

Boerboel Genetic Evaluation

SA Stud Book
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KOSMOSDALE EXT 80
PRETORIA
0157



Kennel Number: 707294



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.

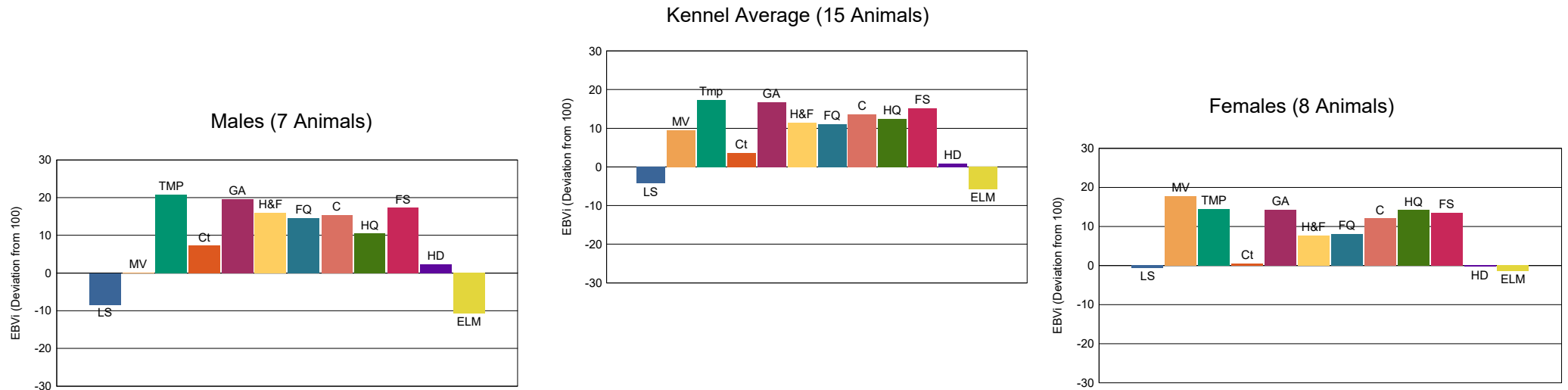
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	96	92	99
Movement (Mv)	110	100	118
Temperament (Tmp)	117	121	114
Coat (Ct)	104	107	101
General Appearance	117	120	114
Head & Face (H&F)	112	116	108
Front Quarter (FQ)	111	115	108
Centre (C)	114	115	112
Hind Quarter (HQ)	112	110	114
Final Score (FS)	115	117	113
Hip Health (HH)	101	102	100
Elbow Health (ELM)	94	89	99

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.

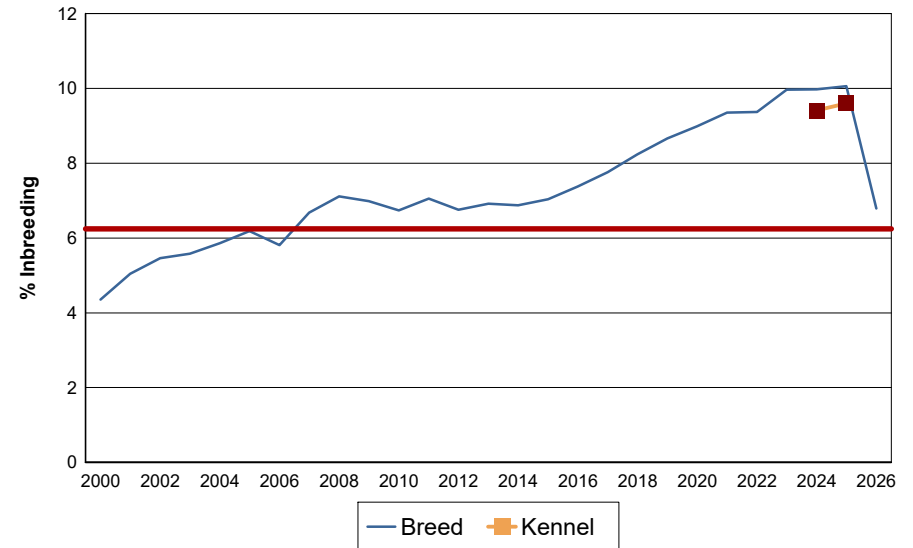
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

