

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 725464



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.

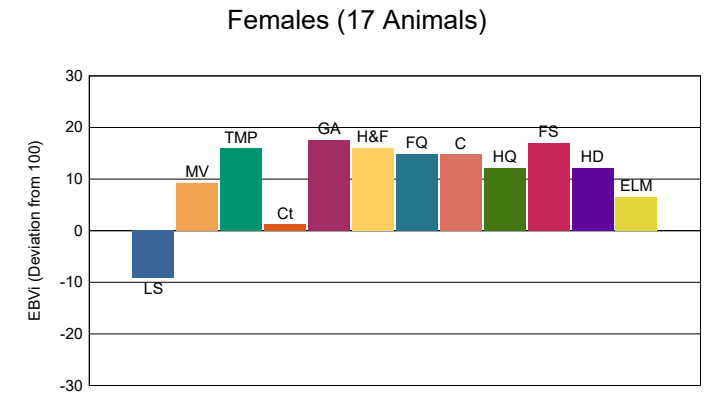
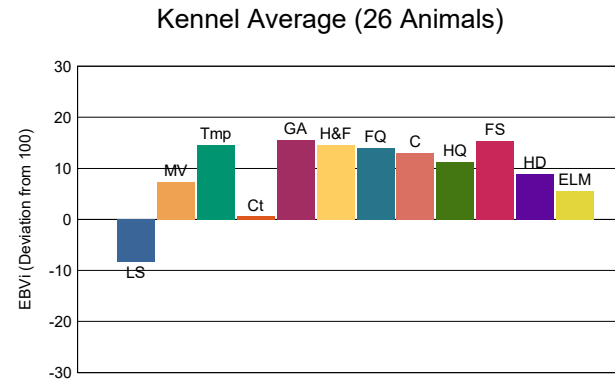
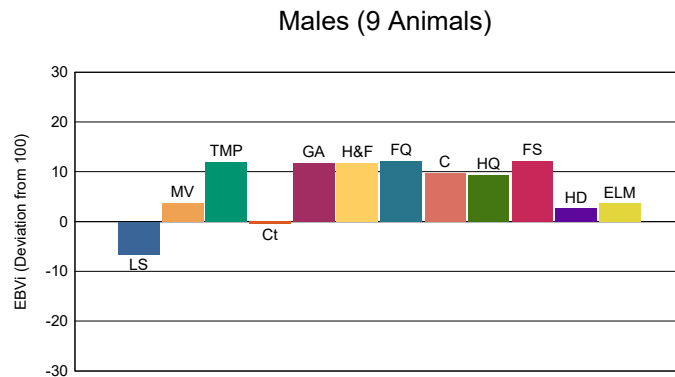
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	93	91
Movement (Mv)	107	104	109
Temperament (Tmp)	115	112	116
Coat (Ct)	101	99	101
General Appearance	116	112	118
Head & Face (H&F)	115	112	116
Front Quarter (FQ)	114	112	115
Centre (C)	113	110	115
Hind Quarter (HQ)	111	109	112
Final Score (FS)	115	112	117
Hip Health (HH)	109	103	112
Elbow Health (ELM)	106	104	107

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.

