

Boerboel Genetic Evaluation

SA Stud Book
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113 FIRST STREET
SANDHURST
SANDTON
2196



Kennel Number: 705796



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.

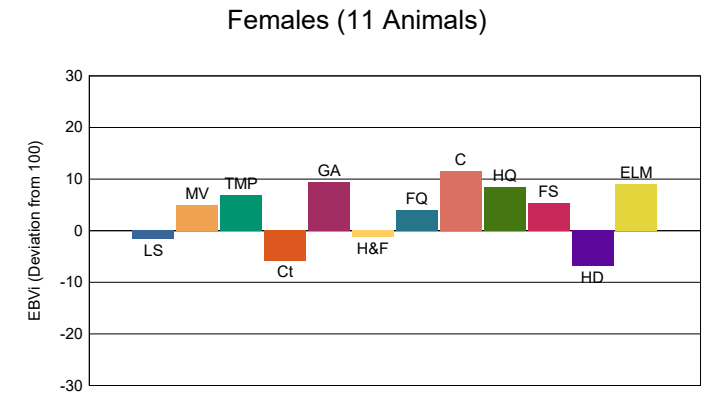
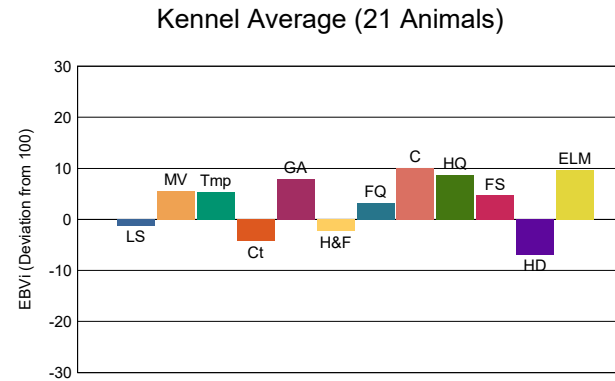
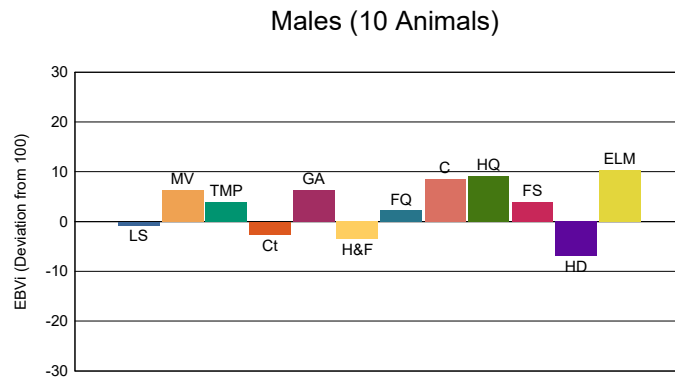
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	99	99	98
Movement (Mv)	106	106	105
Temperament (Tmp)	105	104	107
Coat (Ct)	96	97	94
General Appearance	108	106	109
Head & Face (H&F)	98	96	99
Front Quarter (FQ)	103	102	104
Centre (C)	110	109	112
Hind Quarter (HQ)	109	109	108
Final Score (FS)	105	104	105
Hip Health (HH)	93	93	93
Elbow Health (ELM)	110	110	109

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.

