

Boerboel Genetic Evaluation

SA Stud Book
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0 S. REINECKE

Am Hasenkamp

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Dissen aTW

49201



Kennel Number: 672453



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.

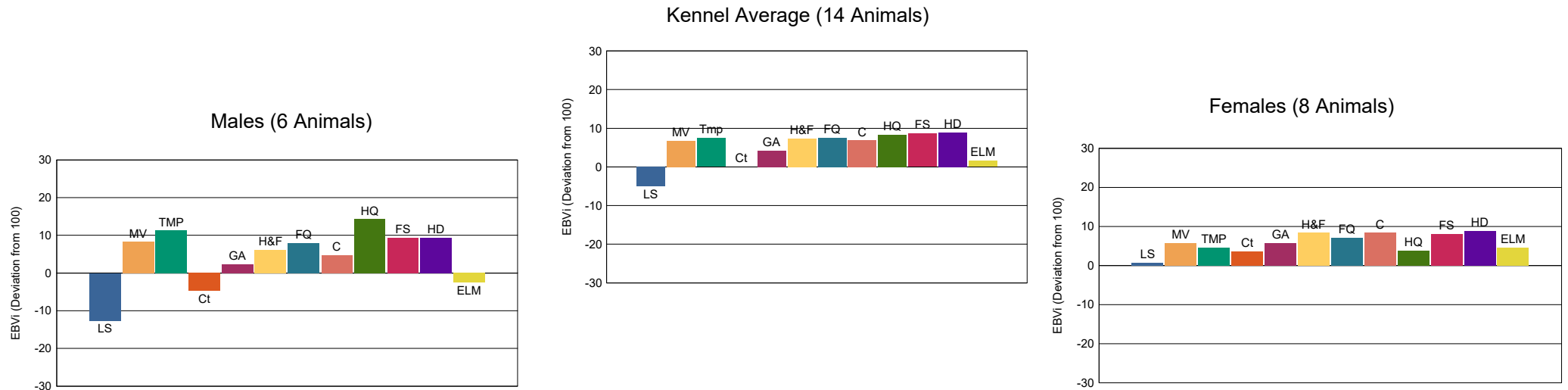
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	95	87	101
Movement (Mv)	107	108	106
Temperament (Tmp)	107	111	105
Coat (Ct)	100	95	104
General Appearance	104	102	106
Head & Face (H&F)	107	106	108
Front Quarter (FQ)	108	108	107
Centre (C)	107	105	108
Hind Quarter (HQ)	108	114	104
Final Score (FS)	109	109	108
Hip Health (HH)	109	109	109
Elbow Health (ELM)	102	98	105

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.

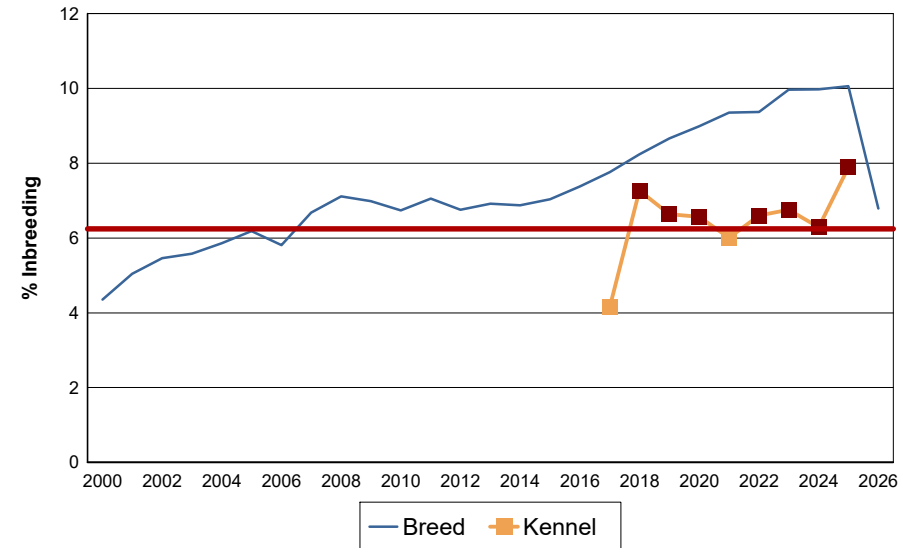
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

