

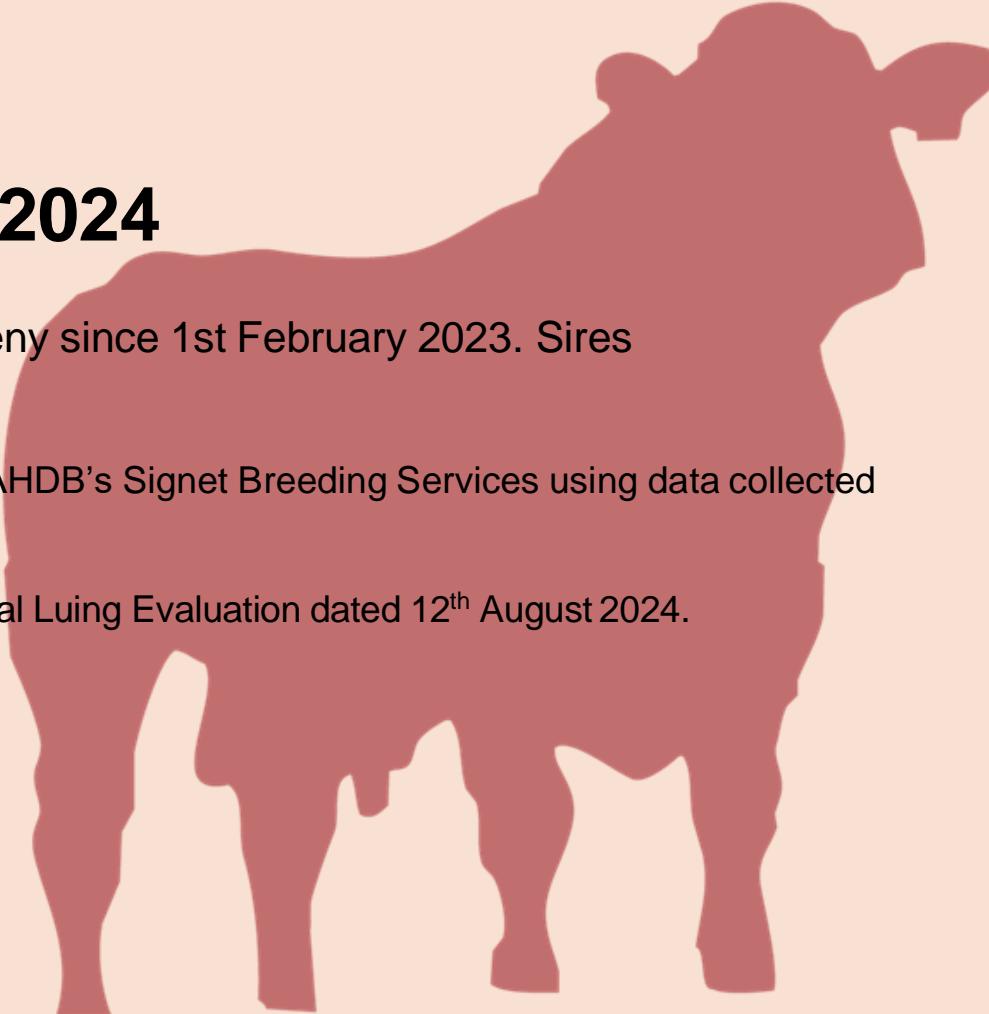


Luing Sire Summary for 2024

A list of Luing Sires that have produced progeny since 1st February 2023. Sires are listed alphabetically.

These results are delivered to the beef industry by AHDB's Signet Breeding Services using data collected through the Signet Beefbreeder service.

The EBVs in this publication are based on the National Luing Evaluation dated 12th August 2024.



Introduction

This Breeding Report has been published by Signet Breeding Services in association with the Luing Cattle Society. Both Signet and the Society continue to encourage all breeders of Luing cattle to record. More records give a truer picture and greater accuracy in the breeding values produced for individual bulls.

We believe that the figures in this document, if used sensibly, can be of benefit to pedigree and commercial breeders.

For more information about Signet's Beefbreeder Recording Service

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Why is Performance Recording Important?

The performance and physical appearance of animals are the result of a combination of factors; the genes they get from their parents, management such as feeding, and other effects such as age and sex.

