

Boerboel Genetic Evaluation

SA Stud Book

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MR A. WASIELEWSKI

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POLAND



Kennel Number: 680622



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.

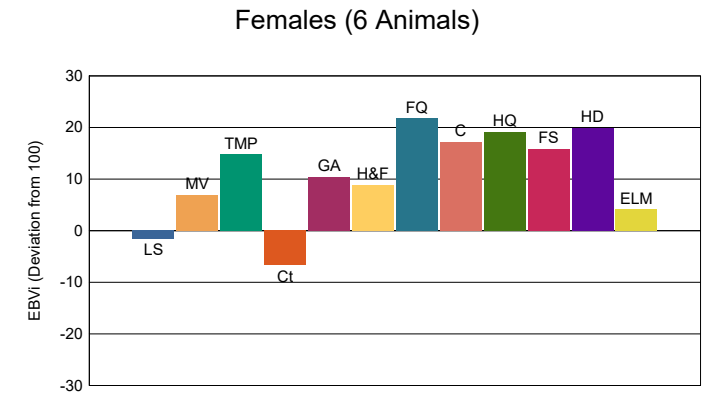
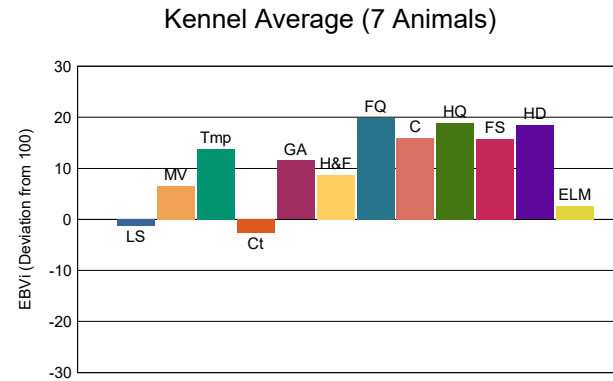
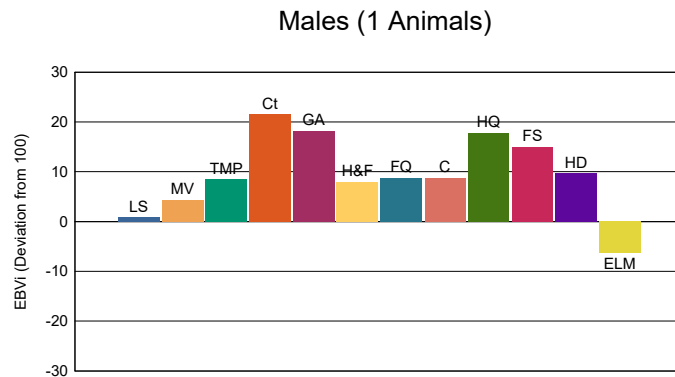
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	99	101	98
Movement (Mv)	107	104	107
Temperament (Tmp)	114	108	115
Coat (Ct)	97	122	93
General Appearance	112	118	110
Head & Face (H&F)	109	108	109
Front Quarter (FQ)	120	109	122
Centre (C)	116	109	117
Hind Quarter (HQ)	119	118	119
Final Score (FS)	116	115	116
Hip Health (HH)	118	110	120
Elbow Health (ELM)	103	94	104

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.

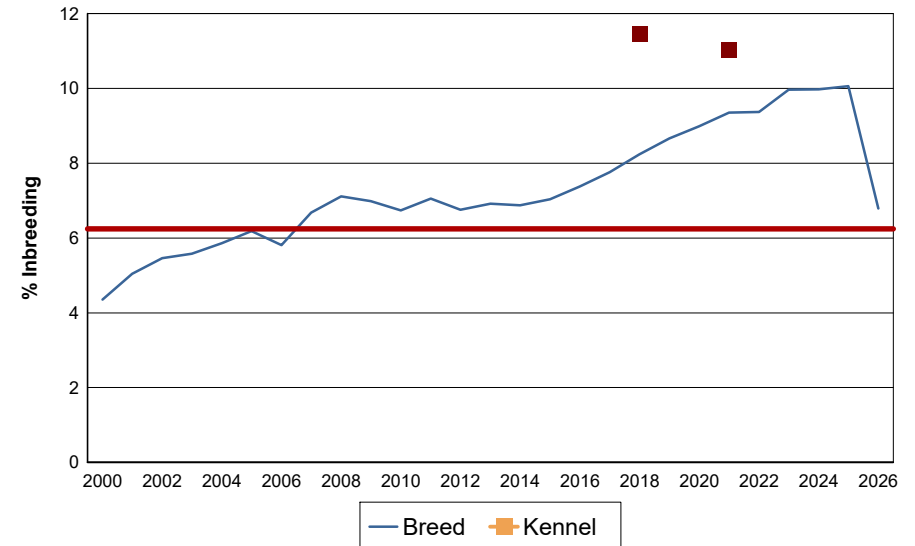
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

