



The charts shown refer to all animals that have been tested in Australia for GeneSTAR Molecular Value Predictions by Pfizer Animal Genetics until 1st March 2011. This information is provided to help breeders assess the merits of their own animals within the same breed. You should not compare between breeds using these numbers because the MVPs only show part of the genetic variation for each trait. Only those breeds with over 350 animals with GeneSTAR MVP results are represented in the table below; breeds with fewer than 350 records are included in the All Breeds, Bos Indicus, Bos Taurus (European), Bos Taurus (British) and Bos Taurus (Tropically Adapted) information where appropriate.

It should be noted that:

- a) These animals may not necessarily be a representative sample of their respective breeds as they only represent those animals tested; and
- b) GeneSTAR MVP results describe genetic variation within breeds based on a 55 marker panel. The markers do not account for all genetic variation and breed differences may include extra genetic effects that are not described by the GeneSTAR MVP test.

These breed averages and distributions will change slightly over time as more animals are tested and genetic progress is made, so these figures will be updated periodically.

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Percentile Rank

Least Favourable ↔ Most Favourable

Percentile Rank

| | All Breeds | Bos Indicus | Bos Taurus (British) | Bos Taurus (European) | Bos Taurus (Tropically adapted) |
|-----------|------------|-------------|-------------------------|--------------------------|------------------------------------|
| Top Value | 0.94 | 0.75 | 0.94 | 0.62 | 0.38 |
| Top 1% | 0.62 | 0.13 | 0.72 | 0.36 | 0.17 |
| Top 5% | 0.42 | -0.02 | 0.57 | 0.24 | 0.03 |
| Top 10% | 0.29 | -0.10 | 0.48 | 0.17 | -0.02 |
| Top 20% | 0.12 | -0.18 | 0.36 | 0.09 | -0.09 |
| Top 30% | 0.01 | -0.24 | 0.27 | 0.02 | -0.13 |
| Top 40% | -0.07 | -0.28 | 0.20 | -0.03 | -0.19 |
| Top 50% | -0.16 | -0.32 | 0.13 | -0.07 | -0.22 |
| Top 60% | -0.23 | -0.36 | 0.06 | -0.12 | -0.26 |
| Top 70% | -0.30 | -0.40 | 0.00 | -0.17 | -0.30 |
| Top 80% | -0.36 | -0.44 | -0.07 | -0.23 | -0.34 |
| Top 90% | -0.44 | -0.49 | -0.16 | -0.31 | -0.41 |
| Top 100% | -0.92 | -0.92 | -0.67 | -0.67 | -0.70 |

*Marbling is measured as AUS-MEAT Marble Score



Percentile Rank

Least Favourable
↕
Most Favourable

Percentile Rank

| | All Breeds | Bos Indicus | Bos Taurus (British) | Bos Taurus (European) | Bos Taurus (Tropically adapted) |
|-----------|------------|-------------|----------------------|-----------------------|---------------------------------|
| Top Value | -0.52 | -0.43 | -0.52 | -0.47 | -0.31 |
| Top 1% | -0.30 | -0.17 | -0.33 | -0.31 | -0.20 |
| Top 5% | -0.20 | -0.05 | -0.26 | -0.19 | -0.13 |
| Top 10% | -0.14 | 0.03 | -0.21 | -0.14 | -0.07 |
| Top 20% | -0.06 | 0.12 | -0.15 | -0.07 | -0.01 |
| Top 30% | 0.01 | 0.19 | -0.11 | -0.02 | 0.04 |
| Top 40% | 0.06 | 0.25 | -0.07 | 0.03 | 0.08 |
| Top 50% | 0.13 | 0.31 | -0.03 | 0.07 | 0.12 |
| Top 60% | 0.19 | 0.36 | 0.01 | 0.11 | 0.16 |
| Top 70% | 0.27 | 0.42 | 0.05 | 0.16 | 0.21 |
| Top 80% | 0.36 | 0.48 | 0.10 | 0.21 | 0.27 |
| Top 90% | 0.48 | 0.57 | 0.17 | 0.28 | 0.34 |
| Top 100% | 0.98 | 0.98 | 0.53 | 0.67 | 0.69 |

*Tenderness is measured as Warner-Bratzler shear force (kg)



