

SUSSEX

BREEDING VALUE REPORT

September 2026



TRIPLE S STUD BOTSWANA

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The brand you need

 **LOGIX**

EBVs, EBVi's and GEBVs

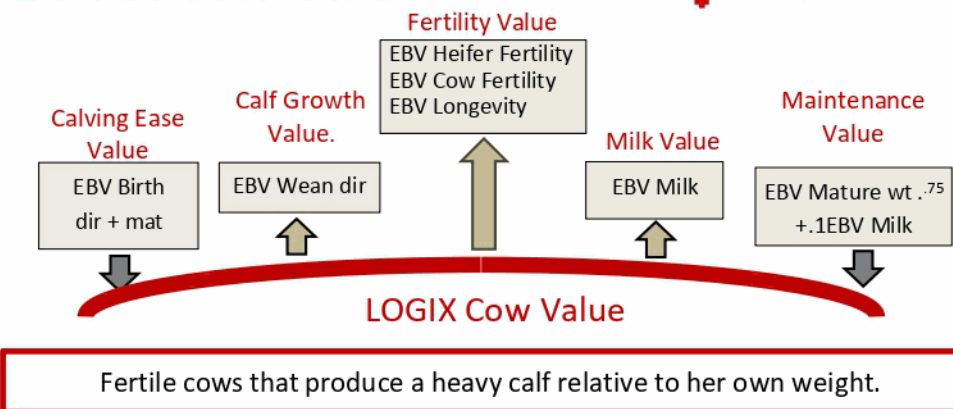
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

EBV (Breeding Value): Genetic potential relative to the average of the animals born in the base year (1990), expressed in the unit of measurement.

GEBV (Genomic Breeding Value) Interpreted like the EBVi. (GEBV = EBV + Genomic information)

LOGIX Selection values combine different breeding values in a logical way. For example, Heifer Fertility (how early a heifer starts calving), Cow Fertility (how regular she calves) and Longevity (retention within the family) are combined to form the Fertility Value.

LOGIX Cow Value



Selection Values

LOGIX Cow Value



Selecting for:

- fertile,
- low maintenance,
- easy calving cows
- with heavy weaners

LOGIX Growth Value



Select for efficient growers on veld and in feedlot, as measured in Phase C and D Growth Tests.

LOGIX Carcass Value



Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

- Selection Values 90 to 110
 - Cow Value and Fertility Value average to high
- A safe choice, as animals are profitable in most environments.

GROWERS

(GOOD ENVIRONMENT)

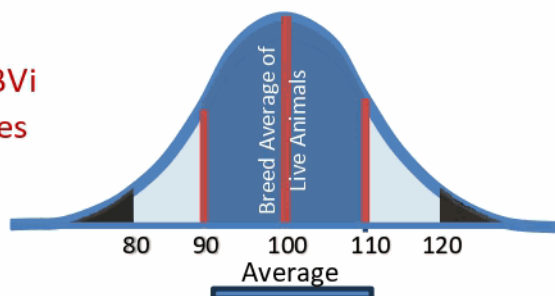
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

- Maintenance Value >110
 - Cow Value and Fertility Value average to high
- Lighter cows have a lower maintenance.

Interpretation of EBVi and Selection Values



Examples

Type of Animal	Cow Value	Calving Ease V	Weaner Calf V	Milk Value	Maint. Value	Fertility Value
Average	Med-High	Avg	Avg	Avg	Avg	Med-High
Grower	Med-High		High			Med-High
Low Maintenance	Med-High				High	Med-High

Contemporary Groups

The correct composition of contemporary groups is one of the cornerstones of BLUP breeding value estimation. Breeding values are estimated from the differences between animals exposed to the same environment, ***as these differences are caused by genetics***. The following aspects are important:

1. Animals at the same time, place and treatment

A contemporary group is a comparable group of animals measured at the same time in the same environment. It is therefore a comparable group of animals that were together on the same farm or camp in the same year and season. If there are animals in the group that were treated differently, they should be given a separate treatment code because their performance is influenced by other environmental influences than the rest of the group. Examples of possible different treatments are when some animals received supplements or creep feed, sale or show animals, embryo donors, sick or foster calves or even purchased cows and calves. If bull and heifer calves or older cows and young heifers were in the same camp, they should be placed in the same group – corrections for sex, age and first calving of cows are automatically made during breeding value estimation.

2. Progeny of at least two sires, of which one is a link sire

The progeny of different sires needs to be compared in the same group in order to determine the sires' genetic merit relative to each other. At least one sire should be a link sire with progeny in other herds. Genetic links between herds are used to determine the position of sires in the breed. All sires are good link sires. Smaller herds could artificially inseminate some cows or allow some cows to be covered by another herd's bull.

3. Larger groups stabilise Breeding Values

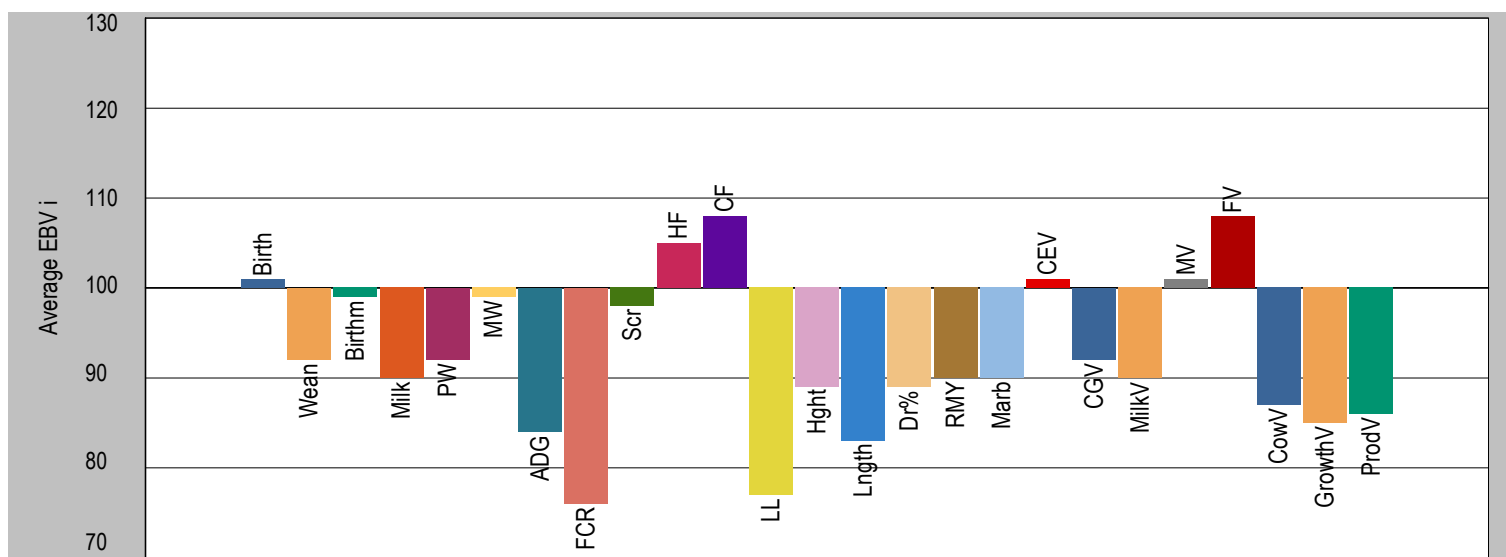
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for age differences are made during genetic evaluation. The use of breeding seasons rather than through the year calving will also increase contemporary group size. Groups with less than 3 animals are not included in breeding value estimation. An accidental mistake in a small group affects the animal itself, its family, all the other animals in the group and their families. The effect could be much less in large groups.

4. Measure all animals in the contemporary group

Weigh ALL the animals in the contemporary group, the good as well as the poor performers. Weigh animals before they are culled, so their parents can be penalized for their poor breeding.



Herd and Breed Averages



Breeding Values:

Birth:	Birth weight	Scr:	Scrotal circumf.
Wean:	Weaning weight	HF:	Heifer Fertility
Birthm:	Birth maternal	CF:	Cow Fertility
Milk:	Milk	LL:	Longevity
PW:	Post-wean weight	Hght:	Height
MW:	Mature weight	Lngth:	Length
ADG:	Average Daily Gain	Dr%:	Dressing%
FCR:	Feed Conversion Ratio	RMY:	Red Meat Yield
		Marb:	Marbling

Selection Values:

CEV:	Calving Ease Value
CGV:	Calf Growth Value
MilkV:	Milk Value
MV:	Maintenance Value
FV:	Fertility Value
CowV:	Cow Value (CV)
GrowthV:	Growth Value (GV)
ProdV:	Production Value (PV)

	Trait	EBV Herd	EBV Index	EBV Breed
Prewrite Growth	Birth Weight	1.01	101	1.09
	Wean Weight	11.5	92	15.4
	Birth Mat.	0.48	99	0.44
	Milk (Wn.Mat.)	3.0	90	6.2
Postwean Growth	Postwean Wt	22.8	92	29.9
	Mature Weight	25	99	26
	ADG	26	84	113
	FCR	-28	76	-90
Fertility	Scrotal Circumf.	12.7	98	13.7
	Heifer Fertility	-5.2	105	-1.5
	Cow Fertility	-7.6	108	-5.8
	Longevity	8.7	77	24.9
Frame	Height	11	89	19
	Length	10	83	32
Carcass	Dressing%	-0.34	89	-0.05
	RedMeatYield	-2.7	90	0.4
	Marbling	-1.53	90	-0.65

Selection Value	Ave. Herd
Calving Ease	101
Calf Growth	92
Milk	90
Maintenance	101
Fertility	108
Cow Value	87
Growth Value	85
Production Value	86

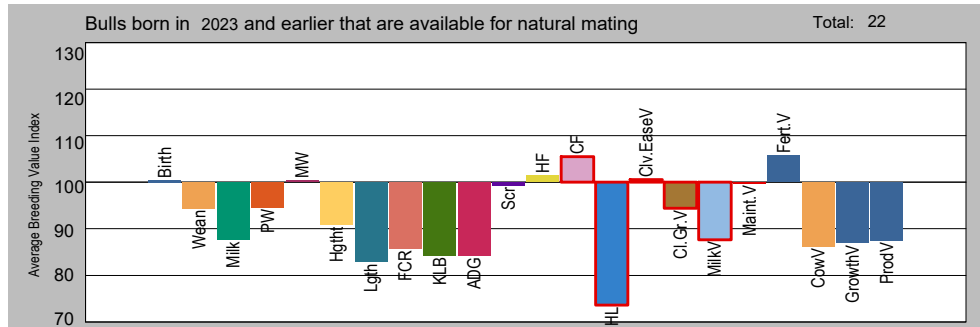
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

What does a sub-selection value above breed average (100) mean?:

Calving ease:	Smaller calf at birth - easier calving
Calf growth:	Heavier calves at wean due to growth potential of the calf
Milk:	Cows with more milk and better mothering ability
Maintenance:	Animals with low maintenance requirements (lower mature weight).
Fertility:	Cows/daughters that calve

