

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 713309



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.

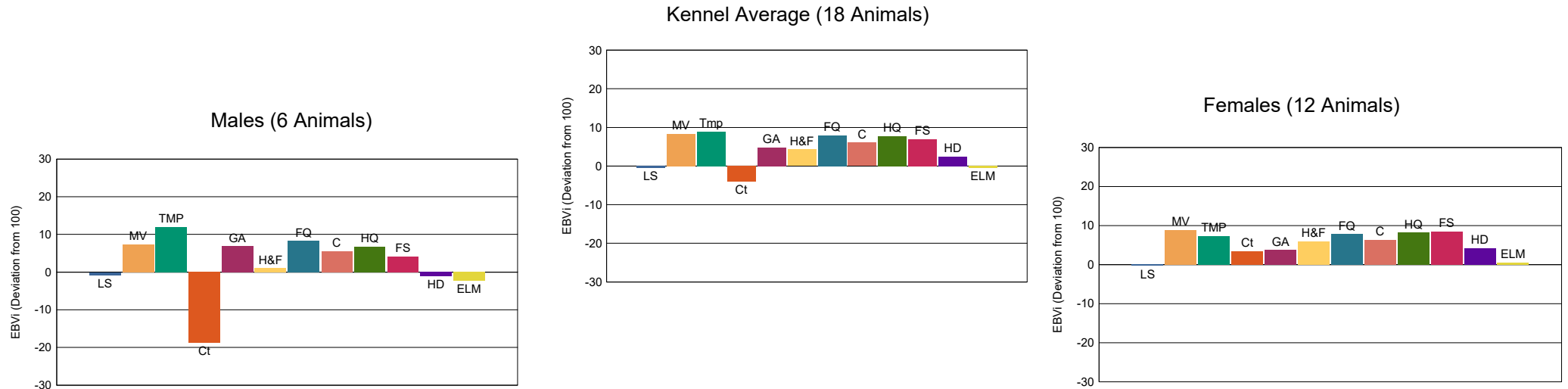
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	100	99	100
Movement (Mv)	108	107	109
Temperament (Tmp)	109	112	107
Coat (Ct)	96	81	103
General Appearance	105	107	104
Head & Face (H&F)	104	101	106
Front Quarter (FQ)	108	108	108
Centre (C)	106	106	106
Hind Quarter (HQ)	108	107	108
Final Score (FS)	107	104	108
Hip Health (HH)	102	99	104
Elbow Health (ELM)	100	98	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.

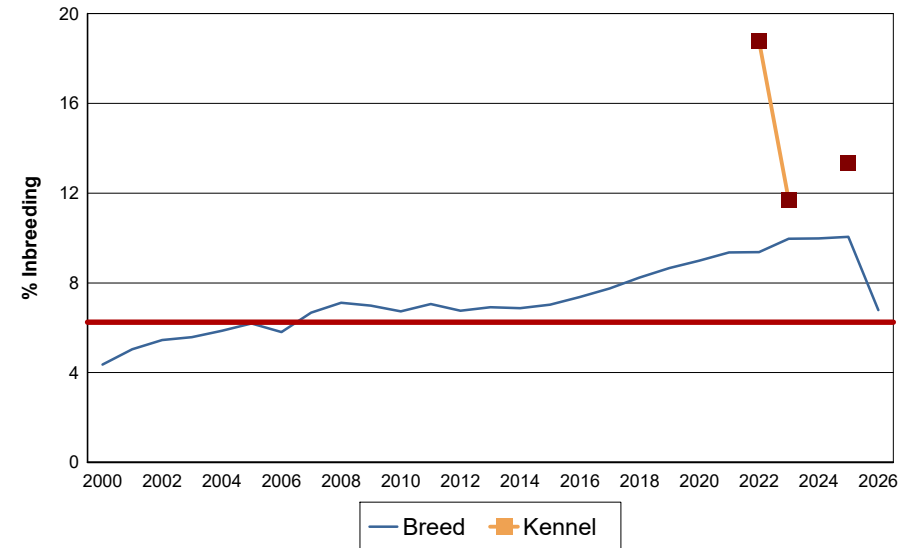
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

