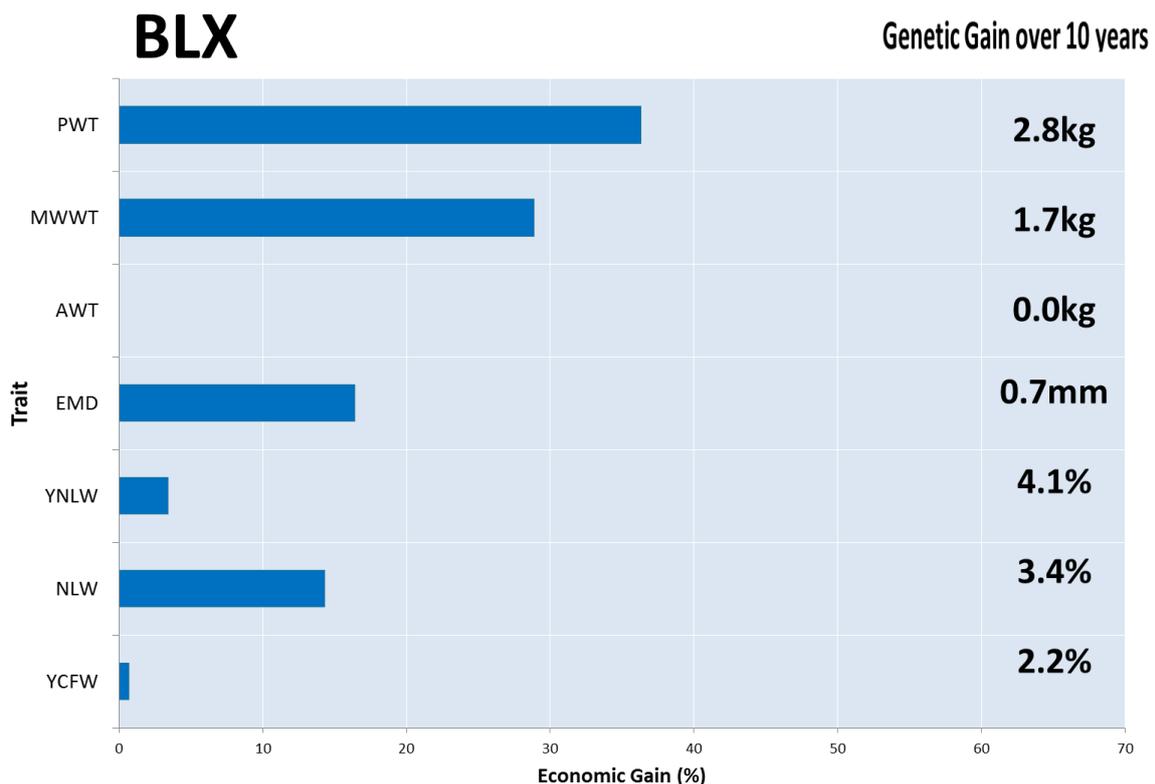




# LAMBPLAN Maternal Indexes

## *Border Leicester Cross (BLX)*

The Border Leicester Cross Index is modelled on a production system using sires crossed to Merino dams producing first cross progeny. The index identifies high early growth animals with a significant response in post weaning weight and maternal ability. It also aims for an improvement in carcass eye muscle depth and number of lambs weaned. There is a small improvement in fleece weights. The index also recognises the importance of maintaining adult weight over time. The contribution of each trait to economic gain is expressed in the graph along with predicted genetic gain over 10 years.



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Sheep Genetics is a joint program of Meat & Livestock Australia Limited ABN 39 081 678 364  
and Australian Wool Innovation Limited ABN 12 095 165 558