Percentile Rank

Least Favourable

↕

Most Favourable

Percentile Rank

| | All Breeds | Bos Indicus | Bos Taurus (British) | Bos Taurus (European) | Bos Taurus (Tropically adapted) |
|-----------|------------|-------------|-------------------------|--------------------------|------------------------------------|
| Top Value | -1.16 | -1.11 | -1.16 | -1.03 | -0.82 |
| Top 1% | -0.77 | -0.79 | -0.76 | -0.77 | -0.65 |
| Top 5% | -0.58 | -0.60 | -0.56 | -0.56 | -0.50 |
| Top 10% | -0.48 | -0.50 | -0.46 | -0.47 | -0.43 |
| Top 20% | -0.37 | -0.40 | -0.33 | -0.34 | -0.33 |
| Top 30% | -0.28 | -0.31 | -0.24 | -0.26 | -0.23 |
| Top 40% | -0.21 | -0.24 | -0.17 | -0.19 | -0.16 |
| Top 50% | -0.13 | -0.17 | -0.09 | -0.11 | -0.11 |
| Top 60% | -0.06 | -0.10 | -0.02 | -0.04 | -0.04 |
| Top 70% | 0.01 | -0.03 | 0.06 | 0.04 | 0.03 |
| Top 80% | 0.10 | 0.06 | 0.16 | 0.14 | 0.14 |
| Top 90% | 0.23 | 0.17 | 0.29 | 0.26 | 0.27 |
| Top 100% | 1.03 | 0.76 | 1.01 | 0.98 | 1.03 |

*Feed Efficiency is measured as net feed intake (kg/day)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -1.16 | 0.92 | -0.47 |
| Top 1% | -0.75 | 0.57 | -0.34 |
| Top 5% | -0.58 | 0.42 | -0.28 |
| Top 10% | -0.48 | 0.34 | -0.23 |
| Top 20% | -0.36 | 0.25 | -0.18 |
| Top 30% | -0.26 | 0.19 | -0.13 |
| Top 40% | -0.19 | 0.14 | -0.09 |
| Top 50% | -0.11 | 0.09 | -0.06 |
| Top 60% | -0.04 | 0.04 | -0.02 |
| Top 70% | 0.04 | 0.00 | 0.02 |
| Top 80% | 0.13 | -0.06 | 0.06 |
| Top 90% | 0.27 | -0.12 | 0.13 |
| Top 100% | 0.85 | -0.50 | 0.53 |

Least Favourable \longleftrightarrow Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -0.89 | 0.33 | -0.38 |
| Top 1% | -0.74 | 0.23 | -0.35 |
| Top 5% | -0.58 | 0.17 | -0.26 |
| Top 10% | -0.54 | 0.10 | -0.22 |
| Top 20% | -0.45 | 0.02 | -0.18 |
| Top 30% | -0.35 | -0.04 | -0.14 |
| Top 40% | -0.29 | -0.08 | -0.11 |
| Top 50% | -0.23 | -0.13 | -0.08 |
| Top 60% | -0.17 | -0.19 | -0.04 |
| Top 70% | -0.11 | -0.22 | 0.00 |
| Top 80% | -0.02 | -0.27 | 0.05 |
| Top 90% | 0.11 | -0.32 | 0.11 |
| Top 100% | 0.82 | -0.55 | 0.48 |

Least Favourable ↔ Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -0.92 | 0.29 | -0.08 |
| Top 1% | -0.58 | -0.05 | 0.07 |
| Top 5% | -0.41 | -0.16 | 0.17 |
| Top 10% | -0.32 | -0.21 | 0.24 |
| Top 20% | -0.23 | -0.26 | 0.31 |
| Top 30% | -0.15 | -0.30 | 0.37 |
| Top 40% | -0.10 | -0.33 | 0.41 |
| Top 50% | -0.04 | -0.36 | 0.45 |
| Top 60% | 0.01 | -0.39 | 0.49 |
| Top 70% | 0.07 | -0.41 | 0.54 |
| Top 80% | 0.14 | -0.45 | 0.59 |
| Top 90% | 0.23 | -0.47 | 0.66 |
| Top 100% | 0.71 | -0.74 | 0.95 |

Least Favourable \longleftrightarrow Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -0.71 | 0.28 | -0.26 |
| Top 1% | -0.58 | 0.18 | -0.15 |
| Top 5% | -0.41 | 0.13 | -0.09 |
| Top 10% | -0.32 | 0.10 | -0.04 |
| Top 20% | -0.23 | 0.02 | 0.01 |
| Top 30% | -0.14 | -0.03 | 0.07 |
| Top 40% | -0.07 | -0.07 | 0.12 |
| Top 50% | 0.01 | -0.12 | 0.17 |
| Top 60% | 0.07 | -0.17 | 0.19 |
| Top 70% | 0.14 | -0.22 | 0.24 |
| Top 80% | 0.24 | -0.29 | 0.30 |
| Top 90% | 0.37 | -0.32 | 0.41 |
| Top 100% | 0.67 | -0.62 | 0.73 |