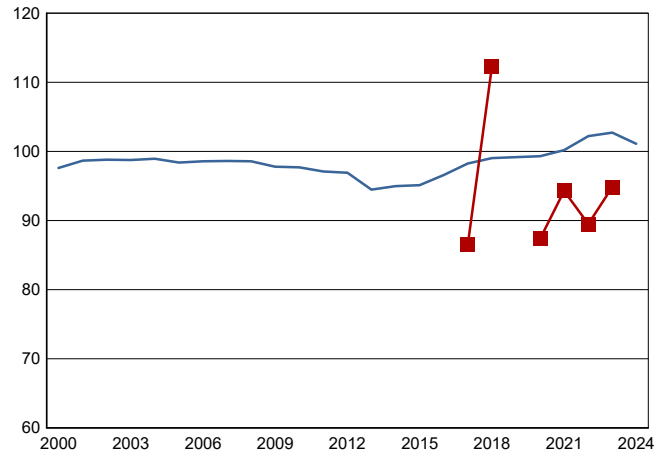


Inbreeding Levels

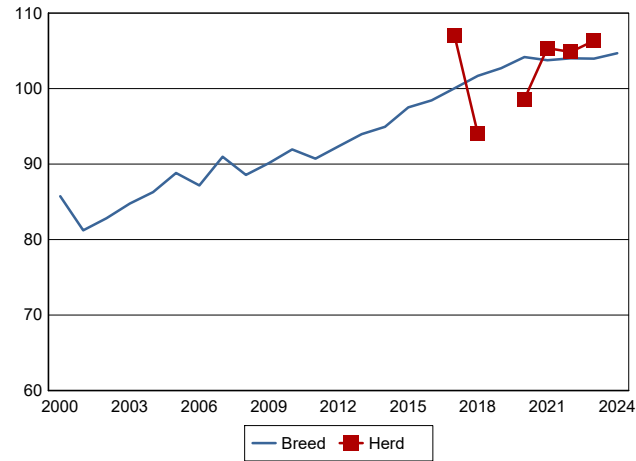
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	14	49007	6	25141	8	23857	10	3371	12	6287
Average Inbreeding	7.11	8.49	9.36	8.46	5.42	8.53	7.72	8.01	7.69	8.00
Number inbred	14	48727	6	24990	8	23728	10	24990	12	23728
Number >6.25% Inbr.	4	30600	4	15537		15058	5	15537	4	15058

