

SANTA GERTRUDIS

GENOMIC BREEDING VALUE REPORT

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MR M.B. MASIRE

Herd Number: 8613390

E-mail: basimanemasire4@gmail.com



LOGIX



EBVs, EBVi's and GEBVs

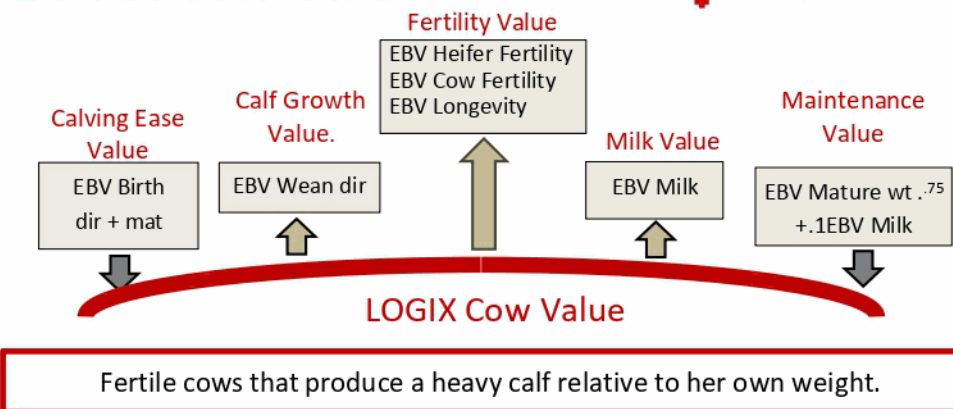
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

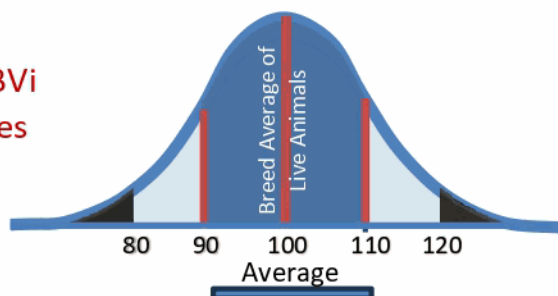
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

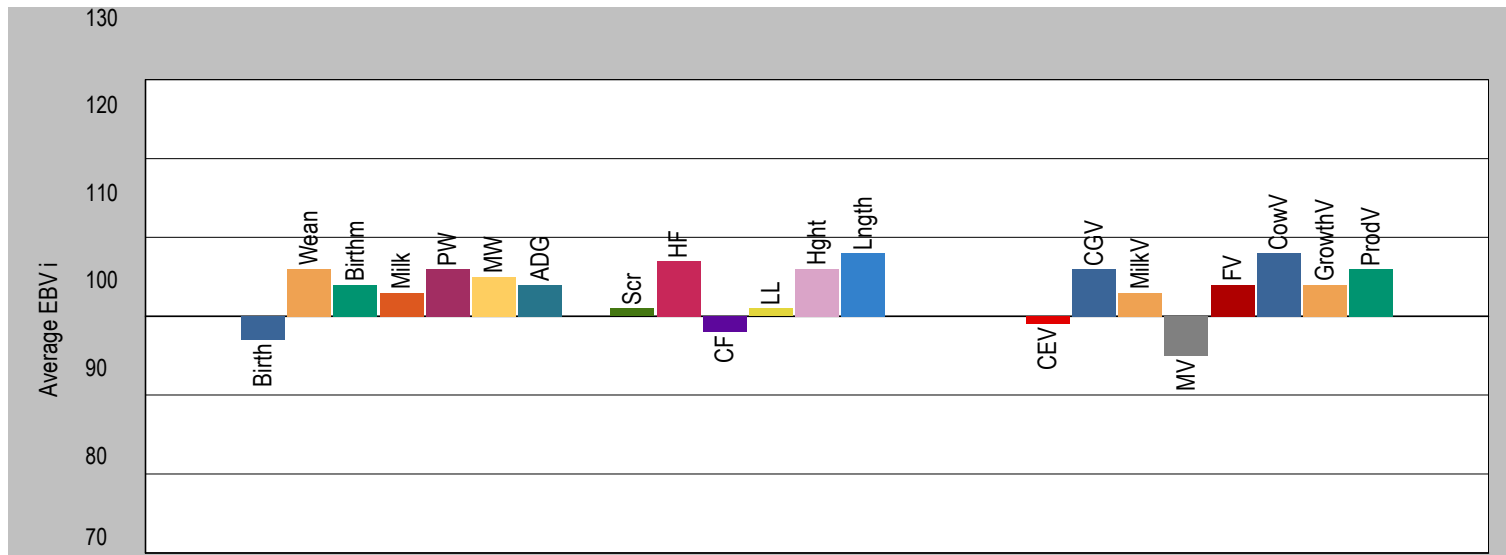
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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	RMV:	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	1.33	97	1.11
	Wean Weight	17.8	106	14.7
	Birth Mat.	-0.24	104	-0.07
	Milk (Wn.Mat.)	1.5	103	0.7
Postwean Growth	Postwean Wt	27.5	106	23.1
	Mature Weight	24	105	19
	ADG	114	104	95
	FCR			
Fertility	Scrotal Circumf.	11.1	101	10.4
	Heifer Fertility	-9.3	107	-3.8
	Cow Fertility	-5.5	98	-5.8
	Longevity	34.0	101	33.0
Frame	Height	15	106	12
	Length	33	108	24
Carcass	Dressing%			
	RedMeatYield			
	Marbling			

Selection Value	Ave. Herd
Calving Ease	99
Calf Growth	106
Milk	103
Maintenance	95
Fertility	104
Cow Value	108
Growth Value	104
Production Value	106

- 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

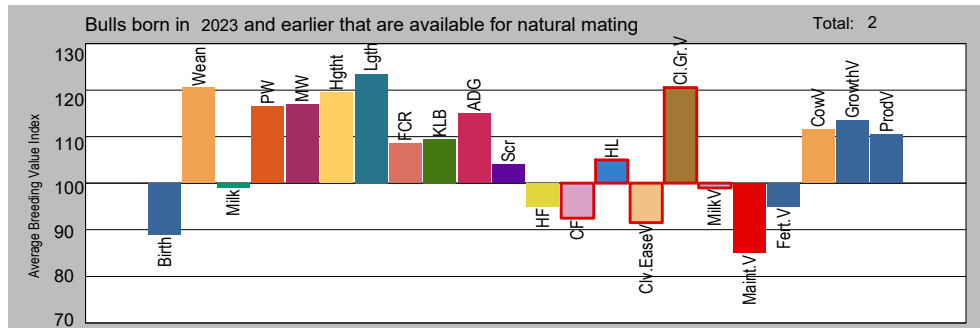
Milk: Cows with more milk and better mothering ability

Maintenance: Animals with low maintenance requirements (lower mature weight).