Least Favourable ↔ Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -1.03 | 0.45 | -0.29 |
| Top 1% | -0.75 | 0.36 | -0.18 |
| Top 5% | -0.55 | 0.24 | -0.09 |
| Top 10% | -0.45 | 0.17 | -0.05 |
| Top 20% | -0.32 | 0.06 | 0.01 |
| Top 30% | -0.24 | 0.00 | 0.05 |
| Top 40% | -0.15 | -0.04 | 0.09 |
| Top 50% | -0.09 | -0.08 | 0.13 |
| Top 60% | -0.01 | -0.13 | 0.16 |
| Top 70% | 0.07 | -0.17 | 0.20 |
| Top 80% | 0.17 | -0.23 | 0.24 |
| Top 90% | 0.29 | -0.31 | 0.30 |
| Top 100% | 0.98 | -0.55 | 0.56 |

Least Favourable \longleftrightarrow Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -1.11 | 0.30 | -0.29 |
| Top 1% | -0.77 | 0.07 | -0.18 |
| Top 5% | -0.56 | -0.03 | -0.09 |
| Top 10% | -0.46 | -0.08 | -0.05 |
| Top 20% | -0.37 | -0.16 | 0.01 |
| Top 30% | -0.29 | -0.21 | 0.05 |
| Top 40% | -0.23 | -0.26 | 0.09 |
| Top 50% | -0.16 | -0.29 | 0.13 |
| Top 60% | -0.09 | -0.33 | 0.16 |
| Top 70% | -0.02 | -0.38 | 0.20 |
| Top 80% | 0.07 | -0.42 | 0.24 |
| Top 90% | 0.17 | -0.49 | 0.30 |
| Top 100% | 0.72 | -0.85 | 0.56 |

Least Favourable \longleftrightarrow Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| | Feed Efficiency | Marbling | Tenderness |
|-----------|-----------------|----------|------------|
| Top Value | -0.70 | 0.51 | -0.40 |
| Top 1% | -0.60 | 0.40 | -0.33 |
| Top 5% | -0.33 | 0.27 | -0.26 |
| Top 10% | -0.26 | 0.20 | -0.21 |
| Top 20% | -0.16 | 0.13 | -0.16 |
| Top 30% | -0.06 | 0.09 | -0.12 |
| Top 40% | 0.03 | 0.05 | -0.07 |
| Top 50% | 0.11 | 0.01 | -0.03 |
| Top 60% | 0.18 | -0.04 | 0.01 |
| Top 70% | 0.27 | -0.08 | 0.06 |
| Top 80% | 0.36 | -0.14 | 0.11 |
| Top 90% | 0.49 | -0.24 | 0.18 |
| Top 100% | 1.01 | -0.62 | 0.52 |

Least Favourable
 ↑
 Most Favourable
 ↓
 Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -1.08 | 0.19 | -0.35 |
| Top 1% | -0.89 | 0.03 | -0.14 |
| Top 5% | -0.69 | -0.10 | -0.03 |
| Top 10% | -0.61 | -0.16 | 0.04 |
| Top 20% | -0.51 | -0.23 | 0.12 |
| Top 30% | -0.44 | -0.27 | 0.19 |
| Top 40% | -0.39 | -0.31 | 0.23 |
| Top 50% | -0.33 | -0.35 | 0.28 |
| Top 60% | -0.28 | -0.39 | 0.33 |
| Top 70% | -0.21 | -0.42 | 0.38 |
| Top 80% | -0.14 | -0.46 | 0.44 |
| Top 90% | -0.04 | -0.53 | 0.51 |
| Top 100% | 0.76 | -0.92 | 0.87 |

Least Favourable \longleftrightarrow Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



| | | Trait | | |
|--|-----------|-----------------|----------|------------|
| | | Feed Efficiency | Marbling | Tenderness |
| Least Favourable ↑ Most Favourable ↓ Percentile Rank | Top Value | -0.80 | 0.38 | -0.14 |
| | Top 1% | -0.65 | 0.17 | -0.10 |
| | Top 5% | -0.54 | 0.07 | -0.04 |
| | Top 10% | -0.48 | -0.01 | 0.01 |
| | Top 20% | -0.40 | -0.08 | 0.06 |
| | Top 30% | -0.33 | -0.13 | 0.11 |
| | Top 40% | -0.26 | -0.19 | 0.16 |
| | Top 50% | -0.19 | -0.22 | 0.19 |
| | Top 60% | -0.14 | -0.26 | 0.23 |
| | Top 70% | -0.09 | -0.31 | 0.28 |
| | Top 80% | -0.01 | -0.36 | 0.32 |
| | Top 90% | 0.11 | -0.42 | 0.40 |
| | Top 100% | 0.56 | -0.67 | 0.69 |

