

Boerboel Genetic Evaluation

SA Stud Book
February 2026

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54626

WIERDAPARK

CENTURION

0157



Kennel Number: 723213



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.

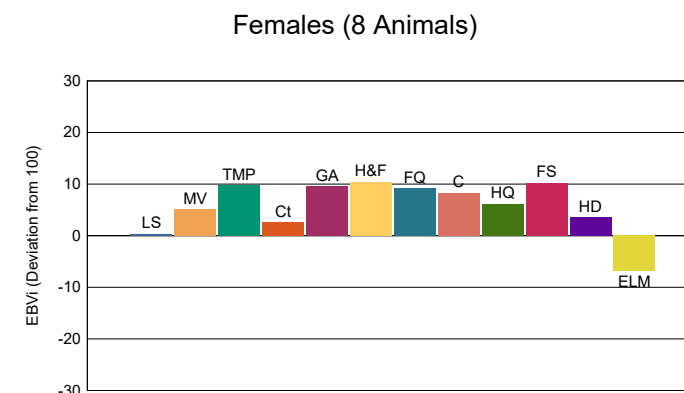
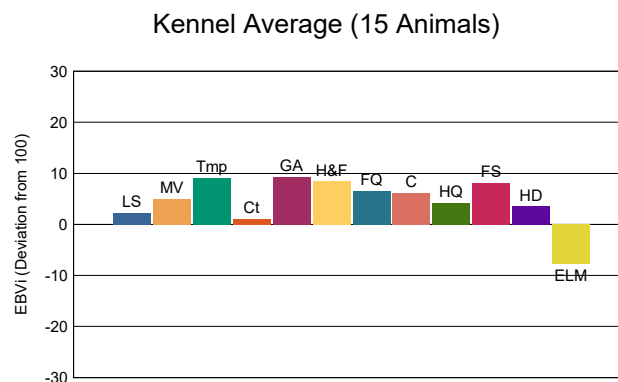
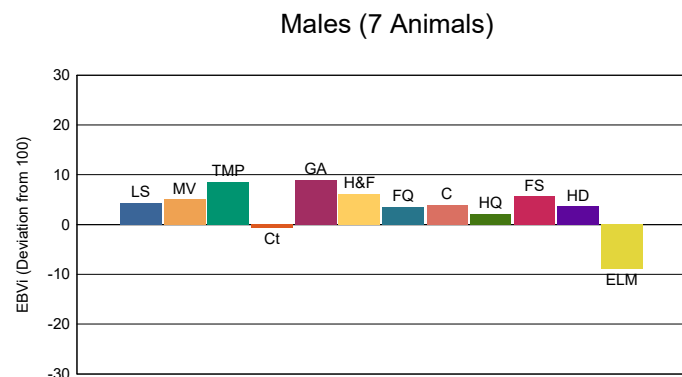
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	102	104	100
Movement (Mv)	105	105	105
Temperament (Tmp)	109	109	110
Coat (Ct)	101	99	103
General Appearance	109	109	110
Head & Face (H&F)	108	106	110
Front Quarter (FQ)	107	104	109
Centre (C)	106	104	108
Hind Quarter (HQ)	104	102	106
Final Score (FS)	108	106	110
Hip Health (HH)	104	104	104
Elbow Health (ELM)	92	91	93

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.

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	15	49007	7	25141	8	23857	15	3371	15	6287
Average Inbreeding	9.50	8.49	9.01	8.46	9.94	8.53	10.02	8.01	9.16	8.00
Number inbred	15	48727	7	24990	8	23728	15	24990	15	23728
Number >6.25% Inbr.	14	30600	6	15537	8	15058	13	15537	13	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	
KADIMA DARE-YOU		SUID KAAP BASTION	9.36	105	91		85	94	97	92	121	107	96	87	102						
	2023	MEGAZONE ALEJANDRA		5	5		46	10	65	45	63	47	50	53	58						
BOSTU DUZYAN		BOSTU DUZA	16.21	91	84	106	92	118	88	131	119	99	109	105	112						
	2023	BOSTU DANCING DYNASTY		5	11	7	47	14	64	46	63	47	50	53	58						
REYDALL LEON		REYDALL RASPUTIN	5.78	89	90	105	110	104	108	99	82	83	86	96	89						
	2023	REYDALL CUPCAKE		5	5	21	46	16	64	45	63	47	49	52	58						
MOEPHULI BIG BOY		BLUE PRINT HELL FIRE	7.58	118	96	95	130	119	113	102	96	116	113	112	112						
	2024	ELEVATION BONTLE		5	5	5	44	9	63	43	62	45	48	51	57						
RASWISE TIGER		TERRIBLE TWINS MAGEBA	8.10	114	98	91	109	111	84	121	108	103	109	104	107						
	2025	COLLOSAL SPIFFY		5	5	5	25	5	41	24	40	26	28	31	36						
ROYAL ZAMBAZI SHAKA		LA BOELA UBER	8.12	95	86	120	93	100	105	103	104	102	102	108	105						
	2025	CAVIN REGAL NAIROBI		5	5	5	22	5	37	21	36	23	25	28	32						
JTL SGORA		BASJAN BOESMAN	7.89	114	93	112	116	115	102	115	114	115	112	103	114						
	2025	BBS MONIQUE		5	5	5	29	5	44	26	43	30	32	35	39						