To make genetic improvement breeders need to be able to assess how much of an animal's performance is controlled by its genes alone, i.e. its breeding value, and how much is due to everything else (the 'environment').

Estimated Breeding Values (EBVs)

The best way to measure the breeding value of an animal is to record its performance and analyse this data to produce *Estimated Breeding Values* (EBVs).

The EBVs are expressed in the same units as they were measured (e.g. 400-day growth in kg, muscle depth in mm), with the average EBV of animals born in the base year set to zero for all traits. Because EBVs and Indexes are expressed relative to a common base, direct comparisons can be made between Luing herds and across years allowing measurement of genetic progress.

EBVs estimate the genetic merit of animals, but calves get only half of their genes from each parent. Before the calf has any performance records of its own, the best estimate of its own EBV is half the sire EBV plus half its dam EBV.

Accuracy Values

Given that the EBV is an estimate of the true breeding value of an animal it is valuable to know the accuracy of the estimate. The Accuracy (Acc %) provides a measure of confidence in the EBV for each trait. It is expressed as a percentage and is calculated from the number of performance records that exist for each trait on the animal itself and all its relatives including progeny, parents, full and half brothers and sisters.

The higher the accuracy the greater the confidence in the EBV and the lower the chance of it changing with new information. The potential range in accuracy values will depend on the particular trait with highly heritable traits having a higher range than those with a low heritability.

It is important to note that BLUP evaluations compensate for a lack of information on an animal by adjusting its EBVs towards the average so there is no need to discount EBVs with low accuracies still further.

Interpreting Estimated Breeding Values (EBVs)

Birth Weight EBV (expressed in kg).

The calf's weight at birth. Higher values for birth weight are more likely to be associated with difficult calvings.

Calving Ease EBV

EBVs for calving ease predict the direct effect of using a particular bull on the percentage of unassisted calvings.

Maternal Calving Ease EBV

A predictor of the proportion of unassisted calvings that you would expect due to the genes influencing the ease with which cows and heifers give birth.

Gestation Length EBV (days)

Short gestation lengths (negative values) result in easier calving because birthweights tend to be lower.

Calving Value (A sub-index)

The Calving Value indicates what the effect will be of using a particular bull on the ease with which his progeny are born.

200 Day Weight EBV (expressed in kg liveweight).

The best estimate of the sire's genetic merit for growth to weaning. Higher positive values indicate faster growth.

400 Day Weight EBV (expressed in kg liveweight).

The best estimate of the sire's genetic merit for growth to 400 days of age. Higher positive values indicate faster growth.

Muscle Depth EBV (expressed in mm)

Muscle and fat depth are measured by ultrasonic scanning. Selecting for this trait will increase the yield of lean meat in the carcase.

Fat Depth EBV (expressed in mm fat)

Indicates animals capable of producing leaner carcases or being taken to heavier carcase weights without becoming overfat. Negative values indicate leaner stock.

Beef Value (A sub-index)

The Beef Value ranks animals on their estimated overall genetic merit for growth and carcase traits.

200 Day Milk EBV (expressed in kg liveweight).

The maternal component of 200-day weight indicates how well a bull's daughters will perform when they become mothers and is greatly influenced by milking ability. This trait will be expressed by females, but both males and females carry the genes that will influence maternal performance.

Age at 1st Calving EBV

Herds looking to calve heifers at two years of age should identify bulls with superior (negative) EBVs for this trait. This will increase conception rates at first mating.

Longevity EBV

Predicts the length of an animal's breeding life in the herd.

Positive values = longer breeding life

Calving Interval EBV

This EBV can be used to breed cows with short calving intervals that get in calf again quickly. Negative values = cows that get back in calf more quickly.

