

Boerboel Genetic Evaluation

SA Stud Book
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PROTEA GLEN EXT 31
SOWETO
1818



Kennel Number: 683280



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.

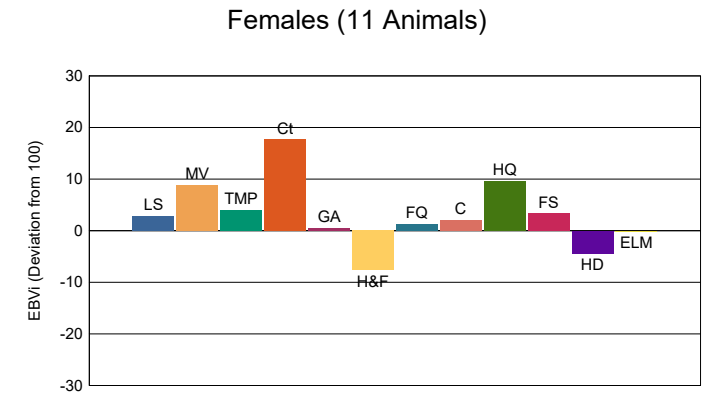
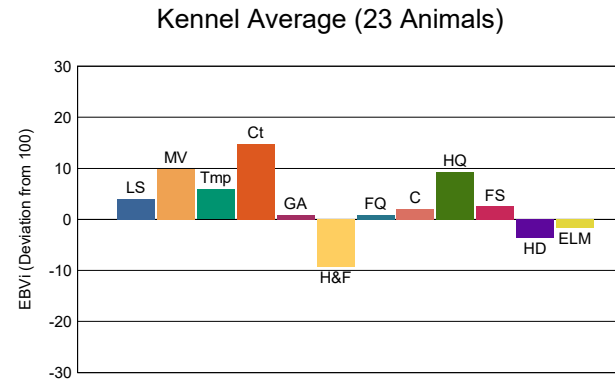
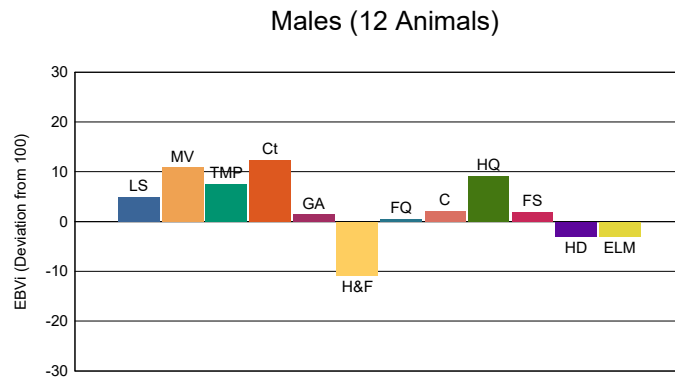
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	104	105	103
Movement (Mv)	110	111	109
Temperament (Tmp)	106	108	104
Coat (Ct)	115	112	118
General Appearance	101	101	100
Head & Face (H&F)	91	89	92
Front Quarter (FQ)	101	100	101
Centre (C)	102	102	102
Hind Quarter (HQ)	109	109	110
Final Score (FS)	103	102	103
Hip Health (HH)	96	97	96
Elbow Health (ELM)	98	97	100

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.