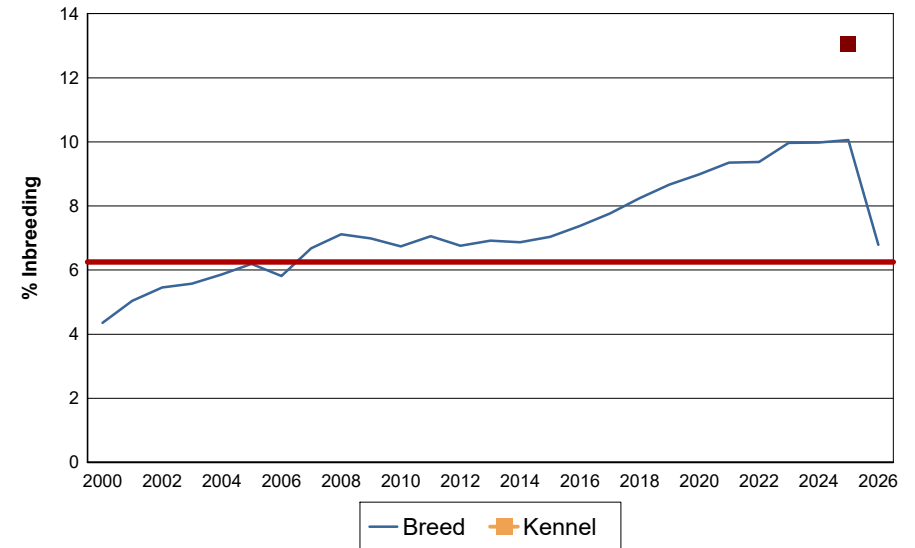
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	26	49007	9	25141	17	23857	16	3371	17	6287
Average Inbreeding	11.71	8.49	10.83	8.46	12.18	8.53	11.02	8.01	10.88	8.00
Number inbred	26	48727	9	24990	17	23728	16	24990	17	23728
Number >6.25% Inbr.	21	30600	7	15537	14	15058	12	15537	11	15058

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			
KADIMA TROMPIE	BREKER FANUS	5.06	82	104	114	71	84	80	92	90	94	86	102	87	32	6	11			5
	KADIMA TRUVELO		5	5	27	62	37	76	61	75	63	65	67	72			9			2
KRATOS LEO	KADIMA TROMPIE	4.31	87	101	102	83	89	103	77	83	87	79	98	85	2	1				
	KRATOS GOLDIE		5	5	5	47	16	65	46	64	48	50	53	59						
MONSOON RAMOS	TERRIBLE TWINS KNOX	7.80	100	87	100	113	113	98	116	113	106	108	109	112						
	BODINGTON BOERBOEL RUBY ROSE		5	5	5	32	5	45	31	44	32	34	37	41						
BRANDVLEI THANOS	HASHTAG THANOS	10.90	95	99	83	115	116	101	102	117	128	117	99	115						
	BRANDVLEI MARY-JANE		5	5	15	49	20	66	48	65	50	52	55	60						
HORIZON PATAT	HORIZON KONING GOG	18.11	106	99	103	126	131	108	130	130	125	124	125	133	5	1				
	HORIZON SKY		5	5	5	35	5	60	24	59	36	40	44	52						
VENOM THOR	ELEVATION KUDU	15.26	132	112	79	105	122	102			119	124								
	ELEVATION UNA		5	5	5	26	5	41		40	26	29	31	36						
VENOM JAN	ELEVATION KUDU	15.26	132	112	79	105	122	102			119	124								
	ELEVATION UNA		5	5	5	26	5	41		40	26	29	31	36						
VENOM ICE	ELEVATION TOLBOS	10.39	95	109	90	108	116	101	120	117	116	113	108	116						
	JAMBAL PENNY		5	5	27	37	10	49	37	48	38	40	42	45						
VENOM JACK	ELEVATION TOLBOS	10.39	95	109	90	108	116	101	120	117	116	113	108	116						
	JAMBAL PENNY		5	5	27	37	10	49	37	48	38	40	42	45						

