

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 671399



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.

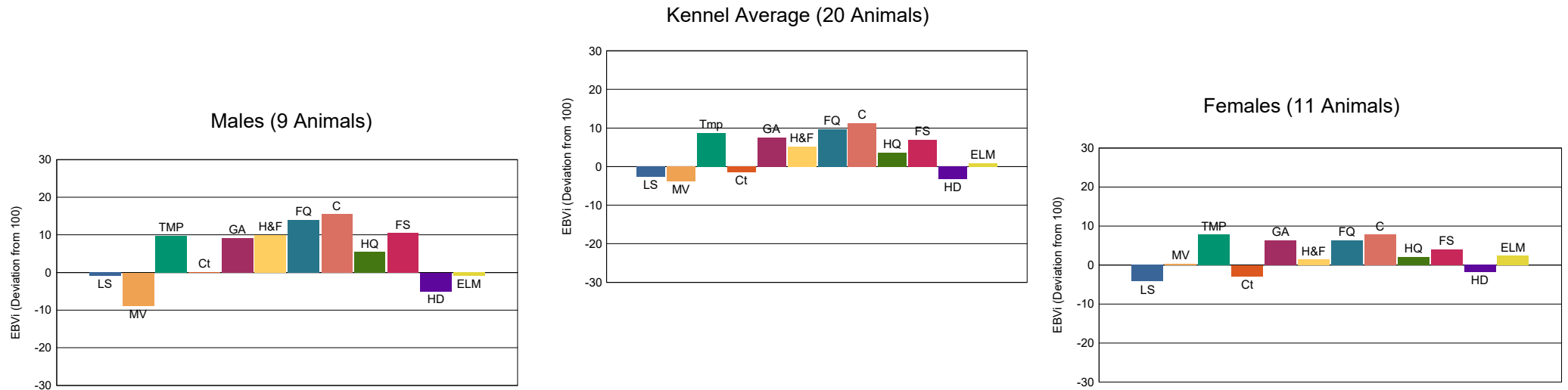
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	99	96
Movement (Mv)	96	91	100
Temperament (Tmp)	109	110	108
Coat (Ct)	99	100	97
General Appearance	108	109	106
Head & Face (H&F)	105	110	101
Front Quarter (FQ)	110	114	106
Centre (C)	111	116	108
Hind Quarter (HQ)	104	105	102
Final Score (FS)	107	110	104
Hip Health (HH)	97	95	98
Elbow Health (ELM)	101	99	102

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.

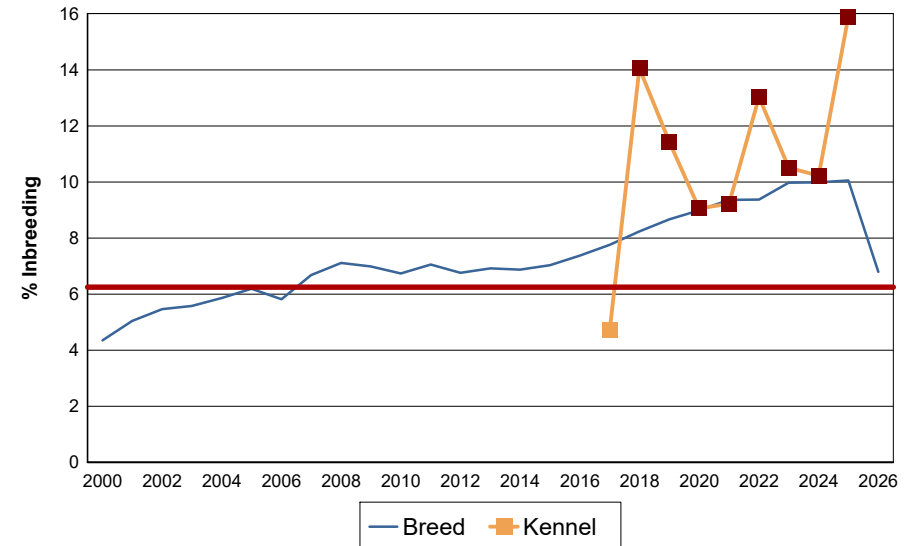
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