Genetic Trends

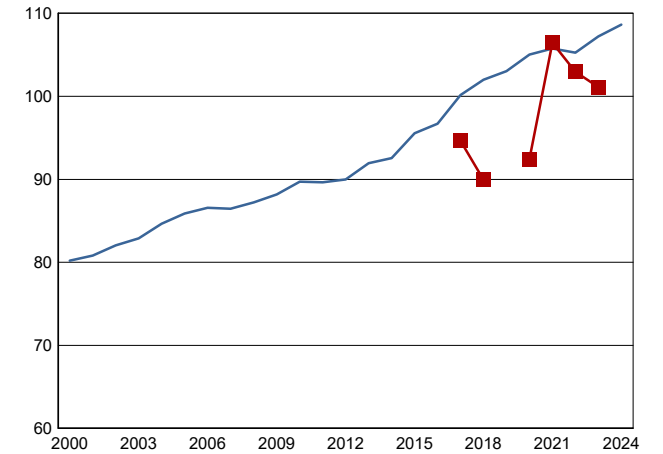
Litter Size



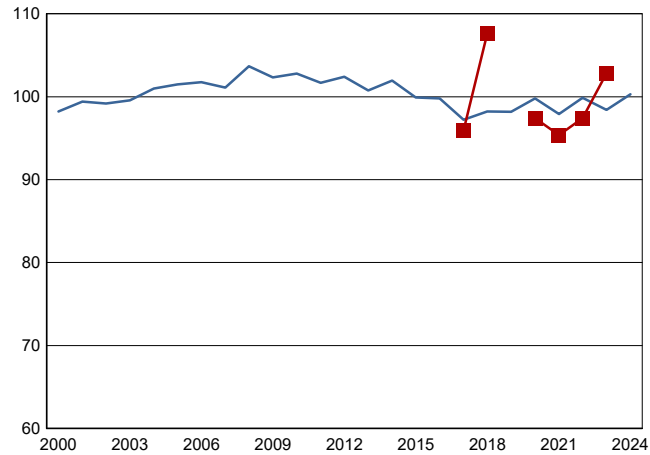
Movement



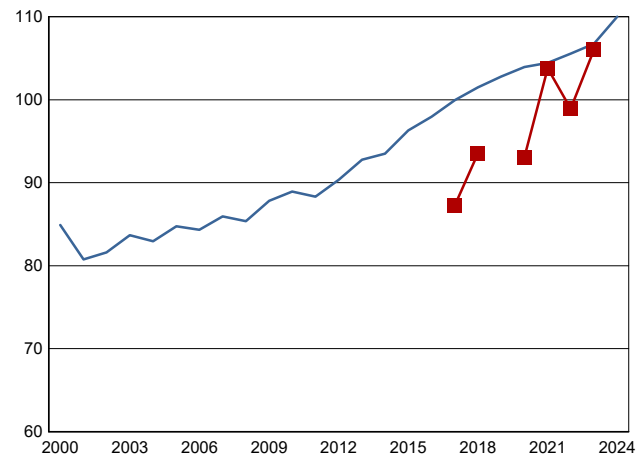
Temperament



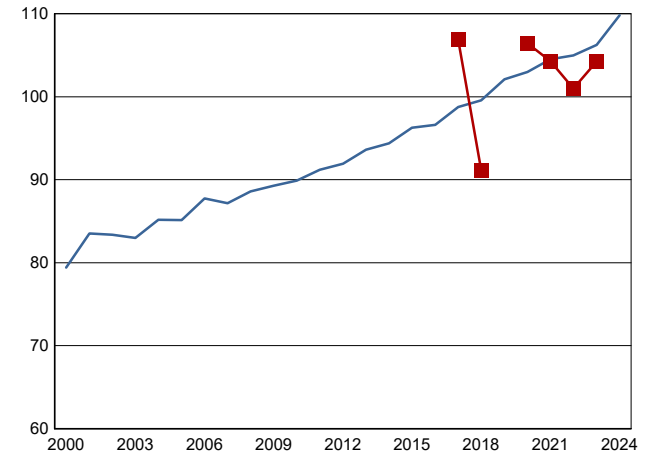
Coat



General Appearance

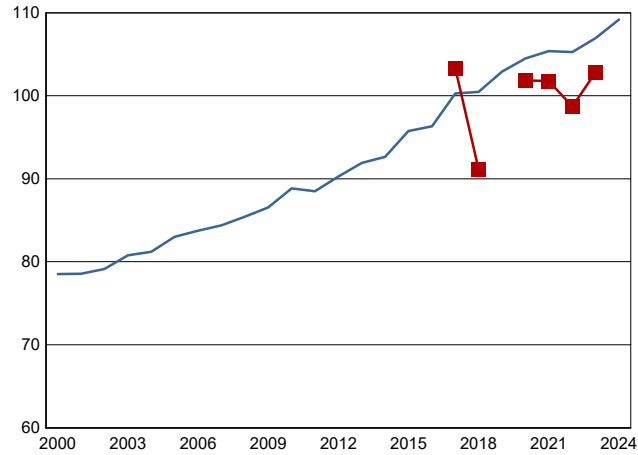


Head & Face

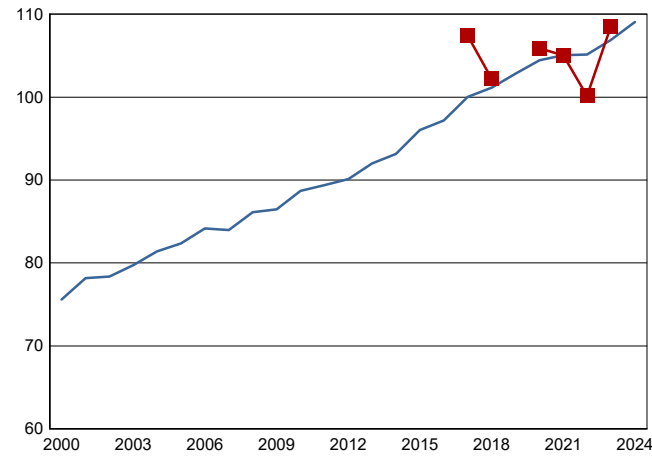


Genetic Trends

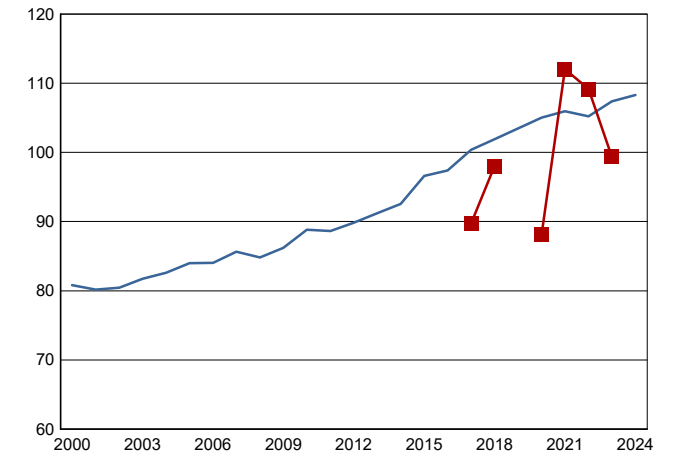
Front Quarter



Centre

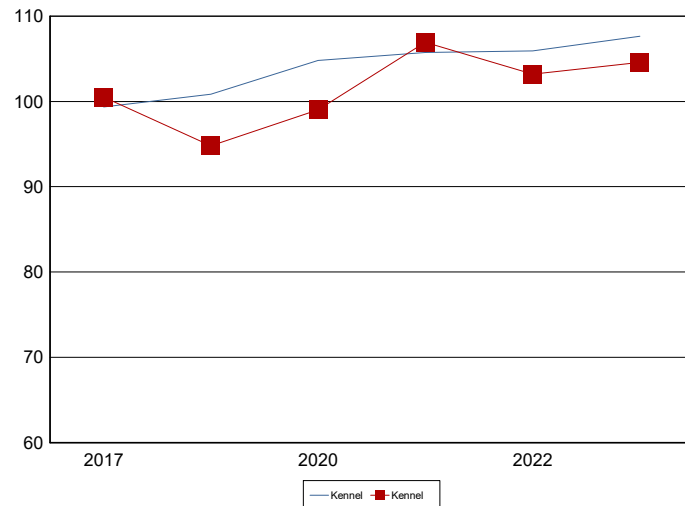


Hind Quarter

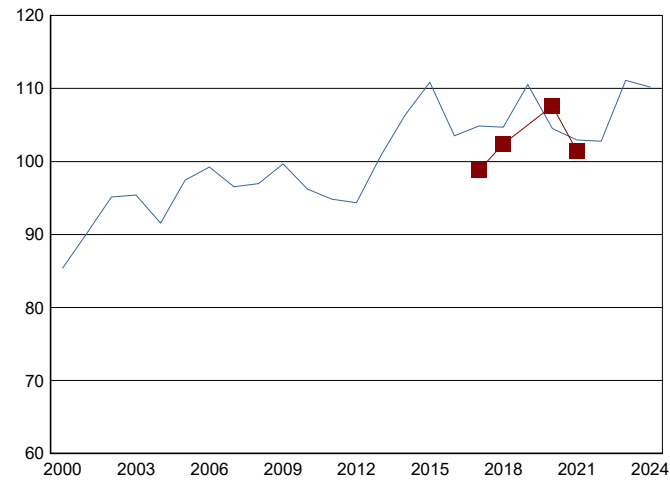