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	
JAMBAL PENNY	2019	BREKER MENEER	3.24	104	101	70	89	104	91	102	107	109	105	110	106	22	6	2			1
		JAMBAL TIKE-EE		5	5	55	56	34	70	56	70	57	59	61	66			2			1
TERRIBLE TWINS LWANDLE	2019	ELEVATION GHETTO-ROUGH	5.88	111	86	69	108	120	99	121	114	106	105	111	114	18	5	8	1	1	3
		VOEL GERUS KGOATHSO		22	42	42	55	30	71	54	70	56	58	61	66			7			2
MASTERMINDS ISABELLA	2021	MASTERMINDS KING KAIRO	15.81	102	100	111	116	111	103	102	110	112	111	116	114	5		1			
		MASTERMINDS CUPCAKE		5	5	5	44	5	64	44	63	46	49	52	58			1			
ELEVATION AMANDA	2021	ELEVATION ZAMBA	14.29	119	99	108	124	123	118	135	136	126	123	117	133	2	2				
		ELEVATION NIKITA		5	23	38	48	22	64	47	63	49	51	53	58						
ELEVATION LIENKA	2021	LINGA LONGA HARLEY 3	5.21	131	129	77	107	111	93	113	117	113	123	116	118	5	2				
		ELEVATION MOYA		16	33	40	51	29	66	51	65	52	54	56	61						
MES ANIKA	2021	MES FELIX BOETA	20.53	100	95	146	112	106	92	89	99	112	101	108	103	25	3	3			1
		TAKATSO MARAAI		5	5	44	58	29	73	57	72	59	61	63	68			2			1
ELEVATION UNA	2021	ELEVATION OTTO	13.20	128	128	69	98	109	105	120	123	111	122	115	121	16	4	2			1
		ELEVATION NINA II		5	27	50	53	29	67	52	66	53	55	58	62			2			1
BOSTU CAILEY	2022	ELEVATION LOVERBOY	16.09	98	74	96	111	106	97	110	114	112	104	97	108	3	1				
		BOSTU CAI		5	22	20	48	11	66	47	65	49	51	54	60						
HORIZON AVALANCHE	2023	RAINAISANCE STETSON	7.31	104	102	90	118	124	96	128	113	116	112	118	118	9	2				
		MASTERMINDS ROYAL		5	5	5	33	5	48	32	47	34	36	39	44						
ELEVATION NAOMI	2023	ELEVATION TOLBOS	13.34	97	118	123	131	123	116	118	109	114	110	105	115	9	1				
		ELEVATION MAGGIE		5	21	29	49	21	65	49	64	50	52	54	59						
VENOM DIAN	2025	ELEVATION KUDU	15.26	132	112	79	105	122	102		120	119	124	117	123						
		ELEVATION UNA		5	5	5	26	5	41		40	26	29	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	Litters	Progeny Kennels	Hips	Elbows	
VENOM PHEOBE		ELEVATION KUDU	15.26	132	112	79	105	122	102		120	119	124	117	123						
	2025	ELEVATION UNA		5	5	5	26	5	41		40	26	29	31	36						
VENOM RUBY		ELEVATION KUDU	15.26	132	112	79	105	122	102		120	119	124	117	123						
	2025	ELEVATION UNA		5	5	5	26	5	41		40	26	29	31	36						
VENOM TIANA		ELEVATION KUDU	15.26	132	112	79	105	122	102		120	119	124	117	123						
	2025	ELEVATION UNA		5	5	5	26	5	41		40	26	29	31	36						
VENOM LANA		ELEVATION TOLBOS	10.39	95	109	90	108	116	101	120	117	116	113	108	116						
	2025	JAMBAL PENNY		5	5	27	37	10	49	37	48	38	40	42	45						
VENOM LEA		ELEVATION TOLBOS	10.39	95	109	90	108	116	101	120	117	116	113	108	116						
	2025	JAMBAL PENNY		5	5	27	37	10	49	37	48	38	40	42	45						
VENOM LUNA		ELEVATION TOLBOS	10.39	95	109	90	108	116	101	120	117	116	113	108	116						
	2025	JAMBAL PENNY		5	5	27	37	10	49	37	48	38	40	42	45						