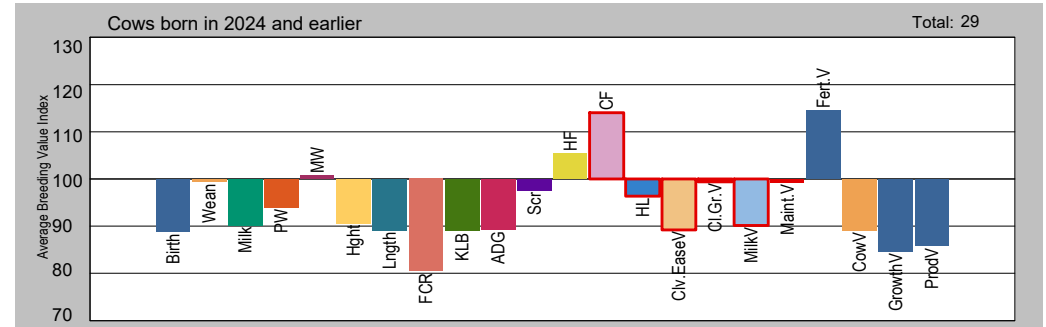
Genetic Windows

Bulls on the farm



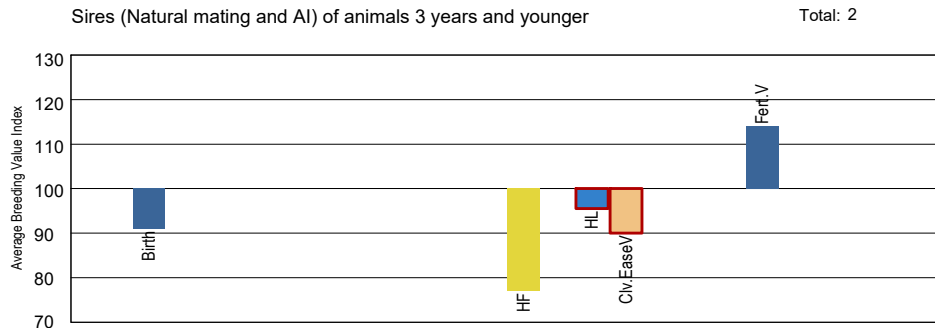
Animals available for breeding

Cow Herd

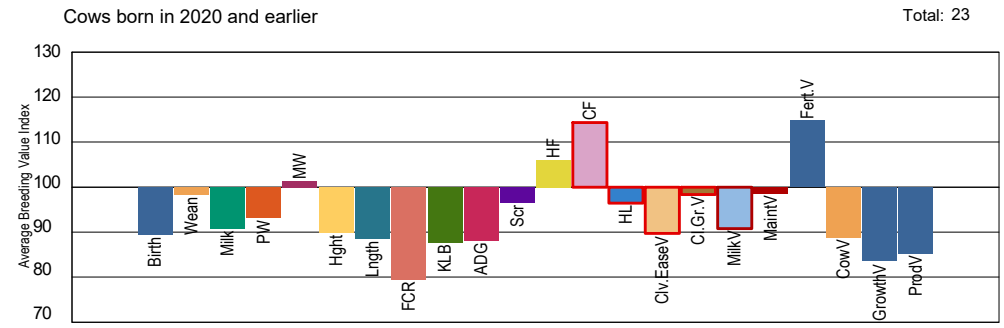


Results of previous selection decisions

Sires of young animals

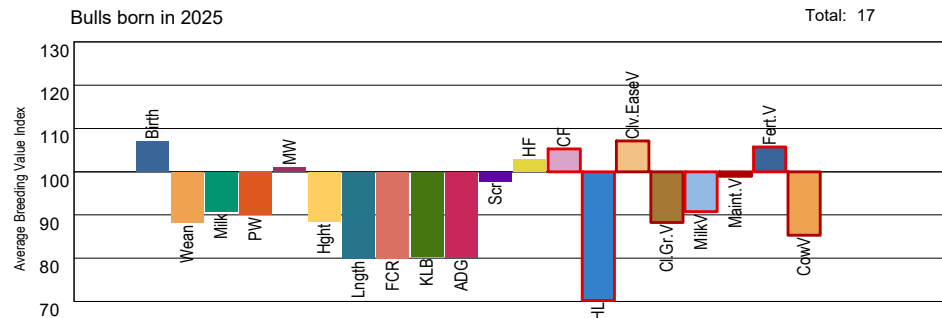


Cows older than 6 years

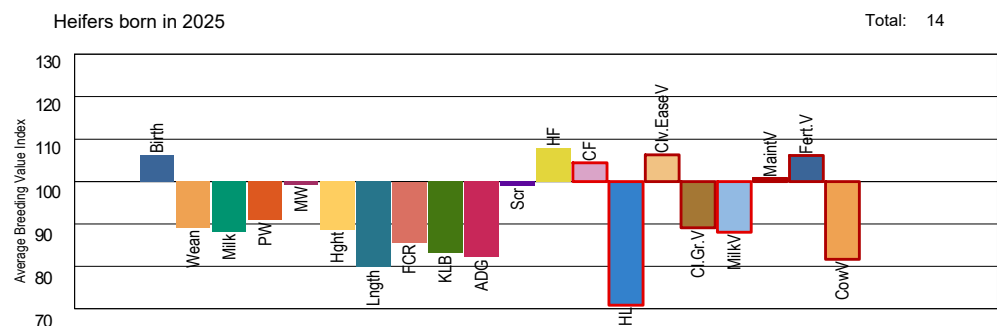


Selection possibilities

Bull calves



Heifer calves

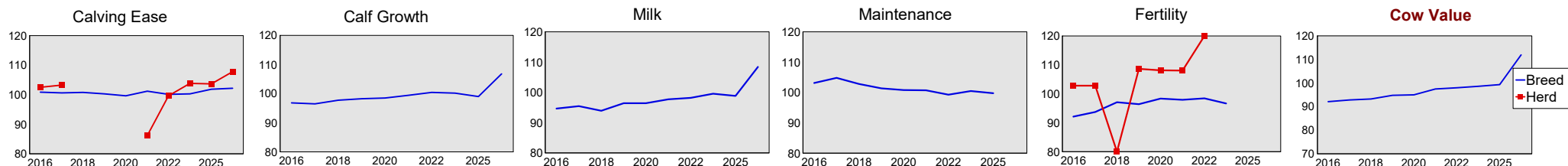


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame	
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:									100	100	100	100	100	100	99	99	99	100	100	100	99
2014	2	★★★☆☆	96	87	89	107	118	83	80	80	95	87	107	89	82	93	81	82	85	113	116	94	81	82
2015	3	★★★☆☆	101	88	92	109	113	89	88	87	100	88	105	92	85	91	86	87	80	113	111	92	84	85
2016	2	★★★☆☆	95	91	88	102	117	84	84	82	95	91	108	88	85	99	89	89	90	95	121	91	89	88
2017	4	★★★☆☆	87	101	88	94	115	88	82	84	87	101	109	88	95	106	87	85	99	96	117	95	91	90
2018	3	★★★☆☆	102	84	98	107	87	82	76	78	102	84	98	98	82	93	80	80	100	96	87	101	76	79
2019	6	★★★★	82	110	89	89	117	95	88	91	82	110	109	89	104	111	95	94	103	111	116	99	98	94
2020	4	★★★★	84	104	93	93	124	94	84	91	84	104	107	93	97	108	89	87	105	111	123	99	94	90
2021	4	★★★☆☆	86	104	86	107	111	89	93	89	86	104	110	86	98	93	96	97	102	108	110	98	93	92
2022	8	★★★☆☆	106	92	90	98	107	87	81	90	105	92	97	90	92	102	85	85	98	103	107	73	90	83
2023	5	★★★	106	89	87	101	111	79			106	89	96	87	90	100	83	84	95	106	109	68	88	79
2024	13	★★★☆☆	106	88	89	101	107	86			106	88	96	89	90	99	80	81	97	102	105	71	88	81
2025	14	★★★☆☆	106	89	88	101	106	82			106	89	95	88	91	99	82	83	99	108	104	71	89	80
2026	1		85	102	96		120				85	102	105	96	95		81	77	106	98	123	102	93	88
Cows in Herd Average:			96	95	90	101	112	87	84	86	95	95	103	90	91	100	86	85	97	105	111	89	89	85

Genetic Trends for On-Farm Traits

The graphs show the genetic gain of the herd relative to the breed. Only data of animals with measurements are included.



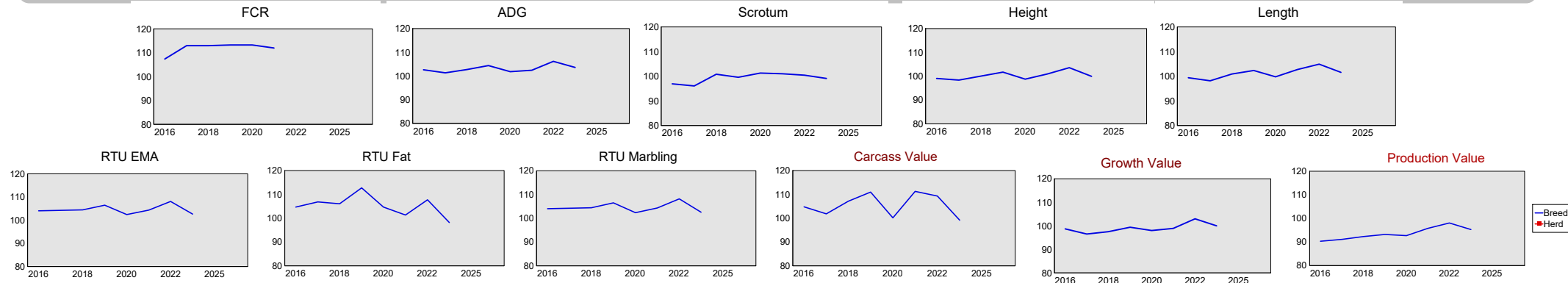
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance				Fertility						Cow Value
	Birth Weight		Calv. Ease	Calf Growth	Weaning Weight		Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Heifer Fert.		Cow Fert.		Longevity		Ferti- lity	
	Number	Dir EBV			Mat EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number		
2016	2	0.90	0.50	103									5	1.9	3	-8.3	7	12.7	103	
2017	5	0.82	0.51	103									9	6.1	4	-9.8	15	10.9	103	
2018													1	-6.6	1	0.8	1	27.9	76	
2019													16	1.8	7	-9.7	16	16.3	109	
2020													13	4.2	4	-11.1	13	13.8	108	
2021	5	2.35	0.16	86									14	-0.5	6	-7.0	15	16.2	108	
2022	11	1.13	0.46	100									1	-10.6			4	9.3	124	
2023	6	0.75	0.64	104																
2025	6	0.75	0.64	104																
2026	5	0.39	0.66	108																