Final Score & Health Traits

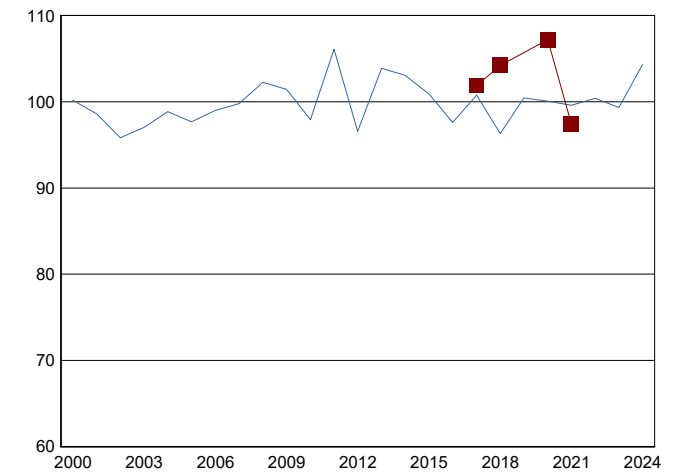
Final Score



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			
HOMIKA BOOSTER	BOSTU ZAZU	8.15	94	89	67	106	119	59	110	106	98	98	125	107	56	6	11	1	1	3
	2020 TESSAK MAGGIE		13	30	33	56	33	70	55	69	56	58	61	65			10			1
HERBERG TITAN	MAKULU LAANIE ROEPER	4.64	109	83	102	110	102	117	91	106	101	98	111	108	12	4	4	1	1	1
	2020 ANTEROS NINA		5	5	20	44	21	56	44	55	45	47	48	52			3			1
GROOTE HEIDE OLLIVER	DELATRO X' WINSLO	5.65	108	98	95	103	109	95	114	119	117	108	90	109	56	9	1			
	2021 GROOTE HEIDE ESMEE (BELLA)		20	41	10	46	18	64	46	63	47	50	52	58			1			
LANDSCAPE ULTRON	HOMIKA BOOSTER	7.36	102	91	90	103	107	84	107	101	102	102	117	105						
	2023 BOSTU NALA V		5	5	10	30	5	43	29	42	31	33	35	38						
MAT GOLDEN STAR HEIMDAL	CDH ARES	15.17	122	112	86	114	116	108	96	102	115	112	121	114						
	2025 CDH ELA		5	5	5	19	5	37	20	36	21	23	27	32						
MAT GOLDEN STAR NEGAN	CDH ARES	15.17	122	112	86	114	116	108	96	102	115	112	121	114						
	2025 CDH ELA		5	5	5	19	5	37	20	36	21	23	27	32						