Fertility: Cows/daughters that calve

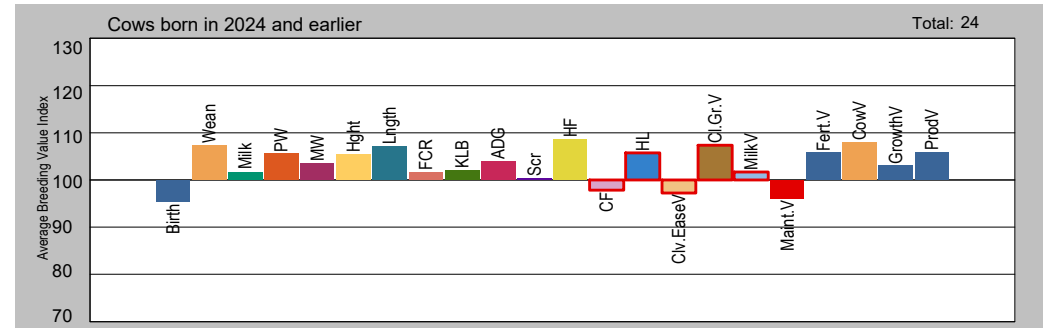
Genetic Windows

Bulls on the farm



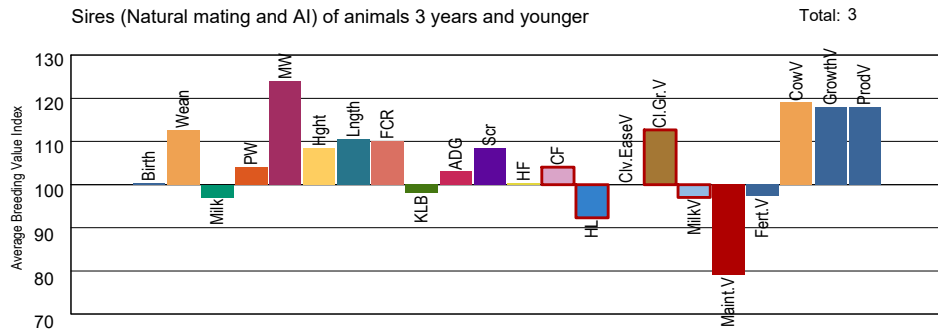
Animals available for breeding

Cow Herd

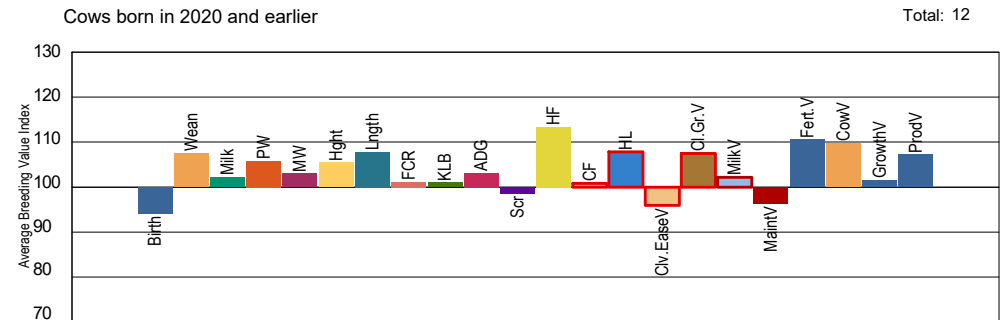


Results of previous selection decisions

Sires of young animals

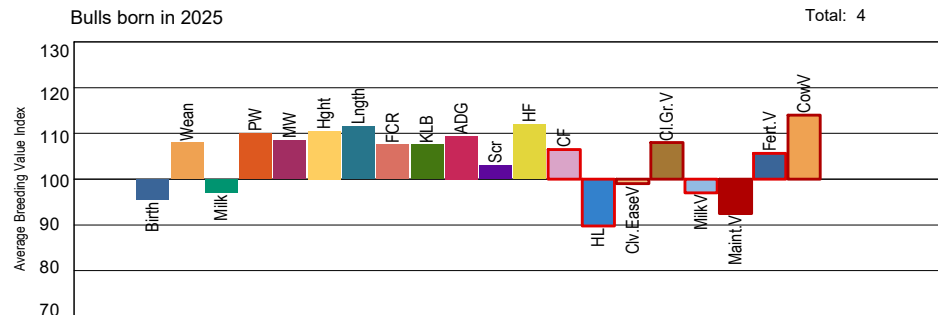


Cows older than 6 years

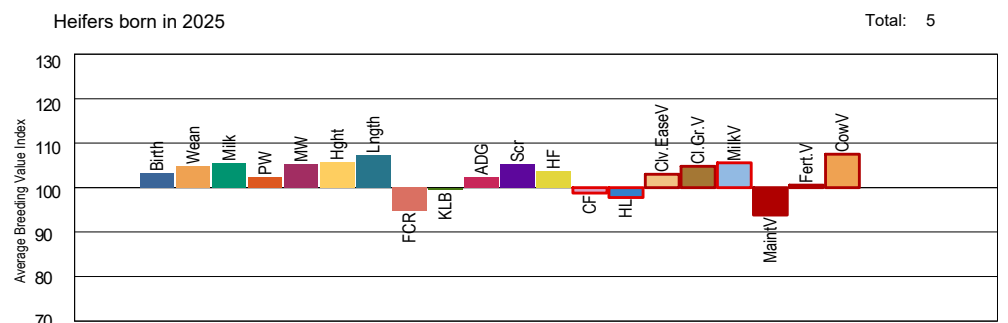


Selection possibilities

Bull calves



Heifer calves

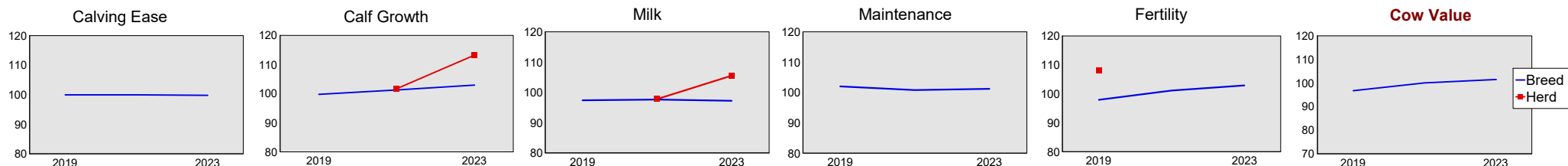


Summary of Cow Herd

			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	101	100	100	99	99	100	100	100	100	100	100	99	99	99	99	100	100	100	99	99
2011	1																								
2012	2			97	109		94				97			109						104		96			
2014	3	★★★★★	94	91	100	97	136	114	95	109	95	91	100	100	101	102	100	97	96	140	123	106	100	105	
2015	7	★★★★★	100	106	102	102	109	110	101	104	97	106	107	102	103	97	102	101	100	107	112	95	104	106	
2016	1																								
2017	2	★★★★☆	97	113	73	97	121	109	102	105	92	113	118	73	111	104	106	108	86	132	102	106	103	104	
2018	1	★★★★	90	103	100	93	96	95			92	103	97	100	102	107	96	95	93	101	80	114	101	101	
2019	5	★★★★★	97	107	103	99	110	110	102	107	97	107	105	103	108	101	105	103	97	120	93	104	105	108	
2020	4	★★★★★	88	112	125	85	99	113	106	111	87	112	104	125	110	114	109	103	112	94	89	122	115	117	
2021	1	★★★★	107	96	113	106	88	98	102	97	104	96	107	113	98	91	102	106	99	98	78	100	93	97	
2022	7	★★★★	102	97	102	103	98	97	95	92	103	97	100	102	97	96	97	98	98	103	93	99	96	96	
2023	7	★★★★★	98	113	102	90	106	114	112	115	95	113	107	102	110	111	110	107	105	106	101	107	111	114	
2024	2	★★★★☆	103	104	93	103	105	104			100	104	109	93	99	96	97	96	96	111	101	95	102	100	
2025	5	★★★★☆	103	105	106	94	101	108			103	105	99	106	102	105	102	100	105	104	99	98	106	107	
Cows in Herd Average:			98	104	102	97	105	107	102	105	97	104	105	102	104	102	102	101	99	110	97	104	103	105	

