

Boerboel Genetic Evaluation

SA Stud Book
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262 FM 350 N

Livingston

TEXAS

USA



Kennel Number: 697860



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.

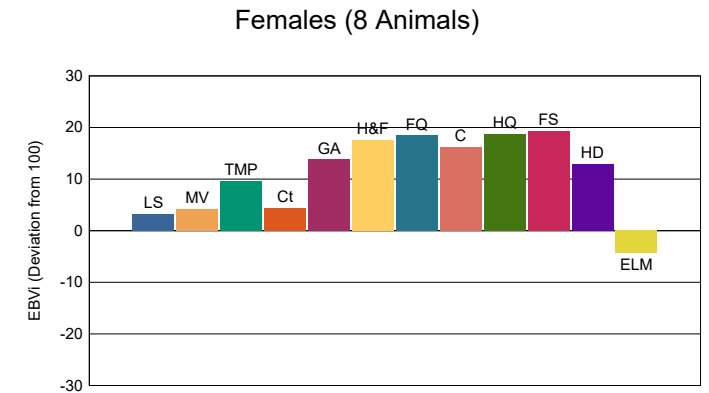
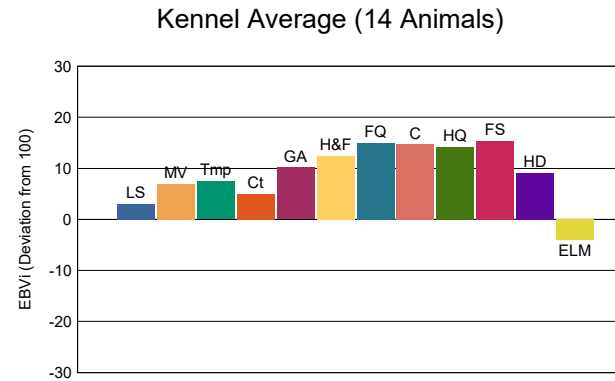
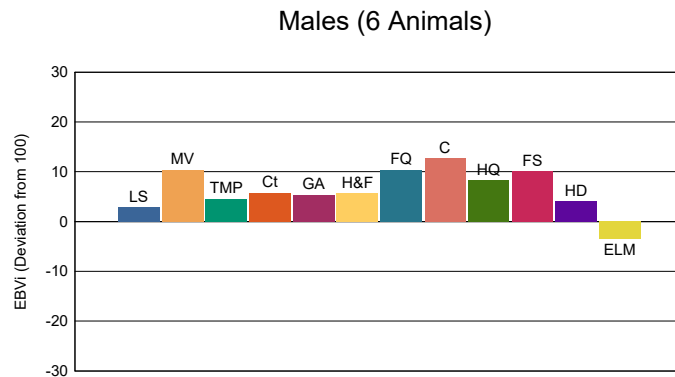
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	103	103	103
Movement (Mv)	107	110	104
Temperament (Tmp)	107	105	110
Coat (Ct)	105	106	104
General Appearance	110	105	114
Head & Face (H&F)	112	106	118
Front Quarter (FQ)	115	110	118
Centre (C)	115	113	116
Hind Quarter (HQ)	114	108	119
Final Score (FS)	115	110	119
Hip Health (HH)	109	104	113
Elbow Health (ELM)	96	97	96

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.

