

Boerboel Genetic Evaluation

SA Stud Book
February 2026

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Kennel Number: 607789



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.

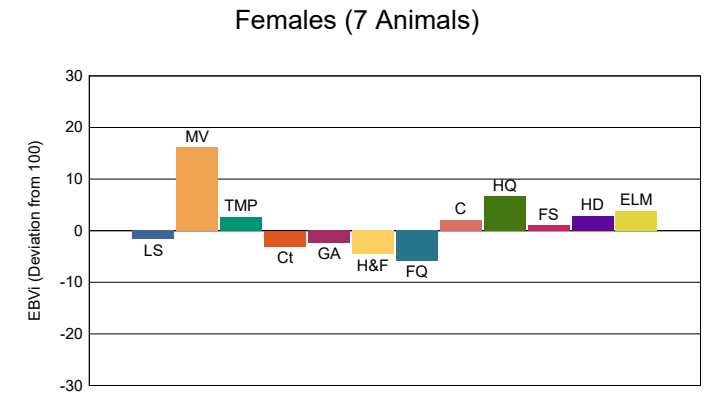
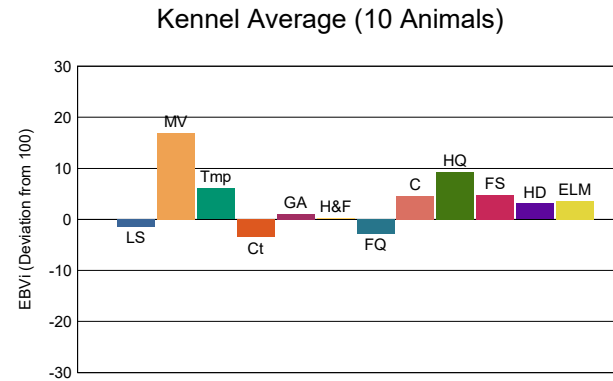
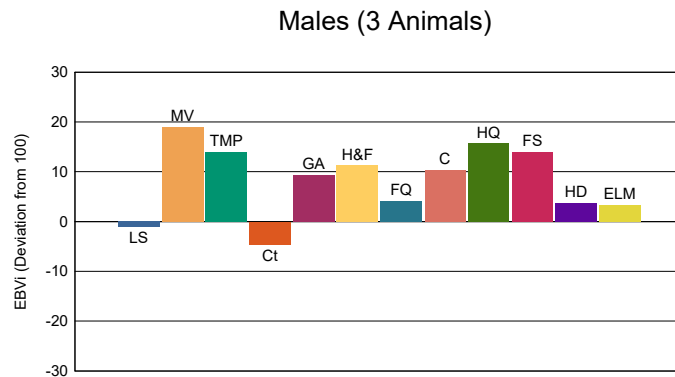
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	99	98
Movement (Mv)	117	119	116
Temperament (Tmp)	106	114	103
Coat (Ct)	97	95	97
General Appearance	101	109	98
Head & Face (H&F)	100	111	95
Front Quarter (FQ)	97	104	94
Centre (C)	105	110	102
Hind Quarter (HQ)	109	116	107
Final Score (FS)	105	114	101
Hip Health (HH)	103	104	103
Elbow Health (ELM)	104	103	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.