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility						Cow Value			
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity			Ferti-lity		
	Number	Dir EBV			Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV			Number	EBV
2016	1955	1.03	0.37	101	1392	13.8	97	1392	4.56	95	1016	27.2	155	24	103	490	1.9	379	-4.2	1999	17.9	92	92	
2017	2176	1.04	0.42	101	1503	13.7	97	1503	4.83	95	1143	26.9	231	21	105	589	1.5	426	-4.4	2201	18.1	94	93	
2018	2151	1.03	0.34	101	1437	14.3	98	1437	4.35	94	1018	28.3	233	23	103	512	-0.1	390	-5.4	2143	17.4	97	93	
2019	2032	1.08	0.35	100	1356	14.5	98	1356	5.11	96	967	28.6	173	26	101	519	0.5	353	-5.2	2109	18.7	96	95	
2020	2209	1.13	0.42	100	1596	14.7	99	1596	5.13	96	1107	28.3	226	27	101	587	-0.5	403	-5.6	2251	18.7	98	95	
2021	2344	1.00	0.39	101	1733	15.1	99	1733	5.53	98	1384	29.5	220	25	101	696	-0.1	414	-5.4	2145	19.1	98	98	
2022	2141	1.10	0.38	100	1549	15.6	100	1549	5.68	98	1124	30.7	148	25	99	479	1.6	92	-5.9	898	19.9	98	98	
2023	2136	1.05	0.46	100	1634	15.5	100	1634	6.11	100	1211	29.9	17	26	100	237	0.4	3	-6.6			97	99	
2024	2177	1.09	0.46	100	1492	16.2	102	1491	6.17	100	992	31.7			99	22	-3.8					95	101	
2025	2001	0.91	0.46	102	1255	14.9	99	1255	5.87	99	218	32.9			100								99	99
2026	686	0.88	0.57	102	27	18.8	107	27	8.86	108													112	

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			EMA			Fat		Marbling		Carcass Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			
2017																									
2018																									
2019																									
2020																									
2021																									
2022																									
2023																									
2025																									
2026																									

Breed

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi					
2017	4	-123	113	264	120	101	263	11.8	96	264	18	98	264	30	98	51	-0.06	102	1.13	107	-0.29	104	102	96	91
2018	3	-124	113	218	128	103	218	14.1	101	218	19	100	218	33	101	39	0.53	107	1.02	106	-0.27	104	107	98	92
2019	10	-124	113	147	137	104	147	13.5	100	147	20	102	147	35	102	28	0.60	108	1.85	113	-0.09	106	111	99	93
2020	7	-123	113	182	123	102	182	14.3	101	182	18	99	182	32	100	49	-0.11	102	0.85	105	-0.45	102	100	98	93
2021	3	-120	112	253	127	102	253	14.2	101	253	20	101	253	36	103	27	0.70	108	0.45	101	-0.28	104	111	99	96
2022				221	146	106	221	13.9	100	221	22	104	221	38	105	48	0.94	111	1.23	108	0.05	108	109	103	98
2023				241	133	104	241	13.2	99	241	19	100	241	34	102	94	-0.31	100	0.07	98	-0.43	103	99	100	95
2024				154	148	106	166	13.8	100	132	20	102	132	37	104									103	98
2025																									
2026																									

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny			
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.	
	Name																													
18-0112SSS	1ST 134-12		90				114				91		98							78		87								
	ST BLAIZE SIR BRUMBY 112-18		32				20				1.91		0.52							16.5		15.9								
											32		36							39		30								
18 TH	GA 090125 117																					77								
	HUNTERS VLEI KIMBERLEY 18TH																					8.6								
																						23								
20-0131SSS	36-15 93-15												101							76		104								
	ST BLAIZE SIR 131-20 20 0131sss												0.40							18.0		28.0								
													5							6		28								
36-15			92				114				92		100							77		96								
	ST BLAIZE SIR HORATIO 36-15		8				6				1.79		0.42							17.2		21.8								
											8		10							11		31								
GA 090103	TL 990075 GA 020076		95	91	75	109	114	78	85	77	94	91	115	75	86	91	92	96	83	102	115	86	87	86						
	COLARADO 44TH		78	75	61	46	60	62	44	58	1.63	10.7	-0.20	-1.4	17.5	16	73	-79	5.4	-3.4	-9.3	14.9	9	15						
											79	75	67	61	70	46	68	15	75	71	49	75	76	74						
GA 100031	TL 020057 GA 070310		97	90	98	104	102	88	96	88	96	90	103	98	88	96	89	72	77	113	98	95	82	89	85	105	105		1	
	BLUE DIAMOND 46TH		76	74	60	38	54	57	51	56	1.41	10.3	0.32	5.7	19.7	21	54	-18	2.6	-11.7	-5.3	21.6	6	18	-2.08	0.90	-0.22			
											77	74	61	60	67	38	65	30	73	64	45	67	74	71	23	17	19			
GA 100048	TL 020057 GA 070016		75	130	78	85	108	101	107	100	75	130	118	78	126	115	114	108	117	101	108	93	112	113	113	117	111		21	20
	BLUE DIAMOND 52ND		90	89	82	38	68	70	59	68	3.37	30.4	-0.32	-0.7	52.6	42	185	-110	22.1	-2.2	-7.7	19.6	28	49	1.19	2.34	0.31	8	7	35
											91	89	82	82	80	38	77	35	84	79	57	84	85	83	39	33	32			
GA 100164	LET 050026 GA 010008		124	70	114	111	64	86	72	80	124	70	90	114	74	89	80		66	89	65	77	70	79				1		
	GA100164		73	71	48	29	44	49	35	46	-1.05	0.6	0.88	10.5	7.1	14	6		-2.9	7.6	2.7	8.7	-3	5						
											75	71	50	48	62	29	60		70	56	32	61	72	68						
GA 120025	JA 040031 GA 090130		113	71	108	120	79	83	73	78	113	71	89	108	74	80	78	68	95	101	77	97	64	73	73			6		
	GALAXY 19TH		80	73	56	36	48	54	50	53	-0.07	0.9	0.92	8.9	7.4	5	-5	-9	11.4	-2.0	-0.3	22.7	-8	-2	-3.62					
											82	73	59	56	67	36	62	31	71	58	37	68	72	69	11					
JRE 150094	GA 100048 JRE 110055		73	128	85	79	112	101	103	100	71	128	110	85	123	121	115	124	112	107	111	88	113	103	119	102	114		6	
	LION 8TH		78	74	57	31	52	55	43	53	3.68	29.4	0.01	1.5	49.8	48	194	-150	19.7	-7.4	-8.4	16.4	29	36	1.91	0.51	0.60			
											80	74	60	57	60	31	63	15	72	65	39	70	74	71	58	51	50			
OMALY	ASHTON 98												101							75		78								
	ST BLAIZE SIR OMALY												0.39							18.6		9.0								
													5							5		35								

Sires

Bull		Selection Values										Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID	Name	Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	FCR	Scrotal	Heifer	Cow	Long-evi	Height	Length	EMA	Fat	Marbling	Birth	Wean
					Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty			Grwth	Dgt/Calvs.		
TZ 140138		TZ 110062			89	99	80	124	91	85	103	87	88	99	112	80	94	76	106		107	95	91	76	91	93					3
		TZ 080200			76	74	59	35	50	55	36	51	2.14	15.0	-0.07	-0.1	25.0	1	146		17.2	2.8	-3.7	7.9	12	24					
AUSTIN 14DE					76	74	59	35	50	55	36	51	78	74	58	59	62	35	65		73	65	34	70	75	71					

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
SH7 200018 96222294 SH7 200018		JRE 150094 SH7 110021	82 39	107 37	94 29	86 16	111 26	92 28	81 22	88 27	92 28	82 2.70 40	106 0.19 30	114 41 16	107 18.8 37	94 4.4 29	96 65 27	100 29.8 30	88 48 32	92 -71 8	107 16.9 36	89 7.4 34	115 -9.5 19	84 13.7 42	97 17 37	90 20 35	-1.50 29	81 -2.10 26	88 -1.68 25
SH7 200020 96222328 SH7 200020	13	JRE 150094 SH7 150029	77 43	118 41	88 29		113 24				103 6	77 3.11 44	110 0.02 30		118 24.4 41	88 2.4 29		112 40.5 30	101 119 31		111 18.9 38	102 -2.8 38	114 -9.0 9	90 18.1 42	105 22 40	99 31 37	103 0.02 11		
SH7 220009 6020138118 SH7 220009	5	JRE 150094 SH7 140058	83 65	107 44	81 36	97 16	114 32	89 33	93 21	87 31	100 18	82 2.66 67	110 0.00 40	103 29 16	107 19.1 44	81 0.3 36	90 52 32	103 32.1 36	102 122 37		96 11.8 42	111 -10.5 42	112 -8.7 21	89 16.8 46	97 17 43	92 21 41	101 -0.18 21	101 0.41 14	108 0.07 13
SH7 220025 6020138530 SH7 220025		SH7 190050	102 58	93 20	91 16	94 7	113 20				86 12	103 0.85 61	94 0.68 26	106 32 7	93 12.1 20	91 3.4 16	86 43 14	95 25.6 16	84 29 17		100 13.5 20	115 -13.7 26	110 -8.1 15	72 4.9 25	92 13 20	82 9 19	87 -1.95 13	93 -0.60 10	92 -1.34 10
SH7 220026 6020138704 SH7 220026		SH7 190040	93 59	100 22	87 20	94 10	112 22	88 20			84 9	94 1.66 61	95 0.66 29	106 32 10	100 15.2 22	87 2.3 20	88 48 17	99 29.1 20	80 7 19	85 -50 9	104 15.6 21	107 -6.9 27	111 -8.4 18	72 5.0 27	91 12 21	83 10 21	82 -2.49 10	91 -0.84 8	86 -1.88 8
SH7 220048 96172077 SH7 220048		SH7 170029	110 21	83 19	89 15	100 12	107 21					109 0.28 21	97 0.55 19	100 25 12	83 6.8 19	89 2.7 15	78 25 15	84 15.7 18	75 -21 17		95 11.4 19	102 -3.0 26	107 -7.5 16	69 3.1 26	85 8 19	76 2 18			
SH7 220063 96172382 SH7 220063		SH7 100049	109 8				101 12					109 0.30 8	94 0.69 9								93 4.5 16	103 -6.6 8	65 0.4 23						
SH7 230001 96190954 SH7 230001		SH7 180026	117 14	82 13	86 12	104 8	106 12					117 -0.40 14	91 0.83 12	96 21 8	82 6.3 13	86 1.9 12	77 22 11	87 19.0 12	79 1 11		95 11.5 12	109 -9.1 15	104 -6.8 10	64 -0.6 22	87 9 12	75 0 12			
SH7 230007 96172101 SH7 230007		SH7 160023	103 30	94 29	84 25	105 11	97 24	86 23			86 7	103 0.85 30	98 0.54 26	95 21 11	94 12.6 29	84 1.3 25	85 41 22	96 26.5 24	84 31 22	90 -64 8	100 13.8 24	111 -10.4 29	94 -4.3 20	72 5.1 30	90 11 25	83 10 24	87 -1.87 8	100 0.28 6	95 -1.08 6
SH7 230009 96172267 SH7 230009		GA 080128	114 38	79 36	87 27	128 15	84 24	81 26				114 -0.13 39	93 0.75 30	72 -3 15	79 5.0 36	87 2.1 27	83 37 26	82 14.3 28	74 -23 21	77 -31 6	87 7.4 24	98 0.0 32	83 -1.6 17	62 -2.1 32	79 3 24	72 -3 23			
SH7 230032 6020138332 SH7 230032		SH7 170005	101 59	94 22	90 20	94 10	109 22	88 20			84 9	101 0.98 62	95 0.66 28	106 32 10	94 12.6 22	90 3.2 20	86 44 17	95 26.0 20	80 7 19	85 -50 9	104 15.6 21	100 -1.8 26	110 -8.1 18	73 5.7 28	91 12 21	83 10 21	82 -2.49 10	91 -0.84 8	86 -1.88 8
SH7 230041 6020138720 SH7 230041		SH7 170015	100 60	92 26	84 23	99 15	101 24	81 23				100 1.10 63	95 0.66 28	101 27 15	92 11.4 26	84 1.3 23	82 33 21	93 24.3 24	85 31 22		92 9.9 24	98 0.4 29	102 -6.2 18	70 3.5 28	88 10 24	80 6 23			