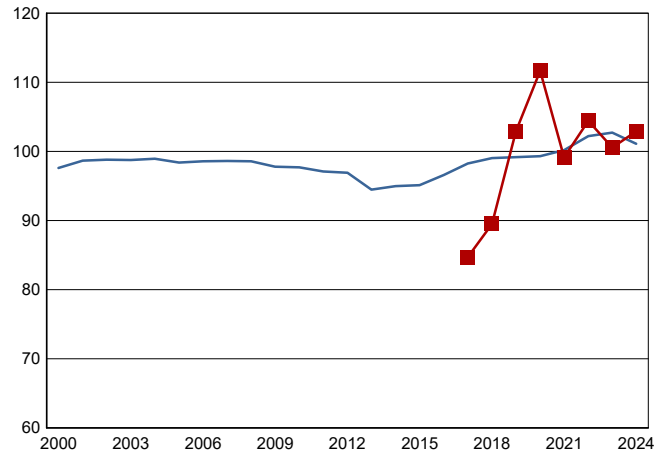


Inbreeding Levels

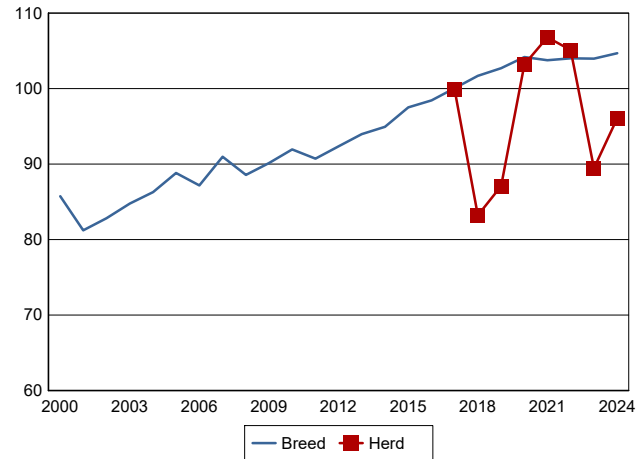
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	20	49007	9	25141	11	23857	12	3371	15	6287
Average Inbreeding	11.21	8.49	10.34	8.46	11.92	8.53	11.98	8.01	8.87	8.00
Number inbred	20	48727	9	24990	11	23728	12	24990	15	23728
Number >6.25% Inbr.	19	30600	8	15537	11	15058	12	15537	11	15058