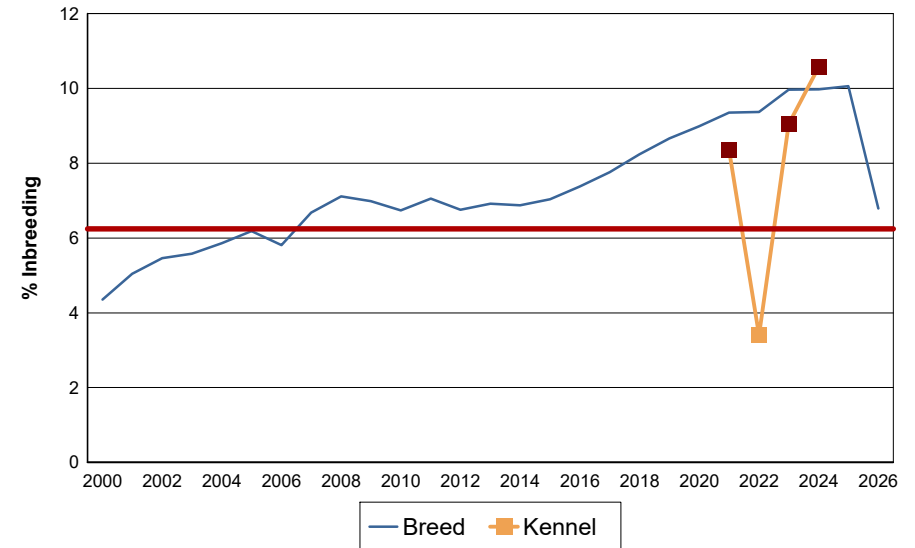
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

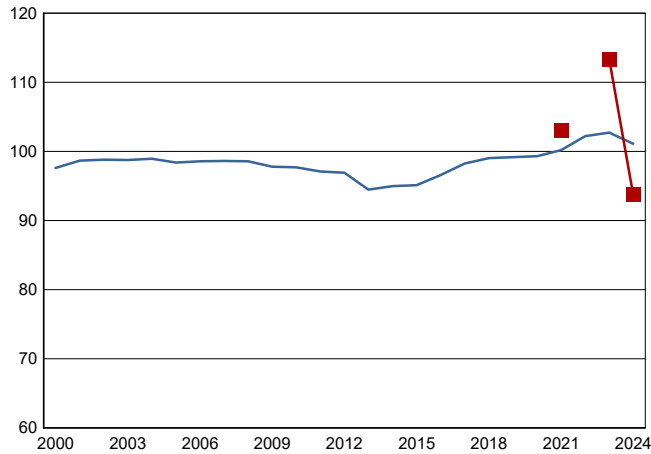


Inbreeding Levels

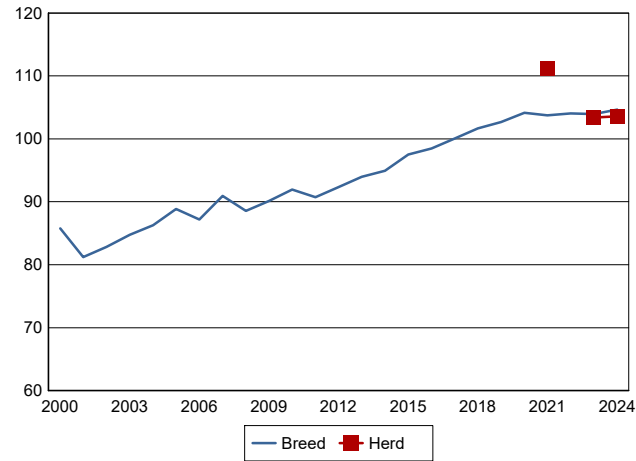
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	14	49007	6	25141	8	23857	11	3371	10	6287
Average Inbreeding	9.32	8.49	7.99	8.46	10.31	8.53	10.06	8.01	8.87	8.00
Number inbred	14	48727	6	24990	8	23728	11	24990	10	23728
Number >6.25% Inbr.	13	30600	5	15537	8	15058	9	15537	7	15058