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ID Number Name																														
SH7 230042 6020526882 SH7 230042				110 59	89 22	91 20	94 10	104 22	87 20			84 9	109 0.25 62	98 0.50 25	106 32 10	89 10.0 22	91 3.4 20	83 36 17	91 22.3 20	80 7 19	85 -50 9	104 15.6 21	101 -2.7 27	104 -6.7 18	72 5.0 28	91 12 21	83 10 21	82 -2.49 10	91 -0.84 8	86 -1.88 8
SH7 230043 6020138548 SH7 230043				107 60	89 29	87 26	101 13	102 22	84 24				107 0.46 63	91 0.82 30	99 25 13	89 9.9 29	87 2.1 26	82 33 23	92 23.2 25	83 22 23	86 -55 6	96 11.9 25	112 -11.2 26	99 -5.4 17	72 5.0 30	88 10 25	80 7 25			
SH7 240001 6020137409 SH7 240001				103 25	95 22	88 18	96 8	103 20				89 10	103 0.83 25	97 0.59 21	104 29 8	95 12.9 22	88 2.5 18	86 43 16	97 27.4 18	89 53 18		95 11.2 21	114 -12.8 27	100 -5.7 12	70 3.4 26	93 14 21	83 10 20	92 -1.34 12	97 -0.07 9	97 -0.93 9
SH7 240003 6020138712 SH7 240003				113 24	78 18	97 14	103 9	98 14					113 -0.07 24	89 0.89 21	97 23 9	78 4.6 18	97 5.4 14	82 35 14	81 13.6 17	71 -40 16	73 -21 8	98 12.9 18	97 1.3 17	99 -5.5 10	72 5.2 26	80 4 18	73 -2 17			
SH7 240004 6020138563 SH7 240004				110 21	83 19	89 15	100 12	107 21					109 0.28 21	97 0.55 19	100 25 12	83 6.8 19	89 2.7 15	78 25 15	84 15.7 18	75 -21 17		95 11.4 19	102 -3.0 26	107 -7.5 16	69 3.1 26	85 8 19	76 2 18			
SH7 240007 6020239890 SH7 240007				112 29	83 23	89 19	104 9	88 20					112 0.03 29	92 0.77 27	96 22 9	83 7.2 23	89 2.9 19	81 31 17	88 19.4 20	81 15 19		100 13.7 21	107 -6.8 25	85 -2.1 15	74 6.8 27	82 6 22	77 3 21			
SH7 240008 6020138753 SH7 240008				113 11	86 11	89 10	97 5	103 12					113 -0.11 11	90 0.84 10	103 29 5	86 8.3 11	89 2.9 10	80 29 9	90 21.7 10	77 -11 10		101 14.3 10	104 -4.8 14	102 -6.2 9	63 -1.3 22	89 11 11	76 2 10	80 -2.80 5		
SH7 240011 6020138068 SH7 240011				105 22	87 16			106 16					105 0.68 22	97 0.58 18		87 8.8 16			88 19.7 10	83 22 8		90 8.9 14	108 -8.1 25	104 -6.8 7	72 4.9 23	87 9 15	78 4 13			
SH7 240015 6020138746 SH7 240015				106 19	83 18	95 14	94 8	109 13			78 6	106 0.59 19	102 0.36 14	106 32 8	83 7.0 18	95 4.7 14	82 33 13	80 12.7 14	73 -32 11		96 12.0 13	93 4.2 16	112 -8.7 10	70 4.0 19	86 9 13	82 9 13	75 -3.31 6	77 -2.53 5	79 -2.45 5	
SH7 240021 6020137458 SH7 240021				108 22	86 21	86 16	106 8	107 19					107 0.43 22	98 0.54 17	94 19 8	86 8.3 21	86 2.0 16	81 31 15	87 18.7 18	82 19 18		99 13.3 20	109 -8.6 26	105 -7.0 12	70 3.6 23	87 9 21	79 5 20			
SH7 240023 6020213903 SH7 240023				102 25	93 20	91 16	94 7	111 20			86 12	102 0.88 25	94 0.70 23	106 32 7	93 12.2 20	91 3.5 16	86 44 14	95 25.8 16	84 29 17		100 13.5 20	111 -10.4 26	109 -8.0 13	72 5.4 24	92 13 20	82 9 19	87 -1.95 13	93 -0.60 10	92 -1.34 10	
SH7 240025 6020138076 SH7 240025				105 25	91 18	90 14	93 8	110 18			83 14	105 0.67 25	98 0.51 23	107 33 8	91 11.1 18	90 3.2 14	84 37 13	92 23.1 15	80 10 16		103 15.0 18	105 -5.5 24	109 -7.9 13	73 6.0 24	92 13 18	80 7 18	84 -2.30 15	87 -1.30 13	87 -1.81 12	

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Index EBV Acc	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
SH7 240029 6020137417 SH7 240029		SH7 200005		95 23	94 18	95 14	91 8	109 12				82 14	95 1.51 23	100 0.45 22	109 35 8	94 12.6 18	95 4.7 14	89 50 13	91 21.9 15	77 -8 16		103 15.2 18	91 5.8 16	113 -8.8 9	75 6.9 23	90 12 18	82 9 18	80 -2.76 15	79 -2.35 13	81 -2.32 12
SH7 240030 6020138134 SH7 240030		SH7 190044		101 23	99 22	85 16		102 18					101 1.04 24	98 0.52 17		99 14.9 22	85 1.7 16		101 30.7 16	90 61 16		102 14.8 20	108 -8.2 26	99 -5.6 10	72 5.2 26	96 16 21	85 13 19			
SH7 240034 6020213879 SH7 240034		SH7 200047		100 23	94 18	93 14	93 8	115 18				83 14	101 1.01 23	92 0.78 22	107 33 8	94 12.2 18	93 3.9 14	87 45 13	94 25.1 15	80 10 16		103 15.0 18	110 -9.9 24	114 -9.1 13	70 3.8 24	92 13 18	80 7 18	84 -2.30 15	87 -1.30 13	87 -1.81 12
SH7 240035 6020138043 SH7 240035		SH7 140028		112 28	84 26	94 23	101 14	100 19	86 21				112 0.01 28	92 0.78 24	99 25 14	84 7.4 26	94 4.4 23	84 37 21	88 19.4 22	87 46 21		94 10.8 23	100 -1.6 23	100 -5.8 15	68 2.5 28	90 12 24	82 10 23			
SH7 250006 6020138761 SH7 250006		SH7 180026		117 14	82 13	86 12	104 8	106 12					117 -0.40 14	91 0.83 12	96 21 8	82 6.3 13	86 1.9 12	77 22 11	87 19.0 12	79 1 11		95 11.5 12	109 -9.1 15	104 -6.8 10	64 -0.6 22	87 9 12	75 0 12			
SH7 250008 6020138555 SH7 250008		SH7 150013		109 32	87 26	89 23	104 14	106 24	86 23				109 0.32 32	96 0.61 32	96 22 14	87 8.8 26	89 2.9 23	83 36 21	89 20.5 22	83 23 21		84 6.1 23	116 -14.3 30	102 -6.3 18	69 3.0 30	87 9 23	79 6 22			
SH7 250010 6020138811 SH7 250010		SH7 180010		113 24	78 18	97 14	103 9	98 14					113 -0.07 24	89 0.89 21	97 23 9	78 4.6 18	97 5.4 14	82 35 14	81 13.6 17	71 -40 16	73 -21 8	98 12.9 18	97 1.3 17	99 -5.5 10	72 5.2 26	80 4 18	73 -2 17			
SH7 250016 6020138571 SH7 250016		SH7 150059		111 28	85 27	83 24	109 17	114 24	84 23				110 0.19 28	98 0.54 25	91 17 17	85 8.0 27	83 1.0 24	79 26 23	88 19.5 24	84 30 22		92 10.0 24	112 -11.2 29	111 -8.5 19	72 5.1 30	88 10 24	80 7 24			
SH7 250023 6020138860 SH7 250023		SH7 180028		108 25	91 24	91 21	96 10	94 19				85 8	108 0.41 25	96 0.62 21	104 29 10	91 10.9 24	91 3.4 21	85 41 18	94 24.4 22	82 20 20	88 -58 8	99 13.5 22	99 -0.5 23	94 -4.3 15	69 2.8 28	90 11 23	83 10 22	85 -2.13 9	95 -0.34 7	91 -1.45 7
SH7 250026 6020527468 SH7 250026		SH7 190024		105 26	92 22	89 20	94 10	104 22				84 9	105 0.68 26	99 0.49 25	106 32 10	92 11.6 22	89 2.8 20	84 38 17	93 24.3 20	80 7 19	85 -50 9	104 15.6 21	101 -2.7 27	104 -6.7 18	72 5.0 28	91 12 21	83 10 21	82 -2.49 10	91 -0.84 8	86 -1.88 8
SH7 250027 6020213283 SH7 250027		SH7 210001		107 20	85 19	90 15	104 9	105 18					107 0.47 20	95 0.63 14	96 22 9	85 8.1 19	90 3.2 15	83 35 14	86 18.0 16	78 -2 16		101 14.4 18	102 -2.8 25	105 -6.9 12	70 3.8 24	86 9 19	78 4 18			
SH7 250031 6020138803 SH7 250031		SH7 170005		102 28	94 22	90 20	94 10	109 22				84 9	102 0.89 28	95 0.66 28	106 32 10	94 12.3 22	90 3.3 20	86 43 17	95 25.6 20	80 7 19	85 -50 9	104 15.6 21	100 -1.8 26	110 -8.1 18	73 5.7 28	91 12 21	83 10 21	82 -2.49 10	91 -0.84 8	86 -1.88 8