Genetic Trends

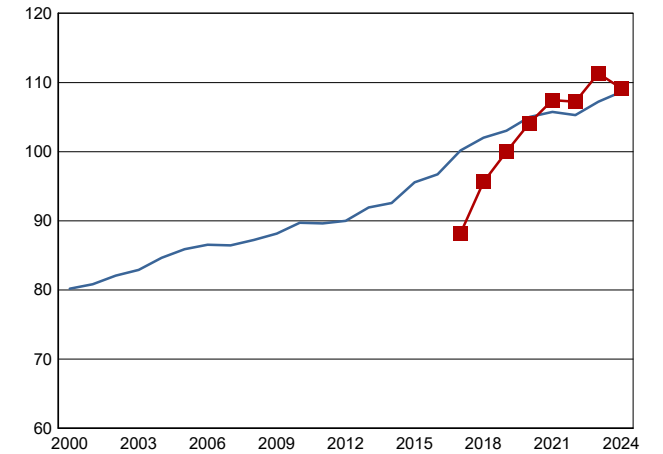
Litter Size



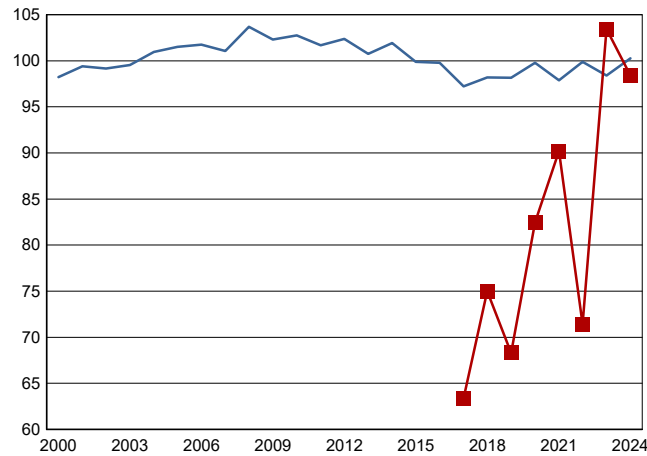
Movement



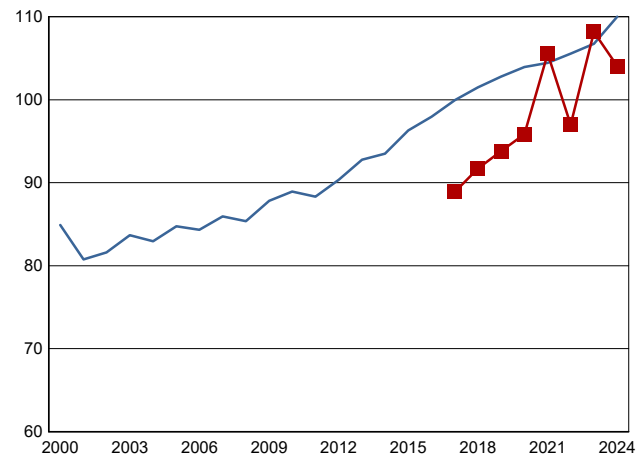
Temperament



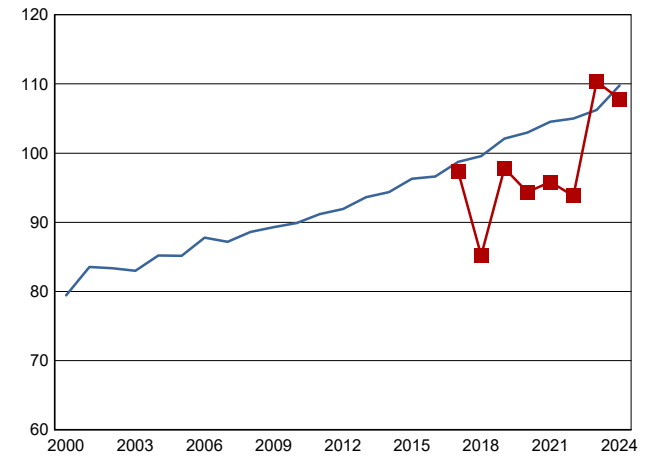
Coat



General Appearance

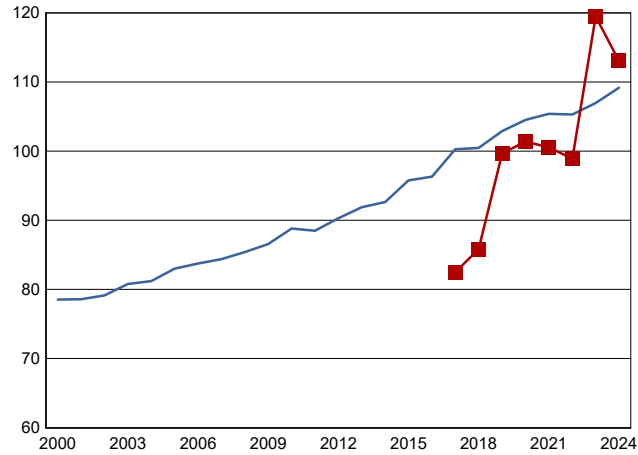


Head & Face

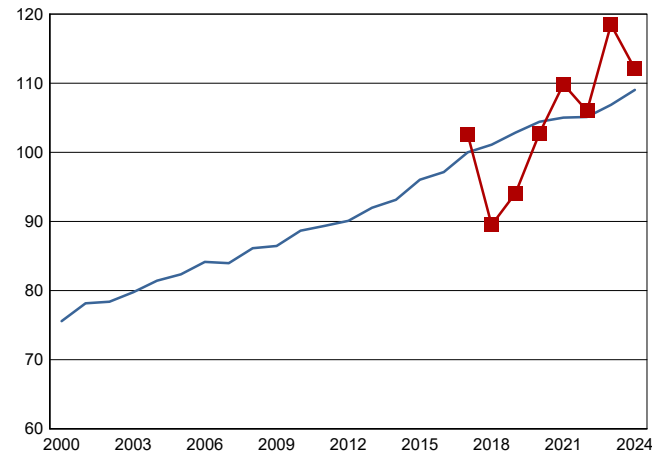


Genetic Trends

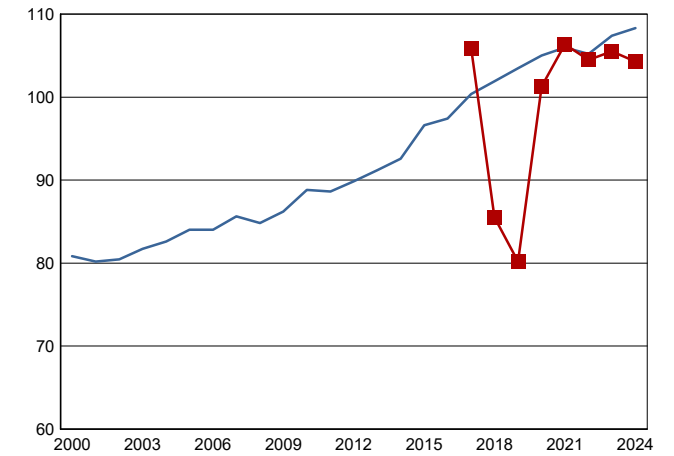
Front Quarter



Centre

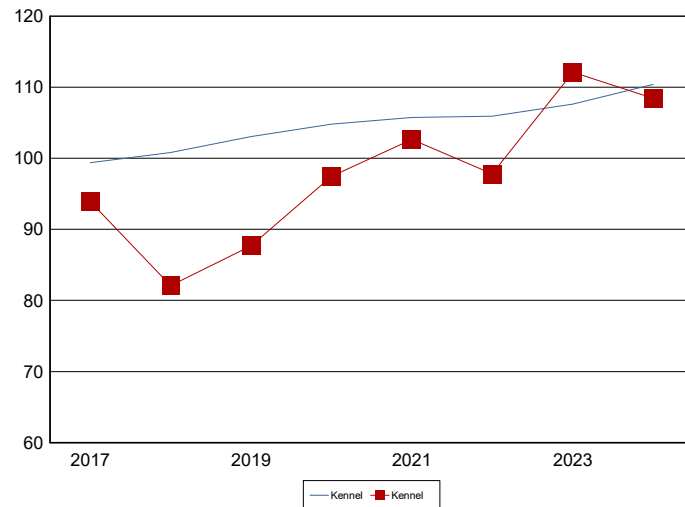


Hind Quarter

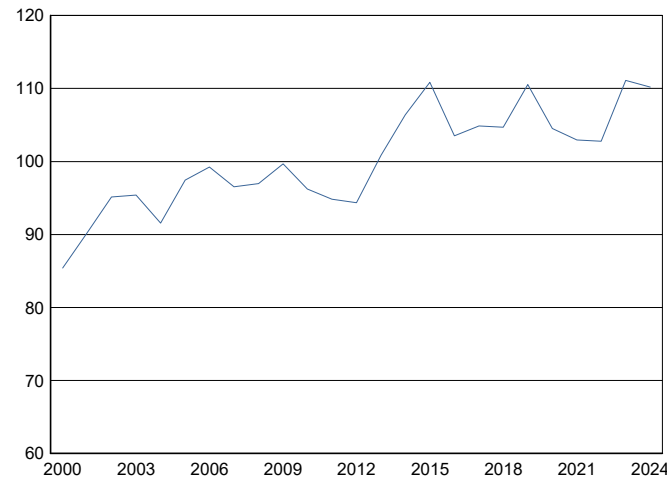


Final Score & Health Traits

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	litters
BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
ABSOLUTE OLIVER	CABARET TYLO	3.68	77	84	97	70	87	93	88	97	87	77	68	79	2	1	1			
	2015 ANDERSON BBD SHYLA		5	5	38	54	31	68	53	67	54	56	58	63			1			
GLASGOW BIG GUN	ALEXANDER BBD BLADE	8.62	106	103	96	105	110	60	98	91	95	113	112	99	15	2	2			
	2021 GLASGOW QUEEN		5	5	5	39	5	58	38	56	40	42	45	51			2			
GLASGOW BEAST	ALEXANDER BBD BLADE	9.90	107	102	104	102	106	99	109	106	104	114	108	109	10	3	1			1
	2021 ALEXANDER BBD ANGEL 2		5	5	14	37	5	51	36	50	38	40	42	46			1			1
JOSMOT SPYKE	MES HITLER BLAKE	9.37	86	103	92	87	118	114	116	120	131	133	116	125	56	12	15			4