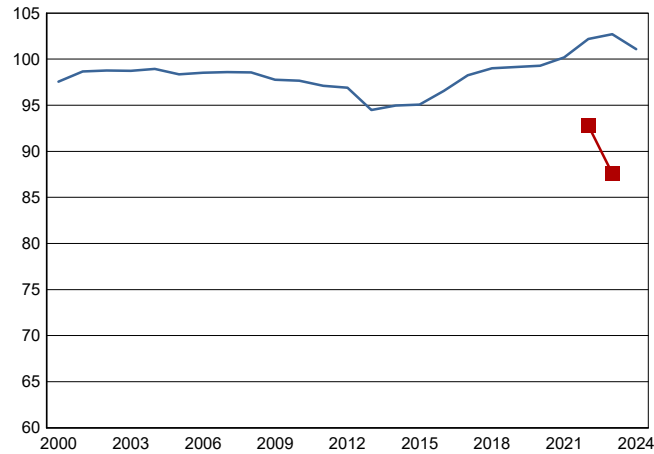


Inbreeding Levels

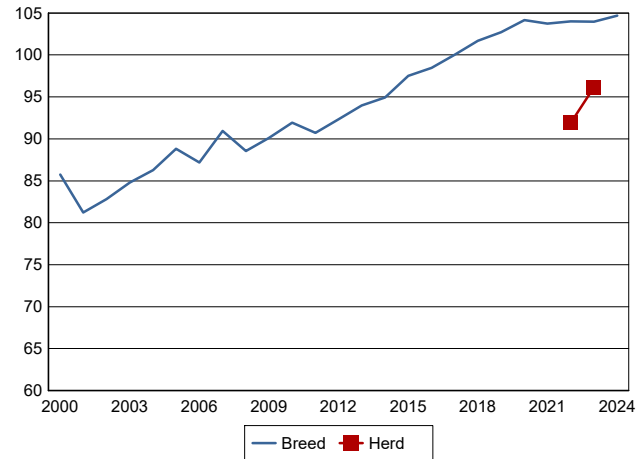
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	18	49007	6	25141	12	23857	10	3371	12	6287
Average Inbreeding	11.03	8.49	11.75	8.46	10.67	8.53	11.76	8.01	8.16	8.00
Number inbred	18	48727	6	24990	12	23728	10	24990	12	23728
Number >6.25% Inbr.	17	30600	5	15537	12	15058	10	15537	7	15058

