

Boerboel Genetic Evaluation

SA Stud Book

February 2026

MNR. W.J. BASSON

POSBUS 289

0

CERES

6835



Kennel Number: 711553



Estimated Breeding Values (EBVs)

Litter size and conformation traits are influenced by many genes, with every gene making a small contribution to the expression of the trait. These traits are, however, also influenced by physiological and physical environmental factors, for example the age and sex of the animal, the feeding and management the animal received and year x season effects. It is therefore not possible to know what the animal's genetic potential for the trait is by merely using the measurement.

With BLUP (*Best Linear Unbiased Prediction*) methodology an animal's genetic potential is predicted by making use of the genetic parameters (heritabilities and genetic correlations) of the breed, pedigree information, as well as the measurements of the animal as deviation from the average of the animals that were measured with the animal. Adjustments are made for differences in sex, age, classifier, management and year x season effects to ensure that fair comparisons are made amongst the animals. These predictions are called **EBVs (Estimated Breeding Values)** which indicates the animal's genetic potential for the specific trait and predicts the type of progeny that the animal will breed.

Pedigree information determines the genetic level at which the animal enters the genetic evaluation, it links the information of all relatives together and it is used to determine the genetic ranking of the breed. For young animals that were not yet measured, mid-parent EBVs are estimated, which are the average of the EBVs of the sire and dam. These breeding values are still inaccurate and can change a lot when more information (measurements) is included in subsequent genetic evaluations.

Breeding values therefore enables a breeder to compare his/her animals genetically to one another, as well as to all other animals of the breed. This Report gives a summary of the genetic levels of the active males and females of the relevant breeder in comparison to that of the breed for linearly classified traits and litter size. The genetic change that occurred over time can also easily be seen.

Breeding Value Indices (EBVi)

For easy interpretation, EBVs are standardised and expressed relative to the average (100) of the active animals of the breed, using 12 as standard deviation (SD). This means that an EBV of 100 is equal to the active average of the breed, and more or less 50% of the animals will have EBVi's of between 90 and 110, which indicates an average animal. Only 0.5% of the EBVi's will be lower than 64 and 0.5% will be higher than 136. Higher EBVi's indicate better genetic potential for the trait.

Accuracy

EBVs are published with an **accuracy value (%)**, which indicates how much info was available for the estimation of the EBV and with how much trust it can therefore be applied. Factors that influence the accuracy include heritability, completeness and correctness of pedigree information, number of own and measured relatives and the size of the group in which the animal was measured. When an accuracy of 85% and more is reached, the EBV should not change significantly with the inclusion of more information in subsequent genetic evaluations.

Kennel and Breed Averages: The different traits' averages of the breeder's active animals are compared to those of the breed in the Kennel and Breed Average Graphs and Tables. The breeder can therefore easily see for which traits the animals are above or below the average of the breed.

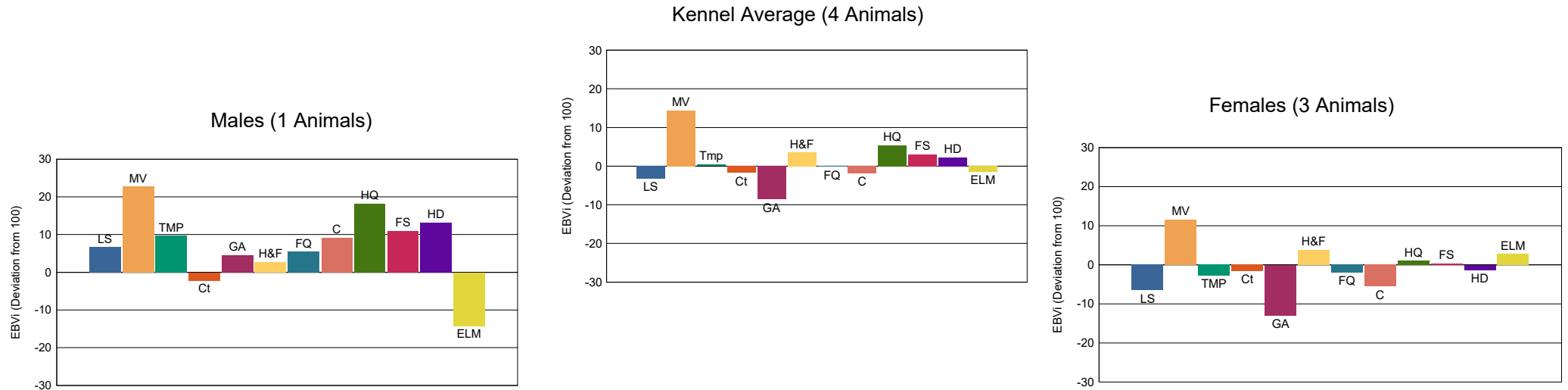
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

Inbreeding: Inbreeding is the mating of related animals and is widely viewed as being harmful. The danger of inbreeding lies there in that it can gradually decrease fertility and survivability – a phenomenon known as inbreeding depression. It can cause lower conception rates, more abortions, more stillborn and weak offspring and a higher susceptibility to diseases. Indications in dogs include a low litter size as well as problems relative to fertility, such as invisible heat, behavioural problems when mating and low sperm quality. Overall, reduced litter size most likely reflects inbreeding depression in several traits, both physiological and behavioural, as well as a high frequency of non-viable embryos due to lethal alleles. Generally, the effects of inbreeding can become noticeable at a value of 6.25%, therefore it is generally recommended that individuals should have inbreeding coefficients of less than 6.25%. Breeders should therefore avoid matings causing inbreeding of more than 6.25% in the progeny. The theoretical maximum inbreeding coefficient is 50%. However, it should be noted that not all inbred animals show signs of inbreeding depression.