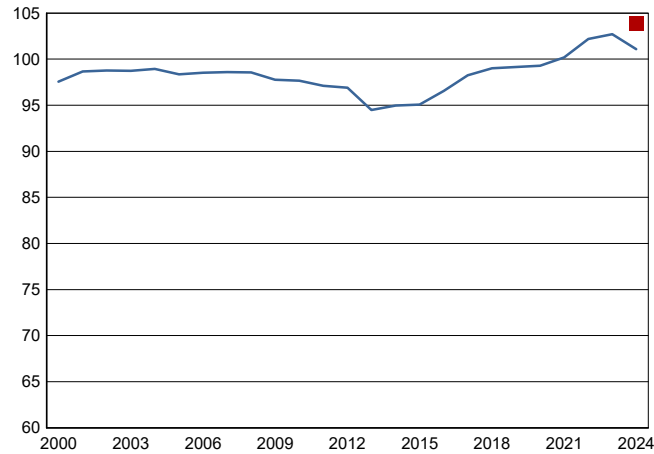


Inbreeding Levels

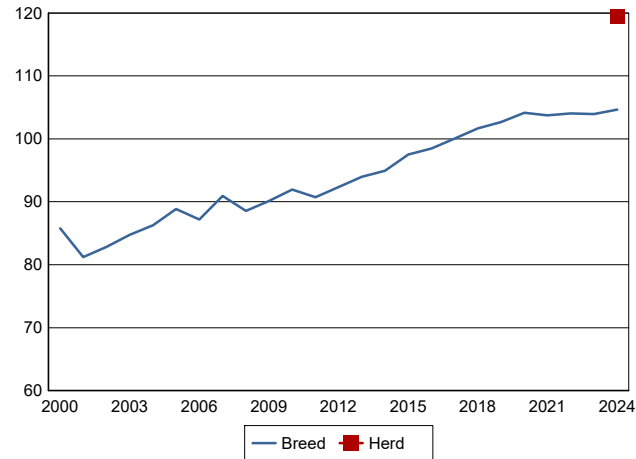
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	15	49007	7	25141	8	23857	11	3371	11	6287
Average Inbreeding	10.45	8.49	10.24	8.46	10.64	8.53	9.88	8.01	11.78	8.00
Number inbred	15	48727	7	24990	8	23728	11	24990	11	23728
Number >6.25% Inbr.	15	30600	7	15537	8	15058	7	15537	10	15058

