

Boerboel Genetic Evaluation

SA Stud Book
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2497 EASTON ROAD
HELLERTOWN
PENNSYLVANIA
USA



Kennel Number: 706324



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.

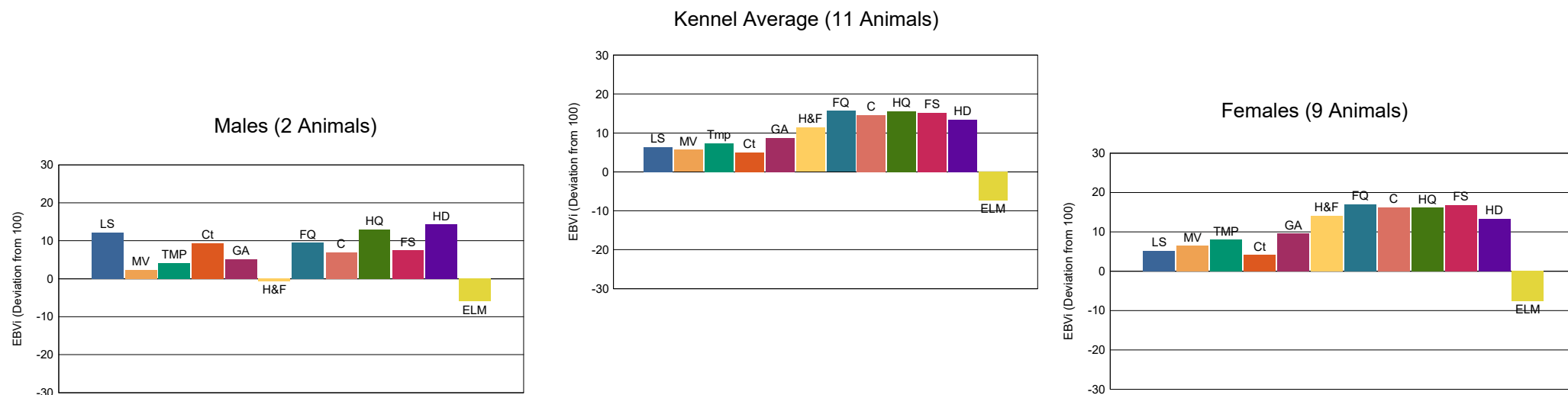
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	106	112	105
Movement (Mv)	106	102	106
Temperament (Tmp)	107	104	108
Coat (Ct)	105	109	104
General Appearance	109	105	110
Head & Face (H&F)	111	99	114
Front Quarter (FQ)	116	109	117
Centre (C)	115	107	116
Hind Quarter (HQ)	116	113	116
Final Score (FS)	115	107	117
Hip Health (HH)	113	114	113
Elbow Health (ELM)	93	94	92

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.

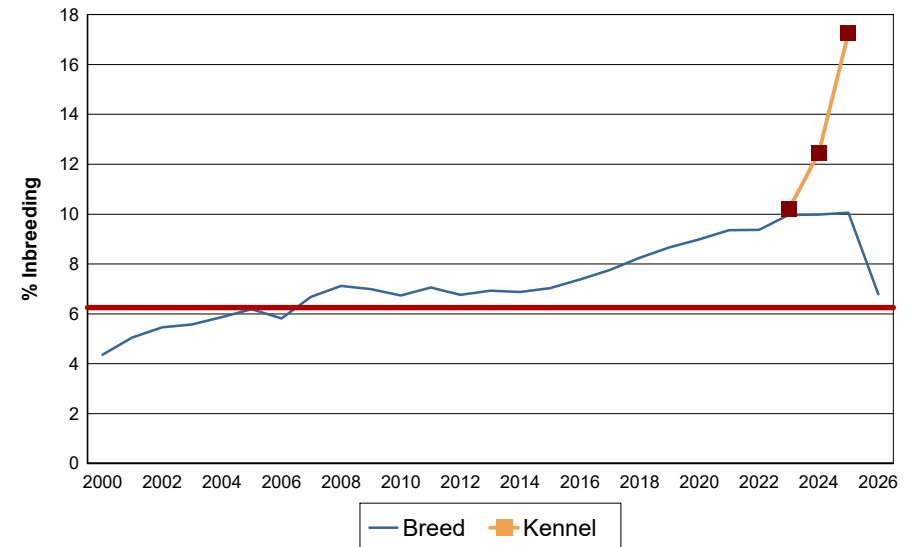
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