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ID Number Name																																
SH7 250032 6020526734 SH7 250032		SH7 220004		104 31	91 18	92 14	93 8	111 17				83 14	104 0.70 32	96 0.62 17	107 33 8	91 11.2 18	92 3.6 14	85 40 13	92 23.4 15	80 10 16				103 15.0 18	109 -8.8 24	110 -8.1 10	73 6.0 23	92 13 18	80 7 18	84 -2.30 15	87 -1.30 13	87 -1.81 12
SH7 250034 6020138183 SH7 250034		SH7 190044		101 23	99 22	85 16		102 18					101 1.04 24	98 0.52 17		99 14.9 22	85 1.7 16		101 30.7 16	90 61 16				102 14.8 20	108 -8.2 26	99 -5.6 10	72 5.2 26	96 16 21	85 13 19			
SH7 250035 6020138787 SH7 250035		SH7 140021		109 24	83 18	95 15	99 10	109 20			78 5	109 0.26 24	94 0.71 23	101 27 10	83 6.8 18	95 4.6 15	83 35 14	84 16.5 17	74 -25 16	74 -23 8	94 10.7 18	108 -8.2 27	107 -7.5 14	71 4.5 27	84 7 19	77 2 18	75 -3.30 6		84 -2.01 5			
SH7 250036 6020138142 SH7 250036		SH7 190043		109 19	83 18	95 15	99 10	103 14			78 5	109 0.29 19	93 0.73 15	101 27 10	83 6.9 18	95 4.6 15	83 36 14	85 16.7 17	74 -25 16	74 -23 8	94 10.7 18	100 -1.7 16	103 -6.6 11	70 3.6 25	84 7 19	77 2 18	75 -3.30 6		84 -2.01 5			
SH7 250037 6020138084 SH7 250037		SH7 140028		112 28	84 26	94 23	101 14	100 19	86 21			112 0.01 28	92 0.78 24	99 25 14	84 7.4 26	94 4.4 23	84 37 21	88 19.4 22	87 46 21		94 10.8 23	100 -1.6 23	100 -5.8 15	68 2.5 28	90 12 24	82 10 23						
SH7 250038 6020213911 SH7 250038		SH7 200043		99 60	96 20	90 16	94 7	111 20	86 12			99 1.18 63	94 0.69 23	106 32 7	96 13.3 20	90 3.1 16	87 46 14	97 27.2 16	84 29 17		100 13.5 20	111 -10.4 26	109 -8.0 13	72 5.4 24	92 13 20	82 9 19	87 -1.95 13	93 -0.60 10	92 -1.34 10			
SH7 250039 6020138464 SH7 250039		SH7 170024		112 60				104 6				112 0.04 63	95 0.66 24									88 8.2 11		67 1.5 22								
SH7 250047 6020138175 SH7 250047		SH7 200005		96 60	94 18	95 14	91 8	109 12	82 14			96 1.43 63	100 0.46 22	109 35 8	94 12.3 18	95 4.8 14	89 49 13	90 21.5 15	77 -8 16		103 15.2 18	91 5.8 16	113 -8.8 9	75 6.9 23	90 12 18	82 9 18	80 -2.76 15	79 -2.35 13	81 -2.32 12			
SH7 260002 6020213770 SH7 260002		SH7 170032		105 25	92 22	89 20	94 10	110 23	88 20		84 9	105 0.68 25	99 0.50 23	106 32 10	92 11.6 22	89 2.8 20	84 38 17	94 24.3 20	80 7 19	85 -50 9	104 15.6 21	106 -6.2 28	110 -8.1 18	67 1.4 28	91 12 21	83 10 21	82 -2.49 10	91 -0.84 8	86 -1.88 8			
SH7 260003 6020519960 SH7 260003		SH7 190040		104 59	92 22	91 20	94 10	112 22	89 20		84 9	104 0.72 61	94 0.68 29	106 32 10	92 11.6 22	91 3.6 20	86 43 17	94 24.8 20	80 7 19	85 -50 9	104 15.6 21	107 -6.9 27	111 -8.4 18	72 5.0 27	91 12 21	83 10 21	82 -2.49 10	91 -0.84 8	86 -1.88 8			
SH7 260009 6020519978 SH7 260009		SH7 180010		111 56	79 18	97 14	103 9	98 14				112 0.06 59	89 0.88 21	97 23 9	79 5.1 18	97 5.2 14	83 36 14	82 14.2 17	71 -40 16	73 -21 8	98 12.9 18	97 1.3 17	99 -5.5 10	72 5.2 26	80 4 18	73 -2 17						
SH7 260010 6020520133 SH7 260010		SH7 150013		111 62	85 26	90 23	104 14	106 24	86 23			111 0.16 65	96 0.61 32	96 22 14	85 8.2 26	90 3.1 23	82 35 21	88 19.8 22	83 23 21		84 6.1 23	116 -14.3 30	102 -6.3 18	69 3.0 30	87 9 23	79 6 22						

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ID Number Name																														
SH7 260011 6020520125 SH7 260011		SH7 160014	113 55	80 19	90 15	100 12	110 22					113 -0.03 58	97 0.56 21	100 25 12	80 5.7 19	90 3.1 15	78 24 15	82 14.3 18	75 -21 17		95 11.4 19	99 -0.4 28	111 -8.4 17	65 0.5 27	85 8 19	76 2 18				
SH7 260012 6020529704 SH7 260012		SH7 190011	100 56	90 16			106 16					101 1.05 59	97 0.57 18		90 10.2 16			90 21.4 10	83 22 8		90 8.9 14	108 -8.1 25	104 -6.8 7	72 4.9 23	87 9 15	78 4 13				

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SH7 140021 91507921 140021		GA 100031 SH7 050018	96 48	87 37	101 30	99 19	119 41	89 34	78 26	84 32	81 10	95 1.51 48	103 0.31 46	101 27 19	87 9.1 37	101 6.4 30	90 53 29	82 14.4 34	74 -22 33	62 7 15	89 8.4 36	110 -9.4 54	118 -10.0 28	98 23.2 53	81 5 37	83 11 36	74 -3.50 11	82 -1.90 9	83 -2.09 10	
SH7 140058 93926772 SH7 140058	5	GA 090103 GA 090194	96 60	86 50	77 46	115 29	116 48	77 45	82 28	75 42		95 1.59 60	111 -0.02 55	85 10 29	86 8.5 50	77 -0.8 46	77 22 42	82 14.2 46	88 49 43	86 -54 9	80 3.9 47	115 -13.6 60	113 -8.9 37	89 17.1 62	81 4 48	80 7 47				
SH7 150013 93928356 SH7 150013	3	GA 090103 GA 070315	95 64	95 52	90 46	108 27	113 48	91 45	86 23	87 41		94 1.62 64	108 0.10 63	92 18 27	95 13.0 52	90 3.0 46	91 55 42	91 22.5 44	93 75 41		70 -0.9 45	125 -21.7 59	107 -7.4 36	93 20.2 60	87 9 46	88 17 44				
SH7 150027 93928455 SH7 150027		GA 100164 SH7 100019	110 42	77 36	108 24	102 15	98 40	87 32				110 0.23 43	97 0.55 36	98 24 15	77 4.1 36	108 8.7 24	90 51 25	74 7.8 32	70 -46 30		83 5.6 35	98 -0.1 50	99 -5.4 30	83 12.5 51	75 1 36	78 4 34				
SH7 150059 93926814 SH7 150059	2	GA 090103 GA 070059	98 56	92 53	78 48	118 33	128 48	88 46	90 24	86 42		97 1.37 57	111 -0.04 50	82 7 33	92 11.5 53	78 -0.6 48	83 36 45	89 20.4 47	96 90 44		86 6.9 48	117 -15.5 58	126 -11.9 37	99 24.4 61	89 11 49	90 19 47				
SH7 160010 93929057 SH7 160010	4	GA 090103 GA 080044	94 58	94 53	87 45	102 31	114 48	86 46	96 23	86 41		94 1.64 58	105 0.21 52	98 24 31	94 12.3 53	87 2.2 45	86 43 43	90 21.5 46	101 116 43		87 7.5 47	98 0.2 59	116 -9.6 37	95 21.6 57	93 14 48	94 24 46				
SH7 160014 93929107 SH7 160014		GA 090103 SH7 100035	96 45	87 38	89 31	101 23	120 44	82 36	72 22	77 33		95 1.55 45	111 -0.01 43	99 25 23	87 9.1 38	89 2.7 31	82 34 31	80 12.9 34	76 -12 34	75 -27 8		92 9.7 37	91 6.1 56	125 -11.7 33	86 15.2 53	84 7 38	82 9 37			
SH7 170005 93929123 SH7 170005		GA 100048 SH7 050024	81 56	109 44	92 41	89 19	119 44	96 39	83 30	91 37	93 18	81 2.78 56	106 0.20 57	111 37 19	109 20.1 44	92 3.8 41	97 69 35	103 32.6 40	87 44 39	83 -47 18		109 18.1 42	94 3.2 53	122 -11.1 36	101 25.7 56	96 16 42	95 26 41	87 -1.87 19	88 -1.18 16	86 -1.83 16
SH7 170015 93929180 SH7 170015	5	GA 090103 GA 090078	84 60	101 53	83 45	98 29	103 46	81 45	89 26	80 41		84 2.53 60	105 0.22 55	102 28 29	101 15.8 53	83 0.9 45	87 45 42	97 27.0 46	96 92 43		86 6.8 47	89 7.7 57	107 -7.3 36	95 21.1 57	89 10 48	89 18 46				
SH7 170029 93929156 SH7 170029		GA 090103 SH7 100013	96 42	87 38	89 31	101 23	115 43	81 36	72 22	76 33		95 1.55 42	111 -0.01 38	99 25 23	87 9.1 38	89 2.7 31	82 34 31	80 12.9 34	76 -12 34	75 -27 8		92 9.7 37	97 0.8 53	117 -9.8 33	94 20.5 52	84 7 38	82 9 37			
SH7 170032 93929206 SH7 170032		GA 100048 SH7 110006	87 49	107 44	89 41	89 19	122 45	94 39	83 30	90 37	93 18	86 2.36 49	113 -0.12 46	111 37 19	107 18.7 44	89 2.9 41	93 59 35	100 30.1 40	87 44 39	83 -47 18		109 18.1 42	105 -5.4 55	122 -11.1 35	89 17.0 56	96 16 42	95 26 41	87 -1.86 19	88 -1.18 16	86 -1.83 16
SH7 180010 93942274 SH7 180010		GA 120025 SH7 100035	103 47	78 37	106 28	106 18	97 26	84 28	66 25	78 27		103 0.84 47	95 0.66 42	94 19 18	78 4.6 37	106 8.1 28	90 53 28	75 8.7 33	69 -51 31	60 13 15		98 12.7 35	86 9.5 33	101 -6.0 20	100 24.7 51	73 -2 36	75 1 34	67 -4.27 6		