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.



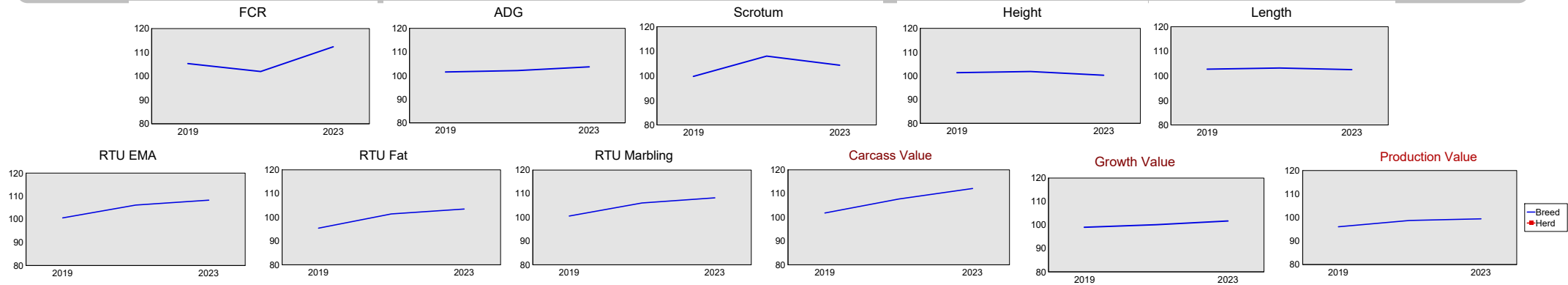
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility						Cow Value		
	Birth Weight		Calv. Ease	Mat EBV	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	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
2019																3	-17.2			3	34.9	108			
2022						6	15.6	102	6	0.11	98														
2023						4	22.0	113	4	2.37	106														

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.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity	
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		
2016	2689	1.09	-0.07	100	1903	13.7	98	1903	-0.18	97	513	20.0	171	13	105	1226	-3.3	906	-4.7	5869	24.3	94	93
2017	2776	1.13	-0.09	100	2154	14.4	99	2154	-0.17	97	642	20.4	214	14	106	1179	-4.1	871	-4.8	5765	25.8	96	93
2018	2956	1.05	-0.07	101	2127	15.3	101	2127	-0.52	96	545	22.6	259	13	105	1243	-3.8	835	-5.5	6004	26.3	97	98
2019	3205	1.15	-0.07	100	2831	14.6	100	2831	-0.05	97	800	23.6	299	15	102	1189	-3.7	844	-5.7	5985	27.5	98	97
2020	3447	1.14	-0.10	100	3076	14.9	100	3076	0.03	98	695	23.9	286	17	102	1192	-3.4	704	-5.7	6060	28.1	99	97
2021	3337	1.21	-0.16	99	3401	15.6	102	3401	0.37	99	732	22.7	273	17	101	1071	-4.0	641	-6.0	5554	29.9	101	100
2022	3474	1.17	-0.14	100	3746	15.4	101	3746	0.01	98	748	23.3	226	18	101	854	-3.8	274	-6.5	2809	29.7	101	100
2023	3301	1.22	-0.18	100	3337	16.3	103	3337	-0.10	97	702	24.6	48	23	101	435	-2.9	15	-7.5			103	102
2024	3311	1.17	-0.16	100	3379	16.1	103	3379	0.56	99	667	25.1			101	21	-6.0					108	103
2025	3015	1.12	-0.13	101	1920	16.2	103	1920	0.86	100	441	17.5			105								104
2026	1509	1.01	-0.07	102	57	13.1	97	57	1.96	104													98

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			
2019																									
2022																									
2023																									