Maternal Value (A sub-index)

The economic value of an animal's genetic ability to produce productive breeding females

Maternal Production Value (A breeding index)

The economic value of an animal in terms of its genetic potential to produce females for breeding and animals with beef carcase characteristics

Calculated from the sub-indexes

- Calving Value
- Beef Value
- Maternal Value

LUNG Sire Summary

Analysis Date: 12-08-2024

Animal	Sire	Dam	Birth Date	Birth Weight	Calving Ease	Maternal Calving Ease	Gestation Length	Calving Value	200 Day Weight	400 Day Weight	Muscle Depth	Fat Depth	Beef Value	200 Day Milk	Age at 1st Calving	Longevity	Calving Interval	Maternal Value	Maternal Prod Value
			Progeny																
UK 562086/501138 WOOPLAW TUSSOCK L05105	UK 561834/301171 COMMONSIDE NICK P L04229	UK 562086/200778 WOOPLAW MORVEN 4TH M78	24-04-2015 105	0.70 82	-0.40 76	0.60 62	0.80 64	1 76	1 62	1 64	0.20 60	0.00 31	7 75	-2 45	0.06 56	0.60 71	-0.10 61	2 59	1 61
UK 562086/101281 WOOPLAW WARLORD L05580	UK 562086/601069 WOOPLAW SCALPAY L04885	UK 562086/401081 WOOPLAW STELLA 5TH S81	20-03-2017 49	-0.50 39	-0.40 42	-0.60 27	-0.60 27	3 39	-2 29	-5 26	-0.30 27	0.00 17	6 34	2 22	-0.08 35	0.20 44	0.80 33	9 34	9 33
UK 562086/501264 WOOPLAW WILLIAM SV L05585	UK 562086/601069 WOOPLAW SCALPAY L04885	UK 562086/600474 WOOPLAW GRACE 12TH G74 P2	28-05-2017 32	-0.40 40	0.20 37	-0.30 23	-0.40 28	2 36	-3 28	-5 26	-0.40 27	0.00 16	6 35	1 21	-0.03 28	0.10 45	0.60 34	3 32	3 30
UK 562086/501278 WOOPLAW WP L05583	UK 562086/201058 WOOPLAW STRATHMASHIE L048	UK 562086/200778 WOOPLAW MORVEN 4TH M78	16-04-2017 120	-1.10 91	0.60 83	-0.10 25	-1.10 76	4 86	-6 75	-9 82	-0.90 81	-0.10 61	5 85	0 17	0.02 33	0.20 40	1.30 32	-2 32	-2 49
UK 562086/401557 WOOPLAW ZAMBEZI SV L07212	UK 562086/501145 WOOPLAW TORRIDON L05100	UK 562086/301157 WOOPLAW TESS 16TH T57	06-05-2020 15	-0.60 32	0.40 31	-0.20 23	-0.60 26	3 31	-2 27	-4 25	-0.40 26	0.00 17	7 30	0 22	-0.04 29	0.10 41	-1.90 34	7 31	8 29
UK 562086/601524 WOOPLAW ZAZU SV L07214	UK 562086/601132 WOOPLAW THOR	UK 562086/501124 WOOPLAW TARA 3RD T24	16-05-2020 18	-1.30 52	1.20 47	-0.20 25	-1.00 43	4 49	-8 49	-17 48	-1.00 46	0.00 31	1 51	0 31	0.00 39	0.40 39	0.30 31	4 35	6 39
UK 562086/501537 WOOPLAW ZEALAND SV L07205	UK 562086/601132 WOOPLAW THOR	UK 562086/501187 WOOPLAW WALNUT 6TH W87	15-04-2020 9	-1.50 55	1.20 57	-0.10 24	-1.30 44	4 54	-9 50	-17 49	-1.20 47	-0.10 30	2 53	0 31	-0.03 39	0.50 39	2.60 31	5 35	6 40
UK 562086/301563 WOOPLAW ZINZAN L07209	UK 562086/501145 WOOPLAW TORRIDON L05100	UK 562086/301143 WOOPLAW TATIANA 1ST T43	25-04-2020 10	-0.40 26	0.20 25	-0.10 19	-0.40 21	2 25	-1 22	-3 21	-0.20 21	0.00 15	7 25	1 18	-0.04 27	0.30 38	-0.50 33	10 29	10 26
UK 562086/701497 WOOPLAW ZURICH L07206	UK 562086/201058 WOOPLAW STRATHMASHIE L048	UK 562086/500977 WOOPLAW RUBY 3RD R77	22-04-2020 10	-0.10 44	-0.50 54	-0.30 20	-0.30 30	2 47	1 31	0 27	0.00 29	0.00 16	7 39	1 17	-0.01 28	0.40 37	-0.60 31	7 29	7 30