Genetic Trends

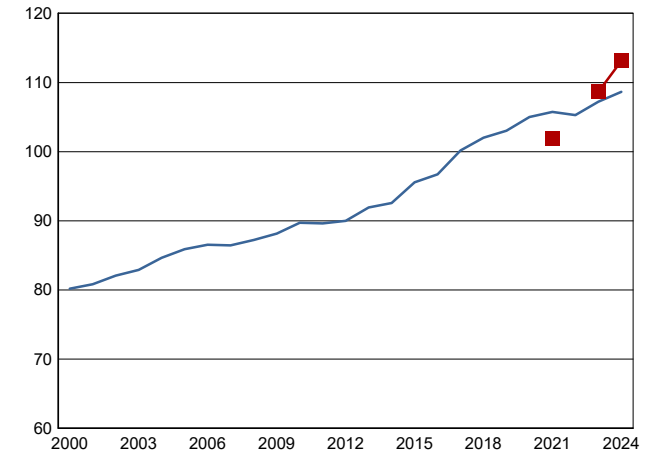
Litter Size



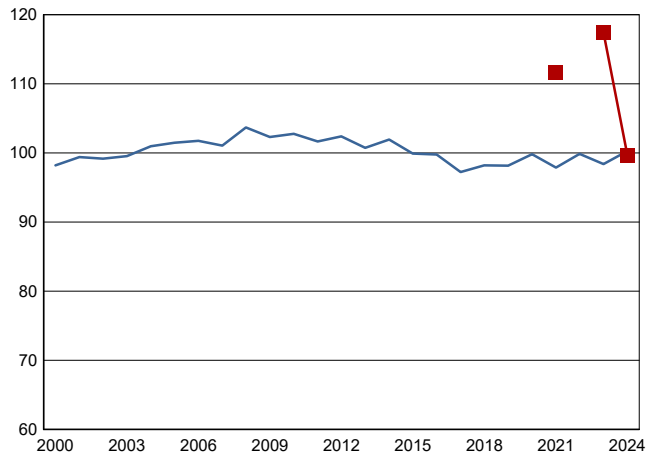
Movement



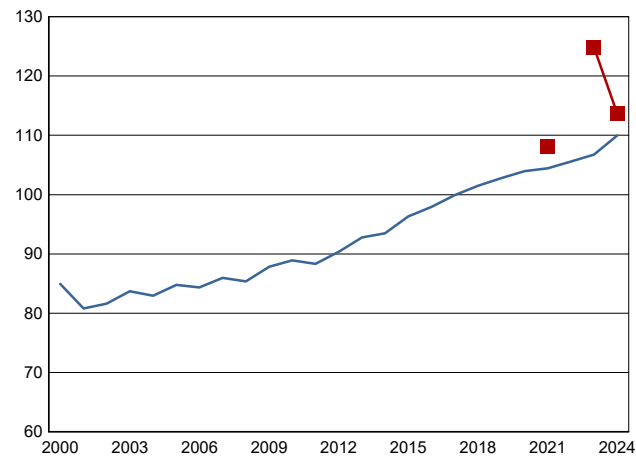
Temperament



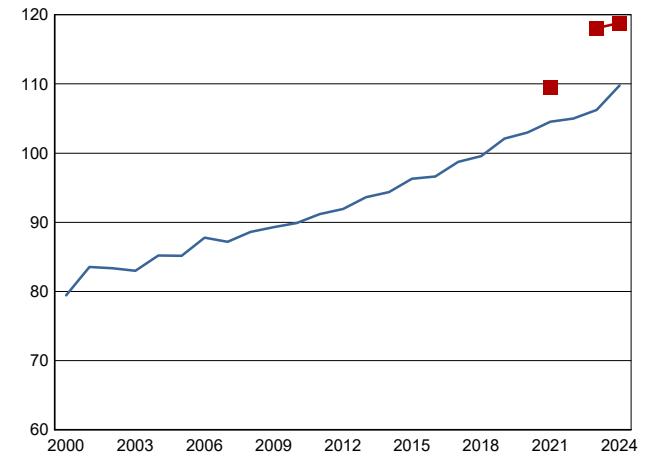
Coat



General Appearance

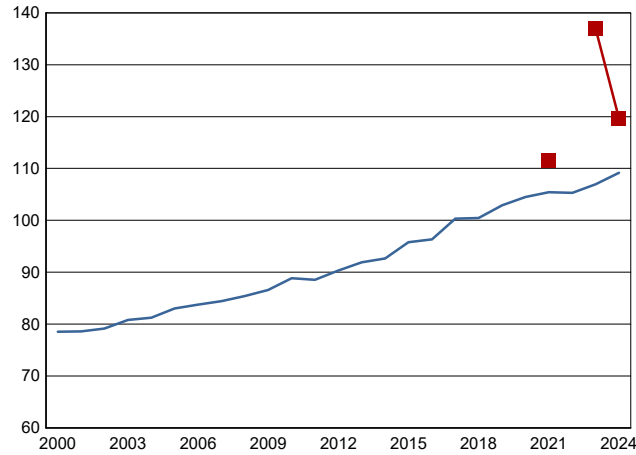


Head & Face

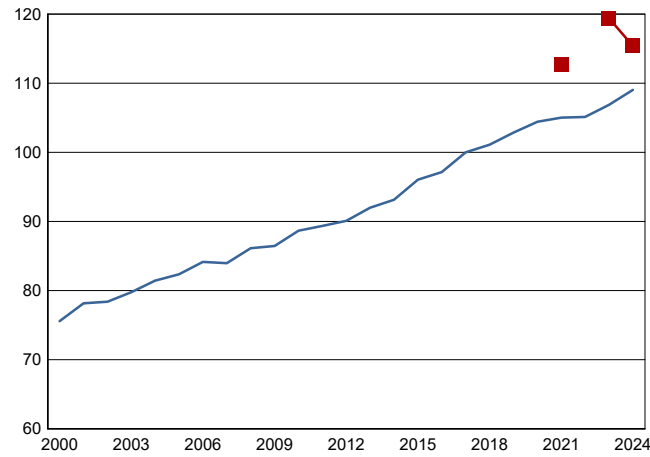


Genetic Trends

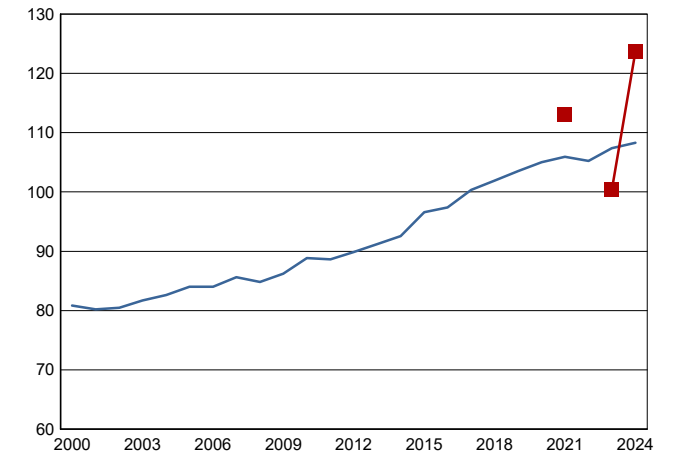
Front Quarter



Centre

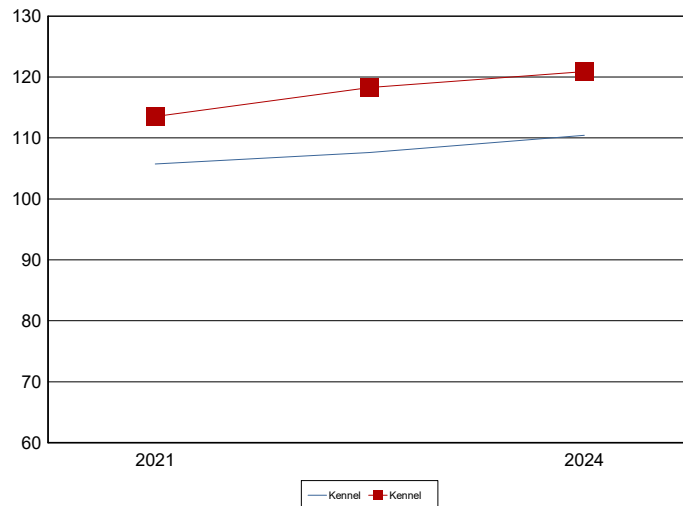


Hind Quarter

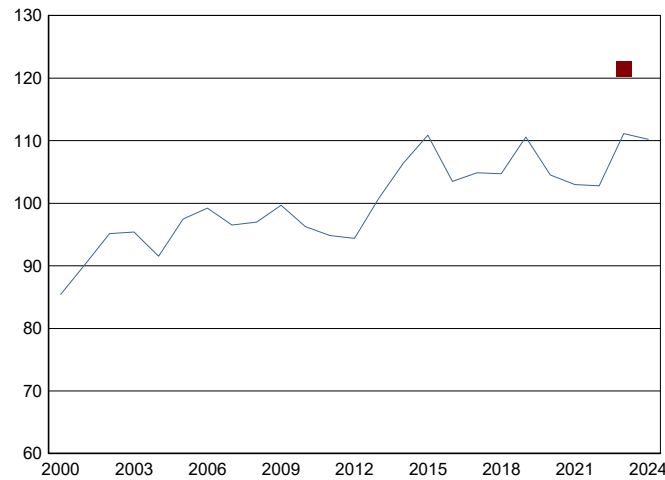