	2021 JOSMOT KOOLKAT 2		5	5	22	55	28	72	54	71	56	59	61	66			11			3
GLASGOW BROOKLYN	JOSMOT SPYKE	10.59	92	102	110	87	113	105	111	108	123	124	111	115						
	2023 GLASGOW WAKANDA		5	5	5	42	5	61	41	60	43	46	49	55						
GLASGOW BOERBOEL OLIVER	JOSMOT SPYKE	9.77	100	99	88	88	113	121	112	119	122	118	105	118						
	2023 ALEXANDER BBD KEENA		5	5	5	40	5	59	39	58	41	44	47	53						
GLASGOW BRUTTUS	JOSMOT SPYKE	9.59	100	99	106	94	114	102	120	118	123	121	110	118						
	2025 HAZGO SHAKIRA		5	5	5	29	5	43	28	42	30	32	34	38						
GLASGOW OSCAR	JOSMOT SPYKE	9.59	100	99	106	94	114	102	120	118	123	121	110	118						
	2025 HAZGO SHAKIRA		5	5	5	29	5	43	28	42	30	32	34	38						
GLASGOW GRINGOO	JOSMOT SPYKE	21.92	86	102	94	93	112	106			119	119								
	2025 GLASGOW BITA		5	5	5	5	5	35		33	5	11	18	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	
GLASGOW QUEEN	2020	CABARET SON OF A GUN JNR	10.67	93	99	95	106	103	78	92	87	94	106	109	96	10	3	3			1
		ALEXANDER BBD ANGEL 2		5	5	28	44	14	62	44	61	45	48	50	56						1
GLASGOW NAROPA NIKITA	2021	ALEXANDER BBD BLADE	9.90	107	102	96	106	101	114	104	99	103	102	95	101	2	1				
		ALEXANDER BBD ANGEL 2		5	5	24	42	6	59	41	58	42	45	47	53						
BLADVA DIVA	2021	BLADVA SLATE	14.39	95	108	98	119	110	89	99	92	97	96	106	99						