Genetic Trends

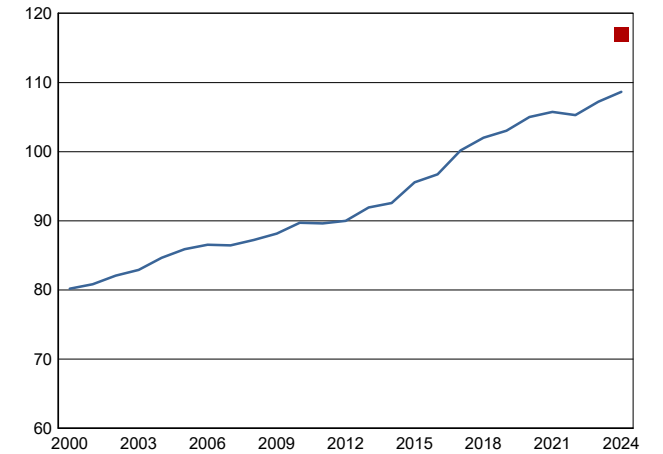
Litter Size



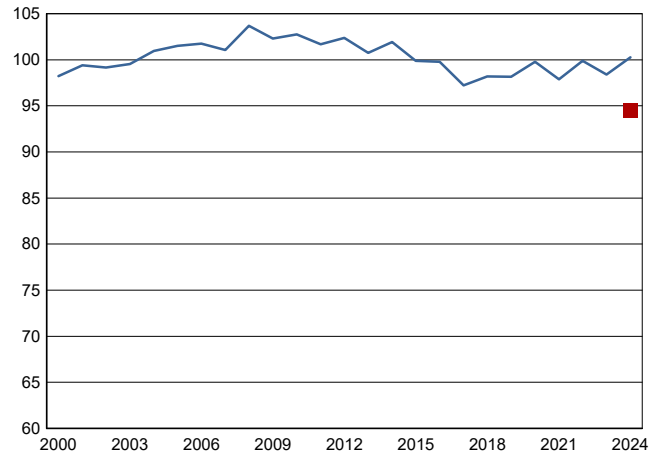
Movement



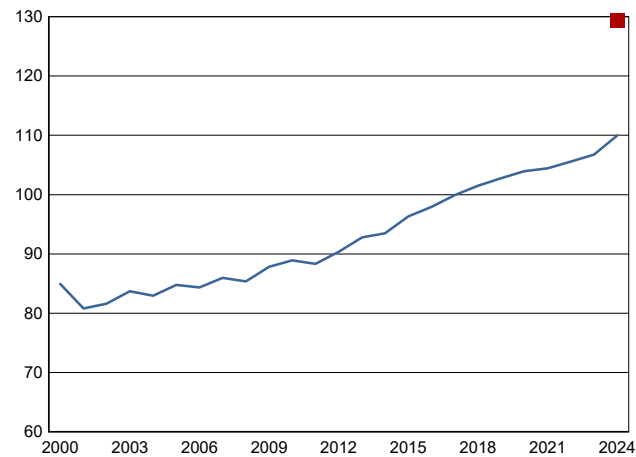
Temperament



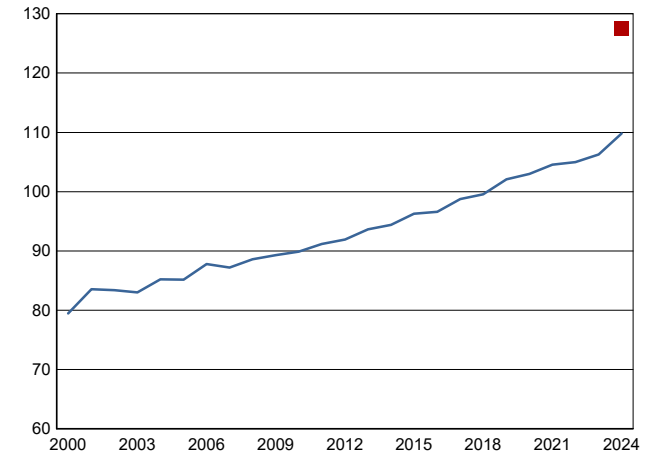
Coat



General Appearance

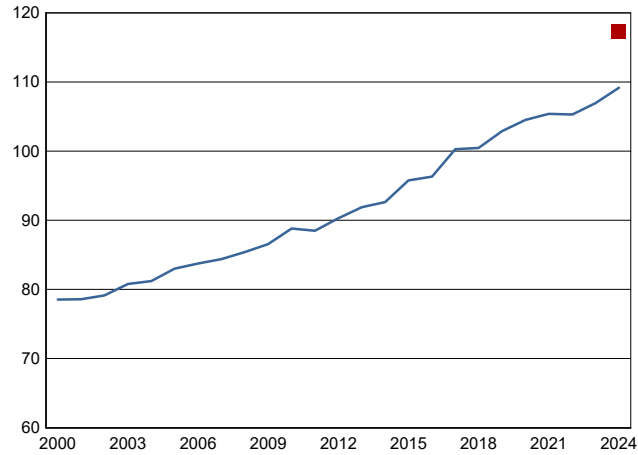


Head & Face

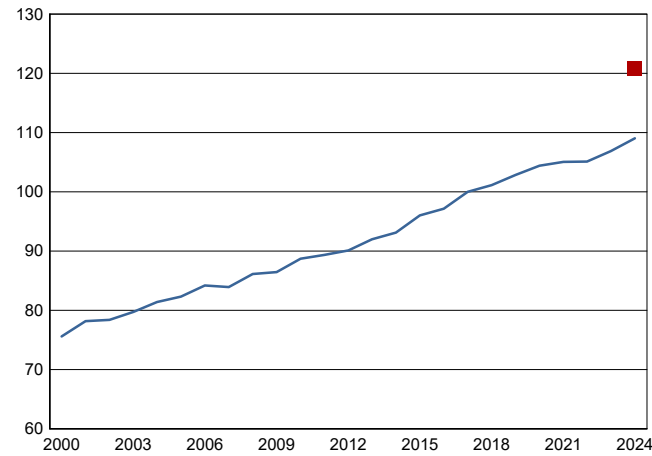


Genetic Trends

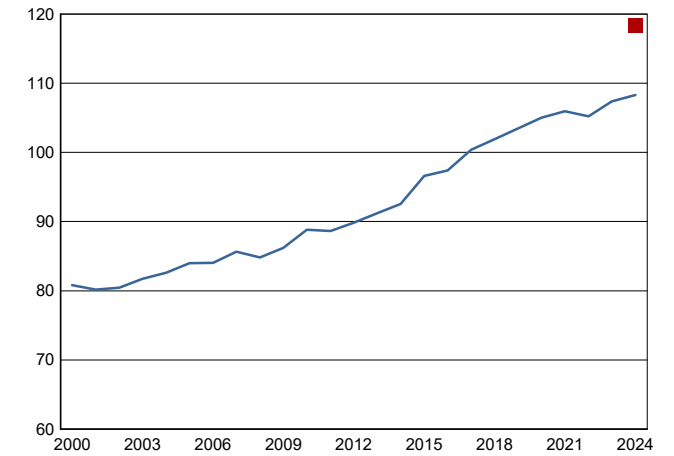
Front Quarter



Centre



Hind Quarter

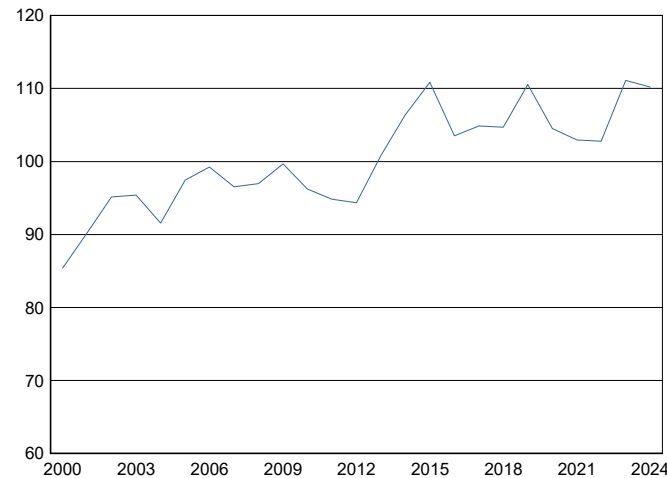


Final Score & Health Traits

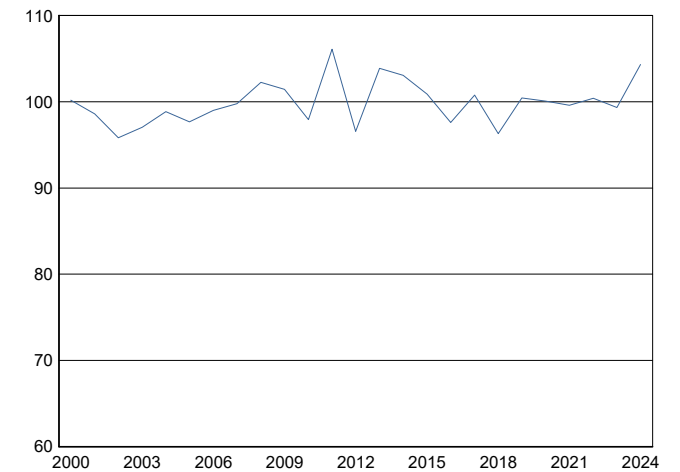
Final Score



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		Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
BYr	Dam	%	Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
BOSTU AJAX	BOSTU SHOW GUN	10.08	103	83	85	86	127	98	122	122	120	120	113	120	5	2				
	2021 AFRIKA RULE		5	8	26	50	24	66	49	65	51	53	55	60						