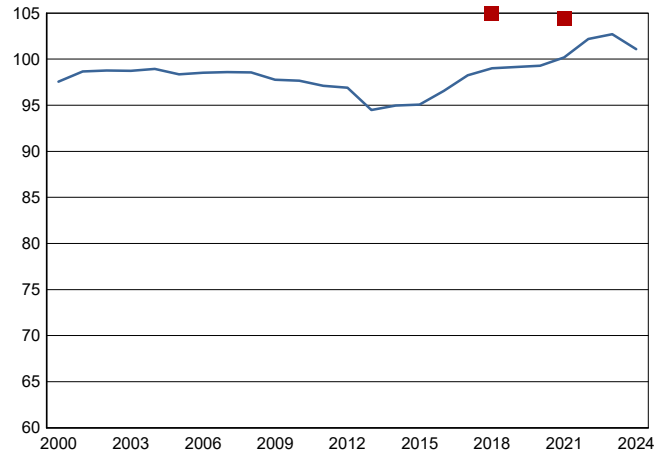


Inbreeding Levels

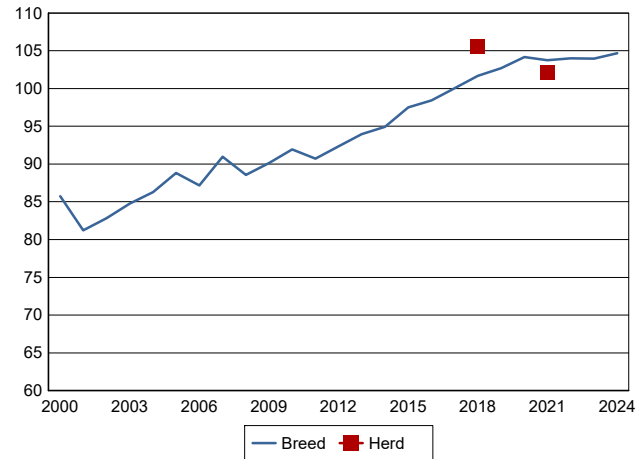
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	7	49007	1	25141	6	23857	5	3371	6	6287
Average Inbreeding	11.73	8.49	16.07	8.46	11.01	8.53	9.61	8.01	10.54	8.00
Number inbred	7	48727	1	24990	6	23728	5	24990	6	23728
Number >6.25% Inbr.	7	30600	1	15537	6	15058	3	15537	5	15058