Final Score & Health Traits

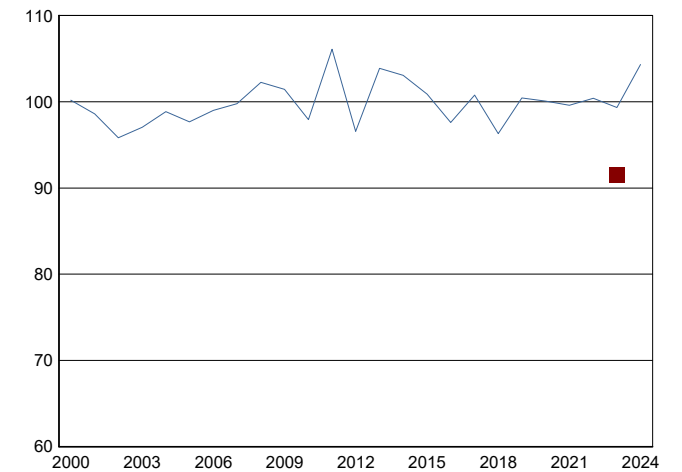
Final Score



Hip Health



Elbow Health



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	
BOSTU SUNNY COOL		BOSTU DADDY COOL	8.80	86	96	117	107	116	82	106	99	98	112	117	107	8	1				
	2020	MES KYLIE		6	28	34	57	35	70	56	69	57	59	61	65						
PETERBUILT ZEUS III		AFRIKA DROGO	8.36	110	84	108	119	109	108	105	111	116	119	123	119	20	2	3			
	2021	AFRIKA ZIMBIE		5	5	22	46	18	62	44	61	46	49	51	56						
PETERBUILT HAKEEM		AFRIKA DROGO	8.36	110	84	108	112	92	128	99	84	95	97	107	98	13	1	1			1
	2021	AFRIKA ZIMBIE		5	5	22	45	17	61	44	60	45	48	50	55						
BLACK IRON AMARI		BLACK IRON KEEPER	10.08	120	107		123	115	96	105	121	130	120	103	118						
	2022	BLUE LINE ZUMA		5	12		45	13	63	44	62	46	48	51	57						
PETERBUILT MOOSE		BRANDVLEI MARINO	7.32	107	94	88	105	101	119	116	123	116	113	105	117						
	2023	AFRIKA ZIMBIE		5	5	17	32	5	45	32	44	33	35	37	41						
BODACIOUS GUN SMOKE		GUARDIAN INDY	5.03	92	115	90	97	95	102	101	98	108	114	94	100						
	2024	EVANTICA ECHO		5	5	5	21	5	35	20	34	22	24	26	31						