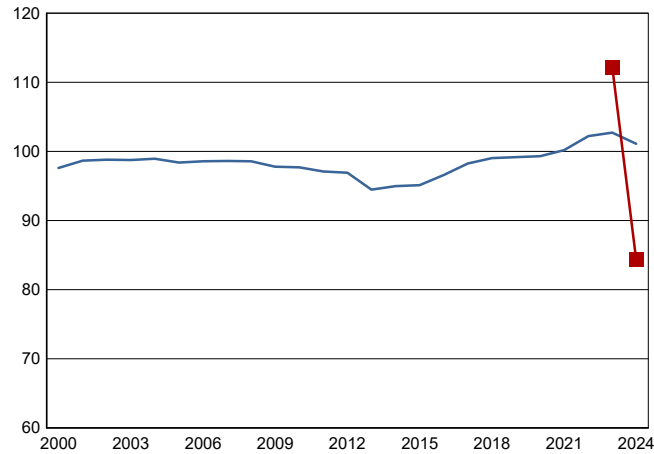


Inbreeding Levels

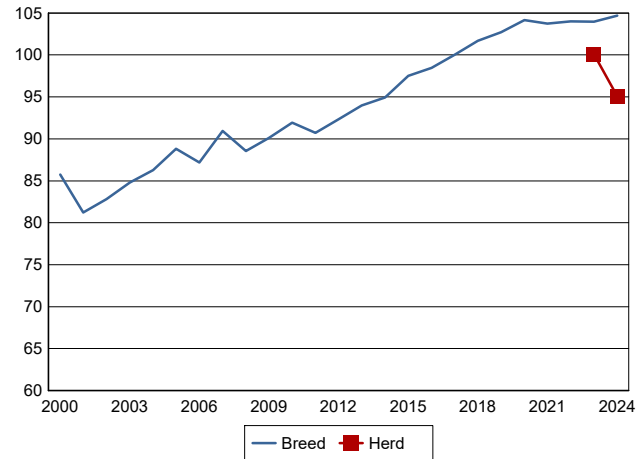
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	11	49007	2	25141	9	23857	6	3371	5	6287
Average Inbreeding	11.20	8.49	10.19	8.46	11.42	8.53	11.38	8.01	8.65	8.00
Number inbred	11	48727	2	24990	9	23728	6	24990	5	23728
Number >6.25% Inbr.	10	30600	2	15537	8	15058	6	15537	3	15058