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	EBV	EBVi				
2017	73	-23	102	285	93	100	299	9.4	98	288	11	99	285	24	100	202	0.47	96	-0.03	98	0.58	102	99	97	94	
2018	47	-23	102	220	86	98	275	9.2	98	248	11	98	220	22	98	123	0.85	101	0.10	99	0.72	104	103	95	101	
2019	55	-26	105	256	102	102	338	10.3	100	253	13	101	183	27	103	206	1.00	103	-0.39	95	0.48	101	102	99	96	
2020	30	-25	104	229	95	100	292	10.6	100	170	14	103	138	32	107	206	0.67	99	0.29	101	0.82	105	103	98	100	
2021	35	-19	99	271	100	101	299	14.8	108	278	12	100	271	27	102	196	1.02	103	0.33	101	0.82	105	105	99	99	
2022	22	-22	102	198	104	102	198	14.7	108	198	13	102	198	28	103	83	1.38	107	0.38	101	0.92	106	108	100	99	
2023	28	-34	112	154	111	104	154	12.8	104	154	12	100	154	27	103	99	1.43	108	0.64	103	1.10	108	112	102	99	
2024	28	-28	107	96	148	112	95	14.8	108	135	15	105	135	37	111	104	1.50	109	0.70	104	0.92	106	114	111	107	
2025				94	70	94	94	12.6	104	136	13	101	136	25	100	32	1.90	114	1.19	108	1.46	113		92	95	
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.		
915C4		214 SGT		92	109	94		94				92	109		94							99		87						2		
915/3				6	37	20		10				1.79	19.5		-1.1							-2.7		24.3								
C-P COPPERHEAD 915C4												7	37		20							6		20								
9508		79/4		113	109	90		93				114	109		90		89		86		103	101		82	96	93	119	105	103			
5011 SGT				11	15	20		11				-0.12	19.8		-2.2		14.7		35		11.9	-4.4		20.8	10	17	2.35	0.89	0.67			
RED DOC BLAZE 9508												13	15		20		6		6		9	10		20	8	7	7	6	6			
GS 090047		JR 060034		93	99	122	90	91	98			90	99	112	122	98	108	94	94	98	117	66	97	98	101	96	100	97		104	21	
GS 020002				94	85	71	24	73	73			1.97	14.2	-0.55	7.5	21.8	27	70	-13	9.5	-17.1	1.3	31.1	11	25	0.46	0.25	0.19				
LOCK												96	85	84	71	34	24	21	15	23	81	46	91	23	22	6	6	5		12	14	
GS 100031		GS 060018		94	117	73	88	71	89	104	88	92	117	110	73	110	116	107	107	87	78	77	86	115	115	106	87	95		38	6	
GS 020018				86	70	58	22	62	62	22	54	1.84	24.1	-0.46	-7.4	30.5	35	123	-28	3.5	13.7	-1.1	23.7	21	40	1.30	-1.44	0.05		1	1	
X												91	70	64	58	32	22	28	14	30	65	37	84	30	30	14	13	12				
GS 150020		GS 090047		86	109	109	84	105	105			86	109	108	109	111	117	103	101	92	126	86	92	107	110	105	98	100		6		
K 070069				76	57	52	24	52	53			2.33	19.6	-0.37	3.5	31.4	35	107	-21	6.2	-24.3	-2.8	27.8	16	36	1.18	-0.05	0.41		1	1	
PACMAN												80	57	58	52	26	24	21	16	22	53	33	69	22	22	10	9	9				
GS 160040		GS 070043		91	112	130	80	75	105	107	103	92	112	101	130	105	120	109	105	110	70	81	103	115	120	114	108	113		64	4	
GS 090045				88	66	57	24	57	61	25	54	1.83	21.1	-0.11	9.7	27.3	38	133	-25	15.9	20.2	-1.9	35.2	21	46	1.92	1.22	1.52		4	4	
BULLET												94	66	63	57	29	24	27	22	29	62	30	79	29	28	16	15	14				
GS 170035		JH 140078		95	120	107	79	105	119	118	118	95	120	103	107	119	124	120	110	114	101	104	108	121	128	126	105	112			2	
GS 120025				86	84	83	81	83	78	81	79	1.55	25.5	-0.20	2.9	37.9	42	180	-32	18.1	-4.8	-6.6	38.2	25	54	2.91	0.80	1.40				
ANDRE 2												87	84	83	83	81	81	81	81	81	83	81	85	81	81	81	81	81				
GS 170048		GS 110041		88	114	81	88	98	98	96	95	90	114	101	81	106	115	99	102	93	100	96	101	107	108	99	100	100		36	2	
GS 130031				82	58	44	28	50	54	24	48	2.00	22.4	-0.11	-5.0	27.5	33	90	-22	6.4	-4.0	-4.9	34.0	16	33	0.65	0.16	0.39				
CHOCO												90	58	51	44	38	28	35	11	39	53	29	68	39	37	10	9	8				
JH 140078		KVS 080229		94	100	112	101	98	100	94	96	96	100	98	112	103	96	100	98	104	102	94	100	99	101	108	86	88		83	11	
JH 110018				91	76	63	30	67	68	36	62	1.46	14.8	0.02	4.3	25.5	16	94	-18	12.5	-5.7	-4.5	32.9	11	25	1.46	-1.57	-0.56		6	6	
ARARAT												95	76	76	63	46	30	41	29	44	75	41	86	44	43	39	37	36				
SP 110035		CVF02022		82	121	103	94	99	113	110	111	74	121	97	103	121	105	116	113	101	101	106	88	107	125	135	87	114		3	16	
SP 060001				69	84	72	30	75	69	72	70	3.34	26.0	0.06	1.7	39.1	24	163	-35	11.1	-4.5	-7.0	24.7	16	51	3.69	-1.53	1.57		1	8	11
CONRAD												70	84	63	72	49	30	65	71	75	86	50	89	76	73	65	58	56				
VV 030133		HM 910019		101	94	103	108	72	82	98	81	99	94	107	103	93	90	96	95	101	87	67	86	93	91	95	89	95		9	3	
AT 940014				78	75	64	29	59	63	32	57	1.16	11.3	-0.34	1.6	18.0	10	80	-14	10.8	6.2	1.0	23.6	8	15	0.39	-1.26	0.06				
03 133												82	75	61	64	42	29	41	21	44	59	48	70	44	43	25	23	22				

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.
VV 100108		JL 050119	VV 010199	114	104	99	105	132	123	101	118	113	104	137	99	102	93	106	117	93	130	133	95	103	102	93	117	112		
VV100108				74	74	71	29	73	65	32	58	76	74	68	71	43	29	36	27	38	80	53	86	39	38	32	31	30	5	8
VV 120048		KT 080031	VV 080159	100	107	79	107	98	98	96	95	97	107	111	79	110	93	101	104	85	118	75	101	98	100	84	94	85		
VV120048				70	71	68	15	72	62	26	55	73	71	59	68	22	15	25	24	27	82	47	86	28	27	23	21	21	11	13