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	
KLEIN SANDFONTEIN BALITA	2021	MES RETIEF	13.87	117	100	111	101	113	117	120	113	122	116	132	123	9	1	3 2			
		KLEIN SANDFONTEIN BLIZZARD		5	5	39	53	28	68	52	67	54	56	58	63						
COLD RIVER KODA	2023	PETERBUILT HAKEEM	10.19	114	94	112	105	106	109	105	104	112	111	117	112						
		BLACK IRON THE MANEATER OF NJOMBE		5	5	5	22	5	38	21	37	23	25	28	33						
PETERBUILT MEGANTRON	2023	KLEIN SANDFONTEIN JUDGE	10.20	121	92	107	108	112	112	123	108	136	121	106	117						
		AFRIKA ZIMBIE		5	19	28	47	23	60	46	59	47	49	51	56						
TX TAYLOR ERIS	2023	PETERBUILT ZEUS III	8.25	108	93	119	115	112	102	103	112	120	118	116	117						
		BARBARIAN NALA		5	5	7	22	5	37	21	36	23	25	28	32						
COLD RIVER KAYA	2024	BRANDVLEI MARINO	12.45	107	92	84	95	100	100	115	137	106	111	117	122						
		PETERBUILT THE GHOST AND THE DARKNESS		5	5	5	40	5	59	39	58	41	44	47	53						
PETERBUILT BENISHA	2024	MES BENOIT	10.59	113	98	94	91	110	100	111	115	117	111	120	116						
		KLEIN SANDFONTEIN BALITA		5	5	20	47	20	63	46	62	48	50	52	57						
PETERBUILT BENITA	2024	MES BENOIT	10.59	113	98	94	117	119	94	121	124	124	123	128	128						
		KLEIN SANDFONTEIN BALITA		5	5	20	47	20	63	46	62	48	50	52	57						
GOLDEN STATE RUIN	2024	LINGA LONGA TONNER	6.37	110	101	105	102	106	103	112	128	110	117	115	121						
		RIVERS EDGE MIA		5	5	5	26	5	41	25	40	27	29	31	36						

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
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	Progeny with litters	
KLEIN SANDFONTEIN JUDGE		KLEIN SANDFONTEIN HUEY	7.01	132	96	117	101	121	107	119	108	147	123	109	118	290 35	65 48	9 11	33 9		
	2016	KLEIN SANDFONTEIN ASARA		41	54	52	77	56	87	76	86	77	79	81	84						
MES BENOIT		MES ARNOLD 1	10.39	109	96	76	109	109	95	100	116	111	108	110	113	75 12	22 18			9 2	
	2018	MES LALLI		26	45	44	68	46	81	68	80	69	71	73	77						
BOSTU DADDY COOL		MES BITE A BULLET	7.38	61	87	117	95	117	99	139	112	91	119	114	115	197 28	69 32	16 16	43 6		
	2018	MES SHAKIRA		52	66	60	83	64	91	82	90	83	85	86	88						
MES RETIEF		GROENBERG BBD RAMBO	17.77	127	104	109	101	107	112	105	101	107	103	126	111	27 3	8 7	1		5 1	
	2019	MES MAXI		18	32	54	66	50	77	66	76	67	68	70	73						
AFRIKA DROGO		MES RUBENSTEIN	20.24	110	80	117	116	113	101	91	96	106	108	123	109	9 1	4 3			3 1	
	2020	MES MISHA II		5	21	43	60	39	73	60	72	61	63	65	69						
BLACK IRON KEEPER		KLEIN SANDFONTEIN JUDGE	8.42	131	121	102	104	111	77	105	107	121	104	90	101	70 10	18 14	3 4		9 1	
	2020	MIDDELPOS BBD KERRIE		33	52	39	60	36	73	59	73	61	63	65	69						
GUARDIAN INDY		TOKARA TAMBO	6.10	78	114	101	94	91	102	92	95	103	103	87	93	21 4	2 2				
	2020	BARBARIAN JAZMINE		5	5	13	30	5	44	29	43	31	33	35	39						
BRANDVLEI MARINO		MES BENOIT	10.93	103	100	79	102	106	116	108	118	108	110	109	115	30 7	1 1				
	2020	MES GULIETTA		5	5	27	53	28	68	52	67	54	56	58	63						
LINGA LONGA TONNER		LINGA LONGA TANKKA	5.71	96	92	100	96	88	92	104	114	80	99	101	102	42 4	7 6				
	2021	SUBIRI ZUNIKA-ZEE		5	5	5	46	14	66	46	65	48	50	53	59						
PETERBUILT HAKEEM		AFRIKA DROGO	8.36	110	84	108	112	92	128	99	84	95	97	107	98	13 1	1 1			1 1	
	2021	AFRIKA ZIMBIE		5	5	22	45	17	61	44	60	45	48	50	55						
PETERBUILT ZEUS III		AFRIKA DROGO	8.36	110	84	108	119	109	108	105	111	116	119	123	119	20 2	3 2				
	2021	AFRIKA ZIMBIE		5	5	22	46	18	62	44	61	46	49	51	56						