Genetic Trends

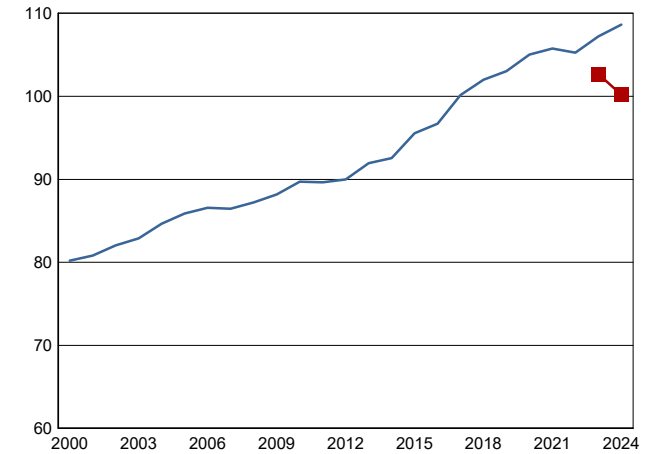
Litter Size



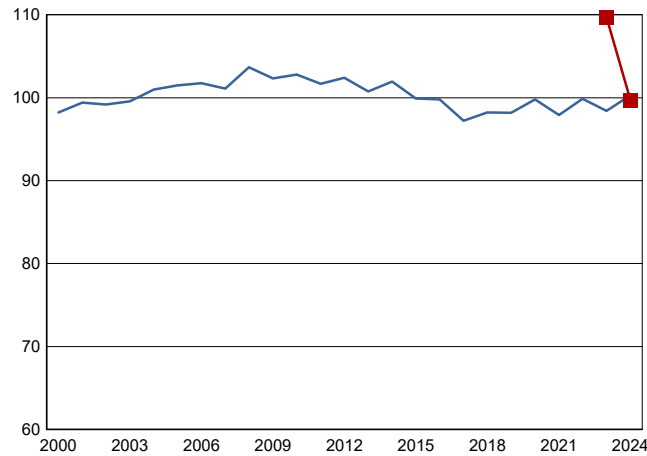
Movement



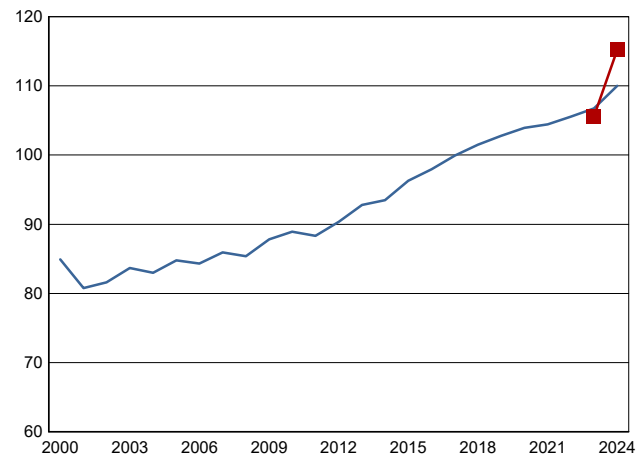
Temperament



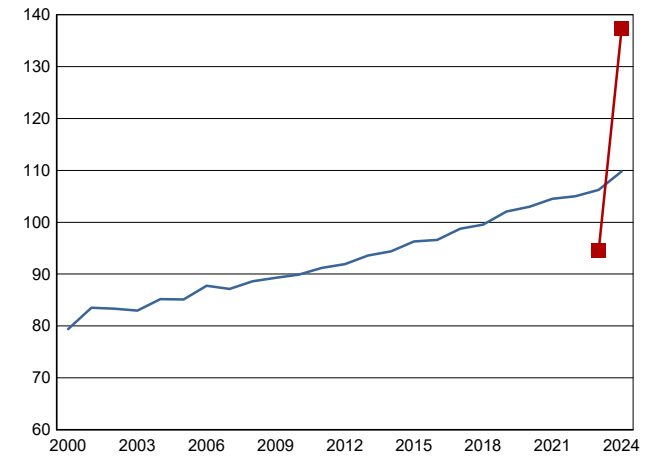
Coat



General Appearance

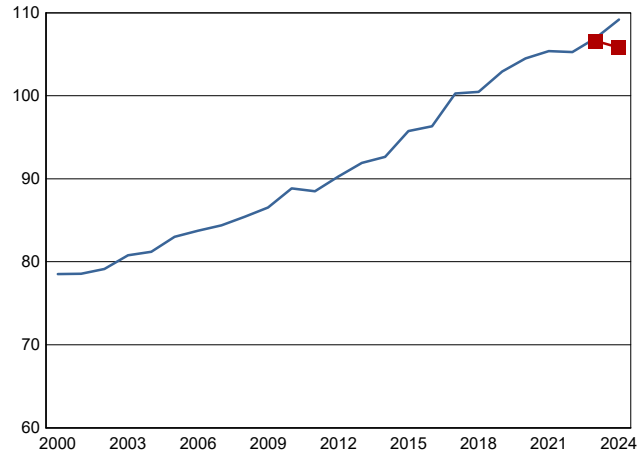


Head & Face

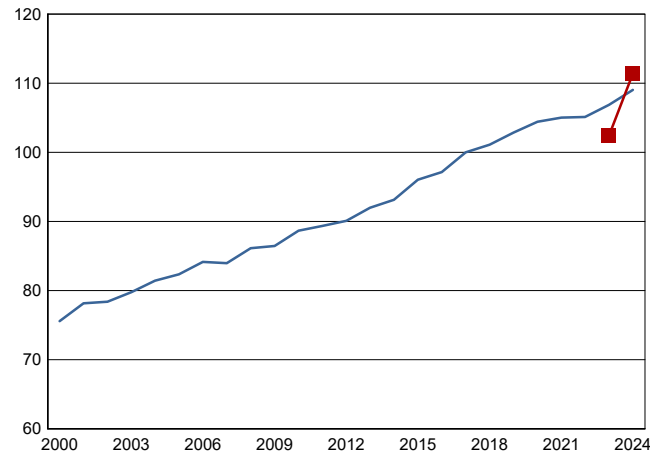


Genetic Trends

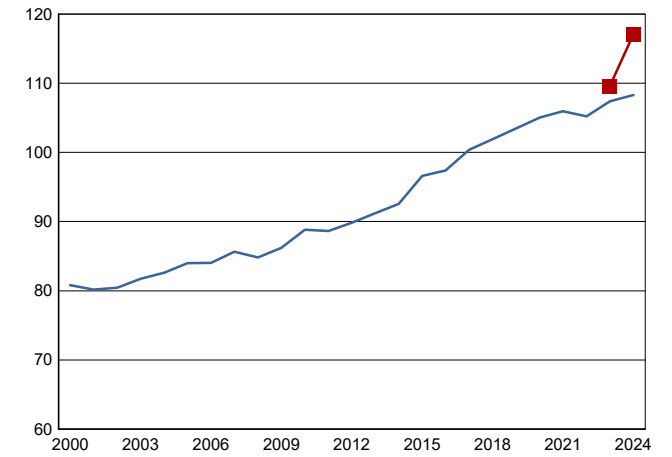
Front Quarter



Centre

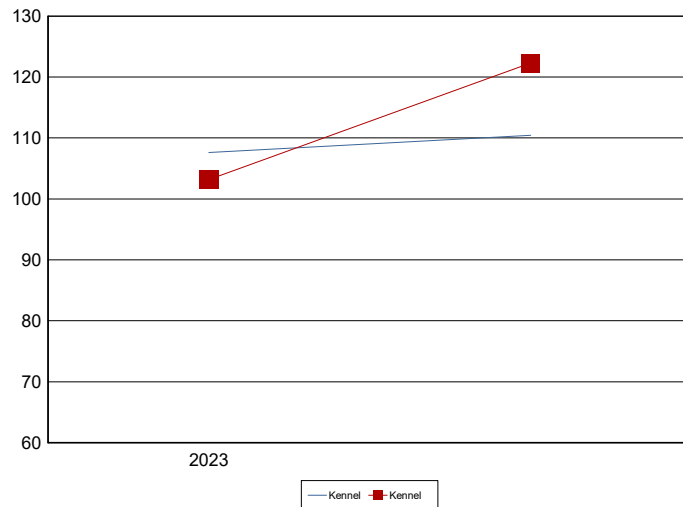


Hind Quarter

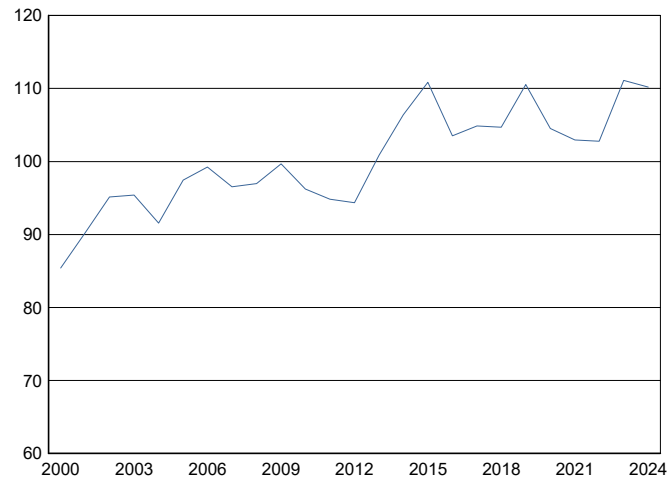


Final Score & Health Traits

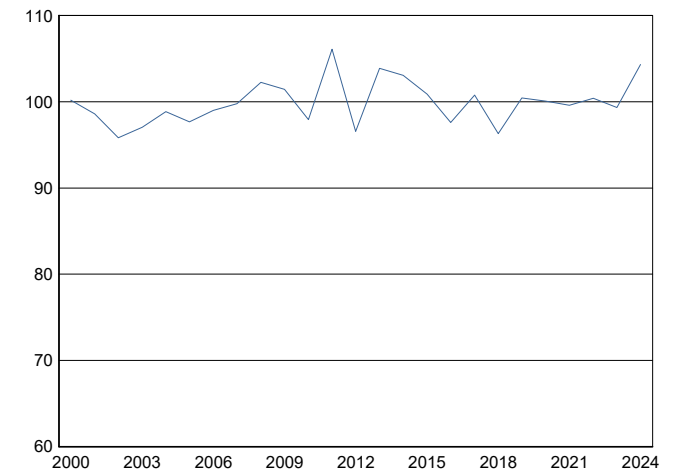
Final Score



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	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	
COLD RIVER MR WEDNESDAY	PETERBUILT HAKEEM		10.19	114	94	112	100	103	110	106	95	107	102	110	103	7	2				
	2023	BLACK IRON THE MANEATER OF NJOMBE		5	5	5	31	5	50	30	49	32	34	38	43						
COLD RIVER SUN WUKONG	PETERBUILT HAKEEM		10.19	114	94	112	105	106	109	105	104	112	111	117	112						
	2023	BLACK IRON THE MANEATER OF NJOMBE		5	5	5	22	5	38	21	37	23	25	28	33						

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	