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling		
ID Number Name																															
SH7 180035 96173042 SH7 180035	5	GA 120025 SH7 140051	101 58	89 46	90 38	108 18	76 40	79 37	85 21	78 34		100 1.05 58	100 0.42 54	92 18	89 9.9 46	90 3.1 38	87 44 34	89 20.2 41	90 59 37			101 14.4 42	106 -6.6 50	73 0.8 29	104 27.9 54	78 2 43	83 11 41				
SH7 190011 96179916 SH7 190011	28	GA 090103 SH7 140059	86 43	95 32			113 32					86 2.35 44	109 0.04 35		95 13.1 32				89 20.8 20	93 74 16			81 4.8 29	110 -9.4 50	111 -8.5 13	99 24.1 46	87 9 31	85 14 27			
SH7 190024 96169362 SH7 190024		GA 100048 SH7 100049	87 51	107 44	89 41	89 19	109 45	91 39	83 30	87 37	93 18	86 2.34 51	113 -0.13 50	111 37 19	107 18.7 44	89 2.9 41	93 59 35	100 30.0 40	87 44 39	83 -47 18		109 18.1 42	96 1.6 54	111 -8.3 36	99 24.1 55	96 16 42	95 26 41	87 -1.86 19	88 -1.18 16	86 -1.83 16	
SH7 190040 96168810 SH7 190040		GA 100048 SH7 130019	80 56	110 44	93 41	89 19	124 44	97 39	83 30	92 37	93 18	81 2.81 56	105 0.23 57	111 37 19	110 20.2 44	93 3.9 41	98 69 35	103 32.8 40	87 44 39	83 -47 18		109 18.1 42	107 -6.8 53	124 -11.6 36	99 24.2 54	96 16 42	95 26 41	87 -1.87 19	88 -1.18 16	86 -1.83 16	
SH7 190044 96172697 SH7 190044	14	JRE 150094 SH7 140030	78 47	120 44	82 32		104 36		97 20			78 3.07 48	112 -0.08 34		120 25.2 44	82 0.7 32		115 42.9 33	107 151 33			106 16.6 40	110 -9.4 52	102 -6.2 21	100 24.6 51	104 22 41	99 31 39				
SH7 190050 96172705 SH7 190050	4	JRE 150094 SH7 150042	82 55	108 41	93 32	89 14	127 42	97 35	90 20	94 32	97 23	82 2.70 55	105 0.24 53	111 38 14	108 19.6 41	93 4.2 32	97 69 29	103 32.7 34	95 86 35			101 14.0 40	123 -20.4 53	122 -11.2 30	99 24.1 49	97 17 41	93 23 39	96 -0.79 26	92 -0.69 20	99 -0.75 19	
SH7 190059 96172689 SH7 190059	13	JRE 150094 SH7 150065	77 43	118 41	88 29		127 36					77 3.11 44	110 0.02 30		118 24.4 41	88 2.4 29		112 40.5 30	101 119 31			111 18.9 38	119 -17.0 51	124 -11.5 22	100 24.6 51	105 22 40	99 31 37	103 0.02 11			
SH7 200028 96222468 SH7 200028		TZ 140138 SH7 110004	92 41	92 37	91 29	109 17	119 40	88 33				92 1.83 42	109 0.08 34	91 17 17	92 11.3 37	91 3.4 29	90 52 28	85 16.8 31	83 24 32			104 15.7 37	112 -11.4 50	117 -9.8 29	98 23.6 48	86 8 37	85 14 36				
SH7 200030 96229075 SH7 200030		JRE 150094 SH7 110024	87 50	105 37	92 29	86 16	120 38	92 32	81 22	88 30	92 28	86 2.33 50	113 -0.09 47	114 41 16	105 17.7 37	92 3.6 29	92 57 27	97 27.6 30	88 48 32	92 -71 8		107 16.9 36	103 -4.1 49	121 -10.7 26	102 26.1 48	97 17 37	90 20 35	90 -1.50 29	81 -2.10 26	88 -1.68 25	
SH7 200043 96222443 SH7 200043	4	JRE 150094 SH7 150050	81 50	109 41	94 32	89 14	124 39	97 34	90 20	94 31	97 23	81 2.76 50	104 0.28 45	111 38 14	109 19.7 41	94 4.3 32	98 70 29	104 33.1 34	95 86 35			101 14.0 40	115 -14.0 52	121 -10.9 26	100 24.9 48	97 17 41	93 23 39	96 -0.79 26	92 -0.69 20	99 -0.75 19	
SH7 200047 96222542 SH7 200047		JRE 150094 SH7 160024	77 47	109 37	96 29	86 16	132 38	98 32	81 22	92 30	92 28	78 3.02 47	100 0.43 43	114 41 16	109 19.8 37	96 5.1 29	99 72 27	102 31.7 30	88 48 32	92 -71 8		107 16.9 36	114 -12.9 49	131 -13.1 26	96 21.8 48	97 17 37	90 20 35	90 -1.50 29	81 -2.10 26	88 -1.68 25	
SH7 210001 96179676 SH7 210001		TZ 140138 SH7 150025	91 38	92 37	92 29	109 17	111 36	87 31				91 1.93 39	107 0.15 29	91 17 17	92 11.7 37	92 3.6 29	91 54 28	85 17.4 31	83 24 32			104 15.7 37	97 1.3 50	113 -8.8 23	96 21.8 48	86 8 37	85 14 36				

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
SH7 210004 96179692 SH7 210004	14	JRE 150094 SH7 140030	78 47	120 44	82 32		105 34		97 20			78 3.07 48	112 -0.08 34		120 25.2 44	82 0.7 32		115 42.9 33	107 151 33		106 16.6 40	107 -7.5 52	104 -6.7 16	100 24.7 50	104 22 41	99 31 39				
SH7 210007 96179650 SH7 210007	2	JRE 150094 SH7 140045	83 47	111 45	85 36	100 18	114 39	95 36	93 21	93 33	102 20	82 2.67 48	111 -0.04 37	100 26 18	111 20.7 45	85 1.5 36	96 67 33	105 34.1 36	103 127 37		98 12.6 42	117 -15.2 53	110 -8.2 25	101 25.8 51	96 16 43	94 24 41	105 0.32 23	100 0.33 18	108 0.07 17	
SH7 210014 96222344 SH7 210014	4	TZ 140138 SH7 170029	93 43	93 41	84 33	113 16	115 38	86 34	88 20	84 31		92 1.84 44	111 -0.04 34	87 13 16	93 12.1 41	84 1.3 33	87 46 30	87 18.9 34	91 67 36		99 13.5 40	111 -10.3 52	113 -9.0 23	95 21.3 47	87 9 41	88 16 40				
SH7 220004 6020138092 SH7 220004		JRE 150094 SH7 110004	86 63	105 37	94 29	86 16	124 34	95 31	81 22	90 29	92 28	85 2.40 65	107 0.12 35	114 41 16	105 17.8 37	94 4.5 29	94 62 27	98 28.3 30	88 48 32	92 -71 8	107 16.9 36	111 -10.6 48	123 -11.2 20	102 26.3 46	97 17 37	90 20 35	90 -1.50 29	81 -2.10 26	88 -1.68 25	
SH7 220031 96171913 SH7 220031		SH7 190010	103 25	94 24	89 21	93 9	108 22	87 20			87 8	102 0.89 25	101 0.38 22	107 33 9	94 12.2 24	89 2.9 21	85 40 18	93 24.2 21	83 23 20	85 -52 8	102 14.8 22	101 -2.4 27	108 -7.7 18	73 6.0 27	93 13 22	87 15 21	85 -2.13 9	91 -0.81 8	89 -1.63 8	
SH7 220037 96190947 SH7 220037		SH7 180014	105 32	90 29	86 26	101 13	102 22	83 23				105 0.63 32	91 0.81 30	99 25 13	90 10.5 29	86 1.9 26	82 34 23	93 24.0 25	83 22 23	86 -55 6	96 11.9 25	112 -11.2 26	99 -5.4 17	72 5.0 30	88 10 25	80 7 25				
SH7 220041 96172408 SH7 220041		SH7 100013	115 55				106 9					114 -0.17 58	95 0.66 17									94 3.7 12	109 -7.9 6	65 0.0 24						
SH7 220042 96172358 SH7 220042		SH7 110006	109 6				109 11					109 0.30 6	94 0.70 7									94 3.3 16	111 -8.4 6	62 -1.8 24						
SH7 220053 96172242 SH7 220053		SH7 140045	109 28	86 26	87 23	110 16	102 24	84 23				109 0.33 28	98 0.51 24	90 15 16	86 8.3 26	87 2.1 23	82 34 22	87 18.5 22	82 16 20		91 9.3 23	110 -9.8 30	99 -5.5 18	72 5.2 30	82 6 23	77 3 22				
SH7 220062 96179742 SH7 220062		SH7 140028	112 28	84 26	94 23	101 14	100 19	86 21				112 0.01 28	92 0.78 24	99 25 14	84 7.4 26	94 4.4 23	84 37 21	88 19.4 22	87 46 21		94 10.8 23	100 -1.6 23	100 -5.8 15	68 2.5 28	90 12 24	82 10 23				
SH7 230011 96172275 SH7 230011		SH7 140058	109 30	82 25	83 23	107 15	108 24	79 22				109 0.30 30	97 0.55 28	93 18 15	82 6.5 25	83 1.0 23	76 20 21	84 16.4 23	81 10 22	86 -54 5		89 8.5 24	111 -10.3 30	105 -7.0 18	67 1.4 31	84 7 24	75 1 23			
SH7 230017 96172119 SH7 230017		SH7 110004	109 16				113 11					109 0.27 16	95 0.67 18									103 -3.7 16	113 -9.0 6	71 4.1 23						

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
SH7 230045 6020142730 SH7 230045		SH7 190050	100 59	95 20	90 16	94 7	113 20				86 12	101 1.03 62	95 0.67 26	106 32 7	95 12.7 20	90 3.2 16	87 44 14	96 26.4 16	84 29 17		100 13.5 20	115 -13.7 26	110 -8.1 15	72 4.9 25	92 13 20	82 9 19	87 -1.95 13	93 -0.60 10	92 -1.34 10
24-0074SSS 6020581606 ST BLAIZE MISS BRUMBY 74-24		18-0112SSS 98-17	92 16				113 10					92 1.82 16	100 0.45 18									76 17.7 19		82 12.1 15					
SH7 240006 6020219421 SH7 240006		SH7 200028	108 21	85 19	90 15	104 9	109 20					108 0.42 21	96 0.60 17	96 22 9	85 7.9 19	90 3.1 15	82 34 14	86 17.7 16	78 -2 16		101 14.4 18	109 -9.2 25	107 -7.5 14	71 4.7 24	86 9 19	78 4 18			
SH7 240009 6020138472 SH7 240009		SH7 150013	109 32	87 26	89 23	104 14	106 24	86 23				109 0.32 32	96 0.61 32	96 22 14	87 8.8 26	89 2.9 23	83 36 21	89 20.5 22	83 23 21		84 6.1 23	116 -14.3 30	102 -6.3 18	69 3.0 30	87 9 23	79 6 22			
SH7 240010 6020138340 SH7 240010		SH7 100049	109 8				101 12					109 0.30 8	94 0.69 9									93 4.5 16	103 -6.6 8	65 0.4 23					
SH7 240012 6020138373 SH7 240012		SH7 150059	111 28	85 27	83 24	109 17	114 24	84 23				110 0.19 28	98 0.54 25	91 17 17	85 8.0 27	83 1.0 24	79 26 23	88 19.5 24	84 30 22		92 10.0 24	112 -11.2 29	111 -8.5 19	72 5.1 30	88 10 24	80 7 24			
SH7 240013 6020138126 SH7 240013		SH7 190059	100 21	98 20	88 14		113 18					100 1.06 22	97 0.57 15		98 14.5 20	88 2.6 14		100 29.5 14	87 45 16		105 16.0 19	113 -12.0 25	111 -8.3 11	72 5.2 25	96 16 20	85 13 19	90 -1.54 5		
SH7 240014 6020138357 SH7 240014		SH7 170024	110 21				104 6					109 0.25 21	95 0.66 24									88 8.2 11		67 1.5 22					
SH7 240016 6020138514 SH7 240016		SH7 180028	108 25	91 24	91 21	96 10	94 19	85 8				108 0.41 25	96 0.62 21	104 29 10	91 10.9 24	91 3.4 21	85 41 18	94 24.4 22	82 20 20	88 -58 8	99 13.5 22	99 -0.5 23	94 -4.3 15	69 2.8 28	90 11 23	83 10 22	85 -2.13 9	95 -0.34 7	91 -1.45 7
SH7 240017 6020138456 SH7 240017		SH7 160014	110 22	83 19	89 15	100 12	110 22					109 0.28 22	97 0.55 21	100 25 12	83 6.8 19	89 2.7 15	78 25 15	84 15.7 18	75 -21 17		95 11.4 19	99 -0.4 28	111 -8.4 17	65 0.5 27	85 8 19	76 2 18			
SH7 240019 6020138506 SH7 240019		SH7 160023	103 30	94 29	84 25	105 11	97 24	86 23		86 7		103 0.85 30	98 0.54 26	95 21 11	94 12.6 29	84 1.3 25	85 41 22	96 26.5 24	84 31 22	90 -64 8	100 13.8 24	111 -10.4 29	94 -4.3 20	72 5.1 30	90 11 25	83 10 24	87 -1.87 8	100 0.28 6	95 -1.08 6
SH7 240024 6020137433 SH7 240024		SH7 190043	109 19	83 18	95 15	99 10	103 14		78 5			109 0.29 19	93 0.73 15	101 27 10	83 6.9 18	95 4.6 15	83 36 14	85 16.7 17	74 -25 16	74 -23 8	94 10.7 18	100 -1.7 16	103 -6.6 11	70 3.6 25	84 7 19	77 2 18	75 -3.30 6		84 -2.01 5

