

Boerboel Genetic Evaluation

SA Stud Book
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51 ISAAC WAY
OTTERY
CAPE TOWN
7808



Kennel Number: 712979



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.

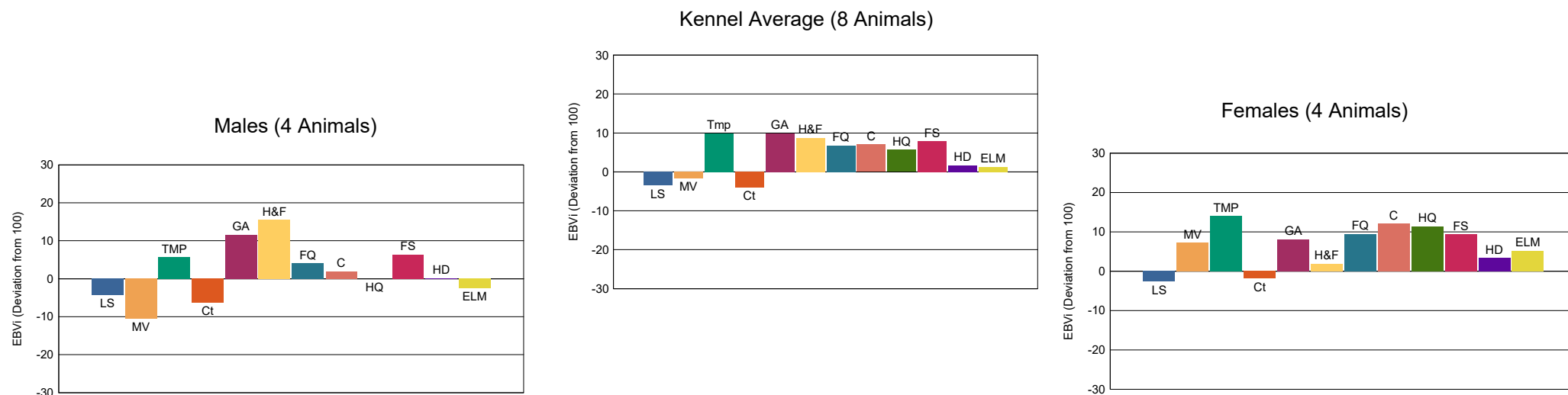
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	97	96	97
Movement (Mv)	98	89	107
Temperament (Tmp)	110	106	114
Coat (Ct)	96	94	98
General Appearance	110	112	108
Head & Face (H&F)	109	116	102
Front Quarter (FQ)	107	104	109
Centre (C)	107	102	112
Hind Quarter (HQ)	106	100	111
Final Score (FS)	108	106	109
Hip Health (HH)	102	100	103
Elbow Health (ELM)	101	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.

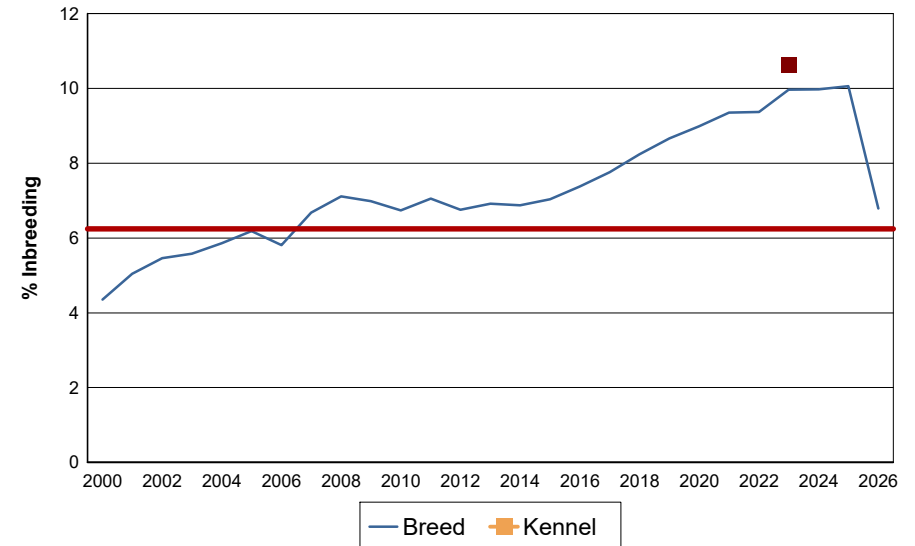
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