BBS SIYA	ELEVATION JASPER I	14.67	113	98	84	114	113	112	118	129	109	107	104	119	2	1				
	2023 SA SURVIVAL ZENOBIA		5	5	5	42	5	62	41	61	43	46	49	55						
SIWANI WAZIBA	BOSTU AJAX	12.26	100	92	99	102	125	97	128	127	119	119	111	123						
	2025 ELEVATION MADAXIA		5	5	6	30	5	43	30	42	31	33	35	39						
SIWANI GRIZZLY	BOSTU AJAX	12.26	100	92	99	102	125	97	128	127	119	119	111	123						
	2025 ELEVATION MADAXIA		5	5	6	30	5	43	30	42	31	33	35	39						
SIWANI DUKE	BOSTU AJAX	7.47	100	87	92	99	119	116			112	114								
	2025 WOR MAJINGILANE SALSA		5	5	5	26	5	40		39	27	29	31	35						
SIWANI HONDO	BOSTU AJAX	7.47	100	87	92	99	119	116			112	114								
	2025 WOR MAJINGILANE SALSA		5	5	5	26	5	40		39	27	29	31	35						
SIWANI DUNGA	BOSTU AJAX	7.47	100	87	92	99	119	116			112	114								
	2025 WOR MAJINGILANE SALSA		5	5	5	26	5	40		39	27	29	31	35						