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 MERCY	2021	AFRIKA DROGO	8.36	110	84	108	111	105	111	108	112	115	112	112	115						
		AFRIKA ZIMBIE		5	5	22	37	10	48	36	47	37	39	41	44						
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			
OUTLAW RHOXY	2022	OUTLAW DRAX	4.48	105	92	83	124	115	112	114	107	111	118	129	121	14	2	3			
		LEONTIX SAARTJIE		16	38	22	42	11	61	42	59	43	46	49	54			3			
COLD RIVER PINK LOTUS	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						
COLD RIVER BREAKER OF CHAINS	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						
COLD RIVER YELLOW IMPOSTER	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						
COLD RIVER CAUGHT RED-HANDED	2025	COLD RIVER MR WEDNESDAY	21.27	112	89	101	101	103	104	113	113	114	112	109	113						
		PETERBUILT THE GHOST AND THE DARKNESS		5	5	5	5	5	24	5	23	5	5	5	15						
COLD RIVER CRIMSON WEIGHT OF THE CROWN	2025	BLACK IRON TUG	13.22	120	97	112	110	111	95		125	126	121	110	121						
		BLACK IRON THE MANEATER OF NJOMBE		5	5	5	25	5	43		42	26	29	32	37						

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	
OUTLAW DRAX		BLACK IRON TUCKER	9.71	112	92	90	125	122	114	130	135	132	144	145	145	21	5	11	2	3	3
	2019	BARBARIAN ATHENA		9	37	8	55	25	72	54	71	56	58	61	66		11		3		2