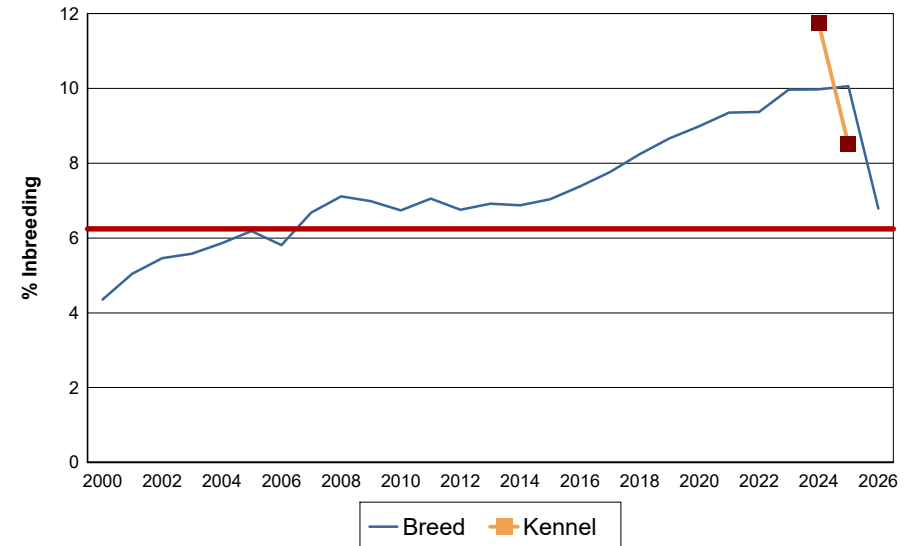
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

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%

Rate of Inbreeding



Inbreeding Levels

	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	21	49007	10	25141	11	23857	10	3371	11	6287
Average Inbreeding	11.71	8.49	11.89	8.46	11.55	8.53	9.52	8.01	16.16	8.00
Number inbred	21	48727	10	24990	11	23728	10	24990	11	23728
Number >6.25% Inbr.	21	30600	10	15537	11	15058	7	15537	10	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	Sire	%	Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	litters
BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
BOSTU TITAN	BOSTU BOCHELLI	10.11	88	125	107	115	92	115	96	87	95	103	107	99	10	1				
	KAMMO BBD DOLLIE		8	26	32	47	24	57	46	56	47	49	51	54						
BOSTU MAKAROV	BOSTU DOMINGO	12.55	88	115	84	89	94	91	109	104	99	111	96	100	8	1				
	BOSTU ZALKEIGHDIA		5	5	13	44	9	61	43	60	45	47	50	55						
TOKARA OSAMA	TOKARA RIPPER	17.01	100	111	112	104	104	88	86	98	104	98	108	100						
	CDH ANJA		5	5	5	31	5	47	30	46	32	34	37	42						
JOSMOT VLADIMIRS	JOSMOT VANDAM	24.26	93	107	89	72	102	90	111	104	106	112	101	102						
	JOSMOT TRACY		5	5	5	29	5	46	28	45	30	33	36	41						
LEAVING STONE RUPERT	BOSTU MAKAROV	12.39	90	111	87	80	97	90	110	105	104	111	96	101						
	JOSMOT EVE		5	5	5	23	5	40	22	39	24	26	29	35						
VIGOUR CARGO	BOSTU TITAN	8.51	95	107	103	121	110	100			103	110								
	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39	38	26	28	30	34							
VIGOUR KAOS	BOSTU TITAN	8.51	95	107	103	121	110	100			103	110								
	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39	38	26	28	30	34							
VIGOUR RECCE	BOSTU TITAN	8.51	95	107	103	121	110	100			103	110								
	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39	38	26	28	30	34							
VIGOUR ICY	BOSTU TITAN	8.51	95	107	103	121	110	100			103	110								
	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39	38	26	28	30	34							

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	Sire		%	Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Progeny	Hips	Elbows	
	BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score	Litters	Kennels			
VIGOUR SPIDER MAN		BOSTU TITAN	8.51	95	107	103	121	110	100			103	110							
	2025	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39		38	26	28	30	34					