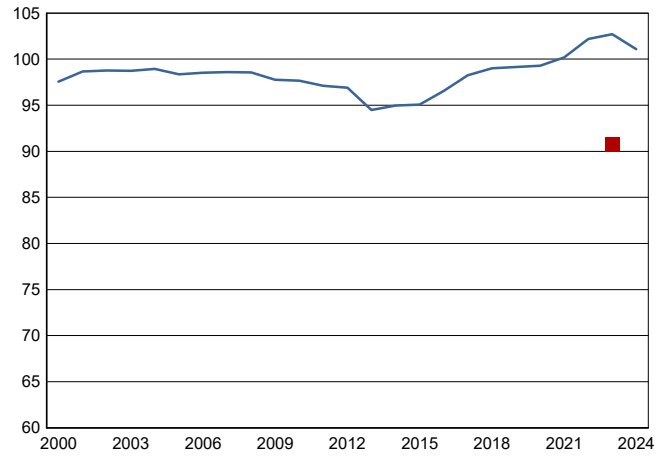


Inbreeding Levels

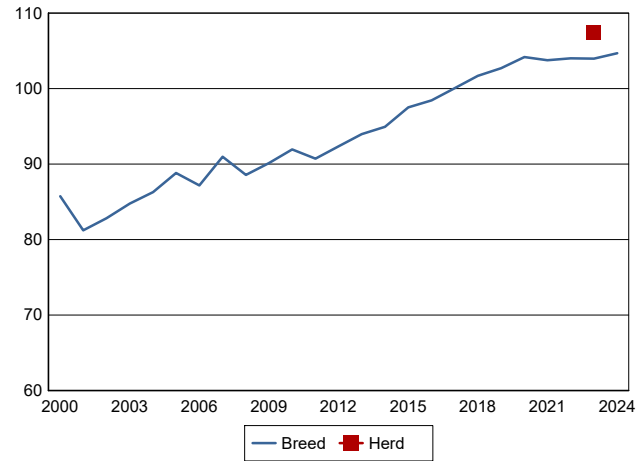
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	8	49007	4	25141	4	23857	8	3371	8	6287
Average Inbreeding	8.72	8.49	7.08	8.46	10.36	8.53	8.09	8.01	8.04	8.00
Number inbred	8	48727	4	24990	4	23728	8	24990	8	23728
Number >6.25% Inbr.	4	30600	1	15537	3	15058	4	15537	6	15058