OUTLAW CREED		BLACK IRON TUCKER	9.71	125	114	88	108	121	82	127	131	130	142	137	135	55	10	13	3	2	7
	2019	BARBARIAN ATHENA		22	44	20	58	27	74	58	73	58	61	64	69		10		2		2
AFRIKA DROGO		MES RUBENSTEIN	20.24	110	80	117	116	113	101	91	96	106	108	123	109	9	1	4			3
	2020	MES MISHA II		5	21	43	60	39	73	60	72	61	63	65	69		3				1
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		1				1
BLACK IRON TUG		BLACK IRON KEEPER	10.08	123	89		123	102	100	104	126	122	117	94	116	40	4	11			
	2022	BLUE LINE ZUMA		12	38		54	23	72	53	71	55	58	60	66		8				
COLD RIVER MR WEDNESDAY		PETERBUILT HAKEEM	10.19	114	94	112	100	103	110	106	95	107	102	110	103	7	2				
	2023	BLACK IRON THE MANEATER OF NJOMBE		5	5	5	31	5	50	30	49	32	34	38	43						

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	
BLACK IRON BINDI	2017	KLEIN SANDFONTEIN JUDGE	11.21	112	95	155	86	119	86	106	117	127	105	103	110	35	4	5			1
		MES HONEYLYN		17	37	48	56	33	71	56	70	57	59	61	66			4			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
LEONTIX SAARTJIE	2020	VOICE VELD ELOY	1.88	100	105	92	96	96	97	104	90	95	97	96	93	2	1	1	1	1	1
		PARA BELLUM UPTOWN FUNK I		5	35	24	45	20	62	44	61	46	48	51	56			1			1
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			