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	ID Number Name	% 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
GS 170035 291102937 ANDRE 2		JH 140078 GS 120025	95 86	120 84	107 83	79 81	105 83	119 78	118 81	118 79	124 81	95 1.55 87	103 -0.20 83	124 42 81	120 25.5 84	107 2.9 83	114 89 83	119 37.9 81	120 180 81	110 -32 81	114 18.1 81	101 -4.8 83	104 -6.6 81	108 38.2 85	121 25 81	128 54 81	126 2.91 81	105 0.80 81	112 1.40 81	
GS 180042 2911188373 FAF	2 	GS 100031 GS 120038	88 82	121 81	91 77	91 74	85 77	104 74	109 74	103 74	110 74	83 2.55 83	114 -0.61 78	110 29 74	121 26.2 81	91 -1.9 77	108 74 77	114 34.1 74	110 138 74	107 -28 74	94 6.9 75	89 5.3 77	81 -1.9 75	102 34.6 80	118 23 75	119 45 74	113 1.81 74	98 -0.12 74	100 0.39 74	
BJ9 240045 99893521 24 45		GS 170035 BJ9 170062	103 34	100 28	111 22	91 10	103 22	105 24			104 10	105 0.65 36	92 0.26 27	108 27 10	100 14.9 28	111 4.2 22	106 69 20	98 21.6 14	99 91 12	86 -3 9	107 14.3 13	105 -7.6 24	106 -7.1 12	93 28.3 30	107 16 13	107 32 13	110 1.63 11	111 1.63 10	112 1.41 10	
BJ9 250001 99893505 MIKE		915C4 UOJ 170043	94 20	111 30	83 26	98 6	107 23	104 23			101 10	92 1.79 21	110 -0.47 17	103 22 6	111 20.7 30	83 -4.4 26	95 43 21	104 26.5 8	101 97 10	101 -21 11	96 8.0 12	115 -15.8 25	100 -5.8 14	97 30.8 31	102 13 12	102 27 11	100 0.74 10	109 1.33 9	101 0.54 9	
BJ9 250015 99894081 25 15	1	GS 170035 UOJ 150058	104 39	118 37	103 37	87 13	113 33	124 33			120 13	99 1.18 41	115 -0.65 32	114 33 13	118 24.4 37	103 1.7 37	113 86 29	116 35.1 18	118 172 15	114 -37 11	110 16.0 16	109 -10.7 39	113 -8.4 18	107 37.7 42	119 23 16	121 47 16	120 2.45 13	108 1.19 13	111 1.28 12	

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Green: >120 High
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Inbreeding in red is high

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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																													
UOJ 140046		SP 110035 UOJ 110001	94 35	105 44	95 41	97 15	136 48	114 38	95 36	109 38	102 30	95 1.57	100 -0.07	102 21	105 17.4	95 -0.8	99 52	101 24.3	100 93	92 -10	96 8.1	140 -35.6	123 -10.6	106 37.3	100 12	105 30	111 1.67	110 1.46	114 1.56
UOJ 140046												36	33	15	44	41	33	25	33	35	37	59	26	58	38	36	32	29	28
UOJ 150043		VV 100108 UOJ 120087	121 37	92 37	107 35	106 14	129 46	116 34			93 16	115 -0.20	112 -0.54	92 12	92 10.4	107 2.7	101 56	89 15.0	93 66	91 -10	95 7.6	127 -25.0	126 -11.1	103 35.0	101 12	96 20	91 0.01	117 2.43	112 1.41
UOJ 150043												38	34	14	37	35	29	22	18	13	19	58	26	54	19	19	16	15	15
UOJ 150044		SP 110035 UOJ 120076	88 79	101 80	101 81	102 76	103 80	96 74	94 78	93 75	93 77	93 1.75	89 0.35	96 16	101 15.2	101 1.1	103 61	102 24.7	97 81	91 -10	98 9.6	96 -0.8	103 -6.4	111 40.3	93 8	102 27	115 1.98	80 -2.33	109 1.15
UOJ 150044												79	78	76	80	81	79	76	77	78	78	82	77	82	78	78	77	77	77
UOJ 150058		VV 100108 UOJ 120065	107 81	116 82	99 83	94 78	122 82	127 76	111 78	124 76	115 78	103 0.82	127 -1.10	105 24	116 23.4	99 0.5	112 83	112 32.4	116 164	119 -42	107 13.9	116 -16.7	122 -10.2	106 37.2	116 22	114 40	115 1.99	111 1.57	109 1.16
UOJ 150058												81	80	78	82	83	81	79	79	78	79	83	79	83	79	79	78	78	78
UOJ 150062		SP 110035 UOJ 100015	83 78	113 78	102 78	104 75	82 78	99 73	98 77	96 74	102 76	75 3.24	99 -0.03	94 14	113 21.7	102 1.3	115 92	108 29.1	103 109	98 -17	99 9.7	87 6.2	96 -4.9	76 16.3	105 15	113 38	114 1.96	88 -1.40	101 0.49
UOJ 150062		TRIPLE-S 15-0062UOJ										78	77	75	78	78	77	76	77	77	77	78	76	79	77	77	77	76	76
UOJ 170043		VV 120048 UOJ 140046	97 81	113 81	73 82	97 78	121 81	109 76	102 79	105 77	105 79	92 1.79	118 -0.78	104 23	113 21.8	73 -7.6	87 24	111 31.6	106 121	106 -27	86 2.9	132 -28.9	102 -6.1	106 37.4	103 14	104 29	95 0.33	112 1.77	101 0.53
UOJ 170043												81	80	78	81	80	80	78	79	79	79	82	79	83	79	79	79	79	79
GS 180011	2	GS 090047 GS 100033	90 71	103 52	100 47	93 16	96 51	95 49			93 6	92 1.77	97 0.03	107 26	103 16.5	100 0.6	100 54	102 24.7	96 78	99 -18	93 6.8	101 -4.8	80 -1.7	114 42.5	101 12	101 25	96 0.43	95 -0.43	96 0.12
GS 18-11												74	61	16	52	47	38	22	16	10	18	62	29	61	18	17	7	6	6
BJ9 190002		VV 120048 UOJ 150044	94 82	98 84	103 85	108 80	105 83	98 78	91 80	94 78	90 80	97 1.35	92 0.24	90 10	98 13.5	103 1.6	103 62	103 25.4	96 79	97 -17	93 6.6	117 -17.0	88 -3.2	105 36.2	91 7	98 22	100 0.73	88 -1.28	95 0.00
BJ9 19-02												82	81	80	84	85	83	80	80	80	81	85	81	84	81	81	80	80	80
BJ9 190004	1	VV 120048 UOJ 150043	113 80	99 79	92 79	108 77	116 81	109 74	94 77	104 75	94 77	107 0.48	116 -0.70	91 11	99 14.4	92 -1.8	95 43	99 22.7	99 90	101 -21	87 3.6	124 -22.9	104 -6.7	103 34.8	103 14	100 25	83 -0.60	106 0.97	99 0.32
BJ9 19-04												80	79	77	79	79	78	77	77	77	77	82	78	82	77	77	77	77	77
BJ9 190006			94 75	104 75	111 74	104 74	100 74	105 70	106 74	103 71	105 74	95 1.55	100 -0.08	94 13	104 16.8	111 4.0	115 90	107 28.8	108 131	103 -24	102 11.5	105 -7.7	90 -3.8	105 36.4	102 13	106 32	98 0.64	107 1.04	104 0.78
BJ9 19-6												75	74	74	75	74	74	74	74	74	74	74	74	75	74	74	74	74	74
GS 190016	3	GS 150020 GS 080034	88 83	126 80	105 80	77 76	120 80	128 75	118 76	126 75	121 76	87 2.25	110 -0.45	127 45	126 28.8	105 2.1	116 94	123 41.1	115 158	107 -28	104 12.5	133 -30.3	88 -3.4	121 47.3	122 25	126 53	119 2.33	102 0.48	101 0.53
REHAI												84	80	76	80	80	79	76	76	76	76	81	77	81	76	76	76	76	76
GS 200002	3	GS 160040 GS 160025	87 84	120 80	137 80	79 76	92 79	122 75	116 76	121 75	123 76	81 2.78	111 -0.48	120 39	120 25.6	137 12.1	139 149	114 33.9	116 165	109 -31	119 20.6	81 11.6	84 -2.5	130 53.5	128 29	130 58	124 2.78	105 0.81	113 1.46
291277622												85	80	76	80	80	79	76	76	76	76	78	77	81	76	76	76	76	76
MIA																													