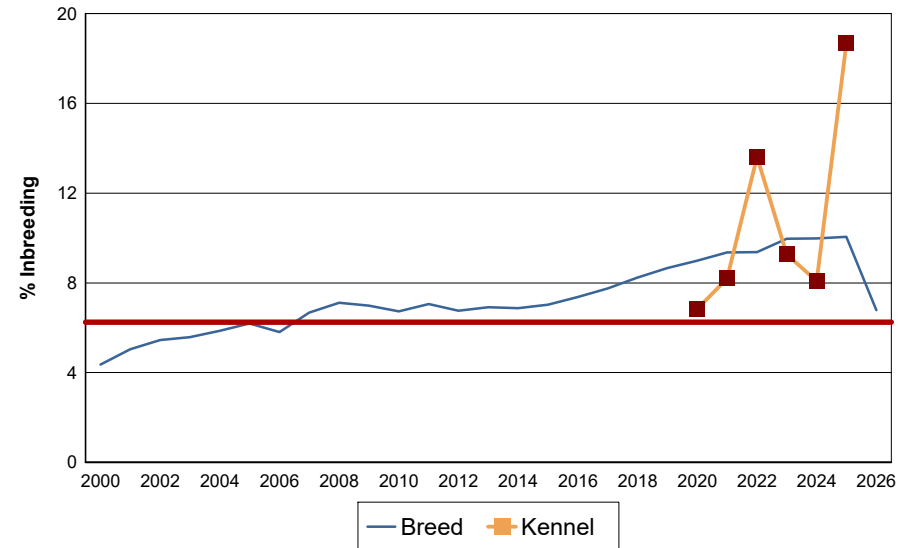
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

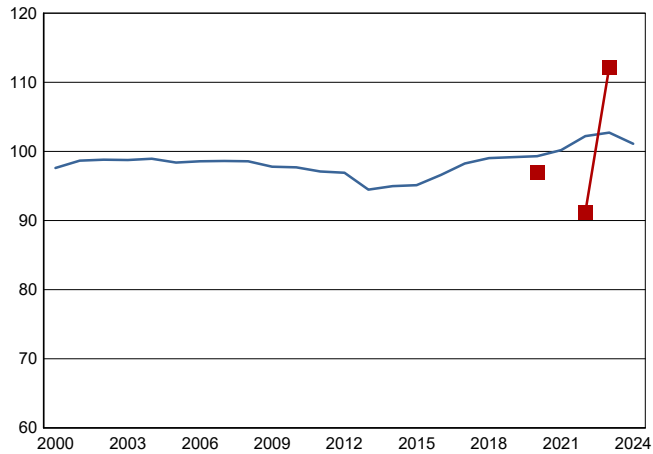


Inbreeding Levels

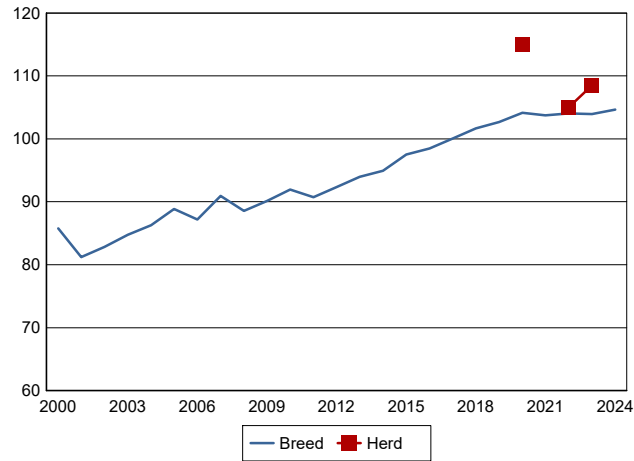
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	23	49007	12	25141	11	23857	12	3371	10	6287
Average Inbreeding	11.61	8.49	12.22	8.46	10.94	8.53	10.87	8.01	8.54	8.00
Number inbred	23	48727	12	24990	11	23728	12	24990	10	23728
Number >6.25% Inbr.	20	30600	11	15537	9	15058	8	15537	6	15058