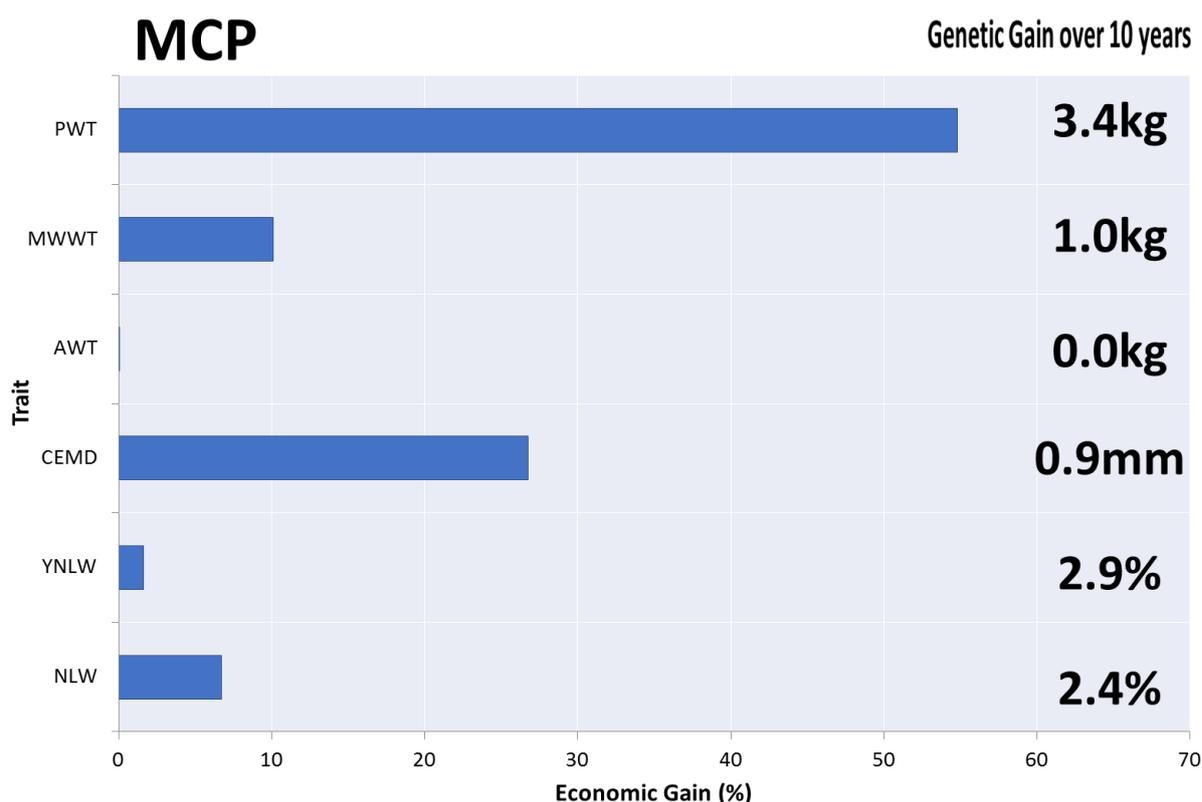




# LAMBPLAN Maternal Indexes

## *Maternal Carcase Production (MCP)*

The Maternal Carcase Production (MCP) index ranks animals on their suitability for a self-replacing system with a carcase production focus. This index balances the main economic traits relevant to Maternal breeders who consider that fleece traits or worm egg count are not economically important. This allows higher gains to be made for growth and carcase traits. The index also assumes no mating to terminal sires. The index aims to maintain adult weight at current levels. The contribution of each trait to economic gain is expressed in the graph along with the predicted genetic gain over 10 years.