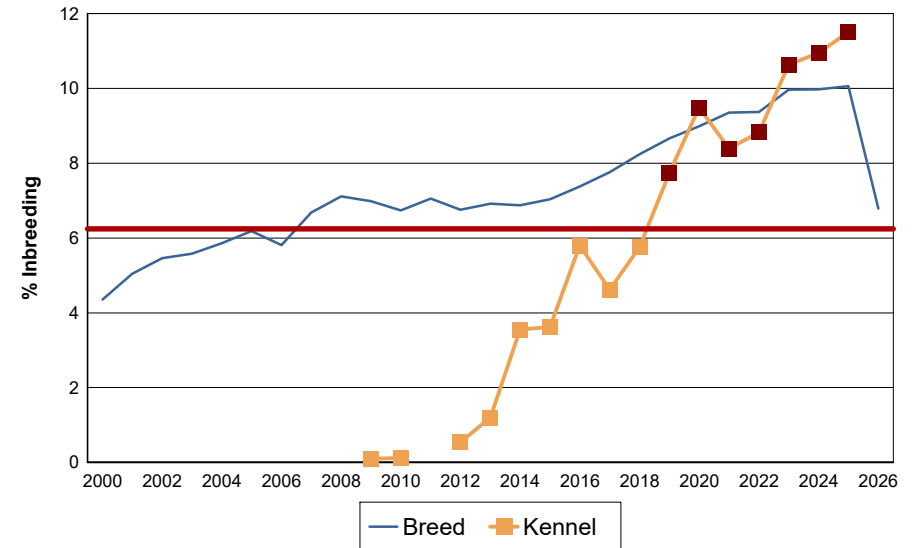
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

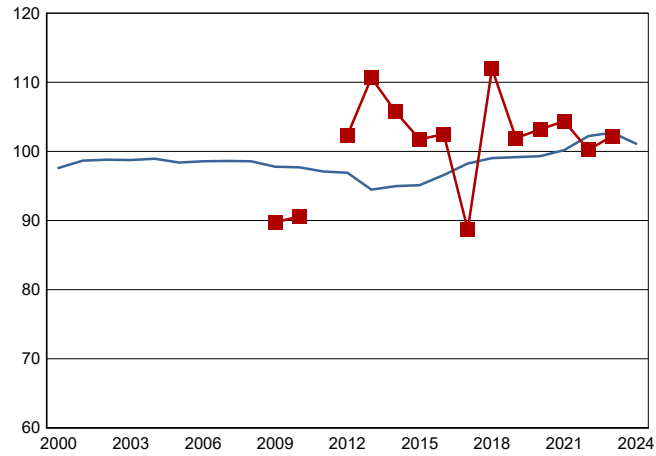


Inbreeding Levels

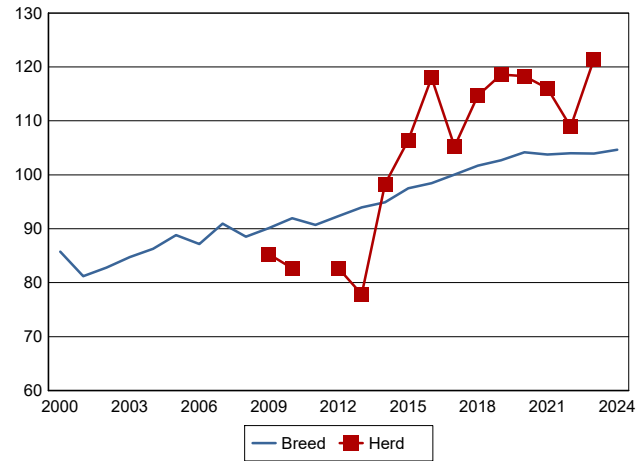
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	10	49007	3	25141	7	23857	7	3371	8	6287
Average Inbreeding	10.04	8.49	9.65	8.46	10.21	8.53	9.66	8.01	8.43	8.00
Number inbred	10	48727	3	24990	7	23728	7	24990	8	23728
Number >6.25% Inbr.	9	30600	3	15537	6	15058	7	15537	5	15058