Genetic Trends

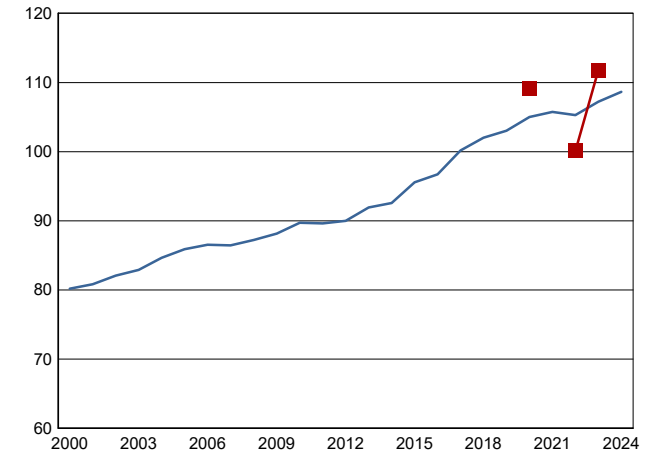
Litter Size



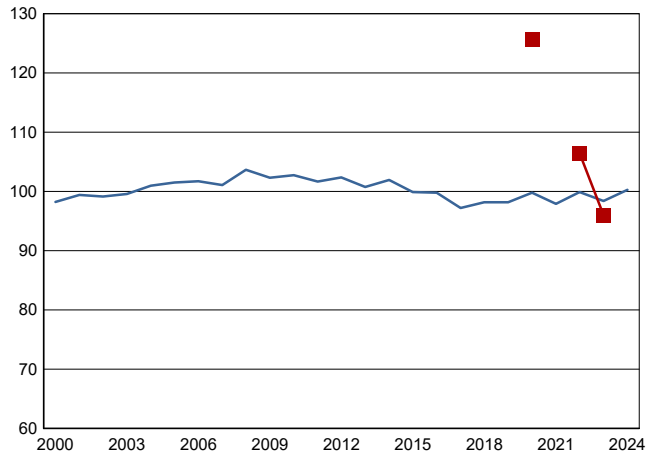
Movement



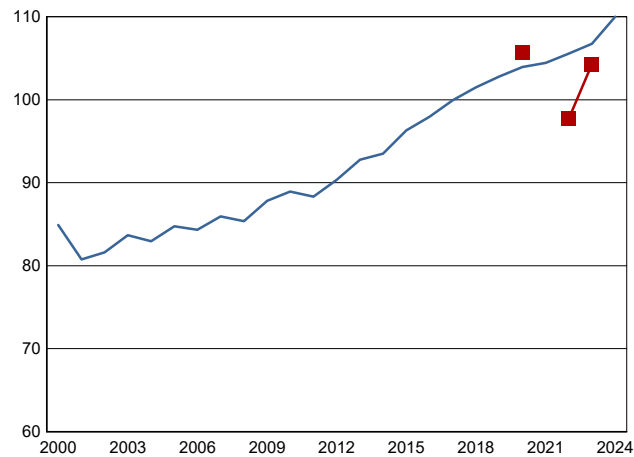
Temperament



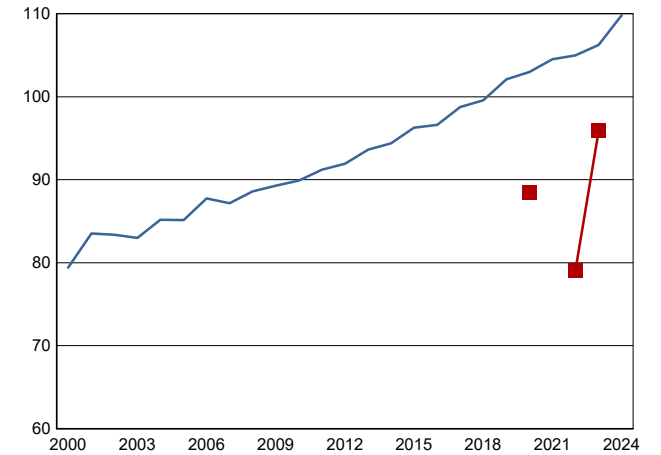
Coat



General Appearance

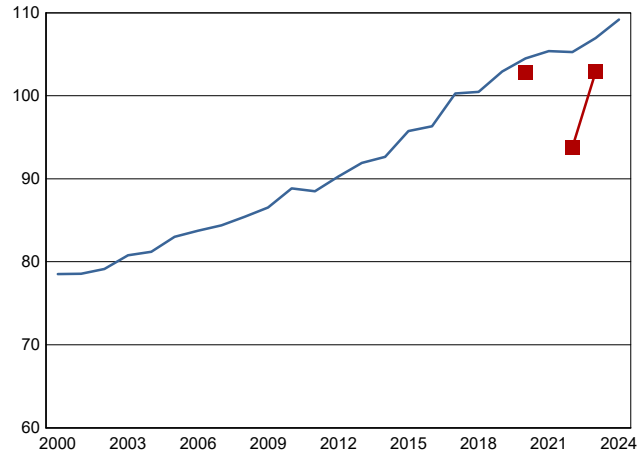


Head & Face

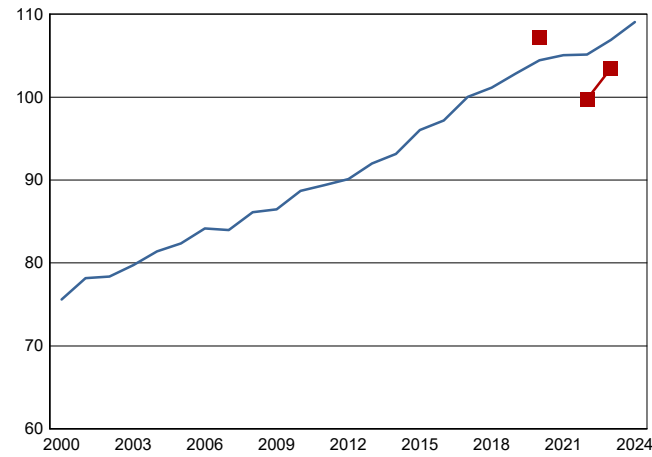


Genetic Trends

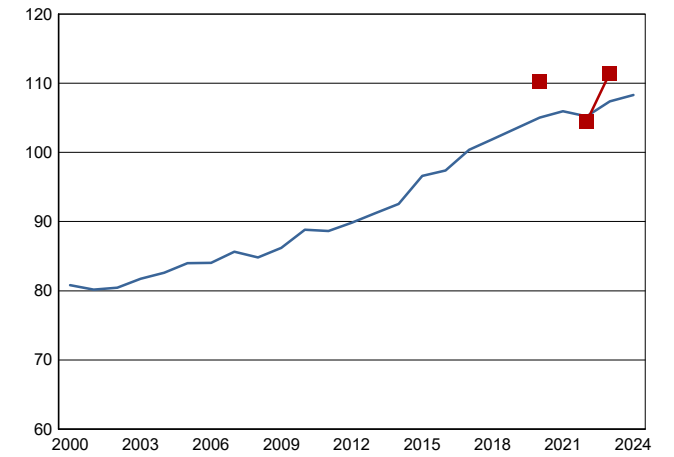
Front Quarter



Centre

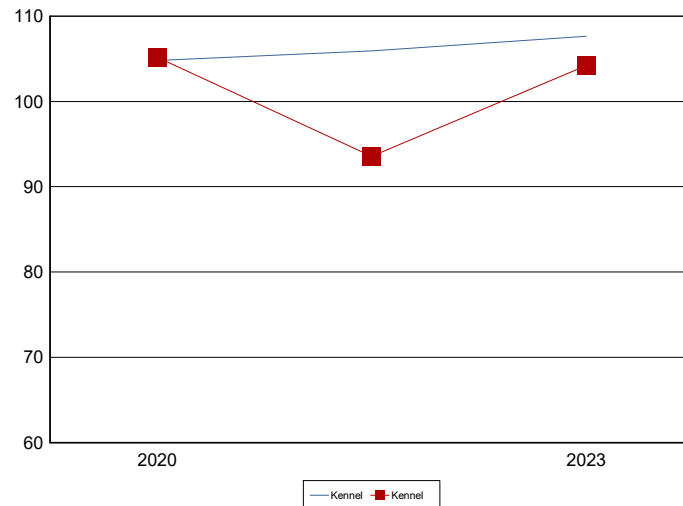


Hind Quarter

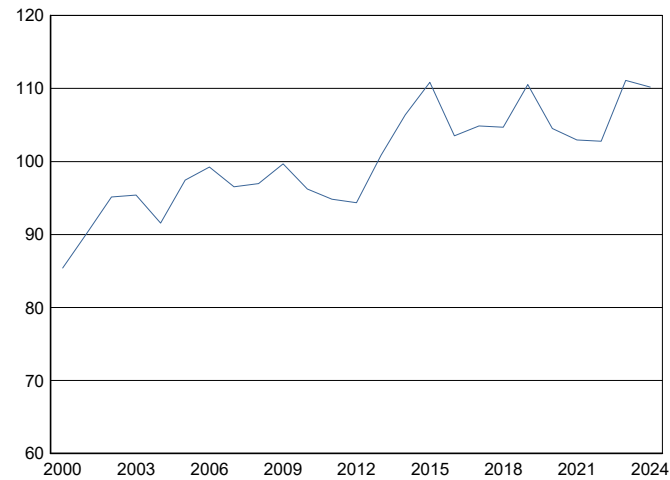


Final Score & Health Traits

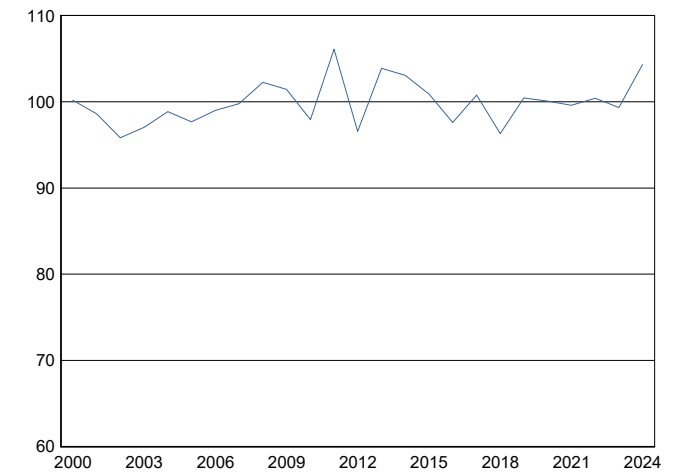
Final Score