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
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	with litters	
BREKER MENEER		VOORSLAG BBD PIKSTEEL	3.84	96	107	77	72	80	81	75	111	102	84	94	92	126 22	56 41	1 1		36 9	
	2015	BREKER NELLA		5	5	56	79	57	88	79	88	80	81	83	86						
ELEVATION OTTO		GROENBERG BBD RAMBO	4.48	95	105	77	107	125	95	128	127	121	128	123	128	80 14	38 31	4 4		24 10	
	2016	HAZENJACHT BBD FIELLA		46	59	60	78	60	87	78	86	79	80	81	84						
MES FELIX BOETA		MES MASCOT	7.87	97	96	139	119	101	101	84	100	108	95	115	105	69 16	31 23	1 1		24 4	
	2016	TREBLA LULU		21	36	62	79	59	88	78	87	79	81	82	85						
BREKER FANUS		BREKER MENEER	15.68	97	107	76	68	71	92	94	111	102	92	104	98	151 21	41 38			27 7	
	2017	BREKER BELLA		5	5	46	75	50	86	75	85	76	78	79	83						
LINGA LONGA HARLEY 3		AFRIKA HAVANNAH	5.56	136	156	91	86	92	80	104	124	116	113	92	107	81 10	31 27	10 10		18 4	
	2017	LINGA LONGA ZALYN		43	57	47	71	45	84	71	83	72	74	76	80						
ELEVATION GHETTO-ROUGH		ELEVATION DAX	14.22	109	79	89	132	134	111	126	138	125	119	116	133	105 22	40 35	4 4		29 9	
	2017	QUREDU MIA		32	51	49	77	55	87	77	86	78	79	81	84						
ELEVATION ZAMBA		GROENBERG BBD RAMBO	17.31	133	95	94	124	128	98	133	125	122	128	126	130	11 2	7 7			5 2	
	2017	ELEVATION ZIETA		34	52	48	64	44	76	63	75	64	66	68	72						
MASTERMINDS KING KAIRO		SUID KAAP OSKAR	8.72	110	102	103	124	125	110	120	121	122	120	116	125	40 5	12 11			9 3	
	2018	LOTTER TESSA II		5	5	9	58	29	74	57	73	59	61	64	69						
HASHTAG THANOS		MES ASKAM	12.70	86	97	91	104	96	104	100	104	104	94	78	95	60 13	20 14			5 3	
	2019	HASHTAG HAVANA		5	5	36	67	44	80	67	80	68	70	72	76						
TERRIBLE TWINS KNOX		ELEVATION GHETTO-ROUGH	16.36	112	84	97	121	125	86	119	124	113	112	114	120	3 1	1 1			1 1	
	2019	JAMBAL BUHLE		5	11	25	54	29	68	53	67	55	57	59	63						
RAINAISANCE STETSON		DUMAS MATRIX	6.77	103	105	91	107	125	78	144	118	124	128	120	123	11 2	5 4			2 1	
	2020	TAILORED ECHO		5	5	17	55	27	71	54	70	56	58	61	66						
ELEVATION LOVERBOY		ELEVATION DJ	18.92	92	43	67	120	125	98	126	129	124	121	108	124	26 6	9 9			2 2	
	2020	ELEVATION LUCA		24	49	28	57	28	73	56	72	58	60	63	68						