Genetic Trends

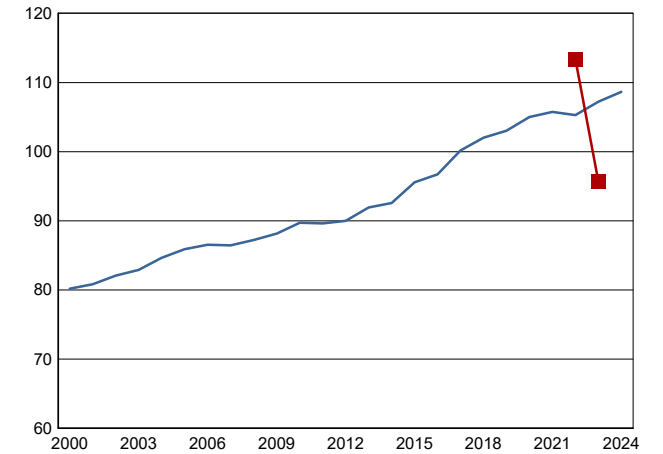
Litter Size



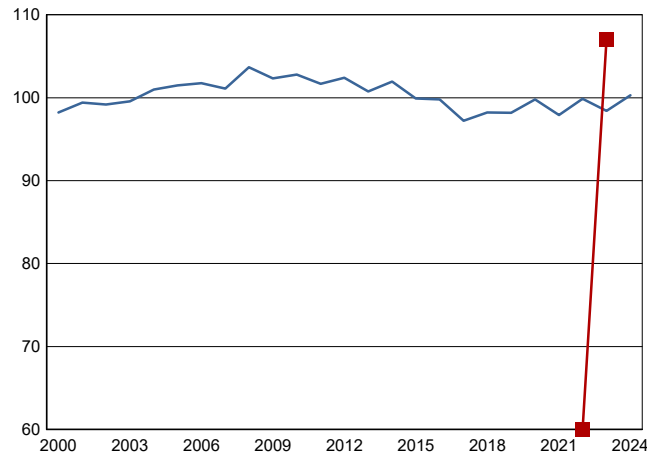
Movement



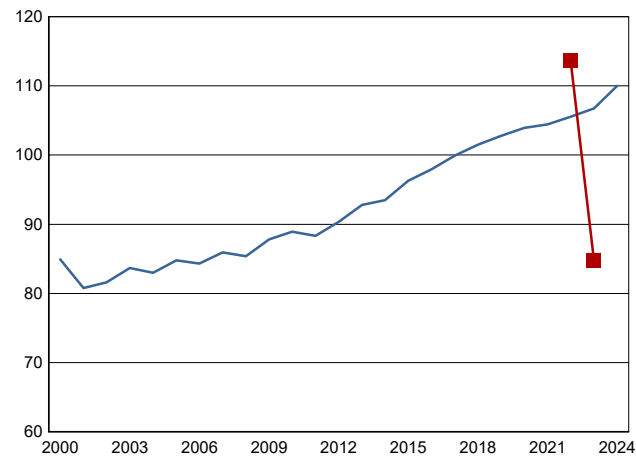
Temperament



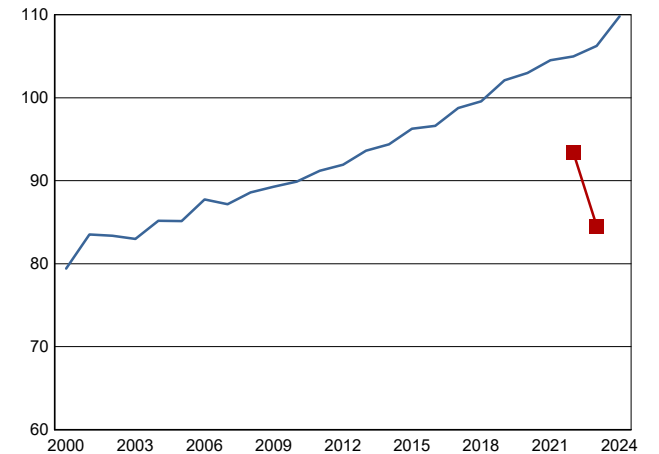
Coat



General Appearance

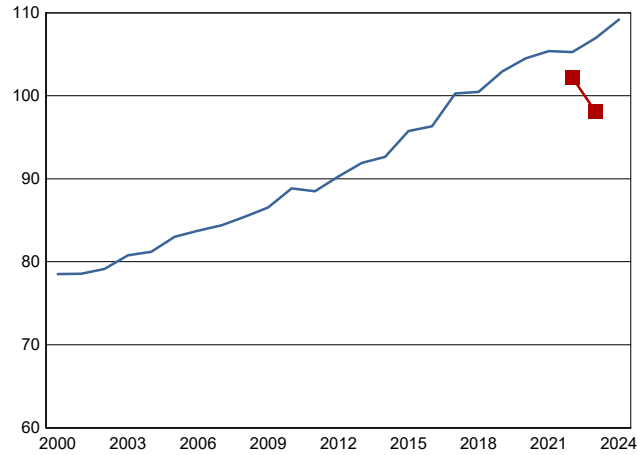


Head & Face

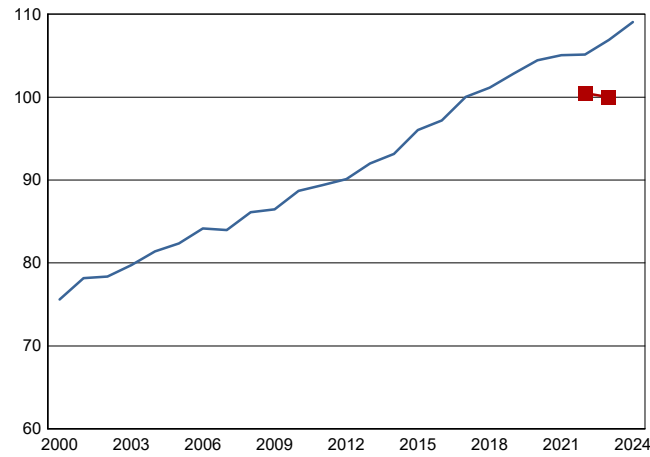


Genetic Trends

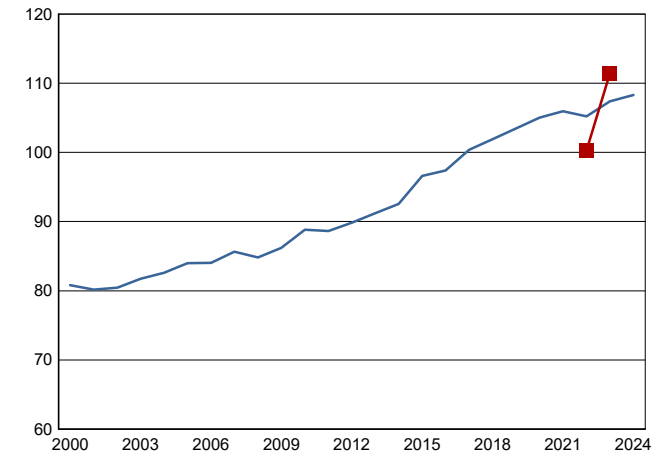
Front Quarter



Centre

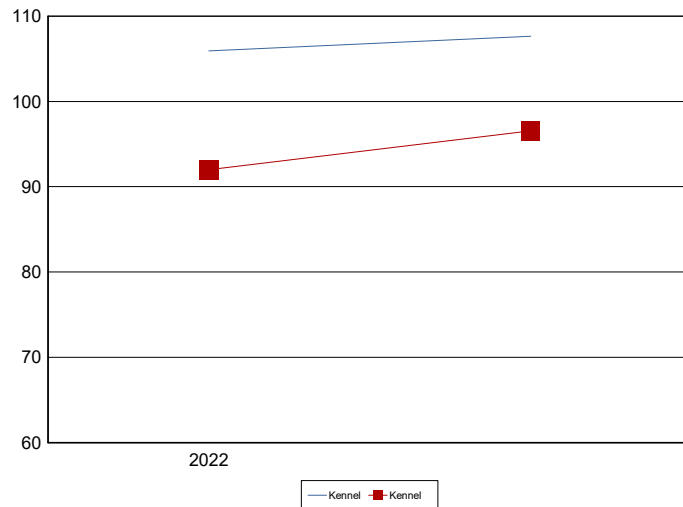


Hind Quarter

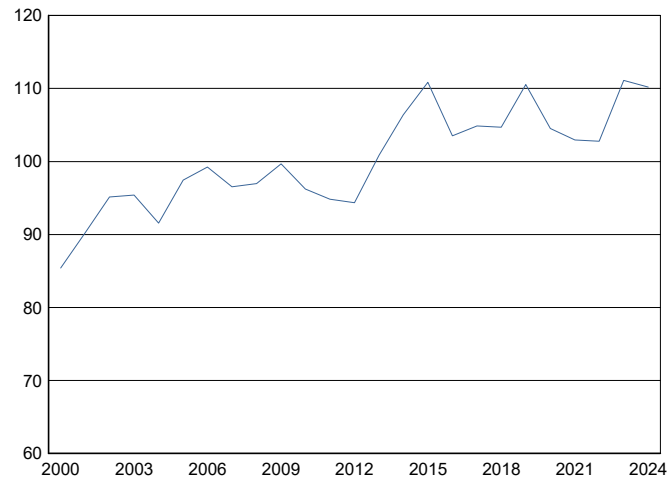


Final Score & Health Traits

