

Boerboel Genetic Evaluation

SA Stud Book

Augustus 2025

MISS Z. ERASMUS

P.O. BOX 430
RANT EN DAL
KRUGERSDORP
1739



Kennel Number: 677579



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.

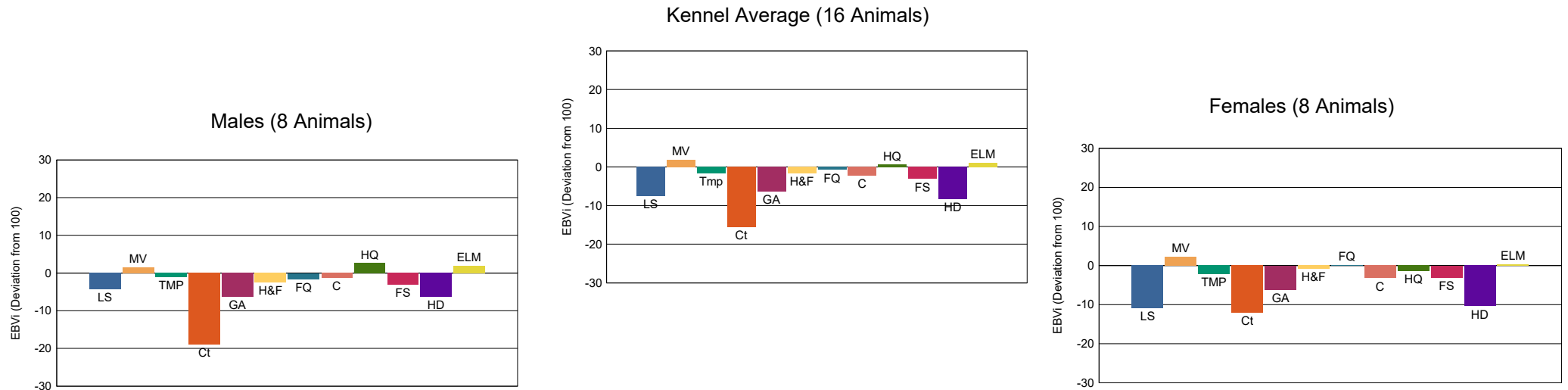
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	92	96	89
Movement (Mv)	102	102	102
Temperament (Tmp)	98	99	98
Coat (Ct)	84	81	88
General Appearance	94	94	94
Head & Face (H&F)	98	98	99
Front Quarter (FQ)	99	98	100
Centre (C)	98	99	97
Hind Quarter (HQ)	101	103	99
Final Score (FS)	97	97	97
Hip Health (HH)	92	94	90
Elbow Health (ELM)	101	102	100

Inbreeding

Notes

Inbreeding primarily leads to decreased fertility, low survivability of pups and low disease resistance.

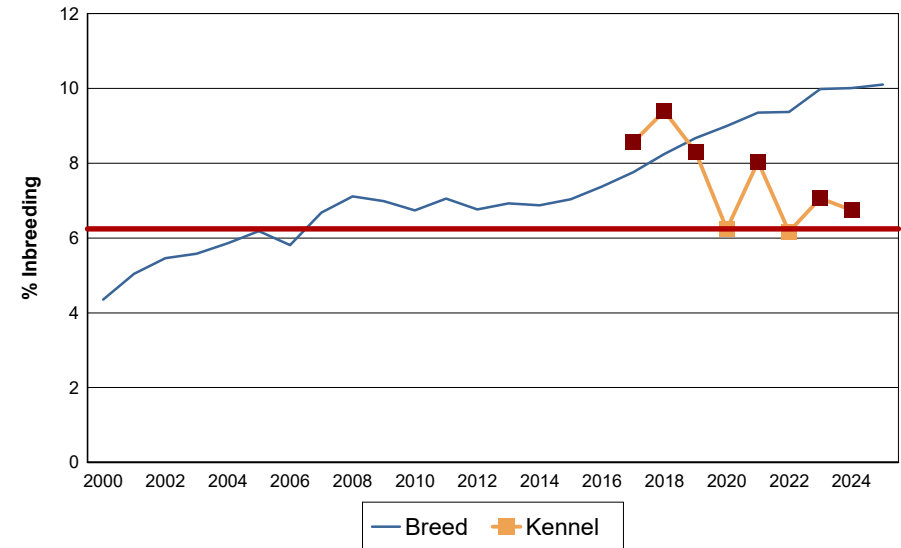
Inbreeding coefficients are calculated for all animals of the breed and indicates the probability that two genes of a pair are the same due to a common ancestor in the pedigree of the animal.