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	
MES KYLIE	2017	MES ARNOLD 1	11.65	110	105	116	113	107	99	79	95	110	102	115	104	15	2	8	1	1	4
		MES TAYLA		9	29	53	64	43	78	64	77	65	67	69	73			6			1
KLEIN SANDFONTEIN BLIZZARD	2019	KLEIN SANDFONTEIN HUEY	8.36	107	95	111	114	112	127	116	117	120	117	126	125	34	5	9	1		5
		ZUKANDI BLISS		8	25	55	61	40	75	61	74	62	64	66	70			8			1
AFRIKA ZIMBIE	2019	AFRIKA DANTOR	5.22	110	87	98	107	97	122	124	128	124	116	101	120	20	3	7	1	1	4
		ZUKANDI SHANA		19	35	47	55	30	69	54	68	56	58	60	64			4			1
BLUE LINE ZUMA	2020	MES YSTER	5.86	110	93	111	125	103	112	101	119	114	116	109	118	9	1	4	1	1	1
		BARBARIAN MONTEZUMA		5	21	21	42	17	56	42	55	43	45	47	52			4			1
BARBARIAN NALA	2021	BLACK IRON GOTTI	6.73	107	102	129	110	114	96	102	112	125	116	108	114	35	3	3			
		BARBARIAN BERETTA		5	5	39	38	5	55	37	54	39	41	44	49			2			
BLACK IRON THE MANEATER OF NJOMBE	2021	OUTLAW CREED	16.55	118	105	117	97	120	90	110	125	130	126	126	126	14	1	1			1
		BLACK IRON BINDI		5	5	13	40	5	58	40	57	41	44	47	52			1			1
PETERBUILT THE GHOST AND THE DARKNESS	2021	AFRIKA DROGO	8.36	110	84	90	102	103	99	120	132	121	122	109	122	6	2	1			
		AFRIKA ZIMBIE		5	5	26	44	18	60	44	59	45	47	50	54			1			
EVANTICA ECHO	2021	VOICE VELD ELOY	2.07	106	116	79	100	100	103	110	100	114	125	101	107	7	2	1			
		LEONTIX SHE'S THE ONE		5	35	18	45	21	62	44	61	46	48	51	56			1			
KLEIN SANDFONTEIN BALITA	2021	MES RETIEF	13.87	117	100	111	101	113	117	120	113	122	116	132	123	9	1	3			
		KLEIN SANDFONTEIN BLIZZARD		5	5	39	53	28	68	52	67	54	56	58	63			2			
RIVERS EDGE MIA	2022	MIDDELPOS BBD ROWDY	10.04	123	109	111	108	124	113	121	141	140	135	128	140	10	1	1			
		MAEBOERBOEL LADY MELANIA		18	43	5	42	10	58	41	57	42	45	47	53			1			