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
SH7 240032 6020138522 SH7 240032		SH7 150050	108 20	83 18	95 15	99 10	113 22				78 5	109 0.32 20	92 0.76 17	101 27 10	83 7.0 18	95 4.7 15	83 37 14	85 16.9 17	74 -25 16	74 -23 8	94 10.7 18	104 -5.0 27	112 -8.7 17	70 3.8 26	84 7 19	77 2 18	75 -3.30 6		84 -2.01 5	
SH7 240037 6020219413 SH7 240037		SH7 190010	103 25	94 24	89 21	93 9	108 22	87 20			87 8	102 0.89 25	101 0.38 22	107 33 9	94 12.2 24	89 2.9 21	85 40 18	93 24.2 21	83 23 20	85 -52 8	102 14.8 22	101 -2.4 27	108 -7.7 18	73 6.0 27	93 13 22	87 15 21	85 -2.13 9	91 -0.81 8	89 -1.63 8	
SH7 250009 6020138449 SH7 250009		SH7 210038	104 30	90 23	85 19	106 9	96 18					104 0.73 31	95 0.66 21	94 19 9	90 10.6 23	85 1.4 19	83 36 17	93 23.5 20	86 40 19		100 13.5 22	110 -9.6 25	93 -4.0 12	70 3.6 25	88 10 22	81 8 21				
SH7 250011 6020139066 SH7 250011		SH7 190040	102 28	94 22	91 20	94 10	112 22				84 9	102 0.91 28	94 0.67 29	106 32 10	94 12.4 22	91 3.3 20	86 44 17	95 25.7 20	80 7 19	85 -50 9	104 15.6 21	107 -6.9 27	111 -8.4 18	72 5.0 27	91 12 21	83 10 21	82 -2.49 10	91 -0.84 8	86 -1.88 8	
SH7 250013 6020138902 SH7 250013		SH7 180014	105 32	90 29	86 26	101 13	102 22	83 23				105 0.63 32	91 0.81 30	99 25 13	90 10.5 29	86 1.9 26	82 34 23	93 24.0 25	83 22 23	86 -55 6	96 11.9 25	112 -11.2 26	99 -5.4 17	72 5.0 30	88 10 25	80 7 25				
SH7 250015 6020138324 SH7 250015		SH7 190059	100 21	98 20	88 14		113 18					100 1.06 22	97 0.57 15		98 14.5 20	88 2.6 14		100 29.5 14	87 45 16		105 16.0 19	113 -12.0 25	111 -8.3 11	72 5.2 25	96 16 20	85 13 19	90 -1.54 5			
SH7 250020 6020213762 SH7 250020		SH7 160010	109 29	86 26	88 22	101 16	107 24	83 23				109 0.32 29	95 0.66 26	99 25 16	86 8.4 26	88 2.5 22	80 30 21	89 20.0 23	87 44 21		93 10.3 23	102 -3.4 30	107 -7.3 18	70 3.7 28	90 11 24	82 9 23				
SH7 250021 6020138886 SH7 250021		SH7 170029	110 21	83 19	89 15	100 12	107 21					109 0.28 21	97 0.55 19	100 25 12	83 6.8 19	89 2.7 15	78 25 15	84 15.7 18	75 -21 17		95 11.4 19	102 -3.0 26	107 -7.5 16	69 3.1 26	85 8 19	76 2 18				
SH7 250024 6020138035 SH7 250024		SH7 210014	108 22	86 21	86 16	106 8	107 19					107 0.43 22	98 0.54 17	94 19 8	86 8.3 21	86 2.0 16	81 31 15	87 18.7 18	82 19 18		99 13.3 20	109 -8.6 26	105 -7.0 12	70 3.6 23	87 9 21	79 5 20				
SH7 250025 6020139041 SH7 250025		SH7 180004	115 5									115 -0.27 5	88 0.96 6								100 -1.3 6			69 2.9 22						
SH7 250028 6020219769 SH7 250028		SH7 200028	108 21	85 19	90 15	104 9	109 20					108 0.42 21	96 0.60 17	96 22 9	85 7.9 19	90 3.1 15	82 34 14	86 17.7 16	78 -2 16		101 14.4 18	109 -9.2 25	107 -7.5 14	71 4.7 24	86 9 19	78 4 18				
SH7 250029 6020137342 SH7 250029		SH7 210007	103 24	94 22	87 18	100 9	106 20	89 10				103 0.84 24	98 0.54 19	100 26 9	94 12.6 22	87 2.1 18	86 42 16	96 26.3 18	88 49 18		98 12.8 21	112 -11.1 27	104 -6.6 13	73 5.8 26	91 12 21	82 9 20	91 -1.39 12	97 -0.08 9	97 -0.93 9	

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling		
SH7 250033 6020213754 SH7 250033		SH7 140058	109 30	82 25	83 23	107 15	108 24	79 22				109 0.30	97 0.55	93 18	82 6.5	83 1.0	76 20	21	84 16.4	81 10	86 -54	89 8.5	111 -10.3	105 -7.0	67 1.4	31	84 7	75 1			
SH7 250043 6020243991 SH7 250043		SH7 180035	112 61	83 23	89 19	104 9	88 20					112 0.01	92 0.77	96 22	83 7.1	89 2.9	81 30		88 19.3	81 15		100 13.7	107 -6.8	85 -2.1	74 6.8	21	82 6	77 3			
SH7 250045 6020138308 SH7 250045		SH7 200030	111 60	88 18	92 14	93 8	110 18			83 14		110 0.18	98 0.52	107 33	88 9.3	92 3.8	82 35		89 20.8	80 10		103 15.0	105 -5.5	109 -7.9	73 6.0		92 13	80 7	84 -2.30	87 -1.30	87 -1.81
SH7 250048 6020213887 SH7 250048		SH7 200047	92 60	99 18	90 14	93 8	115 18			83 14		93 1.68	92 0.76	107 33	99 14.7	90 3.0	89 49		98 28.2	80 10		103 15.0	110 -9.9	114 -9.1	70 3.8		92 13	80 7	84 -2.30	87 -1.30	87 -1.81
SH7 260016 6020850175 SH7 260016		20-0131SSS SH7 190059	85 21	102 20	96 14		120 18					85 2.43	105 0.21		102 16.4	96 4.9			95 25.2	81 10		106 16.5	98 0.5	123 -11.2	102 26.3		93 13	88 17	82 -2.45		

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★☆								
1	SH7 200018	SH7 200018	JRE 150094	SH7 110021	0.0	82 39	107 37	94 29	86 16	111 26	92 28	81 22	88 27
						★★★							
1	SH7 220009	SH7 220009	JRE 150094	SH7 140058	5.1	83 65	107 44	81 36	97 16	114 32	89 33	93 21	87 31
2	SH7 220026	SH7 220026		SH7 190040	0.0	93 59	100 22	87 20	94 10	112 22	88 20		
3	SH7 230007	SH7 230007		SH7 160023	0.0	103 30	94 29	84 25	105 11	97 24	86 23		
4	SH7 230009	SH7 230009		GA 080128	0.0	114 38	79 36	87 27	128 15	84 24	81 26		
5	SH7 230032	SH7 230032		SH7 170005	0.0	101 59	94 22	90 20	94 10	109 22	88 20		
6	SH7 230041	SH7 230041		SH7 170015	0.0	100 60	92 26	84 23	99 15	101 24	81 23		
7	SH7 230042	SH7 230042		SH7 190024	0.0	110 59	89 22	91 20	94 10	104 22	87 20		
8	SH7 230043	SH7 230043		SH7 180014	0.0	107 60	89 29	87 26	101 13	102 22	84 24		
9	SH7 240035	SH7 240035		SH7 140028	0.0	112 28	84 26	94 23	101 14	100 19	86 21		