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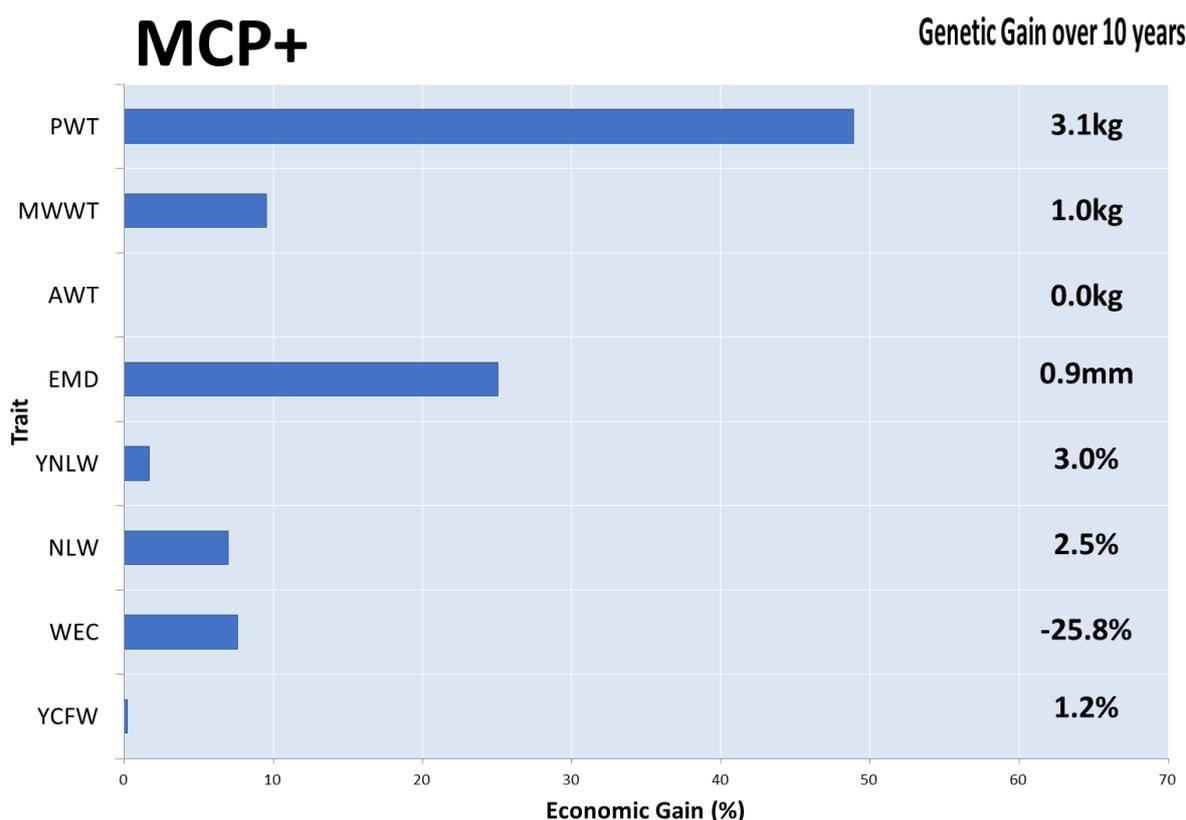




# LAMBPLAN Maternal Indexes

## *Maternal Carcase Production+ (MCP+)*

The Maternal Carcase Production + (MCP+) index is similar to the Maternal Carcase Production (MCP) index, with the addition of both wool and worm egg count. This index targets self-replacing production systems where maintaining adult weight and fleece weights are seen as important at the same time as improving carcase traits. A slight increase in clean fleece weight is expected. This index aims to reduce WEC as it is assumed in the index most enterprises are located in high rainfall areas and/or high input management systems. The contribution of each trait to economic gain is expressed in the graph along with the predicted genetic gain over 10 years.



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# LAMBPLAN

## Maternal Indexes

These indexes are designed to meet different breeding objectives. They are simply a guide to assist animal selection, however when doing so commercial and seedstock producers should first consider their own breeding objective. This will involve considering your current ewe base, the environment they are run in and the target market for their progeny.

### BLX

The BLX index identifies animals suitable for a first cross breeding production system promoting high early growth and maternal ability, improving reproduction and maintaining fleece weight.

### MCP

The MCP index identifies animals suitable for self-replacing production systems with a carcase production focus. This index balances the main economic traits relevant to Maternal breeders where fleece traits or worm egg count are not considered important.

### MCP+

The MCP+ Index identifies animals suitable for self-replacing production systems with a carcase production focus where fleece weights and WEC are important.

*The following table illustrates the predicted genetic gain over 10 years for all recognised traits in the three indexes.*

Trait	BLX	MCP	MCP+
	Gain over 10 years	Gain over 10 years	Gain over 10 years
<b>BWT (kg)</b>	0.1	0.14	0.14
<b>WWT (kg)</b>	1.62	2.04	1.9
<b>PWT (kg)</b>	2.76	3.37	3.11
<b>MWWT (kg)</b>	1.71	1	0.98
<b>AWT (kg)</b>	0	0	0
<b>PFAT (mm)</b>	0.06	0.14	0.27
<b>PEMD (mm)</b>	0.57	0.73	0.75
<b>CEMD (mm)</b>	0.67	0.85	0.87
<b>YNLW (%)</b>	4.07	2.90	3.00
<b>NLW (%)</b>	3.40	2.40	2.51
<b>PWEC (%)</b>	4.64	3.43	-25.82
<b>YGFW (%)</b>	1.48		0.09
<b>YCFW (%)</b>	2.17		1.21
<b>ACFW (%)</b>	-0.3		-1.61

- It is important to note that by maintaining adult weight there is a large impact on the genetic gain made by other traits. The emphasis on adult weight is due to the expression of many breeders in the concern to maintain adult. The level of emphasis on adult weight indicates a need to ensure adult weight is being measured and data is collected and entered.