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	
WOR MAJINGILANE SALSA		SA SUPERIOR GRIZZLY	7.17	98	90	98	112	111	134	104	83	104	108	110	104	10	3	1			
	2020	CDH PHILA		5	5	12	41	6	54	40	54	42	44	46	50						
ELEVATION MADAXIA		ELEVATION DAX	13.57	97	100	112	119	122	97	134	131	117	119	110	125	10	2	3			1
	2021	ELEVATION MICA		12	33	41	56	35	69	56	68	57	58	60	64						1
BOUWER AKEELAH		KAMMO BBD REUB 166	8.13	89	100	110	119	93	104	94	91	96	104	110	100						
	2021	BOUWER GABBI		5	5	19	45	12	63	44	62	46	48	51	57						
BOSTU ARIANA		BOSTU ZAKHABERZAROV	13.51	106	103	73	119	118	86	114	103	107	113	115	111	2	1				
	2023	BOSTU ROSE		5	20	18	47	15	65	47	64	48	51	53	59						
BOSTU ATHENA		BOSTU DJ COOL	13.31	93	104	108	117	118	96	112	98	97	105	123	109						
	2023	BOSTU AZIRA		5	9	9	49	17	66	48	65	50	52	55	60						
SIWANI LEXI		KADIMA CARVELLO	10.39	103	90	104	125	120	89	131	130	120	125	122	128						
	2024	ELEVATION MADAXIA		5	5	15	46	17	63	45	62	47	49	52	57						
HERBERG SKY		HERBERG BUSTER	8.89	104	101	111	116	118	100	108	111	116	113	116	116						
	2025	HERBERG KATRYN		5	5	5	24	5	41	25	40	25	28	31	36						
SIWANI COCO		BBS SIYA	10.14	109	101	79	116	116	99	116	116	108	110	109	115						
	2025	BOSTU ARIANA		5	5	5	23	5	40	22	39	24	27	29	35						

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	with litters	
ELEVATION DAX		GROENBERG BBD RAMBO	4.48	103	71	100	117	125	107	128	132	122	115	116	128	131 24	65 53	14 14	51 9		
	2015	HAZENJACHT BBD FIELLA		53	66	69	84	68	90	83	90	84	85	86	88						
SA SUPERIOR GRIZZLY		SA SUPERIOR VOO DOO	19.35	89	87	102	119	122	137	120	101	123	128	111	119	21 2	9 7		8 2		
	2016	SA SUPERIOR PEPSI		5	5	5	56	21	72	54	71	57	59	62	67						
KAMMO BBD REUB 166		SPITSVUUR BBD TOKARA DRIFTER	8.24	83	104	110	97	86	103	106	101	90	104	96	98	17 3	3 3		1 1		
	2019	KAMMO BBD ZASTAVA		8	18	41	56	35	69	56	69	57	58	61	65						
BOSTU SHOW GUN		BOSTU GUNSTON	6.22	115	98	58	94	126	68	122	129	117	126	120	123	26 6	5 5		5 1		
	2020	ELEVATION PARIS HILTON		26	40	42	62	39	75	61	74	62	64	66	70						
ELEVATION JASPER I		ELEVATION DJ	15.29	120	95	74	122	113	107	115	110	103	113	115	115	20 3	1 1		1 1		
	2021	WOEKER BBD ATLANTAH		5	5	19	50	22	67	49	66	51	53	56	61						
KADIMA CARVELLO		BOSTU QUINN	6.03	109	81	95	115	109	98	123	122	115	119	124	123	66 13	12 7		5 3		
	2021	KADIMA FRANCHINI SPAZ		5	17	33	61	35	76	60	75	62	64	67	71						
BOSTU DJ COOL		BOSTU DADDY COOL	6.16	104	111	106	99	124	89	131	118	107	113	115	117	41 7	12 7		3 1		
	2021	ELEVATION J LO		37	55	34	63	37	77	62	76	64	66	68	73						
BOSTU ZAKHABERZAROV		BOSTU ZAZU	11.28	104	115	59	115	113	97	118	115	101	108	112	114	9 1	3 3		1 1		
	2021	KAMMO BBD FIELA I		31	51	34	55	31	69	54	68	56	58	60	64						
BOSTU AJAX		BOSTU SHOW GUN	10.08	103	83	85	86	127	98	122	122	120	120	113	120	5 2					
	2021	AFRIKA RULE		5	8	26	50	24	66	49	65	51	53	55	60						
HERBERG BUSTER		HERBERG HENNIE	6.81	97	100	101	102	114	103	116	123	115	111	106	117	16 2					
	2022	BOSTU CODY		5	5	13	47	18	64	45	63	47	50	53	58						
BBS SIYA		ELEVATION JASPER I	14.67	113	98	84	114	113	112	118	129	109	107	104	119	2 1					
	2023	SA SURVIVAL ZENOBIA		5	5	5	42	5	62	41	61	43	46	49	55						