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	
ARMANDUS SIMOLA	2022	LOMBARD SUPERIOR REMBRANDT	7.95	107	97	67	108	114	108	117	120	120	110	104	116	6	3	4			1
		BOUWER ZOE 5		5	5	38	52	24	69	49	68	53	55	58	63						1
BBS MONIQUE	2023	ELEVATION BEN 3	9.95	110	89	93	117	111	99	111	101	100	104	103	105	18	2				
		SA SURVIVAL FIONA		5	5	5	47	14	65	42	63	48	50	53	59						
HASHTAG LIBERTY BELL	2023	BHOVAMANIA KONG OF HASHTAG	11.85	94	100	104	95	102	108	102	111	106	103	98	106						
		JOSMOT TRIPLE 7		5	5	5	44	5	63	43	62	45	48	51	57						
HASHTAG BELLA 3	2024	GATEKEEPER ZILLA THE GORILLA	7.93	97	90	104	104	103	108	114	111	104	109	104	110						
		GATEKEEPER ZOZI		5	5	5	32	5	46	31	45	33	35	37	41						
MOEPHULI MAYA	2024	JOSMOT JUNIOR	9.67	102	98	90	98	105	98	100	105	105	110	106	106						
		MOEPHULI VENUS		5	5	5	21	5	38	20	37	22	25	28	33						
NSIZWA MATILDA	2024	KADOS TROMPIE	11.51	97	97	113	95		98	105	102	104	107	109	105						
		NSIZWA EVA BRAUN		5	5	16	36		48	35	48	37	39	41	44						
IB MOANA	2025	GOMORA MKHONTO	9.90	100	84	97	108	119	106	116	123	119	112	109	119						
		SA BRIGHT MIMI		5	5	5	28	5	42	27	41	29	31	33	37						
SKB VOLCANO	2025	AFRIKA CHAMP	10.71	122	92	134	115	118	95	112	110	116	110	117	115						
		AFRIKA JADE 8		5	5	5	15	5	31	14	30	16	19	22	26						

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	Temper-ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
ELEVATION BEN 3		SWELLENDAM KAROLUS	8.73	113	77	79	116	103	110	96	102	100	101	105	105	80	18	21			8
	2016	ELEVATION MELISSA		28	48	35	68	40	82	67	82	69	71	74	78			18			3
BLUE PRINT HELL FIRE		KLEIN WITWAL BBD SHOT CALLER	5.30	104	81	106	123	117	116	99	100	112	106	107	109	20	6	7			
	2019	BLUE PRINT VOGUE		5	5	15	54	26	71	53	70	55	57	60	65			6			
LOMBARD SUPERIOR REMBRANDT		AFRIKA DANTOR	11.14	117	89	94	105	113	99	115	135	128	105	102	120	77	14	20	2	2	5
	2019	ELEVATION DEKOTA		24	43	39	67	42	81	66	80	68	70	72	76			19			2
KADOS TROMPIE		TARGUS BOM BOEL	8.44	101	105	95	90	114	104	115	112	115	120	120	117	70	16	12			3
	2020	MES LULU V		5	5	40	66	43	78	64	78	66	68	70	74			7			2
BHOVAMANIA KONG OF HASHTAG		HASHTAG THANOS	10.26	95	99	116	113	103	93	91	103	106	101	94	100	12	3	5			
	2020	BODINGTON BOERBOEL LEAH		5	5	17	56	28	72	55	71	57	59	62	67			4			
REYDALL RASPUTIN		BOSTU DADDY COOL	5.72	83	79	96	116	123	117	128	106	98	117	119	117	34	4	7			3
	2021	MIDDELPOS BBD IVANKA		5	24	36	58	34	73	57	72	59	61	63	68			5			1
SUID KAAP BASTION		MIDDELPOS BBD OSCAR 1	16.07	112	109	129	104	97	83	78	98	99	82	87	89	26	5	6			2
	2021	SUID KAAP AYAH		5	5	5	53	14	71	52	70	54	56	59	65			6			2
GOMORA MKHONTO		TERRIBLE TWINS MPIYAKHE	7.86	102	94	96	121	121	105	113	126	121	113	110	122	21	3				
	2021	MES SHIBA		5	5	18	45	14	63	45	62	46	49	51	57						
BOSTU DUZA		BOSTU DADDY COOL	8.31	85	86	122	94	116	101	126	109	90	104	109	109	32	3	6			1
	2021	AFRIKA ZUZKA		39	57	36	62	39	76	62	75	63	65	67	71			3			1
LA BOELA UBER		LA BOELA ROOSTER	14.29	92	88	136	88	104	97	102	116	108	107	118	113	12	3				
	2021	LA BOELA VENUS II		5	5	12	46	9	63	45	62	47	49	52	57						
TERRIBLE TWINS MAGEBA		TERRIBLE TWINS ZUNGU	8.79	114	91	81	107	119	94	127	116	106	111	101	112	12	2				
	2021	TERRIBLE TWINS LWANDLE		5	5	6	46	15	64	45	63	47	50	52	58						
BASJAN BOESMAN		AFRIKA DOPPIES	7.00	119	96	131	115	118	104	119	127	130	120	104	122	40	5				
	2021	AFRIKA OUNOOI		5	5	29	51	24	67	50	66	52	54	57	62						