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			
IWINOSA OLIVER-TITAN	ZUKANDI OMEGA	3.73	98	95	107	118	109	92	107	113	115	113	106	112	1					
	2021 DEO-HAN UYIGUE		5	5	6	37	6	49	37	48	38	39	41	45						
HOUSE OF TITANS OTEGA MOHICAN	IWINOSA CHYKOMALI	18.78	87	87	93	92	113	35	114	93	102	101	100	92	4					
	2022 ZADER IWINOSA ROZY		5	5	5	21	5	47	20	46	23	27	31	39						
HOUSE OF TITANS MAGNUS	HOUSE OF TITANS OTEGA MOHICAN	7.91	92	102	106	111	120	75	118	107	111	109	106	108						
	2025 ELEVATION MAGGIE II		5	5	5	14	5	32	13	31	15	18	21	27						
HOUSE OF TITANS MAXX	HOUSE OF TITANS OTEGA MOHICAN	7.91	92	102	106	111	120	75	118	107	111	109	106	108						
	2025 ELEVATION MAGGIE II		5	5	5	14	5	32	13	31	15	18	21	27						
HOUSE OF TITANS ALLOS-DIAZ	HOUSE OF TITANS AGRIPPA DIEZEL	16.07	112	100	92	106	105	105	92	92	105	101	112	102						
	2025 MACBE KENNEL GERMAINE DIAZ		5	5	5	5	5	35	5	34	5	12	19	27						
HOUSE OF TITANS ASHER	HOUSE OF TITANS AGRIPPA DIEZEL	16.07	112	100	92	106	105	105	92	92	105	101	112	102						
	2025 MACBE KENNEL GERMAINE DIAZ		5	5	5	5	5	35	5	34	5	12	19	27						