Genetic Trends

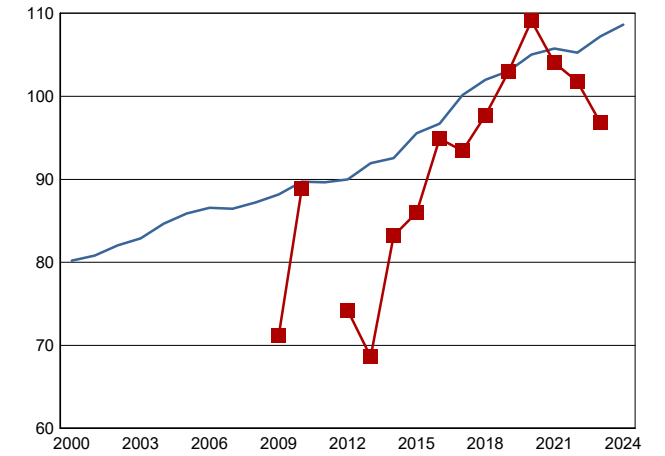
Litter Size



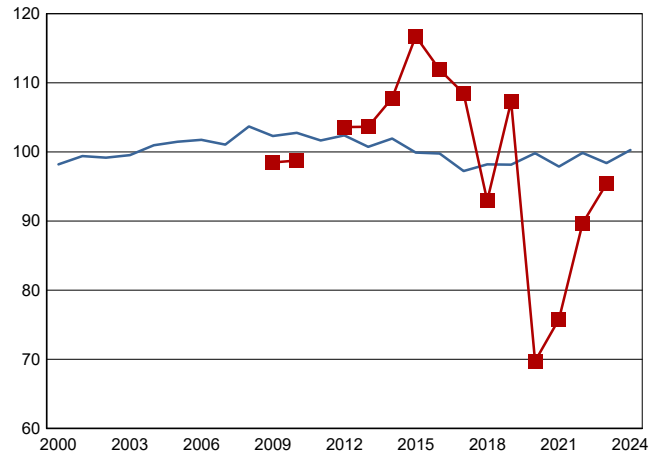
Movement



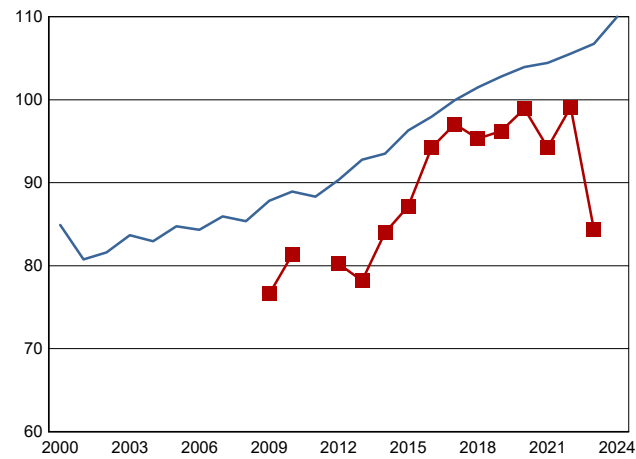
Temperament



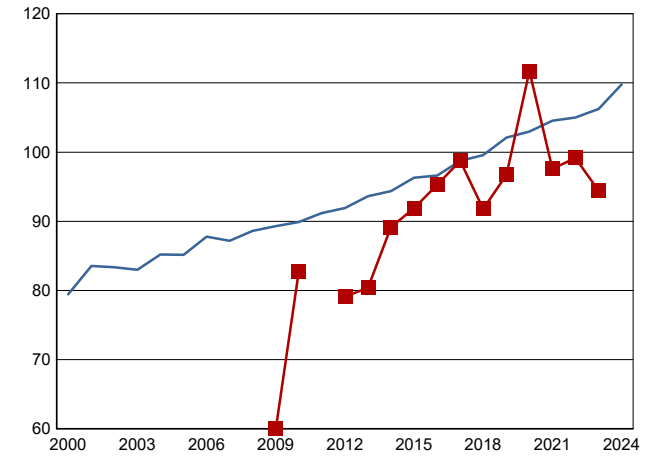
Coat



General Appearance

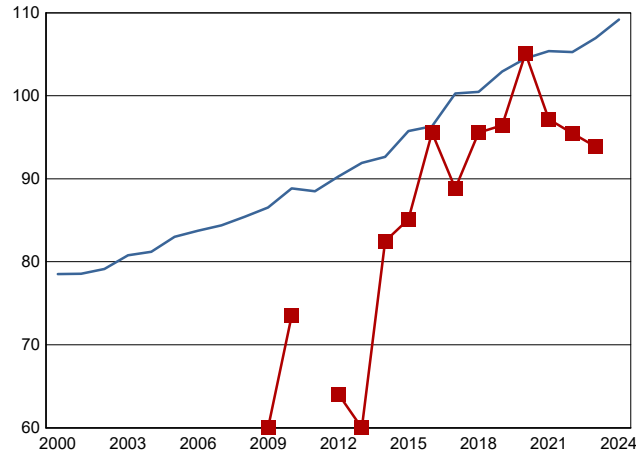


Head & Face

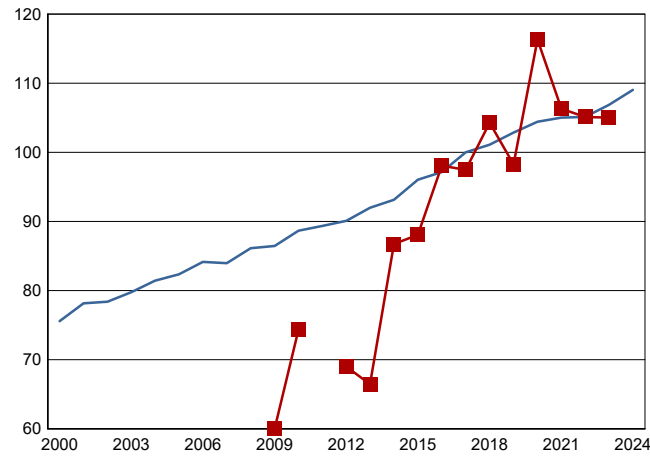


Genetic Trends

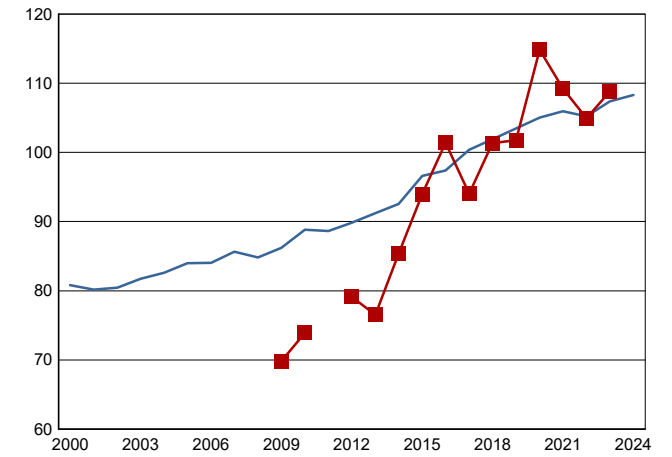
Front Quarter



Centre

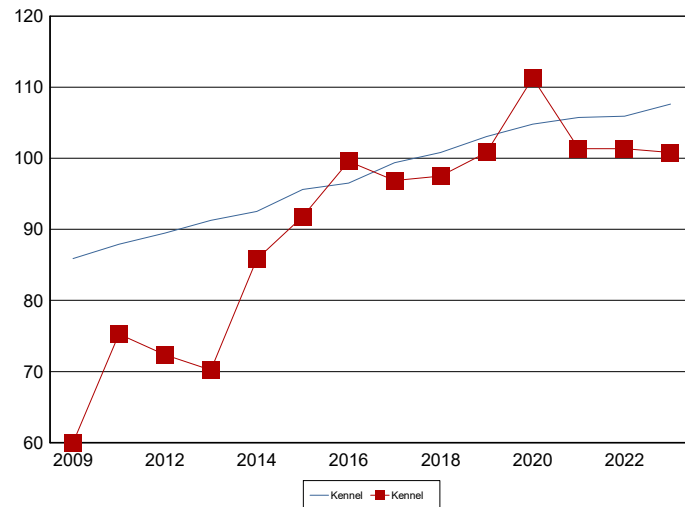


Hind Quarter

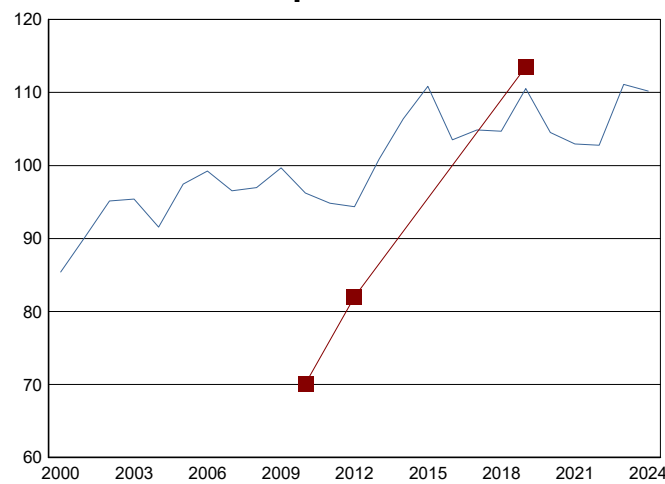


Final Score & Health Traits

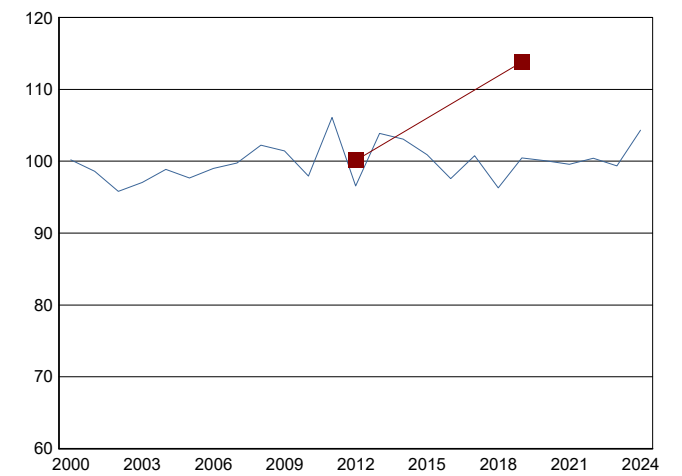
Final Score



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	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	