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	Sire BYr 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		
GATEKEEPER ZILLA THE GORILLA	BRIEL THE GHOST	6.26	93	98		105	97	116	118	115	101	111	99	110	32	6	6			
2023	GATEKEEPER BELLA		5	5		54	24	71	52	70	55	57	60	65		5				
AFRIKA CHAMP	AFRIKA DUMA I	15.45	118		132	96	112	86	117	132	127	108	107	118	14	2				
2023	AFRIKA BIANCA I		5		5	41	5	58	40	57	42	44	47	53						
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	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	
MEGAZONE ALEJANDRA	2017	MES HUNTER	12.83	98	74	76	82	95	88	110	118	105	109	94	105	46	8	13			9
		LA BOELA XEENA		5	10	44	58	32	73	57	72	59	61	63	68			11			1
REYDALL CUPCAKE	2019	BOUWER NELSON I	5.04	94	102	113	90	93	116	91	94	91	73	76	84	25	4	5			3
		JAC-LEE ISABELLA		5	5	43	54	24	72	53	71	55	58	61	66			5			1
BOUWER ZOE 5	2019	TARGUS BOM BOEL	6.75	97	106	69	102	110	97	109	96	102	106	98	100	20	4	2			2
		BOUWER CHELSEA		5	5	48	56	31	71	55	70	57	59	61	66			2			2
CAVIN REGAL NAIROBI	2021	GALACTIC ICARUS	5.81	98	84	103	99	97	112	103	92	96	97	97	96	15	2	3			
		LA BOELA OPAL		5	5	35	36	8	48	36	48	37	39	41	44			2			
GATEKEEPER ZOZI	2021	ELEVATION DAX	8.04	101	81	103	103	109	99	111	107	106	108	109	109	6	1				
		GATEKEEPER SILVER SHADOW		5	17	35	52	30	67	51	66	53	55	57	62						
SA SURVIVAL FIONA	2021	BBS HOBS	10.18	106	101	108	113	116	107	121	118	107	107	102	114	5	2	1			1
		AFRIKA ORPA		5	5	9	49	19	67	48	66	50	53	56	61			1			1
BOSTU DANCING DYNASTY	2021	ELEVATION COOPER	6.55	96	82	90	103	118	106	128	112	105	113	109	114	7	1	1			
		BOSTU DANCING QUEEN		17	32	43	56	36	70	56	69	57	59	61	65			1			
JOSMOT TRIPLE 7	2021	TARGUS MOSCOW	7.54	94	101	92	89	102	108	105	97	102	103	103	101	10	2	2			
		TREBLA EMMA		5	5	31	50	20	68	50	67	51	53	56	62			2			
ELEVATION BONTLE	2021	ELEVATION GLADIATOR	12.53	132	110	85	116	112	100	103	101	110	108	105	107	4	1	3			
		ELEVATION MINKI		5	5	28	48	18	64	47	63	49	51	54	59			3			
SA BRIGHT MIMI	2022	AFRIKA GHUNTER	7.65	98	73	98	96	117	108	118	120	116	110	107	116	13					
		SA BRIGHT TYLER		5	5	20	50	27	63	50	62	51	53	55	59						
MOEPHULI VENUS	2022	HTM NKUNZI	8.14	102	97	84	107	105	90	98	98	100	103	100	100	8	1				
		RALZUCA RIVA		5	5	5	34	5	54	33	52	35	38	41	47						
NSIZWA EVA BRAUN	2022	NSIZWA DINGANE	10.09	93	89	132	100	99	93	95	91	93	94	99	93	7	2				
		MARVILLOSO HERA		5	5	35	48	22	65	48	64	49	52	54	59						

Estimated Breeding Value Indices (EBVi's)

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< 80

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>= 120

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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	
AFRIKA JADE 8		ELEVATION BENTO	12.77	127	99	137	134	125	103	108	87	105	112	127	111	25	2				
	2023	AFRIKA DAYSIE II		5	10	37	45	16	60	44	59	46	48	50	55						
BBS MONIQUE		ELEVATION BEN 3	9.95	110	89	93	117	111	99	111	101	100	104	103	105	18	2				
	2023	SA SURVIVAL FIONA		5	5	5	47	14	65	42	63	48	50	53	59						
COLLOSAL SPIFFY		PAURON THOR	13.47	114	106	100	111	103	74	115	99	99	106	108	102	6	1				
	2023	DELMA BAILEY		5	5	5	43	5	61	42	60	44	46	49	55						

