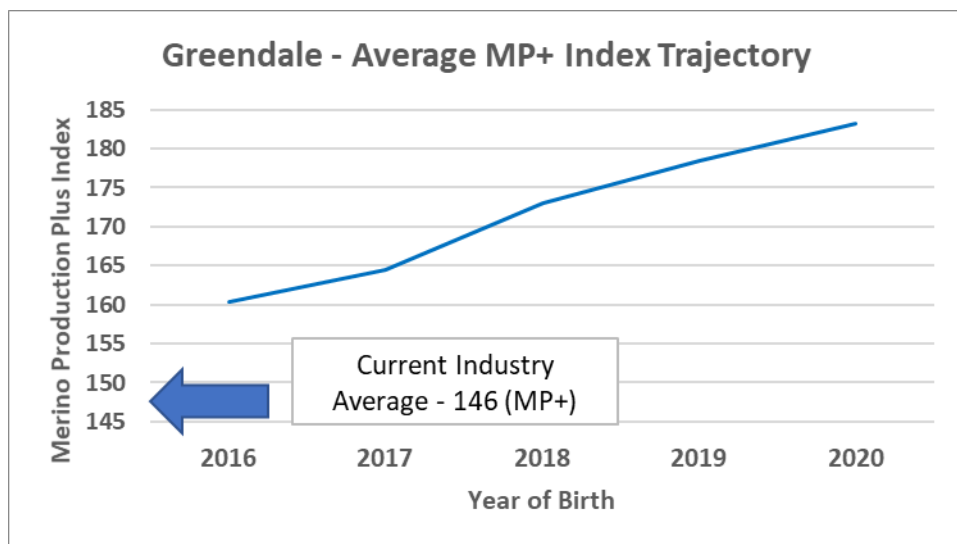


Figure 1 – Greendale Average Merino Production Plus Index trajectory

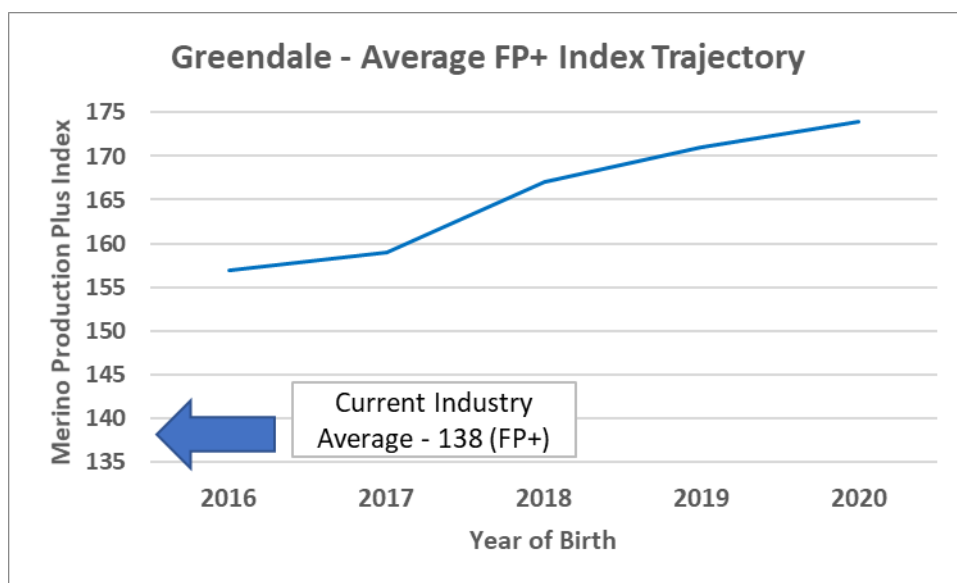


Figure 2 – Greendale Average Fibre Production Plus Index trajectory

Table 1 – Greendale Merinos Genetic Trend compared to the current industry percentile (benchmark)

<b>Greendale Merinos</b>	<b>YWT</b>	<b>YCFW</b>	<b>YFD</b>	<b>YSS</b>	<b>MP+</b>	<b>FP+</b>
<b>2021 Reserve Ram Team</b>	<b>4.4</b>	<b>33.3</b>	<b>-2.4</b>	<b>0.4</b>	<b>200</b>	<b>186</b>
<b>2021 Auction Team Ave</b>	<b>3.7</b>	<b>30.1</b>	<b>-2.1</b>	<b>1.3</b>	<b>190</b>	<b>178</b>
<b>2020 drop</b>	<b>2.8</b>	<b>25.9</b>	<b>-2.3</b>	<b>0.4</b>	<b>183</b>	<b>174</b>
<b>2019 drop</b>	<b>2.6</b>	<b>24.1</b>	<b>-2.3</b>	<b>0.1</b>	<b>178</b>	<b>171</b>
<b>2018 drop</b>	<b>2.3</b>	<b>22.1</b>	<b>-2.3</b>	<b>0.1</b>	<b>173</b>	<b>167</b>
<b>2017 drop</b>	<b>2.5</b>	<b>18.4</b>	<b>-2.0</b>	<b>0.7</b>	<b>164</b>	<b>159</b>
<b>2016 drop</b>	<b>1.7</b>	<b>17.7</b>	<b>-2.2</b>	<b>0.2</b>	<b>160</b>	<b>157</b>
<b>Industry Top 1%</b>	<b>12.7</b>	<b>37.3</b>	<b>-3.1</b>	<b>7.0</b>	<b>194</b>	<b>176</b>
<b>Industry Top 5%</b>	<b>10.7</b>	<b>31.5</b>	<b>-2.4</b>	<b>5.0</b>	<b>180</b>	<b>164</b>
<b>Industry Top 10%</b>	<b>9.5</b>	<b>28.6</b>	<b>-2.0</b>	<b>3.9</b>	<b>173</b>	<b>157</b>
<b>Industry Average (50th Percentile)</b>	<b>5.5</b>	<b>18.0</b>	<b>-0.9</b>	<b>0.6</b>	<b>148</b>	<b>138</b>

Percentile band – 7<sup>th</sup>September 2021

<b>Sally Martin</b> M: 0400 782 477 E: <a href="mailto:sally@sheepmetrix.com.au">sally@sheepmetrix.com.au</a>	<b>Rachael Gawne</b> M: 0428 212 801 E: <a href="mailto:rachael@sheepmetrix.com.au">rachael@sheepmetrix.com.au</a>	<b>Samantha Moorfield</b> M: 0448 336 437 E: <a href="mailto:samantha@sheepmetrix.com.au">samantha@sheepmetrix.com.au</a>	<b>Lucinda Eddy</b> M: 0459 438 494 E: <a href="mailto:Lucinda@sheepmetrix.com.au">Lucinda@sheepmetrix.com.au</a>
E: <a href="mailto:hello@sheepmetrix.com.au">hello@sheepmetrix.com.au</a>		W: <a href="http://www.sheepmetrix.com.au">www.sheepmetrix.com.au</a>	

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