

Boerboel Genetic Evaluation

SA Stud Book
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MR B.E. OKWIR

Police RD

002

LIRA

489



Kennel Number: 706228



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.

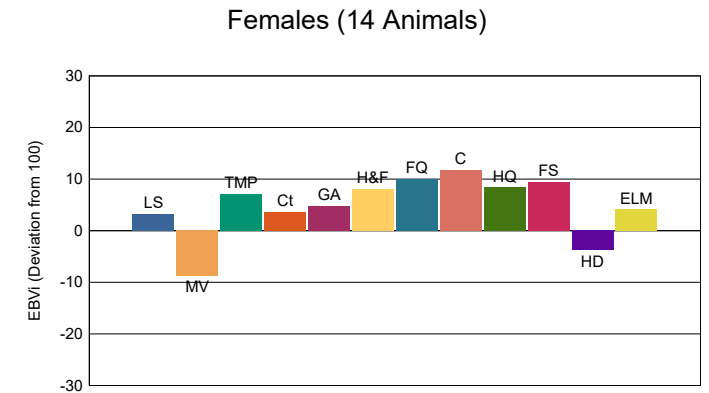
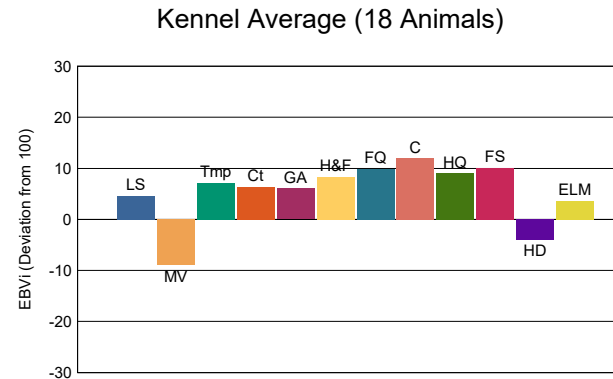
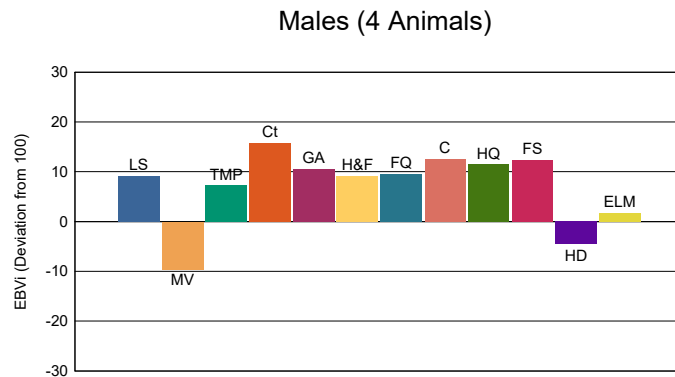
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	105	109	103
Movement (Mv)	91	90	91
Temperament (Tmp)	107	107	107
Coat (Ct)	106	116	104
General Appearance	106	111	105
Head & Face (H&F)	108	109	108
Front Quarter (FQ)	110	110	110
Centre (C)	112	112	112
Hind Quarter (HQ)	109	111	108
Final Score (FS)	110	112	109
Hip Health (HH)	96	95	96
Elbow Health (ELM)	104	102	104

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.