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	
ISENLOH JULES	2020	ISENLOH DASH	5.59	113	116	95	105	101	111	103	100	106	109	107	106						
		ANGEL MICHAEL'S SANNA		5	14	11	31	5	43	30	43	32	33	35	39						
ISENLOH JADE	2020	ISENLOH DASH	5.59	114	122	99	103	101	118	103	95	106	112	108	105	33	3	8 8	1	1	2 1
		ANGEL MICHAEL'S SANNA		5	23	16	46	19	65	46	64	47	50	53	59						
LANDSCAPE FANTASTIC	2021	SIBOVELD NIGHT KING	5.38	107	94	135	105	107	102	113	116	107	112	112	114	19	1				
		300 BOERBOEL GERMANY BASHA		5	5	23	34	5	55	33	53	35	38	41	47						
LANDSCAPE LEGENDARY LIZZY	2022	HERBERG TITAN	5.91	104	92	97	117	95	105	81	119	106	102	93	107						
		LANDSCAPE AMERA		5	5	5	39	5	59	38	58	40	43	46	52						
GROOTE HEIDE AVATAR NA'VI	2023	GLADIATOR NHIMU EUCLA RAMBO	5.47	116	98	89	101	106	99	117	118	110	110	101	111	8	1				
		GROOTE HEIDE HELA HOLA		5	5	25	39	5	59	38	58	40	43	46	52						
GROOTE HEIDE BUMBLE BEE	2023	DELATRO X'WINSLO	4.95	106	106	107	105	109	106	110	106	109	110	99	107	8	1				
		GROOTE HEIDE LEKKER DING		5	19	23	43	16	60	43	59	44	46	49	54						
LANDSCAPE VISION	2024	GROOTE HEIDE OLLIVER	5.36	111	110	97	103	105	106	108	107	111	110	99	107						
		ISENLOH JADE		5	13	5	25	5	40	24	39	26	28	30	35						
LANDSCAPE ZURI	2025	HOMIKA BOOSTER	5.10	100	97	87	106	114	83	110	106	104	104	112	107						
		GROOTE HEIDE BUMBLE BEE		5	5	9	30	5	43	29	42	30	32	34	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
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		
DELATRO X`WINSLO		DELATRO KARDO	5.76	108	109	82	130	114	108	119	113	110	118	113	119	101 6	35 26	7 7		20 7		
	2015	MIDDELPOS BBD KALAHARI		5	24	45	71	47	83	71	82	72	73	75	79							
MAKULU LAANIE ROEPER		MAKULU LAANIE DIMO	5.51	107	102	78	90	91	104	99	112	97	99	97	102	91 14	26 21	1 1		17 3		
	2015	BREKER PATRYS		5	5	42	70	44	82	69	82	71	73	75	79							
BOSTU ZAZU		MES ASKAM	7.38	76	91	37	101	116	83	121	121	105	112	110	114	175 29	52 36	10 11		29 5		
	2016	MES SHAKIRA		47	62	64	80	61	89	80	89	81	82	84	87							
ISENLOH DASH		MIDDELPOS BBD ALPHA	5.36	118	119	97	91	109	109	110	113	118	117	113	115	18 2	1 1	2 2		3 1		
	2016	RAINBOWGLADE SAPHIR		33	45	36	53	37	66	53	66	54	56	58	62							
SIBOVELD NIGHT KING		QUOVADIS PARTNER IN CRIME	13.77	125	92	120	116	123	91	123	119	117	119	118	121	19 3	6 6	1		2 2		
	2019	MEGAZONE CLOE		5	20	16	41	12	55	41	54	42	44	46	50							
HOMIKA BOOSTER		BOSTU ZAZU	8.15	94	89	67	106	119	59	110	106	98	98	125	107	56 6	11 10	1 1		3 1		
	2020	TESSAK MAGGIE		13	30	33	56	33	70	55	69	56	58	61	65							
HERBERG TITAN		MAKULU LAANIE ROEPER	4.64	109	83	102	110	102	117	91	106	101	98	111	108	12 4	4 3	1 1		1 1		