Genetic Trends

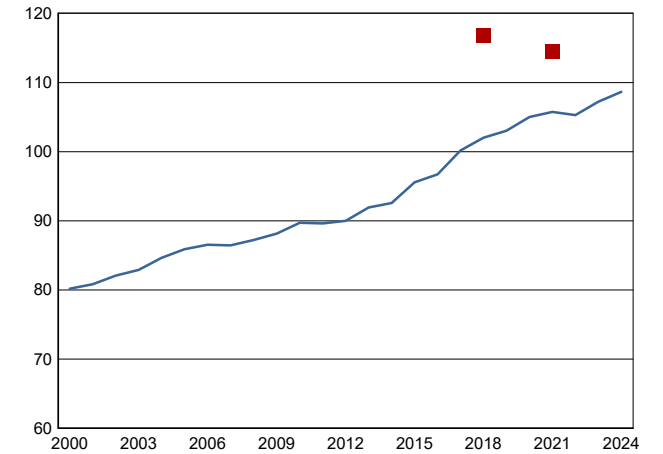
Litter Size



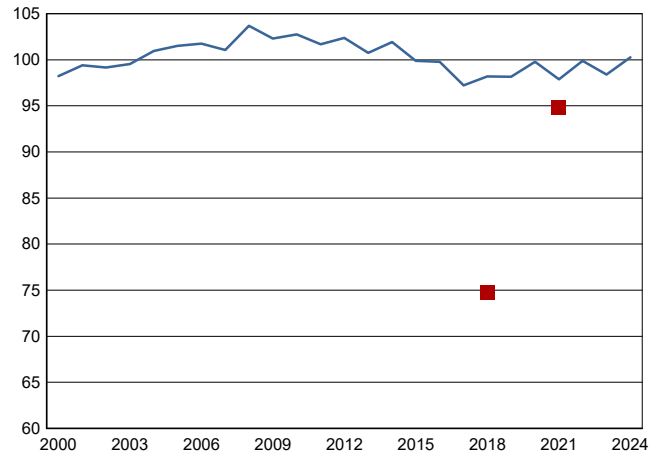
Movement



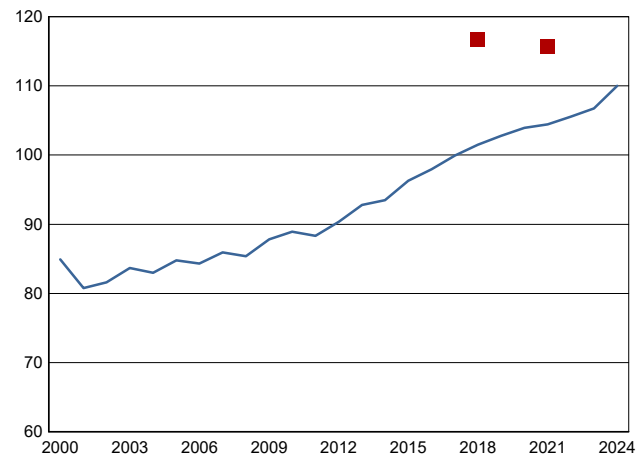
Temperament



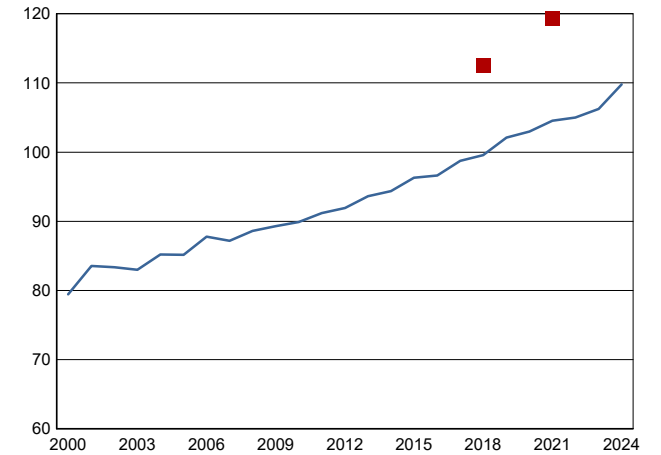
Coat



General Appearance

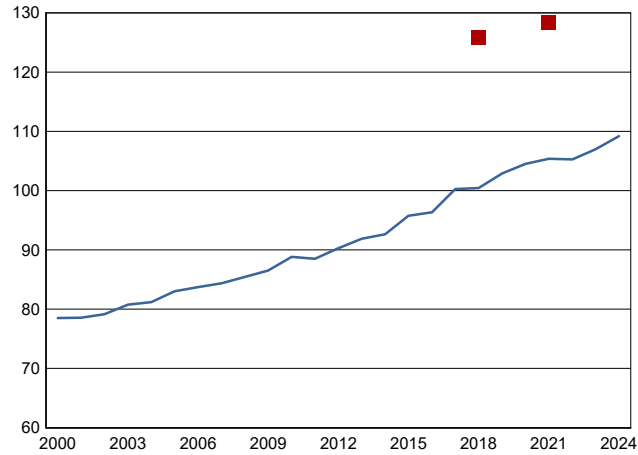


Head & Face

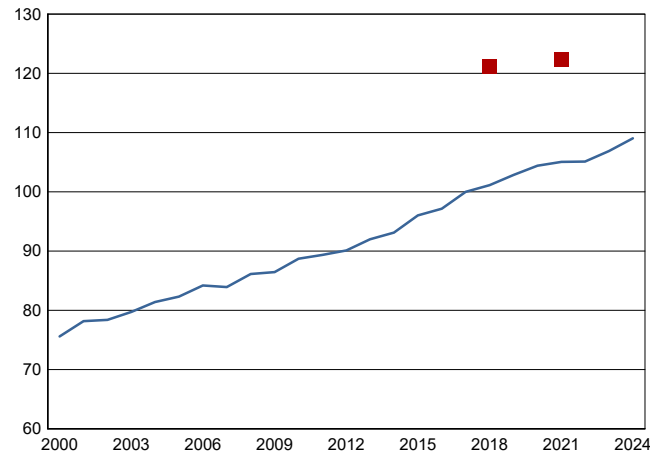


Genetic Trends

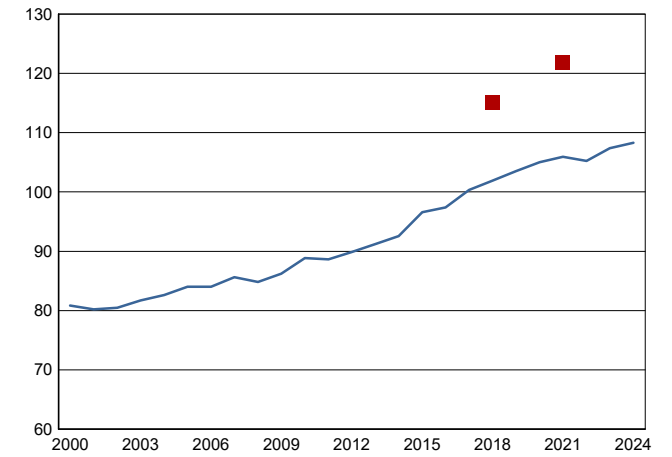
Front Quarter



Centre

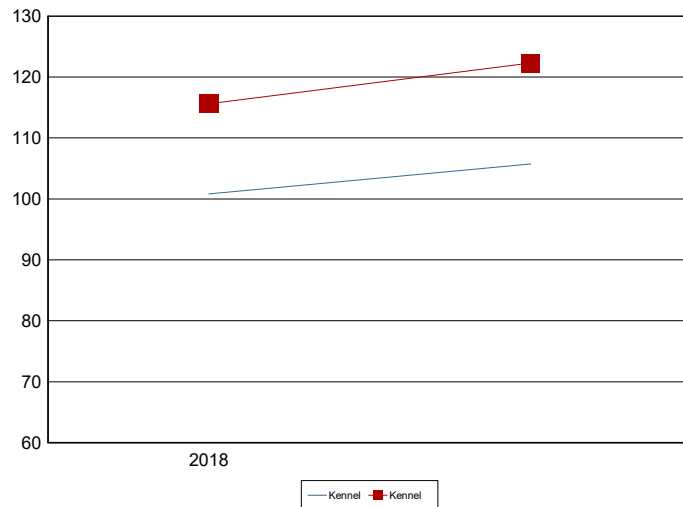


Hind Quarter

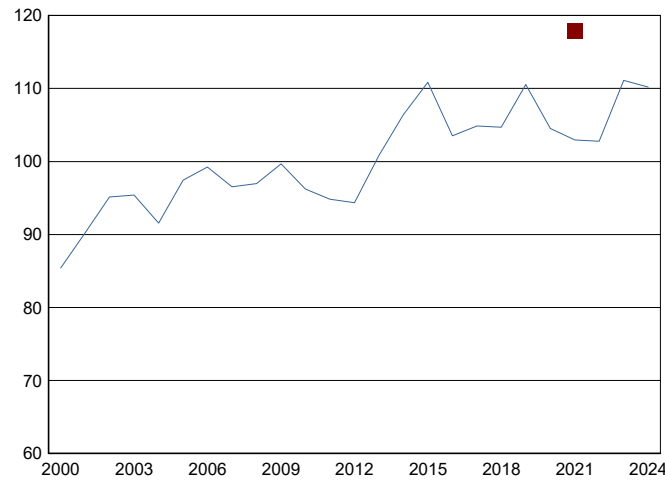