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			
CDH BENJI	AFRIKA BUCKSTEEN	5.08	114	120	110	115	111	97	93	96	106	105	116	106	1	1				
	CDH BARBIE		5	5	38	54	31	68	53	67	55	57	59	63						
WOR NIMROD	SA SUPERIOR GRIZZLY	7.17	98	90	97	113	111	133	111	90	105	109	108	107	7					
	CDH PHILA		5	5	5	47	14	64	46	63	48	50	53	58						
AFRIKA PABLO I	MES RUBENSTEIN	8.17	117	74	137	117	116	116	102	105	106	95	109	109	1	1				
	AFRIKA RUSTIQUE		15	29	42	56	37	69	56	68	57	59	61	65						
BOSTU CANAAN	ELEVATION COOPER	9.07	99	81	128	109	115	79	100	89	99	97	113	99	5	3	1			
	BOSTU ASHANTI		22	37	41	58	36	70	57	69	58	60	62	66						
WOR MA-THOUSAND	CABARET EL-SHADAI	15.00	87	109	91	101	98	103	97	80	93	98	102	92						
	WOR SURVIOR		5	5	5	27	5	42	26	41	28	30	33	37						
WOR EL-ROI	CABARET EL-SHADAI	15.00	87	109	91	109	103	110	99	78	95	101	107	95						
	WOR SURVIOR		5	5	5	38	5	59	38	57	39	42	45	52						
WOR NKABI YAMI	CABARET EL-SHADAI	15.00	87	109	91	101	98	103	97	80	93	98	102	92						
	WOR SURVIOR		5	5	5	27	5	42	26	41	28	30	33	37						
WOR GONZILA	BOSTU CANAAN	8.08	99	86	113	115	116	108	105	92	105	105	114	106						
	WOR PENINAH		5	5	6	30	5	42	30	42	31	33	35	38						
WOR LUCIANO	BOSTU CANAAN	8.08	99	86	113	115	116	108	105	92	105	105	114	106						
	WOR PENINAH		5	5	6	30	5	42	30	42	31	33	35	38						