		BLADVA LAVENDER		5	5	5	45	5	63	44	62	46	48	51	57						
HAZGO SHAKIRA	2022	ELEVATION MELMA RAGNAR	7.43	115	95	119	101	110	90	124	115	114	109	104	111	5	1				
		BOSSENDAL GAMORA		5	5	19	45	18	63	45	62	46	48	51	57						
ALEXANDER BBD KEENA	2022	DYNASTY RAFIKI	9.21	114	95	83	97	102	112	106	105	96	92	90	99	4	2	1			
		COMPADRE SANTANA		5	5	22	49	19	67	49	66	50	53	55	61						
GLASGOW BRENDA	2023	JOSMOT SPYKE	10.59	92	102	101	84	111	105	111	117	123	119	102	114	2	1	1			1
		GLASGOW WAKANDA		5	5	5	43	5	62	42	61	44	47	50	56						1
MOZ GLASGOW KATHRYN	2023	BOUWER DOLLAR	11.78	96	102	80	109	109	82	101	75	98	99	93	88						
		RST REVO X		5	5	5	40	5	60	39	59	41	44	47	53						
JOSMOT MISS MOZAMBIQUE	2023	BOSTU SEKHMET	14.01	96	114	95	91	112	98	112	102	113	121	107	109	1	1				
		JOSMOT ANGIE		5	5	21	43	8	61	42	60	44	46	49	55						
GLASGOW BITA	2024	DOSHER BOOKER	9.97	85	102	96	100	107	97	101	106	107	106	102	105	6	1				
		GLASGOW BRENDA		5	5	5	35	5	57	34	55	36	39	42	49						
GLASGOW LINDA	2025	GLASGOW BEAST	11.29	102	108	99	97	109	98	111	104	108	117	107	109						
		JOSMOT MISS MOZAMBIQUE		5	5	5	20	5	35	19	34	21	23	26	31						
GLASGOW BRANDY	2025	JOSMOT SPYKE	21.92	86	102	94	93	112	106		113	119	119	109	115						
		GLASGOW BITA		5	5	5	5	5	35		33	5	11	18	27						