Genetic Trends

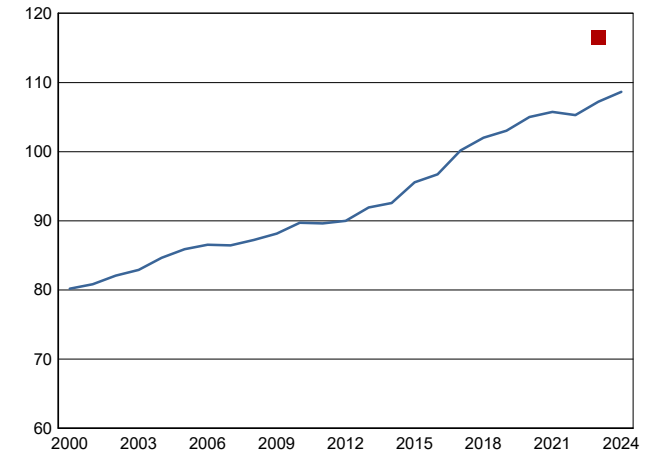
Litter Size



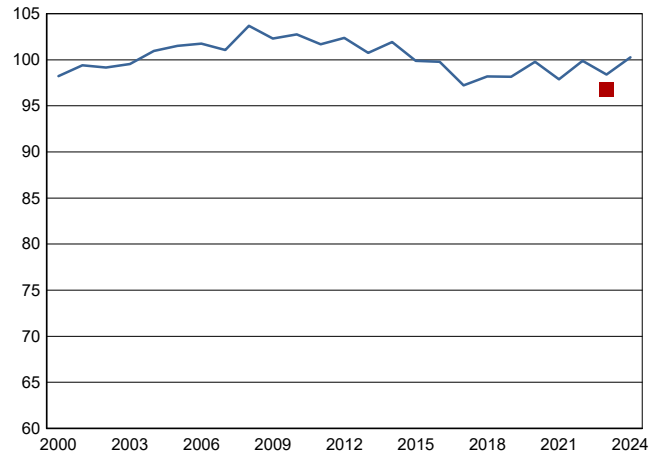
Movement



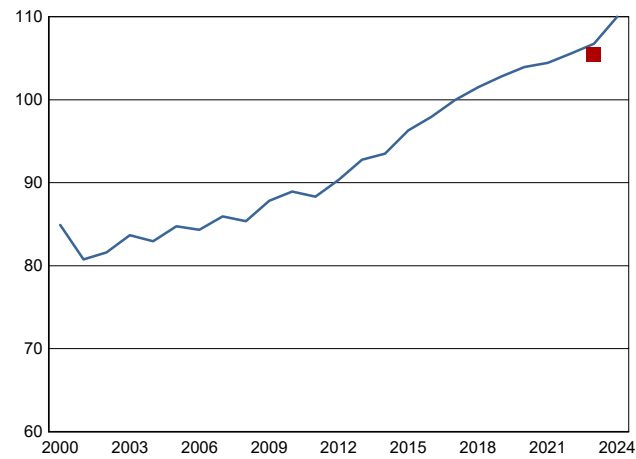
Temperament



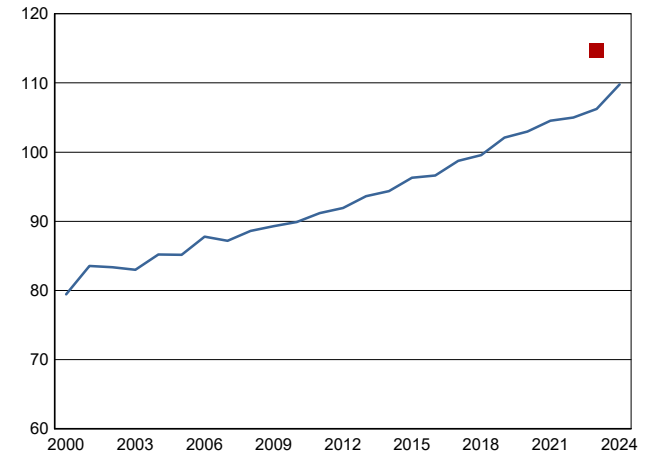
Coat



General Appearance

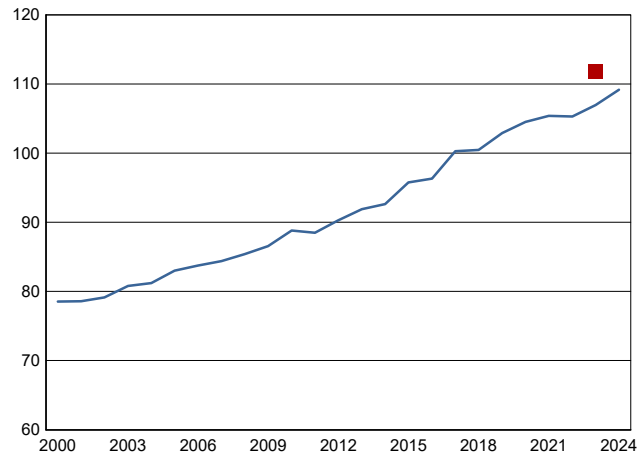


Head & Face

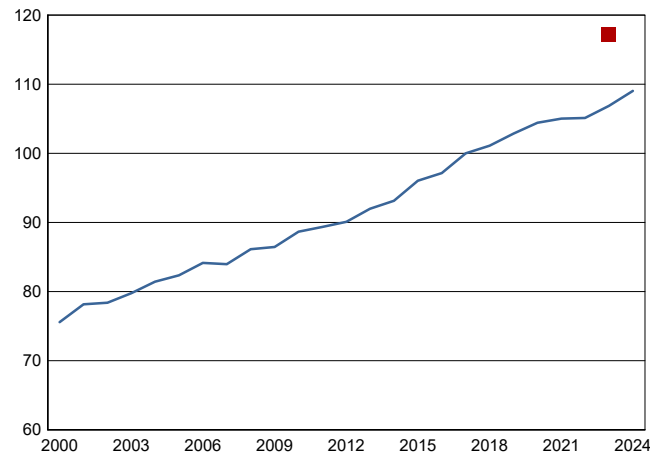


Genetic Trends

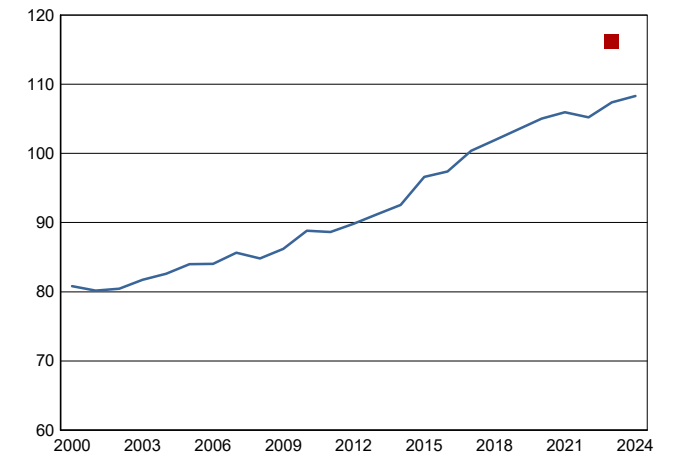
Front Quarter



Centre



Hind Quarter

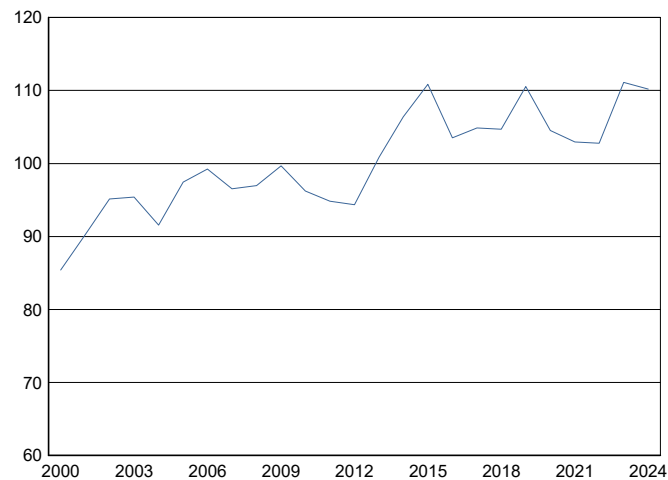


Final Score & Health Traits

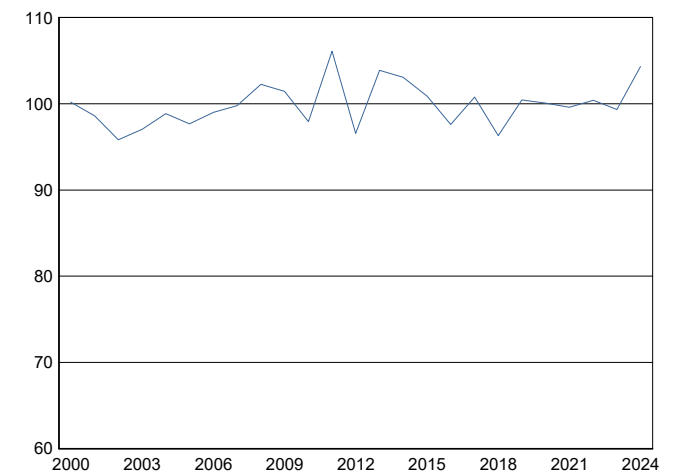
Final Score



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	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	
DELATRO EXCALIBUR	2018	RAINAISANCE BIEBER	5.00	96	97	96	113	101	112	104	98	97	99	106	103						
		RAINAISANCE JENNIFER LOPEZ		5	5	5	46	15	64	45	63	47	49	52	58						
ICARNICKY PABLO MK ESCOBAR	2023	KUSELA NARLY	12.10	105	97	98	63	107	94	120	128	105	103	97	109	6	1				
		MAMPIES ARORA		5	5	5	40	5	61	39	59	41	44	47	54						