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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																														
GS 200039 291293017 GS20-39		JH 140078	GS 150009	89 83	104 79	112 79	91 74	105 78	104 74	96 74	100 74	98 74	92 1.82 84	97 0.05 79	108 27 74	104 16.7 79	112 4.5 79	110 79 77	105 26.9 75	101 99 75	103 -23 74	105 12.9 75	106 -8.7 78	94 -4.5 75	113 42.2 80	102 13 75	104 29 75	106 1.27 74	94 -0.53 74	94 -0.03 74
BJ9 210004 98933500 BJ9 210004		VV 030133	BJ9 190006	107 78	96 77	113 76	106 75	88 76	98 72	102 75	97 73	97 75	104 0.74 78	107 -0.35 76	91 11 75	96 12.5 77	113 4.8 76	111 80 76	98 21.6 75	102 104 75	98 -18 75	99 9.7 75	98 -2.1 76	78 -1.2 76	100 32.7 77	93 8 75	97 22 75	98 0.61 75	96 -0.38 75	98 0.25 75
BJ9 220003 98933484 BJ9 22-03		VV 030133	UOJ 150044	103 43	86 64	105 44	114 16	88 39	84 46	87 25	81 42	80 19	104 0.74 45	96 0.10 35	85 5 16	86 7.2 64	105 2.3 44	96 45 41	89 14.7 24	88 43 26	87 -4 21	91 5.5 29	95 0.1 42	82 -2.2 28	99 32.4 48	83 2 29	86 9 28	95 0.39 20	84 -1.89 18	100 0.41 18
BJ9 220011 97189799 BJ9 22-11	2	GS 170048	GS 200039	84 54	116 61	95 36	85 17	101 34	105 45			107 10	85 2.38 58	101 -0.09 37	117 36 17	116 23.5 61	95 -0.9 36	104 64 38	111 31.6 24	106 122 21	107 -28 10	105 13.1 23	101 -4.4 36	97 -5.1 20	107 37.8 46	112 19 23	114 39 23	109 1.54 11	98 -0.11 10	99 0.32 10
BJ9 220013 98884778 BJ9 22-13		VV 030133		109 39	88 38	112 32	101 14	100 30				93 12	111 0.12 41	90 0.32 31	96 16 14	88 8.1 38	112 4.3 32	99 52 28	87 12.8 21	87 41 20	75 10 11	106 13.9 22	109 -10.7 30	95 -4.8 25	92 27.6 35	94 8 22	92 16 21	97 0.54 12	121 2.85 12	134 3.15 11
BJ9 220016 98919194 BJ9 22-16		VV 030133	UOJ 150058	106 79	109 82	100 79	98 76	98 79	110 75	107 76	108 75	104 76	102 0.96 79	123 -0.95 78	100 20 76	109 19.8 82	100 0.8 79	108 75 79	108 29.0 77	109 134 77	111 -33 76	104 12.8 77	99 -3.1 79	94 -4.7 77	103 35.2 80	113 20 77	109 34 77	109 1.54 76	97 -0.24 76	104 0.76 76
BJ9 220017 98898869 BJ9 22-17	2		VV 030133	93 81	96 83	102 81	104 78	95 80	90 76	95 78	88 76	88 78	96 1.49 81	96 0.09 79	94 14 78	96 12.5 83	102 1.2 81	99 52 81	97 21.2 78	96 77 78	95 -14 78	102 11.5 78	104 -7.4 80	84 -2.5 79	100 33.2 81	91 7 78	91 15 78	97 0.49 78	91 -0.98 78	95 0.02 78
BJ9 220018 98919228 BJ9 22-18			UOJ 170043	118 76	88 80	95 76	113 75	107 76	97 72	89 75	92 73	84 75	118 -0.41 76	95 0.12 76	86 6 75	88 8.1 80	95 -0.7 76	89 27 77	92 17.2 75	94 69 75	103 -23 75	80 -0.4 75	110 -11.7 76	108 -7.5 75	94 28.9 77	85 3 75	84 8 75	83 -0.60 75	98 -0.12 75	104 0.72 75
BJ9 230003 98884786 BJ9 23-03	1		GS 170035	107 82	111 81	100 81	97 79	100 81	114 76	108 79	111 77	109 79	104 0.73 82	108 -0.39 80	102 21 79	111 21.0 81	100 0.9 81	110 78 80	111 31.8 79	112 146 79	110 -32 79	101 11.1 79	101 -4.8 81	95 -4.9 79	104 35.7 82	109 18 79	112 38 79	117 2.15 79	94 -0.57 79	100 0.41 79
BJ9 230004 98919236 BJ9 23-04	1		GS 170035	94 82	116 81	85 80	84 79	122 80	114 76	107 79	112 77	111 79	91 1.91 82	114 -0.62 80	119 37 79	116 23.7 81	85 -3.9 80	96 44 80	111 31.9 79	109 134 79	107 -28 79	95 7.7 79	126 -24.3 80	107 -7.3 79	110 40.0 82	110 18 79	112 38 79	105 1.19 79	108 1.24 79	107 0.96 79
BJ9 230005 98884794 BJ9 23-5	6		GS 170035	85 82	133 83	120 79	74 77	98 79	131 76	127 78	130 76	136 77	77 3.09 82	106 -0.30 80	130 47 77	133 33.0 83	120 6.7 79	133 134 80	127 43.8 78	126 208 78	114 -37 77	122 22.1 78	91 3.6 79	93 -4.4 78	118 45.1 81	134 33 78	139 67 78	135 3.67 77	109 1.32 77	115 1.68 77
BJ9 230006 98884810 BJ9 23-06		GS 170035		98 78	113 77	105 77	90 76	107 77	116 72	111 76	114 73	115 76	96 1.46 78	109 -0.41 77	110 29 76	113 22.0 77	105 2.2 77	112 84 77	111 32.0 76	113 153 76	108 -29 76	104 12.8 76	105 -7.6 77	102 -6.2 76	110 40.0 77	109 18 76	116 42 76	116 2.10 76	105 0.78 76	105 0.81 76