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	
WOR COOPER		WOR NIMROD	18.67	92	100	96	112	103	130	103	89	100	104	108	104						
	2025	WOR SURVIOR		5	5	5	12	5	37	9	36	14	19	23	30						
WOR GRIZZLY		WOR NIMROD	18.67	92	100	96	112	103	130	103	89	100	104	108	104						
	2025	WOR SURVIOR		5	5	5	12	5	37	9	36	14	19	23	30						
WOR NINA		WOR NIMROD	18.67	92	100	96	112	103	130	103	89	100	104	108	104						
	2025	WOR SURVIOR		5	5	5	12	5	37	9	36	14	19	23	30						

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	
CDH ESTHER	2018	CDH BULLET	6.26	101	108	97	108	109	113	108	102	107	110	110	110	2	2	1 1			
		CDH SUSSIE		5	5	37	44	21	55	44	54	45	46	48	51						
WOR PENINAH	2020	SA SUPERIOR GRIZZLY	7.17	98	90	98	120	116	138	109	95	112	113	114	113	4	2				
		CDH PHILA		5	5	13	46	14	63	46	62	47	50	52	58						
WOR SURVIOR	2020	ELDORADO BBD FRANK SINATRA	5.44	86	109	95	111	94	128	95	88	95	99	109	100	12	1	2 2			
		CDH PHILA		5	5	22	50	23	66	49	65	51	53	56	61						
KADIMA RAMATHA-LEHI	2021	BREKER FANUS	5.06	82	104	116	83	77	99	85	86	90	84	102	87						
		KADIMA TRUVELO		5	5	26	49	28	58	49	58	50	51	53	56						
WOR RUTH	2021	CDH BENJI	8.20	107	114	103	111	110	105	101	99	106	107	113	108						
		CDH ESTHER		5	5	12	29	5	41	29	40	30	32	34	37						
WOR ASHANTI	2024	BOSTU CANAAN	8.08	99	86	113	115	116	108	105	92	105	105	114	106						
		WOR PENINAH		5	5	6	30	5	42	30	42	31	33	35	38						
WOR KENYA	2024	BOSTU CANAAN	8.08	99	86	113	115	116	108	105	92	105	105	114	106						
		WOR PENINAH		5	5	6	30	5	42	30	42	31	33	35	38						
WOR EVY	2025	WOR NIMROD	18.67	92	100	96	112	103	130	103	89	100	104	108	104						
		WOR SURVIOR		5	5	5	12	5	37	9	36	14	19	23	30						
WOR SASHA	2025	WOR NIMROD	18.67	92	100	96	112	103	130	103	89	100	104	108	104						
		WOR SURVIOR		5	5	5	12	5	37	9	36	14	19	23	30						
WOR TAYLA	2025	WOR NIMROD	18.67	92	100	96	112	103	130	103	89	100	104	108	104						
		WOR SURVIOR		5	5	5	12	5	37	9	36	14	19	23	30						
ICONIC MISS SOWETO	2025	KADOS TEXAS	16.07	103	102	109	98	99	103	90	94	94	90	106	97						
		ICONIC HILUX		5	5	5	37	5	49	37	48	38	39	41	45						