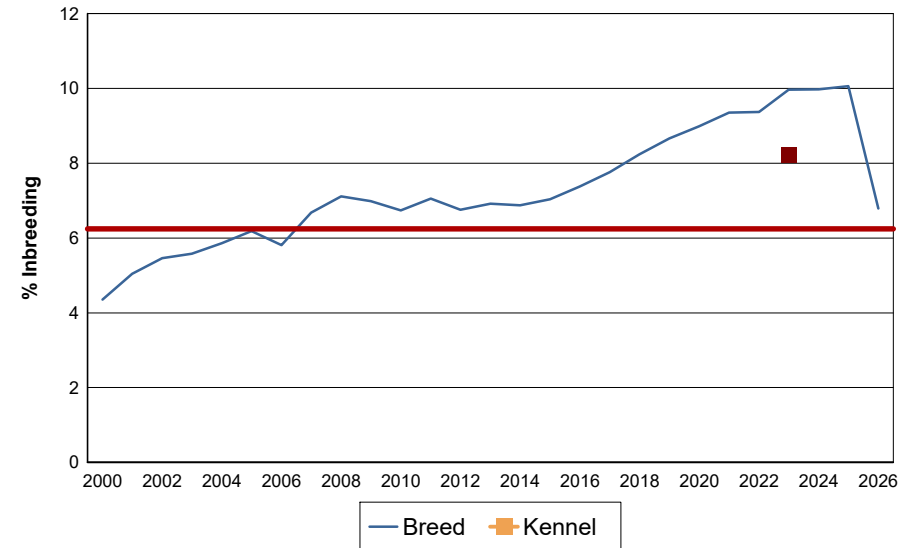
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	18	49007	4	25141	14	23857	9	3371	10	6287
Average Inbreeding	10.95	8.49	13.40	8.46	10.25	8.53	14.66	8.01	11.33	8.00
Number inbred	18	48727	4	24990	14	23728	9	24990	10	23728
Number >6.25% Inbr.	18	30600	4	15537	14	15058	7	15537	9	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			
LA BOELA OXO	LA BOELA DODGE	19.55	104	93	115	90	112	137	121	122	116	117	120	124	16	3	3			1
	2019 MIDDELPOS BBD KEENA		5	18	33	51	27	66	51	65	52	54	56	61						
JOSMOT FRANK	ELDORADO BBD FRANK SINATRA	17.62	80	115	96	94	96	94	99	88	95	100	99	93	1	1				
	2022 JOSMOT ABBY		5	5	18	41	8	53	40	52	42	44	46	49						
AWD FELA KUTI	LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
	2023 JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						
AWD KOFFI OLOMIDE	LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
	2023 JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						

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	
JOSMOT MINIKEH	2020	TARGUS BOM BOEL	7.35	94	106	111	89	110	96	102	105	111	116	108	108	21	2				
		TREBLA MINNIE		5	5	40	55	32	67	54	67	56	57	59	63						
JOSMOT NTOMBI I	2021	JOSMOT VANDAM	9.81	92	98	72	88	99	125	111	118	110	112	96	111	3	1	3	1		1
		JOSMOT HAZARD		5	5	12	46	5	66	45	65	47	50	53	60						
JOSMOT QUEEN 3	2021	TARGUS MOSCOW	23.45	71	116	88	97	100	91	102	91	93	108	99	96						
		TARGUS LUNA		5	5	13	36	5	47	36	47	36	38	40	44						
JOSMOT NTOMBI	2021	MES HITLER BLAKE	9.37	86	103	97	96	112	100	109	105	117	121	111	112						
		JOSMOT KOOLKAT 2		5	5	21	41	16	53	40	52	42	44	46	49						
STERLING AYANA	2022	MIDDELPOS BBD GAMKA	10.65	121		91	77	107	98	104	128	123	111	110	117						
		JAMBAL KITTA		5		28	45	26	53	46	53	46	47	48	51						
TOKARA CONGO	2022	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						
TOKARA SUDAN	2022	TOKARA RIPPER	8.30	89	106	85	102	93	39	72	77	87	84	90	75						
		TOKARA MOANA		5	5	5	41	5	59	40	58	41	44	47	53						
AWD WHITE PAWS	2023	LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
		JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						
AWD LADY MONK	2023	LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
		JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						
AWD QUIN AZAWI	2023	LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
		JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						
AWD OMOTOLA	2023	LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
		JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						

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	
AWD LADY SAW		LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
	2023	JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						
AWD CHAKA CHAKA		LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
	2023	JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						
AWD LADY GAGA		LA BOELA OXO	8.22	99	100	113	89	111	116	112	113	114	117	114	116						
	2023	JOSMOT MINIKEH		5	5	16	30	5	42	30	41	31	33	35	38						