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BJ9 230014 98898851 BJ9 23-14		GS 170035 BJ9 140001	111 34	93 55	107 31	97 10	105 23	100 36			96 10	113 0.03 36	91 0.27 27	101 21 10	93 10.6 55	107 2.9 31	98 49 32	91 16.5 14	92 60 12	80 3 9	100 10.4 13	107 -9.7 24	104 -6.6 12	97 31.2 34	98 11 13	99 23 13	103 0.99 11	111 1.55 10	110 1.25 10
BJ9 230017 98922727 BJ9 23-17		915C4 UOJ 150058	102 19	112 59	97 31	96 7	108 26	114 34			107 8	98 1.31 19	115 -0.66 17	104 23 7	112 21.3 59	97 -0.3 31	109 76 32	107 28.4 11	107 124 9	108 -30 7	107 14.2 10	107 -9.4 30	110 -7.9 14	99 32.2 34	110 18 10	108 33 10	111 1.68 8	108 1.24 8	106 0.88 8
BJ9 230019 98933492 BJ9 230019		915C4 G-BJ9 190002	87 76	115 80	98 77	91 75	104 77	109 73	106 75	106 73	110 75	87 2.22 76	105 -0.28 76	109 28 75	115 23.0 80	98 0.2 77	109 76 77	115 34.5 76	111 144 75	113 -36 75	106 13.7 75	105 -7.6 77	94 -4.5 76	112 40.9 77	109 18 76	112 38 75	115 1.99 75	95 -0.43 75	105 0.86 75
BJ9 240044 6020258734 24 44		915C4 BJ9 190004	103 20	104 27	93 20	103 5	105 25	104 21			95 7	100 1.13 21	109 -0.44 17	96 15 5	104 17.0 27	93 -1.5 20	99 53 17	99 22.0 8	97 82 8	98 -18 7	96 8.3 9	111 -12.8 31	101 -6.1 13	95 29.5 30	102 13 9	100 24 8	94 0.27 7	106 0.93 7	100 0.43 7
BJ9 250014 99894057 25 14		GS 170035 BJ9 150009	103 34	100 28	111 22	91 10	103 24	105 25			104 10	105 0.65 36	92 0.26 27	108 27 10	100 14.9 28	111 4.2 22	106 69 20	98 21.6 14	99 91 12	86 -3 9	107 14.3 13	105 -7.6 24	106 -7.1 12	93 28.3 36	107 16 13	107 32 13	110 1.63 11	111 1.63 10	112 1.41 10
BJ9 250028 99894065 25 28		GS 170035 BJ9 140001	106 34	98 31	106 30	93 10	104 22	102 27			101 10	108 0.41 36	92 0.22 27	106 25 10	98 13.8 31	106 2.4 30	100 55 24	96 20.0 14	97 81 12	84 -1 9	105 13.0 13	106 -8.3 24	106 -6.9 12	94 29.2 31	104 14 13	104 29 13	108 1.42 11	111 1.60 10	111 1.36 10
BJ9 250029 99894073 25 29	1	GS 170035 BJ9 190002	94 39	109 38	105 38	92 12	105 33	108 33			107 14	96 1.45 41	98 0.02 32	107 26 12	109 19.5 38	105 2.2 38	109 76 29	111 31.6 16	108 129 16	104 -24 14	104 12.4 18	109 -10.9 39	96 -4.9 18	106 37.2 42	106 16 18	113 38 17	113 1.82 15	97 -0.24 13	103 0.70 13
BJ9 250040 99894099 YELLOW BONE		9508 BJ9 210004	110 20	103 20	102 17	105 7	90 16				92 6	109 0.31 21	99 -0.03 15	93 12 7	103 16.2 20	102 1.3 17	106 69 15	94 18.2 10	94 70 11	89 -6 5	101 10.8 12	99 -3.2 16	87 -3.2 12	91 26.7 21	95 9 12	95 19 11	97 0.52 7	103 0.58 6	100 0.41 6
BJ9 250041 99893398 25 41		GS 170035 BJ9 220016	102 40	114 42	104 31	88 13	101 30	115 33			114 12	98 1.25 42	113 -0.58 32	112 31 13	114 22.6 42	104 1.9 31	111 82 29	113 33.4 18	114 157 17	111 -32 11	109 15.4 18	100 -3.9 32	99 -5.6 19	105 36.7 39	117 22 18	118 44 17	118 2.23 13	101 0.28 12	108 1.08 12