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-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
ELEVATION MICA	2018	ELEVATION AROS	4.98	92	129	121	129	125	99	136	116	114	129	112	122	28	4	18	3	3	9
		ZUKANDI CASSY		42	58	57	65	41	79	65	78	66	68	70	74			16			2
CDH PHILA	2018	MIDDELPOS BBD JOCK 1	11.98	107	94	93	115	108	124	98	84	95	97	113	101	20	2	9			7
		CDH ELLA		5	5	44	59	36	73	59	72	60	62	64	68			6			1
AFRIKA RULE	2018	MES RUBENSTEIN	9.30	90	69	112	101	129	105	119	109	116	112	114	116	16	2	7	1	1	6
		DORSLAND EMMA		23	37	51	65	43	77	64	76	65	67	69	73			6			1
BOUWER GABBI	2019	ARTIFACTS YSTER	17.06	95	97	110	131	106	105	92	106	115	111	121	115	15	2	3			1
		BODINGTON BOERBOEL GUCCI		5	5	40	52	19	68	52	67	53	56	58	63			3			1
WOR MAJINGILANE SALSA	2020	SA SUPERIOR GRIZZLY	7.17	98	90	98	112	111	134	104	83	104	108	110	104	10	3	1			
		CDH PHILA		5	5	12	41	6	54	40	54	42	44	46	50			1			
BOSTU ROSE	2020	ELEVATION COOPER	6.68	107	92	88	120	120	85	112	100	114	116	115	111	17	3	4			2
		MES MICQAULO		34	52	51	59	36	74	59	73	60	62	64	69			3			1
ELEVATION MADAXIA	2021	ELEVATION DAX	13.57	97	100	112	119	122	97	134	131	117	119	110	125	10	2	3			1
		ELEVATION MICA		12	33	41	56	35	69	56	68	57	58	60	64			3			1
BOSTU AZIRA	2021	BOSTU ZAZU	15.31	81	96	110	118	108	94	98	90	90	92	117	100	17	1	3			1
		BOSTU ASHANTI		6	32	42	60	36	74	60	73	61	63	65	69			3			1
SA SURVIVAL ZENOBIA	2021	BBS HOBBS	10.18	106	101	93	108	113	117	118	124	107	101	99	114	9	3	1			1
		AFRIKA ORPA		5	5	11	49	19	67	48	66	50	53	55	61			1			1
BOSTU ARIANA	2023	BOSTU ZAKHABERZAROV	13.51	106	103	73	119	118	86	114	103	107	113	115	111	2	1				
		BOSTU ROSE		5	20	18	47	15	65	47	64	48	51	53	59						
HERBERG KATRYN	2023	CDH BOERSEUN	19.83	110	101	121	130	122	97	100	98	117	115	127	115	13	1				
		CDH KATRYN		5	5	5	43	5	62	44	61	44	47	50	56						