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	
CABARET TYLO		TARGUS POCKET-MONEY 2 CABERET	16.20	79	102	98	65	89	89	102	94	88	85	84	84	90	17	30	5	2	23
	2011	CABARET BELINDA		5	5	55	72	50	82	72	82	73	74	76	79						
CABARET SON OF A GUN JNR		CABARET SON OF A GUN	16.92	90	100	77	90	100	70	94	96	90	100	103	94	3	2	2			1
	2014	CABARET KATHU		5	5	38	54	34	66	54	65	55	56	58	62						
ELEVATION MELMA RAGNAR		GROENBERG BBD RAMBO	17.31	125	97	89	126	135	90	137	118	127	134	125	129	33	10	12			2
	2018	ELEVATION ZIETA		16	33	43	61	43	73	61	72	62	63	65	69						
BLADVA SLATE		MES BUKA	7.49	102	113	88	111	105	96	92	91	102	95	106	98	17	2	7			
	2018	STEPHANO PENNY PINCHER		5	5	27	57	31	72	56	71	58	60	62	67						
MES HITLER BLAKE		MES MASCOT	13.12	78	100	91	101	121	98	125	119	126	134	114	123	37	6	18	1	1	8
	2018	MES SERABI		27	46	42	66	44	79	65	78	67	69	71	75						
BOUWER DOLLAR		TARGUS BOM BOEL	6.75	97	106	75	102	113	87	109	90	103	107	98	98	10	2	4			
	2019	BOUWER CHELSEA		5	5	32	48	26	58	47	58	48	50	51	55						
ALEXANDER BBD BLADE		LANDRE MAX	10.13	118	107	98	104	109	101	113	103	102	115	109	109	8	2	5			5
	2019	ELEVATION KELLY		5	5	25	55	27	70	54	69	55	58	60	65						
BOSTU SEKHMET		CABARET STRAAT-KAT	9.29	107	124	87	79	107	94	118	109	108	113	94	104	29	3	5	1	1	2
	2020	CDH MICCO		20	32	44	61	38	75	60	74	62	64	66	70						
DYNASTY RAFIKI		MIDDELPOS BBD GAMKA	14.72	125	109	93	96	121	103	115	115	118	103	93	109	42	5	14			4
	2021	JAMBAL ZAYA		5	5	32	63	38	76	62	76	63	65	68	72						
GLASGOW BEAST		ALEXANDER BBD BLADE	9.90	107	102	104	102	106	99	109	106	104	114	108	109	10	3	1			1
	2021	ALEXANDER BBD ANGEL 2		5	5	14	37	5	51	36	50	38	40	42	46						
JOSMOT SPYKE		MES HITLER BLAKE	9.37	86	103	92	87	118	114	116	120	131	133	116	125	56	12	15			4
	2021	JOSMOT KOOLKAT 2		5	5	22	55	28	72	54	71	56	59	61	66						
DOSHER BOOKER		GLASGOW BONZO	12.60	79	102	90	104	96	83	83	79	83	89	95	84	13	3	3			1
	2021	BOSTU SHENZI		5	5	5	37	5	53	36	52	37	40	42	47						