RAINAISANCE SNIPER 4	2023	DUMAS MATRIX	5.60	97	93	99	107	119	92	129	119	111	115	105	116						
		RAINAISANCE SIA		5	5	10	49	22	65	49	64	50	52	55	60						
INCREDI BOEL TYSON II	2025	ICARNICKY PABLO MK ESCOBAR	5.60	103	104	91	75	96	76				103	91							
		LEGRA SAARTJIE		5	5	5	24	5	40				25	28	31						

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 Progeny	Litters Litters	Progeny Kennels	Hips Elbows	Progeny with litters
CDH ANDROMEDA	2021	CDH THUNDER PAURON LAIDE	10.05	103 5	109 5	98 29	108 50	116 23	88 66	112 50	95 65	106 51	117 53	109 56	106 61	2	1	2 2		
BUSBY MEDUSA	2022	PADIACHY JOHN-CENA FONT BOERBOELS DIVA	5.10	93 5	99 5	96 5	98 43	105 9	94 62	109 42	98 61	103 44	104 47	103 49	101 55					
CDH SAVANNAH	2022	CDH BULLET CDH KATRYN	15.65	108 5	109 5	106 22	118 52	120 25	114 67	112 52	99 66	116 53	110 55	115 58	112 62					
THEORETICAL BELLA I	2023	AMAROK MAXIMUS CDH ANDROMEDA	10.63	110 5	104 5	91 5	105 39	116 5	97 58	100 39	116 57	113 40	118 43	118 46	118 52					