	2020	ANTEROS NINA		5	5	20	44	21	56	44	55	45	47	48	52							
GROOTE HEIDE OLLIVER		DELATRO X`WINSLO	5.65	108	98	95	103	109	95	114	119	117	108	90	109	56 9	1 1					
	2021	GROOTE HEIDE ESMEE (BELLA)		20	41	10	46	18	64	46	63	47	50	52	58							
GLADIATOR NHIMU EUCLA RAMBO		AFRIKA RAMBOMAX	9.14	117	96	95	110	117	99	142	144	123	135	114	134	129 17	13 10	3 3		2 2		
	2021	DELATRO GALA		5	23	32	56	31	71	55	70	56	59	61	66							
CDH ARES		CDH TROMPIE	11.88	124	113	95	121	115	106	88	100	111	107	123	112	7						
	2023	MIGHTY PRINCESS LEILA		5	32	9	43	8	61	44	60	44	47	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	
300 BOERBOEL GERMANY BASHA	2015	AKIRA HANSEATIC KLAUS LEONIDAS	9.53	89	96	126	91	86	115	93	96	89	94	99	95	31	4	5	2	2	4
		ISENLOH AWENITA		5	19	38	18	5	39	17	38	20	23	26	33			4			1
ANGEL MICHAEL`S SANNA	2017	STASJA CORNELIUS	6.08	108	114	93	119	92	113	96	87	95	100	101	97	18	2	3	2	2	3
		DELMA MIKA		5	5	19	46	14	65	46	64	47	50	53	59			3			1
LANDSCAPE AMERA	2017	PANCER MANDOLINO	4.15	99	102	91	110	94	90	83	119	110	113	86	105	9	2	2			
		BEUKER`S DOPHOU		5	12	20	38	5	59	38	58	40	42	46	52			2			
GROOTE HEIDE ESMEE (BELLA)	2018	IMMERMOED MOON BOOTS	5.02	108	79	108	86	95	94	94	95	101	92	80	89	4		4	2	2	2
		IMMERMOED GROOTE HEIDE JOFEL		21	41	5	26	5	44	25	43	27	29	32	38			4			1
TESSAK MAGGIE	2018	MES RUBENSTEIN	5.36	108	75	110	109	110	89	98	103	102	92	123	106	26	3	7			4
		TESSAK RUBY		18	27	39	54	35	66	53	65	54	56	58	62			5			1
ANTEROS NINA	2018	MES RUBENSTEIN	5.96	114	75	127	127	120	118	94	101	112	105	123	115	4	1				1
		DEO-HAN XENA		5	19	35	50	33	58	50	58	51	52	53	56						1
GROOTE HEIDE HELA HOLA	2019	GROOTE HEIDE DOLLE DRIES	10.72	115	100	97	89	86	84	90	85	84	82	81	79	24	3	3			1
		IMMERMOED GROOTE HEIDE JOFEL		5	17	34	32	5	56	31	54	33	37	41	48			3			1
ISENLOH JADE	2020	ISENLOH DASH	5.59	114	122	99	103	101	118	103	95	106	112	108	105	33	3	8	1	1	2
		ANGEL MICHAEL`S SANNA		5	23	16	46	19	65	46	64	47	50	53	59			8			1
GROOTE HEIDE LEKKER DING	2020	IMMERMOED MOON BOOTS	5.75	103	103	137	80	96	97	97	95	103	97	82	90	32	2	3	3	3	1
		IMMER MOED XAZU		5	26	28	24	5	43	23	42	25	28	31	37			3			1
BOSTU NALA V	2020	KLEIN SANDFONTEIN BROC	9.06	110	93	113	100	95	109	103	96	106	106	109	103	19	4				
		TREBLA CUMIN		5	5	32	46	17	61	45	60	47	49	51	56						
GROOTE HEIDE BUMBLE BEE	2023	DELATRO X`WINSLO	4.95	106	106	107	105	109	106	110	106	109	110	99	107	8	1				
		GROOTE HEIDE LEKKER DING		5	19	23	43	16	60	43	59	44	46	49	54						
CDH ELA	2023	CDH WILLIE	20.06	120	112	77	107	117	111	104	105	119	117	119	116	6					
		CDH MONA		5	22	5	42	5	60	42	59	43	46	48	54						