The adverse effects of inbreeding can be observed from 6.25% onwards.

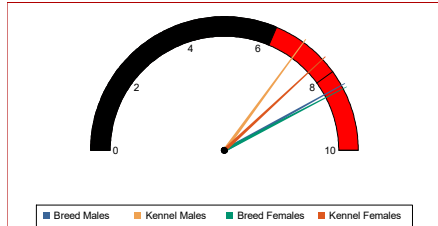
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

Rate of Inbreeding



Inbreeding Indicator

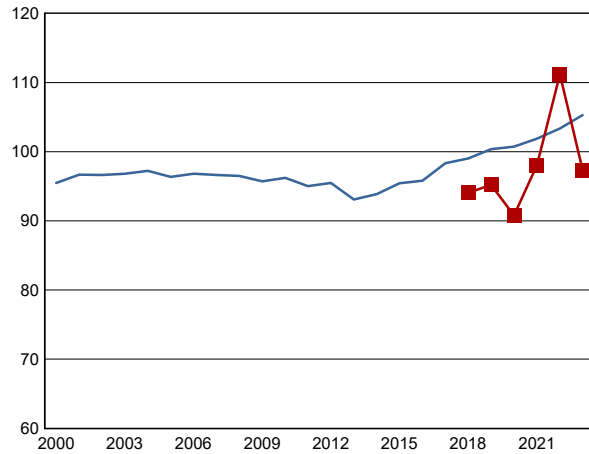


Inbreeding Levels

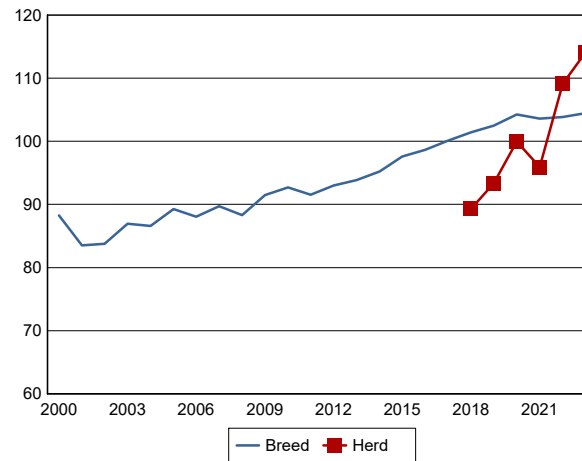
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	16	47352	8	24262	8	23081	8	3250	9	6056
Average Inbreeding	7.32	8.43	7.01	8.39	7.62	8.47	6.33	7.93	6.45	7.94
Number inbred	16	47082	8	24113	8	22960	8	24113	9	22960
Number >6.25% Inbr.	10	29018	5	14700	5	14313	3	14700	6	14313