DELMA SPIKES		DELMA TOKKAS I	9.56	110	99	99	116	111	81	110	97	97	108	113	104	26	5				
	2022	WOEKER BBD DELLA		5	5	26	48	18	65	47	64	49	51	54	59						
BOELA DAWID		MES CHAMP	8.86	106	106	103	114	115	104	111	130	108	113	121	124	11	2				
	2023	WOEKER BBD DINA		5	5	20	48	20	66	48	65	49	52	54	60						
BOELA DANIEL		WOEKER BBD HILUX	10.53	96	105	94	127	116	101	107	108	107	110	114	113						
	2025	BOELA DEMI		5	5	5	25	5	42	24	41	26	28	31	36						

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
DELMA LILLY	2019	WOEKER BBD JAPIE DELMA MAYA	6.00	103 5	107 5	95 53	118 43	106 24	112 52	98 45	100 52	95 44	96 45	102 46	103 49	39	8	2 2		1 1
DELMA ROSE III	2023	CDH TARZAN DELAKLERK AMY	7.25	98 5	101 5	104 20	113 43	92 5	115 63	95 42	88 61	89 44	104 47	110 50	100 56	6	1			
DELMA JESSIE 10	2024	DELMA SPIKES DELMA LILLY	12.81	106 5	103 5	97 9	117 25	109 5	97 38	104 26	98 38	96 26	102 28	107 30	103 34					
DELMA FIELA 10	2024	DELMA SPIKES DELMA KIARA 10	13.24	107 5	105 5	102 5	121 23	103 5	89 41	94 22	96 40	96 24	104 27	110 30	102 35					
BOELA DELMA DINA	2025	DELAKLERK ENZO MAJALI DIVA	6.54	94 5	106 5	97 5	111 26	92 5	73 43	85 26	89 42	92 27	103 30	104 32	93 37					
DELMA SPROETE	2025	DELMA SPIKES DELMA LILLY	12.81	106 5	103 5	97 9	117 25	109 5	97 38		98 38	96 26	102 28	107 30	103 34					
DELMA JULIE 10	2025	DELMA SPIKES DELMA LILLY	12.81	106 5	103 5	97 9	117 25	109 5	97 38		98 38	96 26	102 28	107 30	103 34					