Final Score & Health Traits

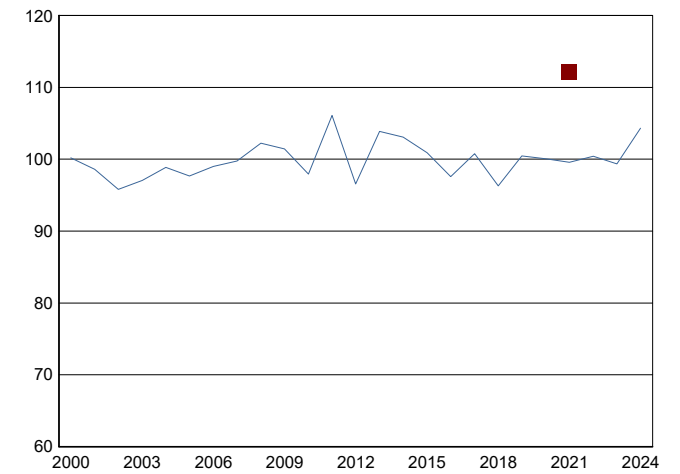
Final Score



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	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Progeny	Hips	Elbows	with
	BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score	Litters	Kennels			litters
KLEIN SANDFONTEIN CORDELL		KLEIN SANDFONTEIN BIG VERC	16.07	110	94	101	104	108	122	118	108	109	109	118	115					
	2023	KLEIN SANDFONTEIN EDELWEISS		5	5	5	43	5	61	41	59	44	47	50	55					