Genetic Trends

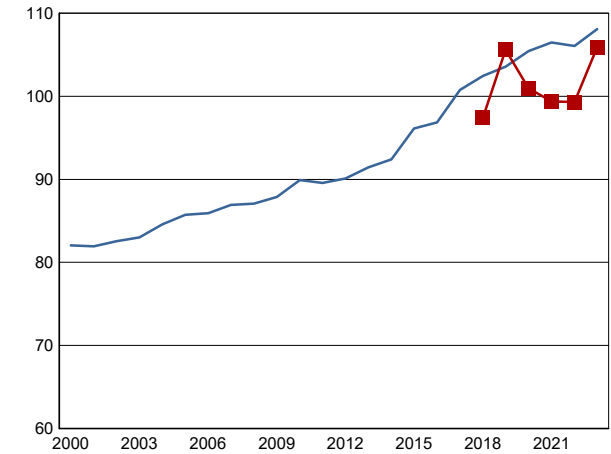
Litter Size



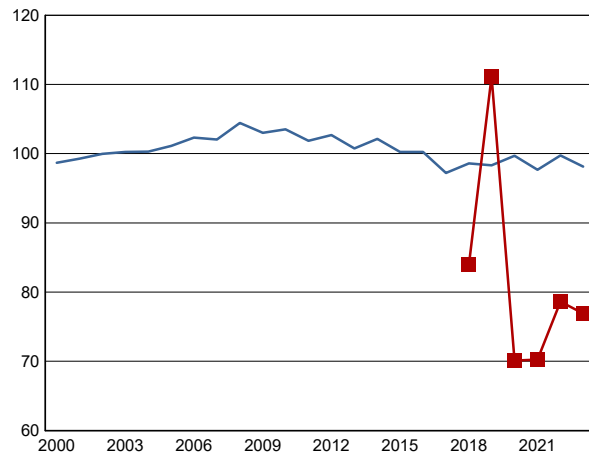
Movement



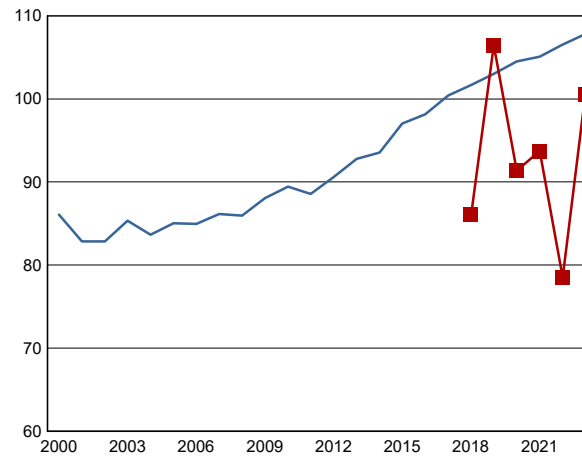
Temperament



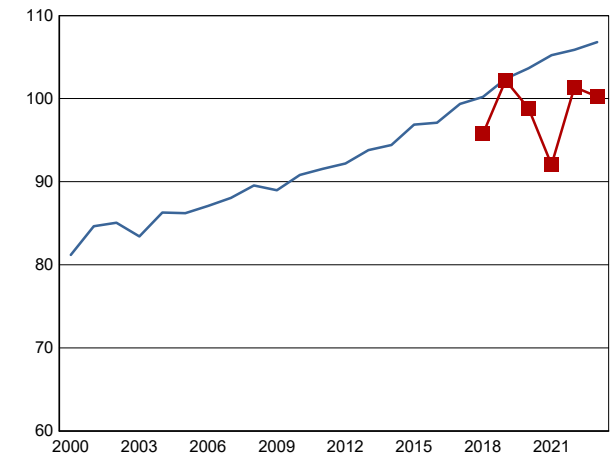
Coat



General Appearance

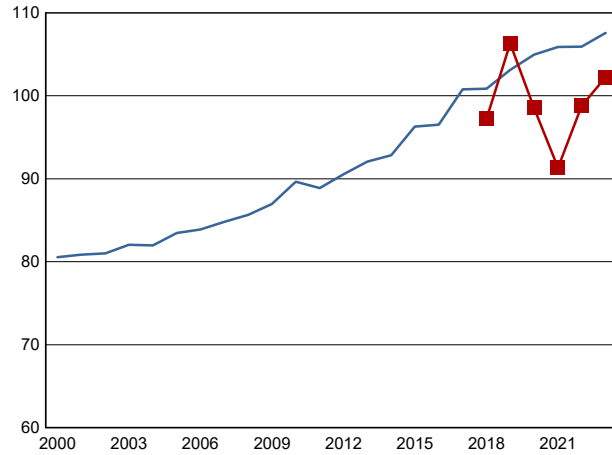


Head & Face

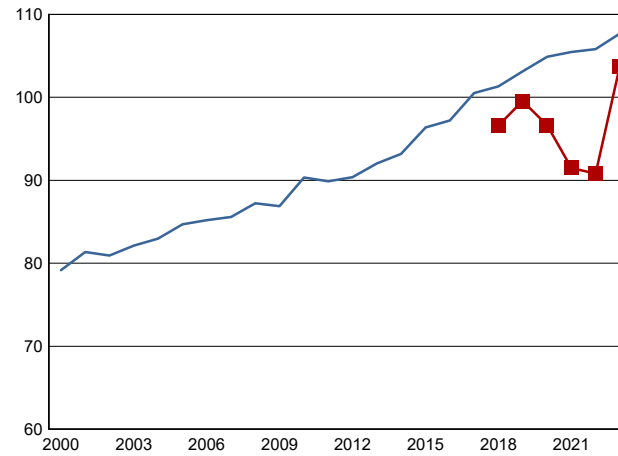


Genetic Trends

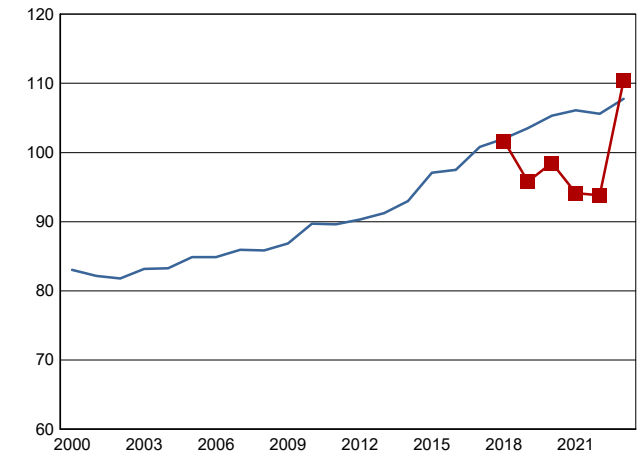
Front Quarter



Centre

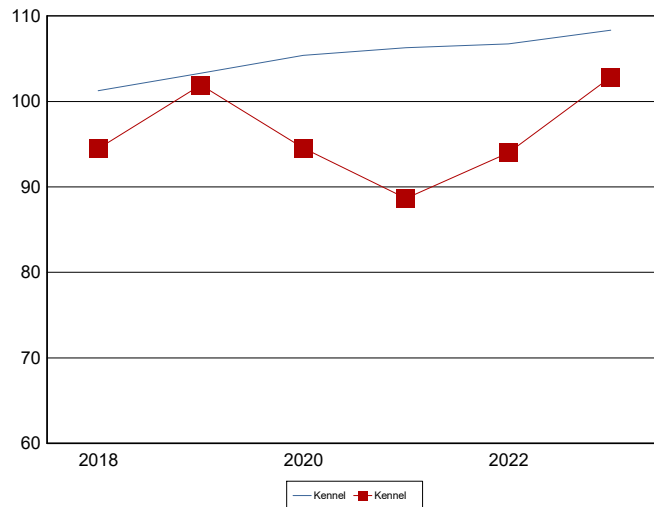


Hind Quarter

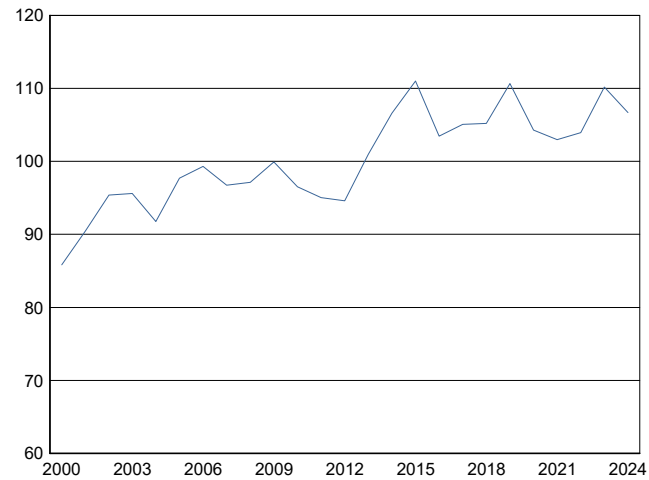


Final Score & Health Traits

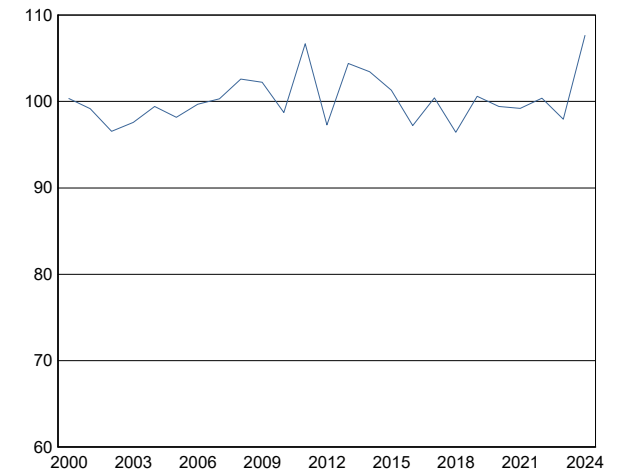
Final Score



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	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	
RALZUCA RAMOS	2020	VOLSPOED BAKKIES1	7.75	87	100	98	108	105	55	91	99	99	98	96	94	5	1				
		JULIA LIRA		5	5	25	48	19	65	48	64	49	51	54	59						
RALZUCA BAKKIES	2023	VOLSPOED BAKKIES1	4.56	103	105	97	108	102	79	99	101	101	103	115	104						
		KADIMA FRANCHINI SPAZ		5	5	27	39	13	51	39	51	40	42	44	47						
RALZUCA ROUKAN	2023	VOLSPOED BAKKIES1	7.75	87	100	98	104	99	64	88	95	94	93	95	90						
		JULIA LIRA		5	5	25	41	13	53	41	53	42	44	46	50						
RALZUCA EXCELLENT CASPER	2024	BRIEL THE GHOST	7.83	93	109	111	102	98	108	101	97	105	112	107	105						
		BRANDVLEI APHRODITE		5	5	6	33	5	47	32	46	33	35	38	42						
RALZUCA BATA	2024	KADIMA STARK	5.24	96	95	89	92	96	80	93	102	99	98	102	97						
		RALZUCA BAVARIA		5	5	5	27	5	42	27	41	28	30	33	37						