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		
TARGUS BOM BOEL		CABARET SON OF A GUN	24.74	81	114	66	90	114	79	112	94	103	116	107	102	86	14	38	3	3	28
	2016	CRIHATA LILLIE		5	5	57	78	57	88	78	87	79	80	82	85						
LA BOELA DODGE		GROENBERG BBD RAMBO	4.86	103	99	106	97	113	105	115	115	113	117	126	120	42	6	7	2	2	5
	2016	MES WILLOW		40	54	50	61	45	72	61	71	62	63	65	68						
ELDORADO BBD FRANK SINATRA		CABARET PAVAROTTI	18.64	65	125	98	113	88	107	96	83	89	96	99	91	51	10	28			12
	2017	CABARET PAMELA ANDERSON		5	5	41	69	43	83	68	82	70	72	74	79						
MIDDELPOS BBD GAMKA		AFRIKA LEO 5	18.20	138	139	100	78	117	89	106	133	133	109	106	118	137	29	57	5	6	38
	2017	MIDDELPOS BBD DIXIE		34	50	56	81	60	89	80	89	81	83	84	87						
MES HITLER BLAKE		MES MASCOT	13.12	78	100	91	101	121	98	125	119	126	134	114	123	37	6	18	1	1	8
	2018	MES SERABI		27	46	42	66	44	79	65	78	67	69	71	75						
TARGUS MOSCOW		TARGUS BOM BOEL	19.47	80	110	90	92	98	101	92	85	93	100	100	93	16	2	5			5
	2019	TOKARA KENDALL		5	5	39	55	30	67	55	66	55	57	59	63						
LA BOELA OXO		LA BOELA DODGE	19.55	104	93	115	90	112	137	121	122	116	117	120	124	16	3	3			1
	2019	MIDDELPOS BBD KEENA		5	18	33	51	27	66	51	65	52	54	56	61						
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						

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	
MIDDELPOS BBD KEENA	2013	GROENBERG BBD RAMBO	16.38	105	87	118	93	109	123	117	105	108	109	112	111	44	5	11	4	4	7
		GROENBERG BBD OLIVIA		33	43	65	69	51	79	68	79	69	71	73	76			8			1
TARGUS LUNA	2017	SPITSVUUR BBD TOKARA DRIFTER	11.20	62	123	86	103	101	81	111	97	93	117	97	99	12	1	5			6
		TARGUS RINA		5	5	45	62	42	75	62	74	63	65	67	71			5			1
TREBLA MINNIE	2018	MAWEZA DISSELBOOM	10.18	107	98	119	89	101	110	89	108	114	110	105	108	20	4	12	1	1	10
		TREBLA ULA II		5	5	43	63	37	77	62	77	64	66	69	73			9			
JOSMOT HAZARD	2018	TREBLA HITLER	18.82	90	91	67	90	95	91	99	111	102	103	91	101	1	1	1			1
		TREBLA DIVA		5	5	5	43	5	65	42	64	45	48	51	58			1			1
JAMBAL KITTA	2019	BREKER MENEER	3.24	104	101	83	76	98	106	102	123	113	112	115	116	20	3	7			4
		JAMBAL TIKE-EE		5	5	48	54	33	65	57	65	54	56	58	62			6			2
TOKARA MOANA	2020	MES WEBSTER	14.08	80	104	78	107	99	56	94	98	101	105	100	96	11	3	2			1
		TOKARA AZANIA		5	5	43	52	26	68	51	67	53	55	57	62			2			1
JOSMOT ABBY	2020	TARGUS BOM BOEL	7.35	94	106	93	75	105	81	102	94	101	105	99	95	19	2	9			3
		TREBLA MINNIE		5	5	42	59	34	73	58	72	60	61	64	68			9			1
JOSMOT KOOLKAT 2	2020	TARGUS BOM BOEL	7.35	94	106	103	90	104	102	92	92	109	107	107	101	23	2	7	1	1	3
		TREBLA MINNIE		5	5	44	61	36	75	59	74	62	64	66	70			5			
JOSMOT MINIKEH	2020	TARGUS BOM BOEL	7.35	94	106	111	89	110	96	102	105	111	116	108	108	21	2				
		TREBLA MINNIE		5	5	40	55	32	67	54	67	56	57	59	63						
CDH ANJA	2020	CDH BULLET	17.36	101	113	132	110	110	99	103	101	114	107	111	108	17	1	2			1
		ARTIFACTS STELLA		5	5	35	56	27	72	56	71	57	59	62	66			2			1