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	
CDH AKKERI		COLOS BUFFEL	8.25	96	120	113	110	113	79	106	107	111	118	116	112						
	2022	CDH YOYO		5	5	18	37	6	49	37	48	38	40	42	45						
ROYAL GAURDS SNOW FLAKES 35		KINGSTON ROOIES	10.30	102	89	99	126	128	85	125	99	111	118	126	116	10	1				
	2023	MAJINGILANE AKIRA		5	5	5	44	5	62	43	61	45	47	50	56						
JOSMOT IVY		BOSTU SEKHMET	17.06	89	120	83	88	103	92	110	100	100	111	96	100						
	2023	JOSMOT DANCING GIRL		5	5	10	30	5	41	29	41	30	32	34	38						
VIGOUR CALYPSO		BOSTU MAKAROV	11.74	88	114	99	94	99	92	106	100	102	110	96	100						
	2024	CDH ATHENA		5	5	5	24	5	39	24	38	25	27	30	34						
VIGOUR ZELDA		BOSTU MAKAROV	11.74	88	114	99	94	99	92	106	100	102	110	96	100						
	2024	CDH ATHENA		5	5	5	24	5	39	24	38	25	27	30	34						
LEAVING STONE ROTHSCHILD		JOSMOT JUNIOR	21.56	94	104	93	81	97	105	100	101	103	108	100	101						
	2025	JOSMOT DOLLAR I		5	5	5	11	5	37	7	36	13	18	23	30						
LEAVING STONE TROYKA		BOSTU MAKAROV	12.39	90	111	87	80	97	90	110	105	104	111	96	101						
	2025	JOSMOT EVE		5	5	5	23	5	40	22	39	24	26	29	35						
VIGOUR MAYHEM		BOSTU TITAN	8.51	95	107	103	121	110	100		93	103	110	117	107						
	2025	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39		38	26	28	30	34						
VIGOUR GRACE		BOSTU TITAN	8.51	95	107	103	121	110	100		93	103	110	117	107						
	2025	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39		38	26	28	30	34						
VIGOUR DAISY		BOSTU TITAN	8.51	95	107	103	121	110	100		93	103	110	117	107						
	2025	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39		38	26	28	30	34						
VIGOUR HAVOK		BOSTU TITAN	8.51	95	107	103	121	110	100		93	103	110	117	107						
	2025	ROYAL GAURDS SNOW FLAKES 35		5	5	5	25	5	39		38	26	28	30	34						

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	
BOSTU BOCHELLI		CABARET PAVAROTTI	12.13	89	126	130	122	93	114	80	70	93	94	108	90	66	13	26	4	4	11
	2019	MES ALUSHKA		46	59	51	72	48	84	71	83	72	74	76	80						
COLOS BUFFEL		TARGUS RAM	5.55	83	128	112	107	106	71	107	105	106	117	104	105	57	6	15			5
	2019	KLEIN SANDFONTEIN AKITA		5	10	40	67	44	79	66	78	67	69	71	75						
KINGSTON ROOIES		DELATRO X' WINSLO	5.51	108	97	91	127	127	89	133	103	117	125	121	118	39	6	13			7
	2019	MES KYLA		5	10	37	61	38	76	61	75	62	64	66	71						
BOSTU SEKHMET		CABARET STRAAT-KAT	9.29	107	124	87	79	107	94	118	109	108	113	94	104	29	3	5	1	1	2
	2020	CDH MICCO		20	32	44	61	38	75	60	74	62	64	66	70						
JOSMOT VANDAM		TARGUS BOM BOEL	7.35	94	106	90	87	107	110	110	114	112	117	104	112	13	2	4			3
	2020	TREBLA MINNIE		5	5	33	60	35	74	59	73	61	63	65	69						
TOKARA RIPPER		MES ZULU II	6.00	98	109	93	99	98	78	68	94	95	89	105	92	17	3	4			1
	2021	CDH BAILEY		5	5	11	50	18	68	49	66	51	53	56	62						
BOSTU DOMINGO		BOSTU BOCHELLI	10.11	88	125	107	111	92	118	98	99	100	107	105	104	10	2	2			1
	2021	KAMMO BBD DOLLIE		8	26	32	55	30	71	55	70	56	58	61	65						
BOSTU TITAN		BOSTU BOCHELLI	10.11	88	125	107	115	92	115	96	87	95	103	107	99	10	1				
	2021	KAMMO BBD DOLLIE		8	26	32	47	24	57	46	56	47	49	51	54						
BOSTU MAKAROV		BOSTU DOMINGO	12.55	88	115	84	89	94	91	109	104	99	111	96	100	8	1				
	2022	BOSTU ZALKEIGHDIA		5	5	13	44	9	61	43	60	45	47	50	55						
JOSMOT JUNIOR		JOSMOT VANDAM	16.63	101	99	96	90	105	107	102	112	111	118	112	113	21	4				
	2023	TREBLA EMMA		5	5	5	45	5	63	44	62	46	49	52	57						