RALZUCA STARK	2024	KADIMA STARK	5.24	96	95	89	92	96	80	93	102	99	98	102	97						
		RALZUCA BAVARIA		5	5	5	27	5	42	27	41	28	30	33	37						
RALZUCA OLLI	2024	MIDDELPOS BBD DON	7.21	106	108	97	99	105	87	98	102	101	96	103	100						
		RALZUCA LILLI		5	5	5	25	5	41	24	40	26	28	31	36						
AFERO MR L	2024	JOSMOT MR SIR	10.52	83	105	89	108	90	94	85	83	89	91	101	89						
		RALZUCA LISA		5	5	5	26	5	42	26	41	27	30	32	37						

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	
JULIA LIRA		MES ROUKAN	6.56	78	96	80	102	98	73	89	106	102	95	83	93	31	6	9			5
	2017	ELEVATION LISA		5	19	50	57	30	73	57	72	58	61	63	68			7			1
RALZUCA LILO		HEINEMAN BISMARCK 1	5.20	94	98	81	101	105	94	99	102	105	95	88	97	5	2	1			1
	2020	JULIA LIRA		5	5	39	48	23	65	47	64	49	51	54	59			1			1
RALZUCA BACHINI		VOLSPoED BAKKIES1	4.56	103	105	97	122	109	83	105	104	106	109	123	111						
	2023	KADIMA FRANCHINI SPAZ		5	5	27	48	20	65	47	64	49	51	54	59						
RALZUCA LIL LIRA		VOLSPoED BAKKIES1	7.75	87	100	98	104	99	64	88	95	94	93	95	90						
	2023	JULIA LIRA		5	5	25	41	13	53	41	53	42	44	46	50						
RALZUCA MONA LISA		KADIMA STARK	5.38	92	95	85	94	92	88	90	104	100	96	101	98						
	2023	RALZUCA LISA		5	5	12	28	5	42	28	42	29	31	34	38						
RALZUCA LOLA		SUBIRI KADIMA PROTECTA	13.14	88	102	96	85	90	104	90	99	100	94	105	97						
	2023	KADIMA TAURA		5	5	5	23	5	40	23	39	24	27	30	35						
RALZUCA GHOSTALI		BRIEL THE GHOST	7.83	93	102	88	101	101	104	105	101	107	102	93	100						