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
Sorted on ID													
					★★★★								
1	SH7 150013	SH7 150013	GA 090103	GA 070315	2.8	95 64	95 52	90 46	108 27	113 48	91 45	86 23	87 41
2	SH7 170005	SH7 170005	GA 100048	SH7 050024	0.0	81 56	109 44	92 41	89 19	119 44	96 39	83 30	91 37
3	SH7 170032	SH7 170032	GA 100048	SH7 110006	0.0	87 49	107 44	89 41	89 19	122 45	94 39	83 30	90 37
4	SH7 190024	SH7 190024	GA 100048	SH7 100049	0.0	87 51	107 44	89 41	89 19	109 45	91 39	83 30	87 37
5	SH7 190040	SH7 190040	GA 100048	SH7 130019	0.0	80 56	110 44	93 41	89 19	124 44	97 39	83 30	92 37
6	SH7 190050	SH7 190050	JRE 150094	SH7 150042	4.0	82 55	108 41	93 32	89 14	127 42	97 35	90 20	94 32
7	SH7 200030	SH7 200030	JRE 150094	SH7 110024	0.0	87 50	105 37	92 29	86 16	120 38	92 32	81 22	88 30
8	SH7 200043	SH7 200043	JRE 150094	SH7 150050	4.0	81 50	109 41	94 32	89 14	124 39	97 34	90 20	94 31
9	SH7 200047	SH7 200047	JRE 150094	SH7 160024	0.0	77 47	109 37	96 29	86 16	132 38	98 32	81 22	92 30
10	SH7 210007	SH7 210007	JRE 150094	SH7 140045	2.5	83 47	111 45	85 36	100 18	114 39	95 36	93 21	93 33
11	SH7 220004	SH7 220004	JRE 150094	SH7 110004	0.0	86 63	105 37	94 29	86 16	124 34	95 31	81 22	90 29
						★★							
1	SH7 140021	140021	GA 100031	SH7 050018	0.0	96 48	87 37	101 30	99 19	119 41	89 34	78 26	84 32
2	SH7 150027	SH7 150027	GA 100164	SH7 100019	0.0	110 42	77 36	108 24	102 15	98 40	87 32		
3	SH7 150059	SH7 150059	GA 090103	GA 070059	2.1	98 56	92 53	78 48	118 33	128 48	88 46	90 24	86 42
4	SH7 160010	SH7 160010	GA 090103	GA 080044	3.5	94 58	94 53	87 45	102 31	114 48	86 46	96 23	86 41
5	SH7 160014	SH7 160014	GA 090103	SH7 100035	0.0	96 45	87 38	89 31	101 23	120 44	82 36	72 22	77 33
6	SH7 170015	SH7 170015	GA 090103	GA 090078	4.6	84 60	101 53	83 45	98 29	103 46	81 45	89 26	80 41
7	SH7 170029	SH7 170029	GA 090103	SH7 100013	0.0	96 42	87 38	89 31	101 23	115 43	81 36	72 22	76 33
8	SH7 180010	SH7 180010	GA 120025	SH7 100035	0.0	103 47	78 37	106 28	106 18	97 26	84 28	66 25	78 27
9	SH7 200028	SH7 200028	TZ 140138	SH7 110004	0.0	92 41	92 37	91 29	109 17	119 40	88 33		
10	SH7 210001	SH7 210001	TZ 140138	SH7 150025	0.0	91 38	92 37	92 29	109 17	111 36	87 31		
11	SH7 210014	SH7 210014	TZ 140138	SH7 170029	4.4	93 43	93 41	84 33	113 16	115 38	86 34	88 20	84 31
12	SH7 220031	SH7 220031		SH7 190010	0.0	103 25	94 24	89 21	93 9	108 22	87 20		
13	SH7 220037	SH7 220037		SH7 180014	0.0	105 32	90 29	86 26	101 13	102 22	83 23		
14	SH7 220053	SH7 220053		SH7 140045	0.0	109 28	86 26	87 23	110 16	102 24	84 23		
15	SH7 220062	SH7 220062		SH7 140028	0.0	112 28	84 26	94 23	101 14	100 19	86 21		
16	SH7 240009	SH7 240009		SH7 150013	0.0	109 32	87 26	89 23	104 14	106 24	86 23		
17	SH7 240012	SH7 240012		SH7 150059	0.0	111 28	85 27	83 24	109 17	114 24	84 23		
18	SH7 240019	SH7 240019		SH7 160023	0.0	103 30	94 29	84 25	105 11	97 24	86 23		

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID					Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
					★★★								
19	SH7 240037	SH7 240037	SH7 190010	0.0	10325	9424	8921	939	10822	8720			
					★★★								
1	SH7 140058	SH7 140058	GA 090103	GA 090194	4.5	9660	8650	7746	11529	11648	7745	8228	7542
2	SH7 180035	SH7 180035	GA 120025	SH7 140051	4.8	10158	8946	9038	10818	7640	7937	8521	7834
3	SH7 230011	SH7 230011		SH7 140058	0.0	10930	8225	8323	10715	10824	7922		

Selection List on Cow Value

Bull Calves younger than 2 years

IDName Sorted on ID			Sire IDDam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★								
1	SH7 250008	SH7 250008		SH7 150013	0.0	10932	8726	8923	10414	10624	8623		
2	SH7 250016	SH7 250016		SH7 150059	0.0	11128	8527	8324	10917	11424	8423		
3	SH7 250037	SH7 250037		SH7 140028	0.0	11228	8426	9423	10114	10019	8621		
4	SH7 260002	SH7 260002		SH7 170032	0.0	10525	9222	8920	9410	11023	8820		
5	SH7 260003	SH7 260003		SH7 190040	0.0	10459	9222	9120	9410	11222	8920		
6	SH7 260010	SH7 260010		SH7 150013	0.0	11162	8526	9023	10414	10624	8623		

Selection List on Cow Value

Heifers younger than 2 years

IDName Sorted on ID			Sire IDDam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★								
1	SH7 250013	SH7 250013	SH7 180014	0.0	10532	9029	8626	10113	10222	8323			
2	SH7 250020	SH7 250020	SH7 160010	0.0	10929	8626	8822	10116	10724	8323			
					★★☆								
1	SH7 250033	SH7 250033	SH7 140058	0.0	10930	8225	8323	10715	10824	7922			

	EBVi	Description / Measurement	Goal	Low Value	High Value
Selection Values	Calving Ease Value	Difficult calving due to high birth weight	Average birth weight	High	Low
	Calf Growth Value	Calf's genetic ability for prewean growth	Heavy weaner	Light	Heavy
	Milk Value	Cow's genetic mothering and milking ability	Enough milk for calf	Less	More
	Maintenance Value	Maintenance requirement of cow (weight and milk)	Low cow maintenance	High	Low
	Fertility Value	Fertility and retention of cows and heifers	Fertile cows	Low	High
	Cow Value	Combination of calving ease, calf growth, milk, maintenance and fertility values (Rand-value per Ha)	Profitable cows	Loss	Profit
	Weaner Calf Value	Heavier weaners and more milk, with lower birth and cow weights	Heavy weaner	Light	Heavy
	Growth Value	Efficient growth on veld and in feedlot (Rand-value per animal)	Profitable growth	Loss	Profit
	Production Value	Combination of Cow- and Growth Values (Rand-value)	Profitable animals	Loss	Profit
	Carcass Value	Meat on carcass (Weight and RTU EBVs)	Meat on carcass	Less	More
Birth	Cow weight - birth	Cow weight at birth of calves	Mature cow weight	Light	Heavy
	Birth weight direct	Birth weight (Calf's genetic ability)	Average birth weight	Heavy	Light
	Cow-Calf birth	EBV Birth dir / EBV Mature cow weight	Average	Low	High
Wean	Cow Weight wean	Cow weight at weaning of calves	Mature cow weight	Light	Heavy
	Weaning weight direct	Weaning weight (Calf's genetic ability)	Heavy weaners	Light	Heavy
	Weaning weight mat	Weaning weight (Dam's genetic ability)	Good mothers	Poor	Good
	Cow-Calf Wean	EBV Wean dir / EBV Mature cow weight	High cow-calf ratio	Low	High
Growth & Adaptation	Post-Wean weight	12- and 18mth weights	Post-wean growth	Low	High
	Ave. Daily Gain	Average daily gain in growth test (Phase C and D)	Good growth	Poor	Good
	Veld Growth	ADG on veld (Phase B)	Good adaptation	Poor	Good
	Feed Conversion Ratio	100g feed intake /g weight gain	Feed Efficiency	Poor	Good
	Final Test Weight	Final weight in growth test (Phase C and D)	Heavy Carcasses	Light	Heavy
	Skin Thickness	Measured in growth tests	Thicker skin	Thin	Thick
Fertility	Scrotal Circumference	Scrotal circumference in growth test	Fertile bulls	Less	More
	Heifer Fertility	Age at first calving	Fertile heifers	Less	More
	Cow Fertility	First 3 inter-calving periods (ICPs)	Fertile cows	Less	More
	Longevity	Retention of progeny	Acceptable progeny	Poor	Good
Frame	Height	Shoulder / Hip height in growth test	Average height	Short	Tall
	Length	Length in growth test	Longer (more meat)	Short	Long
	Length:Height	EBV Length / EBV Height	Longer, not higher	Less desirable	More desirable
Carcass	Eye Muscle Area	RTU Eye muscle area	Muscle in carcass	Small	Big
	Fat	RTU P8 Backfat Thickness	Carcass quality & adaptability	Thin	Thick
	Marbling	RTU % Marbling	Juicy meat	Low	High
	Dressing%	Carcass weight / Live weight	High dressing %	Low	High

Notes on the interpretation of EBVs, EBVi's, sub-values and selection values

EBVi (EBVindex) is the breeding value index and is easier to interpret than the breeding value, especially for commercial farmers buying from stud farmers. The base of a breeding value index is 100, which is the average of all the live animals in the breed, and all values are expressed relative to this value. Values above 100 are always in a more desirable direction: an index of 105 for AFC indicates a genetic potential to calve earlier. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values can be better.

EBV: (Estimated Breeding Value) indicates the genetic potential of the animal for a specific trait. It is presented in the unit of measurement and relative to the average of animals born in the base year (1990 for most breeds and traits). Higher values for certain traits are better while lower values for other traits are better, for example, an EBV of -2 for AFC (age at first calving) indicates that the animal has the genetic potential to calve 2 days earlier than the average heifer in 1990 (the base year). Earlier calving is better and therefore low breeding values (high breeding value indices) are better. For weaning weight, higher values are better.

Sub-values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, AFC (age at first calving) and ICP (inter-calving period) are combined to form the sub-value Fertility by taking the heritability and economic importance in consideration. The sub-value is expressed in an index format, thus an animal with a sub-value of 110 for Fertility will genetically be above average compared to the live animals in the breed.

Selection Values (Cow Value and Growth Value) combine the sub-values into a single value. This gives a quick and easy indication of the combined genetic value of an animal compared to the breed. It is advised to still look at the sub-values to see where the strengths and weaknesses lie.

How to use breeding values to select animals

Selecting animals on breeding values is easy if you know how. There is a common saying that “good nutrition can mask poor breeding”. This is very true. If an animal that is genetically inferior is fed well, it can appear as a great animal. This great performance will not be passed over to future generations. An animal that is genetically superior can appear to be inferior if its environment did not allow it to reach its true potential. It is best to select animals that are most adapted to the environment and can reach their full potential. To continuously adapt the environment to the animal can be expensive.

The reason why the use of breeding values is such a valuable tool is because it “removes” the environmental effect that contributes to the performance.

Scientific methods are used to determine how much of the performance is due to genetics and to identify genetically superior animals. This involves the measurement of animals under controlled environments, complete record keeping and pedigree information. *If performance recording and pedigree information are not done correctly, breeding values of these animals will not be useful.* Keep in mind that breeding is a long-term option: the effect of a bull selected/bought today will only show much later. If it is a good decision, his daughters will become part of the breeding herd and contribute to overall profitability in future.

Even if a bull is not perfect in all aspects, knowing the shortcomings will allow strategic selection with suitable cows. Traits are genetically correlated, meaning that a change in one trait can lead to a change in another. This change can be favourable or unfavourable. An increase in weaning weight can lead to an increase in birth weight, which can lead to calving difficulty. It is therefore advisable to not only select on a single trait. Take other traits in consideration to avoid negative effects.

How to improve the herd genetically

The first and most important aspect is to know what type of animal will improve the herd genetically. This can be determined through the following factors:

What happens to the calves? For example: used as replacement heifers, sold as stud animals or sold to commercial breeders who sell weaner calves.

How much feed is available? The availability of feed (or the hardness of the environment) determines the optimal frame size. If feed is abundant and the environment is less harsh, larger animals would be ideal. If not, medium framed animals would be ideal.

What is the genetics of the cow herd? Are they the wrong frame type, grow too slowly, do not have enough milk, etc.? Always aim to breed a calf that is superior to its dam.

Conclusion

Different types of bulls are suitable for different types of cows, environments and breeding objectives. Inbreeding should be avoided or limited as much as possible. Mating programs are available to aid in the pairing of bulls and cows.

The data used for this evaluation is pedigree information and performance data found on LOGIX as provided by breeders. All attempts are made to present accurate information. SA Stud Book takes no responsibility for the use and interpretation of information presented in this report.