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	
KADIMA TROMPIE		BREKER FANUS	5.06	82	104	114	71	84	80	92	90	94	86	102	87	32	6	11		5
	2021	KADIMA TRUVELO		5	5	27	62	37	76	61	75	63	65	67	72		9			2
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
HORIZON KONING GOG		RAINAISANCE BULLETTJIE	8.22	102	100	103	122	121	113	122	123	114	113	119	124	18	4	3		1
	2022	MASTERMINDS ROYAL		5	5	5	51	14	70	49	69	52	55	58	64		3			1
ELEVATION KUDU		VAN DER KEMP BLOCK	16.96	137	97	89	113	134	99	129	116	126	126	119	125	37	7			
	2022	JAMBAL KATINKA		5	35	5	41	5	61	41	60	42	45	48	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	
VOEL GERUS KGO THATSO	2014	MIGHTY BBD TYLO I	5.93	110	97	78	93	95	100	102	88	86	87	99	90	8	3	4	1	1	2
		MAKULU LAANIE NIKI		5	17	37	43	18	58	42	57	44	46	48	53			3		1	
JAMBAL TIKE-EE	2018	GROENBERG BBD RAMBO	19.76	111	94	74	101	117	115	121	100	108	116	122	114	14	4	7			3
		QUREDU SASHA		5	24	54	62	43	75	62	74	63	65	67	71			7		1	
ELEVATION MOYA	2018	GROENBERG BBD RAMBO	17.70	126	103	81	138	135	100	128	115	115	133	135	131	5	1	3	1	1	2
		QUREDU MIA		37	55	51	62	45	73	61	72	62	64	66	69			3		1	
KADIMA TRUVELO	2018	MAXIPAL TROMPIE	4.32	67	101	157	98	83	106	76	61	79	75	99	75	45	5	15			8
		KADIMA MA-DUECE		17	34	52	62	35	78	62	77	63	66	68	73			15		1	
ELEVATION NIKITA	2018	ELEVATION DAX	6.54	106	104	95	113	112	107	119	123	116	109	109	118	4	1	1			1
		MES KATRYN		38	56	45	58	38	71	57	70	58	60	62	66			1		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	
MASTERMINDS CUPCAKE	2019	LOTTER SUPERMAN	17.95	93	99	119	118	110	103	97	105	110	102	109	108	16	2	10			6
		LOTTER LULU II		5	5	5	55	5	74	54	73	56	59	62	68			8		2	
JAMBAL PENNY	2019	BREKER MENEER	3.24	104	101	70	89	104	91	102	107	109	105	110	106	22	6	2			1
		JAMBAL TIKE-EE		5	5	55	56	34	70	56	70	57	59	61	66			2		1	
BODINGTON BOERBOEL RUBY ROSE	2019	KAMMO BBD HOGUE	5.80	89	90	104	104	100	109	114	102	99	104	103	105	11	2	1			1
		BODINGTON BOERBOEL ANASTASIA		5	5	32	50	23	67	49	66	51	53	56	61			1		1	
ELEVATION NINA II	2019	LINGA LONGA HARLEY 3	5.27	161	152	87	99	103	93	113	123	113	119	107	116	12	2	2			2
		ZUKANDI LIZZY		36	53	49	51	29	63	50	62	51	53	55	59			2		1	
TAKATSO MARAAI	2020	MES MASCOT	9.33	103	95	122	119	117	92	90	93	113	108	116	106	18	3	8			3
		AFRIKA GIGGI		5	12	42	63	40	77	63	76	64	66	68	73			7		1	
BRANDVLEI MARY-JANE	2020	MES BENOIT	10.93	103	100	75	108	118	90	109	112	120	119	113	116	11	3	3			
		MES GULIETTA		5	5	41	56	31	72	56	71	57	59	62	67			3			

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	
MASTERMINDS ROYAL	2020	LOTTER SUPERMAN	19.73	105	100	96	129	122	114	113	108	107	97	116	114	18	5	7			7
		MASTERMINDS BELLA		5	5	5	48	5	68	46	67	49	52	56	62			6			1
BOSTU CAI	2020	KLEIN SANDFONTEIN BROCC	10.39	104	105	128	106	104	101	110	114	119	109	104	111	23	3	9			1
		ELEVATION TALITA		32	53	47	60	32	76	59	75	61	63	66	71			7			1
KRATOS GOLDIE	2021	JACOB OLAF	10.67	92	99	90	99	95	107	67	91	88	81	86	86	23	4	7			3
		JACOB RITA		5	5	5	42	5	63	42	62	43	46	50	57			7			1
ELEVATION UNA	2021	ELEVATION OTTO	13.20	128	128	69	98	109	105	120	123	111	122	115	121	16	4	2			1
		ELEVATION NINA II		5	27	50	53	29	67	52	66	53	55	58	62			2			1
HORIZON SKY	2022	MASTERMINDS ZIGGY	18.55	109	98	103	124	128	100	120	113	121	117	118	121	5	1	1			1
		VAN DER KEMP LUNA		5	5	5	32	5	56	26	54	33	37	41	48			1			1