The data used in this evaluation was obtained from LOGIX from linear classifications that were done by the Breeder Society. All possible attempts have been made to present the information correctly. SA Stud Book does not accept responsibility for the use and interpretation of the information presented on animals in this publication.

Genetic Levels

Kennel Average relative to Breed Average, where Breed Average is indicated as 0



Average Breeding Value Indices (EBVi) where Breed Average = 100

Trait	All Animals	Males	Females
Litter size (LS)	97	107	94
Movement (Mv)	114	123	112
Temperament (Tmp)	100	110	97
Coat (Ct)	98	98	98
General Appearance	91	105	87
Head & Face (H&F)	104	103	104
Front Quarter (FQ)	100	105	98
Centre (C)	98	109	95
Hind Quarter (HQ)	105	118	101
Final Score (FS)	103	111	100
Hip Health (HH)	102	113	99
Elbow Health (ELM)	99	86	103

Inbreeding

Notes

Inbreeding primarily leads to decreased fertility, low survivability of pups and low disease resistance.

Inbreeding coefficients are calculated for all animals of the breed and indicates the probability that two genes of a pair are the same due to a common ancestor in the pedigree of the animal.

The adverse effects of inbreeding can be observed from 6.25% onwards.

It is therefore highly recommended to record pedigree information as accurately as possible. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients are therefore conservative indicators of the level of inbreeding.

Incomplete or incorrect pedigree information can be reported to SA Stud Book via the Breed Society.

Rate of Inbreeding

Inbreeding Levels for Specific Matings

Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Inbreeding Levels

	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	4	49007	1	25141	3	23857	4	3371	4	6287
Average Inbreeding	7.00	8.49	13.60	8.46	4.80	8.53	10.15	8.01	7.92	8.00
Number inbred	4	48727	1	24990	3	23728	4	24990	4	23728
Number >6.25% Inbr.	1	30600	1	15537		15058	3	15537	1	15058

Estimated Breeding Value Indices (EBVi's)

Males

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move- ment	Tempe- rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels		Hips	Elbows	
WOEKER BBD MAX II		LOMBARD SUPERIOR HAMMILTON	13.60	113	86	107	123	110	98	105	103	105	109	118	111						
	2021	WOEKER BBD LISA		5	5	9	44	10	61	43	60	45	47	50	55						

Estimated Breeding Value Indices (EBVi's)

Females

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
DELMA LEVI		WOEKER BBD JAPIE	6.00	103	107	84	114	103	124	99	105	93	91	100	104	13	3	2			2
	2019	DELMA MAYA		5	5	47	53	31	68	53	67	54	56	58	63			2			1
BREKER FUDGE		BREKER MENEER	2.76	98	99	98	107	95	87	82	106	103	93	101	99	21	2	1			
	2020	DELMA ABBY I		5	5	42	54	31	68	53	67	55	56	59	63			1			
DELMA BELLA 10		DELAKLERK ENZO	5.63	96	103	99	114	94	84	80	100	98	99	102	98						
	2021	BREKER FUDGE		5	5	6	33	5	47	33	46	34	36	38	43						

Estimated Breeding Value Indices (EBVi's)

Sires

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Sire Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels	Hips	Elbows		
BREKER MENEER		VOORSLAG BBD PIKSTEEL	3.84	96	107	77	72	80	81	75	111	102	84	94	92	126 22	56 41	1 1	36 9		
	2015	BREKER NELLA		5	5	56	79	57	88	79	88	80	81	83	86						
WOEKER BBD JAPIE		MIDDELPOS BBD JOCK 1	13.41	114	104	92	123	117	92	103	107	107	108	111	111	147 26	40 29	1 1	19 6		
	2016	MIDDELPOS BBD FIELA 3		5	5	55	76	54	86	75	86	77	78	80	83						
LOMBARD SUPERIOR HAMMILTON		MES RUBENSTEIN	11.16	111	73	122	121	116	99	102	103	108	108	116	111	16 5	5 3		2 1		
	2019	LOMBARD SUPERIOR ALASKA		8	25	37	63	42	76	63	75	64	66	68	71						
DELAKLERK ENZO		VILLA ROUGE GOLIAT	12.20	94	108	100	120	92	82	78	94	93	105	102	96	81 12	6 6		3 2		
	2020	DELAKLERK LUNA		5	5	15	52	14	70	51	69	53	55	58	64						

Estimated Breeding Value Indices (EBVi's)

Dams

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move- ment	Tempe- r ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
DELMA MAYA	2015	MIDDELPOS BBD OSCAR	1.07	92	109	89	112	95	132	93	93	84	85	93	94	26	3	5			6
		DELMA BRUSHKA		15	21	55	49	30	63	49	62	50	52	54	58			4			1
DELMA ABBY I	2016	DEO-HAN ZORBA	2.18	99	90	88	123	99	109	90	93	95	93	100	98	23	2	9			6
		DELMA BELLA		5	5	51	56	29	73	55	72	57	60	62	68			6			2
WOEKER BBD LISA	2019	WOEKER BBD WOEKER	25.66	115	99	91	128	108	114	107	107	108	115	124	118	6	2	3			
		WOEKER BBD PATRYS		5	5	30	53	17	70	52	69	54	56	59	64			2			
BREKER FUDGE	2020	BREKER MENEER	2.76	98	99	98	107	95	87	82	106	103	93	101	99	21	2	1			
		DELMA ABBY I		5	5	42	54	31	68	53	67	55	56	59	63			1			