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		Sire		Hips	Elbows	Litter Size	Move-	Tempe-r	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
	BYr	Dam	%	Acc.	Acc.	Acc.	ment	ament		Appear.	Face	Quarter		Quarter	Score			Kennels			
KAMMO BBD DOLLIE		SPITSVUUR BBD TOKARA DRIFTER	5.80	87	124	84	108	92	115	112	104	98	112	107	108	22	5	9	1		6
	2017	KAMMO BBD FIELA		23	31	57	65	42	79	65	78	66	68	70	74			6	1	1	2
CDH ANJA		CDH BULLET	17.36	101	113	132	110	110	99	103	101	114	107	111	108	17	1	2			1
	2020	ARTIFACTS STELLA		5	5	35	56	27	72	56	71	57	59	62	66			2		1	
CDH YOYO		CDH BULLET	21.41	108	112	114	113	121	88	104	109	116	119	128	119	17	2	1			1
	2020	CDH PHOEBE		5	5	39	52	22	67	51	66	53	55	57	62			1		1	
MAJINGILANE AKIRA		ROKAFELA BRUNO 3	20.82	95	82	106	115	120	64	112	97	98	103	115	103	5	1	2			2
	2020	ROKAFELA AGATHA		5	5	5	47	5	67	46	66	48	51	54	60			2		1	
BOSTU ZALKEIGHDIA		BOSTU ZAZU	10.51	88	105	60	76	104	55	114	102	98	111	95	96	7	1	2			1
	2021	BOSTU VALKYRIE		5	14	42	55	31	70	54	69	55	57	60	64			2		1	
JOSMOT DANCING GIRL		TARGUS MOSCOW	23.45	71	116	79	97	100	91	102	91	93	108	99	96	2	1				
	2021	TARGUS LUNA		5	5	23	36	5	47	36	47	36	38	40	44						
CDH ATHENA		COLOS BUFFEL	8.91	89	112	114	99	104	93	104	97	106	110	96	100	4					
	2021	CDH DOEDELS		5	5	25	50	24	65	49	64	50	53	55	60						
JOSMOT TRACY		LA RIVIERA NTOMBO	15.47	91	107	89	57	97	70	111	95	100	106	97	92	2		1			1
	2022	JOSMOT NASHA		5	5	5	49	15	67	48	66	50	53	56	61			1		1	
ROYAL GAURDS SNOW FLAKES 35		KINGSTON ROOIES	10.30	102	89	99	126	128	85	125	99	111	118	126	116	10	1				
	2023	MAJINGILANE AKIRA		5	5	5	44	5	62	43	61	45	47	50	56						
JOSMOT EVE		JOSMOT VANDAM	24.26	93	107	89	72	100	89	111	107	108	111	96	102	4	1				
	2023	JOSMOT TRACY		5	5	5	40	5	62	39	60	42	45	48	55						
JOSMOT DOLLAR I		JOSMOT JACK II	19.52	87	109	89	72	89	103	97	91	95	99	87	89	6					
	2023	JOSMOT ABBY		5	5	5	42	5	62	41	61	43	46	49	55						