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	
ZADER IWINOSA ROZY	2019	ZUKANDI OMEGA	7.04	79	79	89	103	110	91	106	108	104	96	98	103	2	2	1			1
		ZADER ZOEY		5	5	5	43	12	61	42	59	44	46	49	55			1			1
HONEYWEALTH APELLA-KARDI	2021	MIDDELPOS BBD APOLLO III	6.88	115	113	92	96	97	117	78	95	105	107	110	103	2	1	2			1
		AJIBADE TASHA		5	5	20	42	9	60	41	58	43	45	48	53			2			1
IWINOSA OLIVIA-TITAN	2021	ZUKANDI OMEGA	6.37	83	97	100	117	100	79	105	102	92	105	103	101						
		IWINOSA AEGON 1 ODUWA		5	5	11	41	7	58	40	57	41	44	47	52						
MACBE KENNEL GERMAINE DIAZ	2023	HONEYWEALTH DIAZ GHOST	8.54	112	98	95	119	117	97	100	106	114	104	113	111	8	1				
		HONEYWEALTH GEM		5	5	5	35	5	55	34	54	36	39	42	48						
ELEVATION MAGGIE II	2023	ELEVATION TOLBOS	13.34	97	118	120	131	126	115	123	122	121	117	111	124	4	1				
		ELEVATION MAGGIE		5	21	21	44	17	58	44	57	45	47	49	53						
TBK LADY CLARA	2024	ELEVATION DEXTER	10.81	112	107		115	113	101	120	118	112	114	111	117						
		PAMPOENKRAAL ELEKTRA		5	5		35	5	48	35	47	36	38	40	44						
PYRAMAX THEHILA	2024	BOSTU FUTURE	7.48	103	94	105	97	100	116	113	119	118	109	101	113						
		PYRAMAX ZOE THALIA		5	5	5	23	5	38	21	37	24	26	29	34						
HOUSE OF TITANS ASHLEY	2025	HOUSE OF TITANS AGRIPPA DIEZEL	16.07	112	100	92	106	105	105	92	92	105	101	112	102						
		MACBE KENNEL GERMAINE DIAZ		5	5	5	5	5	35	5	34	5	12	19	27						
HOUSE OF TITANS ALLOS KARDI	2025	HOUSE OF TITANS AGRIPPA DIEZEL	16.07	112	100	92	106	105	105	92	92	105	101	112	102						
		MACBE KENNEL GERMAINE DIAZ		5	5	5	5	5	35	5	34	5	12	19	27						
HOUSE OF TITANS AKIRA	2025	HOUSE OF TITANS AGRIPPA DIEZEL	16.07	112	100	92	106	105	105	92	92	105	101	112	102						
		MACBE KENNEL GERMAINE DIAZ		5	5	5	5	5	35	5	34	5	12	19	27						
AKILAPA AIRA	2025	TBK ADRE	7.40	102	94	98	103	105	105	112	110	99	106	102	107						
		AKILAPA AYRA STARR		5	5	5	20	5	37	18	36	21	24	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- riment	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels		Hips	Elbows	
TBK ELLENA FUTURA		BOSTU FUTURE	12.02	112	108	112	109	105	105		115	114	113	113	116						
	2025	PAMPOENKRAAL ELEKTRA		5	5	5	30	5	43		42	31	33	35	39						

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	
ZUKANDI OMEGA		KLEIN SANDFONTEIN ZUKA	8.09	77	91	98	114	112	62	112	114	112	114	100	108	41	9	9			9
	2016	ZUKANDI MICKA		15	30	31	60	35	75	60	74	61	63	66	70			8			2
MIDDELPOS BBD APOLLO III		MIDDELPOS BBD GAMKA	6.87	126	130	95	99	109	125	93	123	123	117	117	123	97	13	18			9
	2019	DELATRO X' SASKIA		5	17	36	58	36	70	56	69	58	60	62	66			17			3
HONEYWEALTH DIAZ GHOST		GIANTS OF AFRICA SKY	9.64	108	92	87	111	105	92	97	95	103	103	117	104	21	3	4			4
	2019	SKYVISION DAHANA		5	5	9	39	5	53	38	53	39	42	44	49			4			2
BOSTU FUTURE		KLEIN SANDFONTEIN BROC	10.39	106	97	115	102	104	117	111	124	124	114	109	119	56	14	6			
	2020	ELEVATION TALITA		5	29	26	47	23	60	45	59	48	50	52	56			6			
IWINOSA CHYKOMALI		ZUKANDI OMEGA	8.13	96	95	97	106	114	37	110	96	108	113	107	99	6	3	1			
	2021	LANDRE ROYAL CRYSTAL		5	5	18	38	8	51	37	50	39	40	43	47			1			
ELEVATION TOLBOS		ELEVATION DAX	13.57	87	118	111	126	128	111	139	127	123	121	106	126	54	11	14			6
	2021	ELEVATION MICA		30	49	40	62	39	76	63	75	63	65	67	72			11			1
ELEVATION DEXTER		ELEVATION DAX	17.20	105	94	114	114	120	110	127	130	120	117	104	123	16	4	4			2
	2021	ELEVATION MAGGIE		5	28	34	58	35	72	57	71	59	61	63	67			2			1
HOUSE OF TITANS OTEGA MOHICANI		IWINOSA CHYKOMALI	18.78	87	87	93	92	113	35	114	93	102	101	100	92	4					
	2022	ZADER IWINOSA ROZY		5	5	5	21	5	47	20	46	23	27	31	39						
HOUSE OF TITANS AGRIPPA DIEZEL		HONEYWEALTH DIESEL	13.55	112	102	88	93	93	113	84	79	95	98	111	94	8	1				
	2023	HONEYWEALTH APELLA-KARDI		5	5	5	39	5	62	38	61	40	44	47	54						
TBK ADRE		ELEVATION DEXTER	11.33	110	93	102	100	101	123	114	121	101	110	101	114	7	1				
	2023	TBK KAMALA		5	5	5	44	6	63	43	62	45	48	51	56						