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	Progeny with litters
KLEIN SANDFONTEIN LOLITA	2016	KLEIN SANDFONTEIN HUEY KLEIN SANDFONTEIN ASARA	7.01	116 26	88 34	101 43	101 58	114 40	105 68	112 57	105 67	130 58	120 60	122 61	117 64	7	2	5 4	1	1	1 1
WASHUSAR MISS FRONIA	2018	KLEIN SANDFONTEIN FRANO KLEIN SANDFONTEIN LOLITA	11.45	127 5	102 8	105 9	103 40	118 8	59 56	116 39	112 55	125 41	119 43	112 45	112 50	6	1	1 1			
WASHUSAR MANIA	2021	KLEIN SANDFONTEIN BOLTZ WASHUSAR MISS FRONIA	10.67	124 5	119 5	106 5	104 23	116 5	78 36	118 22	121 35	125 23	122 26	117 28	120 32						
WASHUSAR SIGMA	2021	KLEIN SANDFONTEIN BOLTZ KLEIN SANDFONTEIN LOLITA	11.78	118 5	112 5	104 5	107 37		105 52	116 37	113 51	129 38	123 40	127 42	123 47						
MAT GOLDEN STAR TEYA	2024	CDH ARES KADIMA HERA	9.95	113 5	92 5	89 5	113 25	110 5	105 40	104 25	101 39	107 26	108 28	116 31	110 35						
MAT GOLDEN STAR TONKA	2025	CDH ARES CDH ELA	15.17	122 5	112 5	86 5	114 19	116 5	108 37	96 20	102 36	115 21	112 23	121 27	114 32						

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	
KLEIN SANDFONTEIN HUEY	2014	GROENBERG BBD RAMBO	5.01	105	72	117	119	129	116	124	102	126	117	124	120	162 28	63 55	13 13	47 10
		KLEIN SANDFONTEIN KISSKA		52	64	67	81	64	89	80	88	81	83	84	87				
KLEIN SANDFONTEIN FRANO	2017	MIDDELPOS BBD TANK I	5.93	139	115	109	115	118	76	122	122	124	126	114	121	4 1	2 2		1 1
		KLEIN SANDFONTEIN BIKKIEJoI		30	49	29	48	21	63	47	62	48	50	53	58				
KLEIN SANDFONTEIN BOLTZ	2020	KLEIN SANDFONTEIN NUTCRACKER	14.82	120	137	107	104	114	97	120	130	126	124	121	127	9 2	4 4	1 1	
		KLEIN SANDFONTEIN HAPPI		5	5	25	44	14	56	43	56	44	46	48	52				
KLEIN SANDFONTEIN BIG VERC	2021	KLEIN SANDFONTEIN THE STING	10.40	102	88	92	106	109	99	119	94	104	115	109	106	34 5	10 8		3 3
		KLEIN SANDFONTEIN SADIE		5	5	18	55	24	72	53	71	56	58	61	67				
CDH ARES	2023	CDH TROMPIE	11.88	124	113	95	121	115	106	88	100	111	107	123	112	7			
		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	
KLEIN SANDFONTEIN ASARA	2012	KLEIN SANDFONTEIN BENJI	3.28	126	103	85	91	99	90	109	112	130	121	112	113	32	5	14	4	4	12
		BELBUSK WOHNDIR		50	46	66	68	50	78	68	77	69	70	72	75			14			1
KLEIN SANDFONTEIN LOLITA	2016	KLEIN SANDFONTEIN HUEY	7.01	116	88	101	101	114	105	112	105	130	120	122	117	7	2	5	1	1	1
		KLEIN SANDFONTEIN ASARA		26	34	43	58	40	68	57	67	58	60	61	64			4			1
WASHUSAR MISS FRONIA	2018	KLEIN SANDFONTEIN FRANO	11.45	127	102	105	103	118	59	116	112	125	119	112	112	6	1	1			
		KLEIN SANDFONTEIN LOLITA		5	8	9	40	8	56	39	55	41	43	45	50			1			
KADIMA HERA	2021	BOSTU QUINN	7.56	101	70	84	105	106	104	121	102	103	109	108	107	8	1				
		KADIMA NOVESKE		5	13	29	48	20	65	47	64	49	51	54	59						
KLEIN SANDFONTEIN EDELWEISS	2021	MES RETIEF	13.87	117	100	110	109	113	128	109	120	118	107	133	125	13	2	4			1
		KLEIN SANDFONTEIN BLIZZARD		5	5	43	55	30	71	53	70	56	58	61	66			3			1
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						