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -0.96 | 0.52 | 0.42 |
| Top 1% | -0.84 | 0.36 | -0.19 |
| Top 5% | -0.65 | 0.22 | -0.12 |
| Top 10% | -0.53 | 0.16 | -0.08 |
| Top 20% | -0.43 | 0.09 | -0.02 |
| Top 30% | -0.36 | 0.01 | 0.02 |
| Top 40% | -0.29 | -0.04 | 0.06 |
| Top 50% | -0.25 | -0.08 | 0.09 |
| Top 60% | -0.19 | -0.12 | 0.12 |
| Top 70% | -0.11 | -0.18 | 0.15 |
| Top 80% | -0.05 | -0.24 | 0.18 |
| Top 90% | 0.07 | -0.34 | 0.22 |
| Top 100% | 0.52 | -0.66 | 0.42 |

Least Favourable \longleftrightarrow Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -1.04 | 0.38 | -0.34 |
| Top 1% | -0.65 | 0.24 | -0.23 |
| Top 5% | -0.57 | 0.10 | -0.13 |
| Top 10% | -0.49 | 0.04 | -0.10 |
| Top 20% | -0.37 | -0.04 | -0.03 |
| Top 30% | -0.29 | -0.11 | 0.03 |
| Top 40% | -0.21 | -0.16 | 0.08 |
| Top 50% | -0.14 | -0.20 | 0.13 |
| Top 60% | -0.08 | -0.24 | 0.17 |
| Top 70% | 0.01 | -0.28 | 0.22 |
| Top 80% | 0.09 | -0.35 | 0.28 |
| Top 90% | 0.22 | -0.41 | 0.36 |
| Top 100% | 0.70 | -0.81 | 0.72 |

Least Favourable \longleftrightarrow Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



| | | Trait | | |
|--|-----------|-----------------|----------|------------|
| | | Feed Efficiency | Marbling | Tenderness |
| Least Favourable ↑ Most Favourable ↓ Percentile Rank | Top Value | -0.99 | 0.47 | -0.47 |
| | Top 1% | -0.66 | 0.38 | -0.21 |
| | Top 5% | -0.49 | 0.26 | -0.12 |
| | Top 10% | -0.42 | 0.20 | -0.06 |
| | Top 20% | -0.30 | 0.14 | 0.01 |
| | Top 30% | -0.23 | 0.08 | 0.05 |
| | Top 40% | -0.16 | 0.02 | 0.09 |
| | Top 50% | -0.09 | -0.03 | 0.13 |
| | Top 60% | -0.01 | -0.08 | 0.16 |
| | Top 70% | 0.07 | -0.12 | 0.20 |
| | Top 80% | 0.16 | -0.18 | 0.24 |
| | Top 90% | 0.29 | -0.27 | 0.31 |
| | Top 100% | 0.87 | -0.52 | 0.58 |

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -0.86 | 0.53 | -0.41 |
| Top 1% | -0.80 | 0.40 | -0.39 |
| Top 5% | -0.57 | 0.25 | -0.30 |
| Top 10% | -0.48 | 0.18 | -0.24 |
| Top 20% | -0.36 | 0.11 | -0.19 |
| Top 30% | -0.28 | 0.06 | -0.16 |
| Top 40% | -0.21 | 0.00 | -0.13 |
| Top 50% | -0.11 | -0.04 | -0.10 |
| Top 60% | -0.06 | -0.07 | -0.07 |
| Top 70% | 0.02 | -0.13 | -0.04 |
| Top 80% | 0.11 | -0.18 | 0.00 |
| Top 90% | 0.20 | -0.32 | 0.07 |
| Top 100% | 0.67 | -0.67 | 0.28 |

Least Favourable ↔ Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)



Trait

| Percentile Rank | Trait | | |
|-----------------|-----------------|----------|------------|
| | Feed Efficiency | Marbling | Tenderness |
| Top Value | -0.77 | 0.94 | -0.52 |
| Top 1% | -0.63 | 0.77 | -0.34 |
| Top 5% | -0.47 | 0.68 | -0.26 |
| Top 10% | -0.38 | 0.61 | -0.21 |
| Top 20% | -0.27 | 0.53 | -0.16 |
| Top 30% | -0.19 | 0.47 | -0.11 |
| Top 40% | -0.12 | 0.42 | -0.08 |
| Top 50% | -0.05 | 0.36 | -0.04 |
| Top 60% | 0.01 | 0.31 | 0.01 |
| Top 70% | 0.09 | 0.27 | 0.04 |
| Top 80% | 0.18 | 0.20 | 0.10 |
| Top 90% | 0.28 | 0.12 | 0.18 |
| Top 100% | 0.86 | -0.60 | 0.46 |

Least Favourable ↔ Most Favourable

Percentile Rank

a FE is measured as net feed intake (kg/day)

b Marbling is measured as AUS-MEAT marbling score (0 – 9)

c Tenderness is measured as Warner-Bratzler shear force (kg)