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	
ANDERSON BBD SHYLA	2012	MIDDELPOS BBD KHAN	3.13	76	66	95	83	88	103	78	100	89	79	65	82	12	3	3		3	
		RUCOR LIEBARA		23	22	58	57	37	71	57	70	58	60	62	66			3			
ALEXANDER BBD ANGEL 2	2016	KLEIN SANDFONTEIN BULLET	5.99	96	97	109	108	104	86	101	93	104	105	101	98	17	5	8		7	
		ALEXANDER BBD SASHA 1		5	5	47	53	29	66	52	66	53	55	58	62			5			
BLADVA LAVENDER	2019	ROKAFELA RICOCHET	18.06	87	102	107	107	117	74	116	107	102	102	99	103	14	3	5			
		BEST POCKA		5	5	24	54	21	71	53	70	55	57	60	66			5			
BOSSENDAL GAMORA	2019	KLEIN SANDFONTEIN BALTHAZAR BLAKE	5.05	104	93	149	101	95	112	101	111	109	92	102	105	24	5	6		2	
		MES SOPHIA		5	5	37	48	21	65	47	64	49	51	54	59			6			
COMPADRE SANTANA	2019	PLAASWAG UGOR	5.31	104	81	85	100	84	117	94	91	81	86	93	90	35	3	5		4	
		LA BOELA MILA		5	5	20	53	23	71	52	70	54	57	60	65			5			
GLASGOW QUEEN	2020	CABARET SON OF A GUN JNR	10.67	93	99	95	106	103	78	92	87	94	106	109	96	10	3	3		1	
		ALEXANDER BBD ANGEL 2		5	5	28	44	14	62	44	61	45	48	50	56			3			
JOSMOT KOOLKAT 2	2020	TARGUS BOM BOEL	7.35	94	106	103	90	104	102	92	92	109	107	107	101	23	2	7	1	1	
		TREBLA MINNIE		5	5	44	61	36	75	59	74	62	64	66	70			5			
GLASGOW WAKANDA	2020	BOSSENDAL BROCKIE	8.74	98	100	128	98	105	86	99	100	107	104	98	100	22	3	4		2	
		ALEXANDER BBD ANGEL 2		5	5	31	39	5	55	38	54	40	42	45	50			3			
JOSMOT ANGIE	2021	MES HITLER BLAKE	9.37	86	103	98	97	113	101	108	103	117	123	113	112	6		1		1	
		JOSMOT KOOLKAT 2		5	5	22	43	17	55	41	54	43	45	47	51			1			
RST REVO X	2022	GLASGOW BONZO	8.14	95	98	84	99	98	93	94	84	94	94	92	89	4	1	2			
		ALEXANDER BBD REVO		5	5	5	42	5	62	41	61	43	46	49	55			2			
HAZGO SHAKIRA	2022	ELEVATION MELMA RAGNAR	7.43	115	95	119	101	110	90	124	115	114	109	104	111	5	1				
		BOSSENDAL GAMORA		5	5	19	45	18	63	45	62	46	48	51	57						
ALEXANDER BBD KEENA	2022	DYNASTY RAFIKI	9.21	114	95	83	97	102	112	106	105	96	92	90	99	4	2	1			
		COMPADRE SANTANA		5	5	22	49	19	67	49	66	50	53	55	61			1			

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	
GLASGOW BRENDA	2023	JOSMOT SPYKE	10.59	92	102	101	84	111	105	111	117	123	119	102	114	2	1	1			1
		GLASGOW WAKANDA		5	5	5	43	5	62	42	61	44	47	50	56			1			1
JOSMOT MISS MOZAMBIQUE	2023	BOSTU SEKHMET	14.01	96	114	95	91	112	98	112	102	113	121	107	109	1	1				
		JOSMOT ANGIE		5	5	21	43	8	61	42	60	44	46	49	55						
GLASGOW BITA	2024	DOSHER BOOKER	9.97	85	102	96	100	107	97	101	106	107	106	102	105	6	1				
		GLASGOW BRENDA		5	5	5	35	5	57	34	55	36	39	42	49						