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		
AFRIKA BUCKSTEEN		MAKHULU BBD RAFA	5.08	108	135	114	103	92	120	88	91	92	85	96	93	139 18	36 29			26	
	2014	AFRIKA KIARA II		13	24	59	74	52	85	74	85	75	77	79	82					4	
ELEVATION COOPER		GROENBERG BBD RAMBO	4.48	112	60	98	111	134	95	126	121	125	124	125	127	127 21	52 39	10	10	37	
	2015	HAZENJACHT BBD FIELLA		56	68	70	81	64	89	81	89	82	83	84	87					7	
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	
	2016	SA SUPERIOR PEPSI			5	5	5	56	21	72	54	71	57	59	62					67	2
MES RUBENSTEIN		GROENBERG BBD RAMBO	4.08	111	59	133	122	134	109	99	101	114	104	128	116	314 52	101 83	21	20	83	
	2016	MES LIZE		58	67	73	86	71	92	86	92	87	88	89	90					11	
CDH BULLET		CDH SNIPER	10.46	103	118	94	111	124	118	117	113	123	116	119	122	169 26	43 36	4	4	32	
	2017	MIDDELPOS BBD MILLY			16	36	57	76	53	86	75	85	76	78	80					83	4
BREKER FANUS		BREKER MENEER	15.68	97	107	76	68	71	92	94	111	102	92	104	98	151 21	41 38			27	
	2017	BREKER BELLA			5	5	46	75	50	86	75	85	76	78	79					83	7
ELDORADO BBD FRANK SINATRA		CABARET PAVAROTTI	18.64	65	125	98	113	88	107	96	83	89	96	99	91	51 10	28 20			12	
	2017	CABARET PAMELA ANDERSON			5	5	41	69	43	83	68	82	70	72	74					79	4
CABARET EL-SHADAI		CABARET SPYKER	22.86	89	109	87	91	101	78	98	72	91	98	96	84	4	2 2				
	2018	CABARET JESSICA			5	5	5	47	5	65	46	64	48	50	53					59	
CDH BENJI		AFRIKA BUCKSTEEN	5.08	114	120	110	115	111	97	93	96	106	105	116	106	1 1					
	2019	CDH BARBIE		5	5	38	54	31	68	53	67	55	57	59	63						
KADOS TEXAS		TARGUS BOM BOEL	8.44	101	105	109	100	100	94	78	80	91	94	110	92	90 11	22 18			15	
	2020	MES LULU V			5	5	46	70	47	82	70	82	71	73	75					79	5
WOR NIMROD		SA SUPERIOR GRIZZLY	7.17	98	90	97	113	111	133	111	90	105	109	108	107	7					
	2020	CDH PHILA			5	5	5	47	14	64	46	63	48	50	53					58	
BOSTU CANAAN		ELEVATION COOPER	9.07	99	81	128	109	115	79	100	89	99	97	113	99	5 3	1 1				
	2021	BOSTU ASHANTI			22	37	41	58	36	70	57	69	58	60	62					66	

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	
CDH SUSSIE	2016	DEO-HAN ZORBA	4.38	100	98	100	105	93	109	100	92	91	103	100	98	35	4	5			5
		DELMA SIAH		5	5	54	54	26	72	53	71	55	58	60	66			5			1
CDH BARBIE	2018	MIDDELPOS BBD JOCK 1	17.31	119	105	105	124	121	107	98	97	112	112	125	114	40	4	11			11
		MIDDELPOS BBD MIKI		5	5	59	62	39	74	61	73	62	64	66	70			11			1
KADIMA TRUVELO	2018	MAXIPAL TROMPIE	4.32	67	101	157	98	83	106	76	61	79	75	99	75	45	5	15			8
		KADIMA MA-DUECE		17	34	52	62	35	78	62	77	63	66	68	73			15			1
CDH ESTHER	2018	CDH BULLET	6.26	101	108	97	108	109	113	108	102	107	110	110	110	2	2	1			
		CDH SUSSIE		5	5	37	44	21	55	44	54	45	46	48	51			1			
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 RUSTIQUE	2019	AFRIKA DANTOR	6.10	123	88	140	109	97	113	103	110	100	93	94	103	24	3	6	1	1	4
		AFRIKA GEMMA		23	37	59	61	36	75	60	75	62	64	66	71			6			1
BOSTU ASHANTI	2019	CABARET PAVAROTTI	12.13	87	102	158	115	95	108	80	72	86	77	106	85	33	3	20	1	2	7
		MES ALUSHKA		43	59	59	71	47	83	70	82	72	74	76	79			15			1
WOR PENINAH	2020	SA SUPERIOR GRIZZLY	7.17	98	90	98	120	116	138	109	95	112	113	114	113	4	2				
		CDH PHILA		5	5	13	46	14	63	46	62	47	50	52	58						
WOR SURVIOR	2020	ELDORADO BBD FRANK SINATRA	5.44	86	109	95	111	94	128	95	88	95	99	109	100	12	1	2			
		CDH PHILA		5	5	22	50	23	66	49	65	51	53	56	61			2			
ICONIC HILUX	2022	MES HILUX	10.26	106	98	108	97	98	113	102	108	97	86	101	102	5	1				
		DEFIANT DUDLU		5	5	14	48	22	65	48	64	49	51	54	59						