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		
DELMA TOKKAS I		DEO-HAN ZORBA	6.61	110	93	95	121	114	64	113	100	106	122	116	109	126 15	16			12	
	2016	ELEVATION LOLA		5	5	44	60	34	74	59	74	61	63	65	70						3
WOEKER BBD JAPIE		MIDDELPOS BBD JOCK 1	13.41	114	104	92	123	117	92	103	107	107	108	111	111	147 26	40	1	1	19	
	2016	MIDDELPOS BBD FIELA 3		5	5	55	76	54	86	75	86	77	78	80	83						6
MES CHAMP		MES MAC GYVER	7.10	106	107	109	118	115	82	102	121	107	118	123	120	80 14	12			9	
	2017	MES SERABI		5	23	47	63	41	74	63	74	63	65	67	71						3
CDH TARZAN		CDH FRIK	8.01	102	95	109	113	100	123	104	91	98	105	114	105	28 6	5			1	
	2020	ALESSANDRO JANI		5	5	28	57	30	73	55	72	58	60	63	68						1
DELAKLERK ENZO		VILLA ROUGE GOLIAT	12.20	94	108	100	120	92	82	78	94	93	105	102	96	81 12	6			3	
	2020	DELAKLERK LUNA		5	5	15	52	14	70	51	69	53	55	58	64						2
DELMA SPIKES		DELMA TOKKAS I	9.56	110	99	99	116	111	81	110	97	97	108	113	104	26 5					
	2022	WOEKER BBD DELLA		5	5	26	48	18	65	47	64	49	51	54	59						
WOEKER BBD HILUX		AFRIKA BOETA-BEN	10.73	92	104	90	137	130	115	119	113	115	117	129	126	17 4					
	2022	WOEKER BBD ELCAH		5	5	11	47	12	65	47	64	48	51	54	59						

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	
DELMA MAYA	2015	MIDDELPOS BBD OSCAR	1.07	92	109	89	112	95	132	93	93	84	85	93	94	26	3	5		6	
		DELMA BRUSHKA		15	21	55	49	30	63	49	62	50	52	54	58			4		1	
WOEKER BBD DELLA	2018	WOEKER BBD HANS	16.59	109	105	104	106	103	97	103	97	90	90	98	96	14	2	3		3	
		MIDDELPOS BBD FIELA 3		5	5	44	58	32	72	57	71	58	60	63	67			3		1	
DELMA LILLY	2019	WOEKER BBD JAPIE	6.00	103	107	95	118	106	112	98	100	95	96	102	103	39	8	2		1	
		DELMA MAYA		5	5	53	43	24	52	45	52	44	45	46	49			2		1	
WOEKER BBD DINA	2020	WOEKER BBD JAPIE	10.43	106	106	98	113	115	101	114	116	106	106	113	115	9	2	3		3	
		WOEKER BBD DORKAH		5	5	38	54	29	70	54	69	55	57	60	65			3		1	
DELAKLERK AMY	2020	VILLA ROUGE GOLIAT	12.20	94	108	101	110	88	100	84	90	87	102	101	94	21	3	2		1	
		DELAKLERK LUNA		5	5	15	40	5	55	39	54	40	43	45	50			2		1	
DELMA KIARA 10	2023	DELAKLERK ENZO	8.04	104	111	104	125	95	96	77	95	95	99	106	99	5	1				
		DELMA LUNA I		5	5	24	43	5	62	43	61	44	47	50	56						
MAJALI DIVA	2023	MAJALI MATHYS	5.64	95	104	93	102	92	65	93	84	90	101	105	89	11	1				
		RANGER DAISY		5	5	17	41	8	60	40	59	42	45	48	54						
BOELA DEMI	2023	DELAKLERK ENZO	7.51	100	107	99	117		87	95	102	100	102	99	101	5	1				
		WOEKER BBD DINA		5	5	5	43		62	42	60	44	47	49	55						