	2024	RALZUCA LILO		5	5	12	33	5	47	32	46	33	36	38	43						
AFERO MRS L		JOSMOT MR SIR	10.52	83	105	89	108	90	94	85	83	89	91	101	89						
	2024	RALZUCA LISA		5	5	5	26	5	42	26	41	27	30	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	
MES ROUKAN		MES ASKAM	4.75	98	94	71	107	100	55	84	92	90	99	97	89	45	9	13		10
	2015	MES BELINDA		8	18	47	61	40	73	61	73	62	64	66	69		10			3
HEINEMAN BISMARCK 1		GROENBERG BBD RAMBO	4.55	110	99	90	97	114	104	112	107	115	104	93	105	54	10	12		9
	2017	ROBUST SHILA		28	32	50	56	41	67	56	66	56	58	60	63		11			5
VOLSPOED BAKKIES1		CABARET BALBOA	3.68	95	103	115	106	100	55	87	84	87	92	107	88	64	14	16		9
	2018	HOREB BELLE		5	5	39	65	39	79	64	78	66	68	70	75		10			2
KADIMA STARK		BREKER FANUS	4.18	97	91	80	78	92	98	102	120	111	104	103	108	6	2			
	2019	MEGAZONE ALEJANDRA		5	5	26	50	24	64	50	63	51	53	55	60					
BRIEL THE GHOST		WIESENHOF MENEER	4.99	91	107	95	102	98	114	110	100	108	109	98	104	57	11	15		14
	2020	ALESSANDRO BELLA		5	5	24	59	28	76	59	75	60	63	66	71		7			4
SUBIRI KADIMA PROTECTA		KADIMA VODOO	7.07	96	100	86	84	96	81	85	104	101	98	105	98	11	4	2		1
	2022	SUBIRI DIA		5	5	17	39	5	57	38	56	40	43	45	51		2			1
MIDDELPOS BBD DON		MIDDELPOS BBD XANDER I	8.20	117	115	91	97	111	105	111	119	114	110	114	117	14	6			
	2022	MIDDELPOS BBD MEVROU		5	5	18	47	18	65	46	64	48	50	53	59					
JOSMOT MR SIR		ELDORADO BBD FRANK SINATRA	13.19	78	110		106	87	111	92	79	88	93	103	90	8	3			
	2022	JOSMOT NTOMBI I		5	5		45	5	64	45	63	46	49	52	58					