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	
RAINAISANCE BIEBER		JACOB JAKE	2.59	90	95	95	98	97	107	100	93	90	89	99	94	4	1	3			2
	2013	BOSVLEI WINNIE		5	5	10	39	9	54	38	53	40	42	44	49			3			1
CDH BULLET		CDH SNIPER	10.46	103	118	94	111	124	118	117	113	123	116	119	122	169	26	43	4	4	32
	2017	MIDDELPOS BBD MILLY		16	36	57	76	53	86	75	85	76	78	80	83			36			4
CDH THUNDER		VILLA ROUGE GOLIAT	9.40	95		96	106	106	108	107	106	104	117	109	111	144	20	32	4	4	22
	2017	CDH MIA		5		55	72	48	83	72	82	73	74	76	80			26			6
DUMAS MATRIX		ELEVATION AROS	5.20	88	95	88	95	125	73	147	124	117	129	110	121	69	14	25			14
	2018	DUMAS NIKITA		5	5	30	70	44	83	69	82	71	73	75	79			11			3
PADIACHY JOHN-CENA		ZUKANDI ZUKO	5.68	98	89	95	91	106	105	118	108	114	120	112	113	7	1	3			1
	2019	PADIACHY LEXI		5	5	7	52	25	69	51	68	53	55	58	63			3			1
AMAROK MAXIMUS		KLOPDISSELBOOM KAROLIS	13.17	116	98	84	112	119	105	111	133	115	116	119	126	20	4	6			
	2020	AMAROK ELSA		5	5	10	45	18	61	45	60	46	48	51	56			6			
KUSELA NARLY		CBR GAME CHANGER	6.10	115	98	90	90	114	114	119	112	108	119	110	115	13	2	5			2
	2021	DUMAS RUBY		5	5	5	47	20	64	47	63	48	51	53	59			3			1
ICARNICKY PABLO MK ESCOBAR		KUSELA NARLY	12.10	105	97	98	63	107	94	120	128	105	103	97	109	6	1				
	2023	MAMPIES ARORA		5	5	5	40	5	61	39	59	41	44	47	54						

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	
RAINAISANCE JENNIFER LOPEZ	2015	DELATRO OPTIMUM	5.16	103	98	97	120	103	114	101	101	104	108	115	110	7	1	5			3
		MIDDELPOS BBD FIELA		5	5	28	60	32	75	59	74	61	63	65	70			5			1
FONT BOERBOELS DIVA	2016	FONT BOERBOELS MOJO	7.79	89	109	96	107	102	76	88	90	90	84	96	88	11	1	5			3
		VOORSLAG BBD PETRA		5	5	29	45	15	60	45	59	46	48	50	55			5			1
PAURON LAIDE	2019	CDH LEADER	7.49	111	107	101	107	114	77	109	88	101	106	92	94	31	4	7			2
		SAMRICO BEKKA		5	5	41	48	21	64	47	63	48	51	53	58			7			1
RAINAISANCE SIA	2019	ATKINS X-FACTOR	7.02	106	92	110	118	107	115	97	104	99	97	105	106	10	2	2			
		RAINAISANCE SOFIA		5	5	35	56	30	72	56	71	57	59	62	67			2			
CDH KATRYN	2020	CDH FRIK	11.95	112	100	117	125	117	111	96	93	114	106	117	109	35	4	8			2
		CDH BARBIE		5	5	42	57	30	72	57	71	58	60	63	67			8			2
LEGRA SAARTJIE	2021	LEGRA SPOOK	9.73	101	111	84	87	84	58	66	106	101	80	88	86	24	3	4			2
		MIDDELPOS BBD ROZAY		5	5	5	47	12	61	46	61	47	50	52	57			3			1
CDH ANDROMEDA	2021	CDH THUNDER	10.05	103	109	98	108	116	88	112	95	106	117	109	106	2	1	2			
		PAURON LAIDE		5	5	29	50	23	66	50	65	51	53	56	61			2			
MAMPIES ARORA	2021	DUMAS BIG DEAL	5.14	94	95	106	66	107	45	113	119	99	91	90	96	4	1	4			2
		RAINAISANCE SOFIA I		5	5	16	51	24	68	51	67	52	55	57	62			3			1