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	
ZADER ZOEY	2016	SEBOGA BEN VON HOUT	5.22	81	66	80	107	107	118	93	101	97	90	106	103	7	2	2			3
		KLEIN SANDFONTEIN TESSA I		5	5	23	43	15	61	42	60	44	46	49	55			2			1
DEO-HAN UYIGUE	2019	DEO-HAN BOTHA	14.33	119	99	115	123	107	122	102	113	119	112	112	117	6	1	1			2
		DEO-HAN ZIGGIE		5	5	25	56	28	70	56	69	57	59	61	65			1			1
IWINOSA AEGON 1 ODUWA	2019	IWINOSA ASIWAJU OSAZEE	6.12	90	102	102	111	95	100	96	92	87	97	103	96	12	2	2			1
		LAIKA SASHA		5	5	32	38	9	52	37	51	39	41	43	47			2			1
ELEVATION MAGGIE	2019	MES MAC GYVER	5.65	107	118	129	124	120	102	107	111	113	110	112	115	18	2	9			5
		ELEVATION KATE		37	54	53	62	41	75	62	74	63	65	67	71			8			1
ZADER IWINOSA ROZY	2019	ZUKANDI OMEGA	7.04	79	79	89	103	110	91	106	108	104	96	98	103	2	2	1			1
		ZADER ZOEY		5	5	5	43	12	61	42	59	44	46	49	55			1			1
AJIBADE TASHA	2020	GIANTS OF AFRICA SKY	5.02	104	95	83	98	96	90	85	85	99	98	103	92	5	1	2			1
		ANIA CASPIAN RUKKY		5	5	18	34	5	49	31	48	34	37	39	44			2			1
HONEYWEALTH GEM	2021	TOKARA ALPHA	8.68	116	103	104	119	119	95	101	103	108	97	108	106	14	2	4			1
		MZANSI RUBY		5	5	11	31	5	47	30	46	32	34	37	42			4			1
PAMPOENKRAAL ELEKTRA	2022	MIDDELPOS BBD BRUCE ALMIGHTY	7.44	118	119	108	116	107	92	113	107	103	112	118	112	14	3	2			1
		KLEIN SANDFONTEIN LARA CROFT		5	10	28	53	24	69	52	68	54	56	59	64			1			1
MACBE KENNEL GERMAINE DIAZ	2023	HONEYWEALTH DIAZ GHOST	8.54	112	98	95	119	117	97	100	106	114	104	113	111	8	1				
		HONEYWEALTH GEM		5	5	5	35	5	55	34	54	36	39	42	48						
ELEVATION MAGGIE II	2023	ELEVATION TOLBOS	13.34	97	118	120	131	126	115	123	122	121	117	111	124	4	1				
		ELEVATION MAGGIE		5	21	21	44	17	58	44	57	45	47	49	53						
AKILAPA AYRA STARR	2023	AOB KAZUKI	5.62	95	96	94	105	108	88	109	100	98	101	103	101	7	1				
		AOB NIKITA		5	5	5	32	5	50	29	48	33	36	38	44						
PYRAMAX ZOE THALIA	2023	SKYVISION PARAMAX GAMBIT	10.98	100	91	95	92	97	114	116	114	112	105	93	107	8	2				
		VINTAGE FARM PAERAH		5	5	5	36	5	58	35	56	37	40	44	50						