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	
ELEVATION LISA	2014	KLEIN SANDFONTEIN DODGE	6.83	58	98	88	100	105	94	106	122	120	99	73	102	23	5	13	4	4	10
		ELEVATION SHADOW		44	56	64	65	38	79	65	78	66	68	70	75						
JULIA LIRA	2017	MES ROUKAN	6.56	78	96	80	102	98	73	89	106	102	95	83	93	31	6	9			5
		ELEVATION LISA		5	19	50	57	30	73	57	72	58	61	63	68						
KADIMA FRANCHINI SPAZ	2020	GIANTS OF AFRICA MAXIMUS	3.33	111	107	79	110	104	102	111	118	115	114	123	120	17	3	6			5
		AURELIUS BREKER KALASHNIKOV		5	5	52	60	35	74	59	73	61	63	65	70						
RALZUCA LILO	2020	HEINEMAN BISMARCK 1	5.20	94	98	81	101	105	94	99	102	105	95	88	97	5	2	1			1
		JULIA LIRA		5	5	39	48	23	65	47	64	49	51	54	59						
RALZUCA LISA	2020	VOLSPOED BAKKIES1	7.75	87	100	90	110	93	78	79	88	89	89	100	88	7	4	1			
		JULIA LIRA		5	5	38	49	20	65	48	64	50	52	55	60						
KADIMA TAURA	2020	BREKER FANUS	5.06	80	104	106	85	84	127	94	94	99	90	104	97	4	2				
		KADIMA TAURUS		5	5	36	52	27	67	52	66	53	55	57	62						
RALZUCA LILLI	2021	VOLSPOED BAKKIES1	7.22	95	101	103	101	100	69	86	86	89	83	91	83	6	2				
		RALZUCA LILO		5	5	25	44	14	60	43	59	45	47	49	55						
RALZUCA BAVARIA	2021	VOLSPOED BAKKIES1	8.82	94	99	98	106	101	62	85	83	87	92	101	86	5	1				
		RALZUCA RIVA		5	5	19	46	14	64	45	63	47	49	52	58						
BRANDVLEI APHRODITE	2021	COLOS THE HUNTER ORION	7.26	94	110	127	102	99	102	91	94	103	115	116	105	2	1				
		CDH GIGA		5	5	35	48	21	64	47	63	49	51	53	58						