Selection List on Cow Value

Bulls 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				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	GS 170035 ANDRE 2	JH 140078	GS 120025	0.3	HH	1	0	0		9586	12084	10783	7981	10583	11978	11881	11879	
1	BJ9 240045 24 45	GS 170035	BJ9 170062	0.0						10334	10028	11122	9110	10322	10524			
2	GS 180042 FAF	GS 100031	GS 120038	2.0	HH	0	0	0		8882	12181	9177	9174	8577	10474	10974	10374	

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID						nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★★★★																
1	BJ9 230005	BJ9 23-5	GS 170035	GS 200002	5.6	HH	1	0	0		85	82	133	83	120	79	74	77	98	79	131	76	127	78	130	76
										★★★★★☆																
1	GS 190016	REHAI	GS 150020	GS 080034	2.6	HH	0	0	0		88	83	126	80	105	80	77	76	120	80	128	75	118	76	126	75
2	GS 200002	MIA	GS 160040	GS 160025	2.5	HH	0	0	0		87	84	120	80	137	80	79	76	92	79	122	75	116	76	121	75
3	UOJ 150058	UOJ 150058	VV 100108	UOJ 120065	0.0	HH	0	0	0		107	81	116	82	99	83	94	78	122	82	127	76	111	78	124	76
										★★★★★																
1	BJ9 220016	BJ9 22-16	VV 030133	UOJ 150058	0.3	HH	0	0	0		106	79	109	82	100	79	98	76	98	79	110	75	107	76	108	75
2	BJ9 230003	BJ9 23-03	GS 170035	BJ9 190003	0.7	HH	0	0	0		107	82	111	81	100	81	97	79	100	81	114	76	108	79	111	77
3	BJ9 230004	BJ9 23-04	GS 170035	UOJ 170043	0.5	HH	1	0	0		94	82	116	81	85	80	84	79	122	80	114	76	107	79	112	77
4	BJ9 230006	BJ9 23-06	GS 170035		0.0	HH	0	0	0		98	78	113	77	105	77	90	76	107	77	116	72	111	76	114	73
5	BJ9 230017	BJ9 23-17	915C4	UOJ 150058	0.0						102	19	112	59	97	31	96	7	108	26	114	34				
6	UOJ 140046	UOJ 140046	SP 110035	UOJ 110001	0.0						94	35	105	44	95	41	97	15	136	48	114	38	95	36	109	38
7	UOJ 150043	UOJ 150043	VV 100108	UOJ 120087	0.0						121	37	92	37	107	35	106	14	129	46	116	34				
										★★★★☆																
1	BJ9 190004	BJ9 19-04	VV 120048	UOJ 150043	1.2	HH	0	0	0		113	80	99	79	92	79	108	77	116	81	109	74	94	77	104	75
2	BJ9 190006	BJ9 19-6			0.0	PcH	0	0	0		94	75	104	75	111	74	104	74	100	74	105	70	106	74	103	71
3	BJ9 220011	BJ9 22-11	GS 170048	GS 200039	1.9						84	54	116	61	95	36	85	17	101	34	105	45				
4	BJ9 230014	BJ9 23-14	GS 170035	BJ9 140001	0.0						111	34	93	55	107	31	97	10	105	23	100	36				
5	BJ9 230019	BJ9 230019	915C4	BJ9 190002	0.0	PcH	0	0	0		87	76	115	80	98	77	91	75	104	77	109	73	106	75	106	73
6	BJ9 240044	24 44	915C4	BJ9 190004	0.0						103	20	104	27	93	20	103	5	105	25	104	21				
7	GS 200039	GS20-39	JH 140078	GS 150009	0.3	PcH	0	0	0		89	83	104	79	112	79	91	74	105	78	104	74	96	74	100	74
8	UOJ 170043	UOJ 170043	VV 120048	UOJ 140046	0.2	HH	0	0	0		97	81	113	81	73	82	97	78	121	81	109	76	102	79	105	77
										★★★★																
1	BJ9 190002	BJ9 19-02	VV 120048	UOJ 150044	0.2	HH	0	0	0		94	82	98	84	103	85	108	80	105	83	98	78	91	80	94	78

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★★																	
2	BJ9 210004	BJ9 210004	VV 030133	BJ9 190006	0.0	HH	0	0	0		107	78	96	77	113	76	106	75	88	76	98	72	102	75	97	73	
3	BJ9 220017	BJ9 22-17	VV 030133	BJ9 190002	2.0	HH	0	0	0		93	81	96	83	102	81	104	78	95	80	90	76	95	78	88	76	
4	BJ9 220018	BJ9 22-18		UOJ 170043	0.0	HH	0	0	0		118	76	88	80	95	76	113	75	107	76	97	72	89	75	92	73	
5	GS 180011	GS 18-11	GS 090047	GS 100033	2.4						90	71	103	52	100	47	93	16	96	51	95	49					
6	UOJ 150044	UOJ 150044	SP 110035	UOJ 120076	0.0	HH	0	0	0		88	79	101	80	101	81	102	76	103	80	96	74	94	78	93	75	
7	UOJ 150062	TRIPLE-S 15-0062UOJ	SP 110035	UOJ 100015	0.0	HH	2	0	0		83	78	113	78	102	78	104	75	82	78	99	73	98	77	96	74	
										★★★★☆																	
1	BJ9 220003	BJ9 22-03	VV 030133	UOJ 150044	0.1						103	43	86	64	105	44	114	16	88	39	84	46	87	25	81	42	

Selection List on Cow Value

Bull Calves younger than 2 years

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				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	BJ9 250015 25 15	GS 170035	UOJ 150058	0.5						104 39	118 37	103 37	87 13	113 33	124 33			
1	BJ9 250001 MIKE	915C4	UOJ 170043	0.0						94 20	111 30	83 26	98 6	107 23	104 23			

Selection List on Cow Value

Heifers younger than 2 years

ID Name Sorted on ID			Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				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	
							nt821	Q204X	F94L	Genomic tested									
											★★★★★								
1	BJ9 250041	25 41	GS 170035	BJ9 220016	0.3						102 40	114 42	104 31	88 13	101 30	115 33			
											★★★★★								
1	BJ9 250014	25 14	GS 170035	BJ9 150009	0.0						103 34	100 28	111 22	91 10	103 24	105 25			
2	BJ9 250028	25 28	GS 170035	BJ9 140001	0.0						106 34	98 31	106 30	93 10	104 22	102 27			
3	BJ9 250029	25 29	GS 170035	BJ9 190002	0.5						94 39	109 38	105 38	92 12	105 33	108 33			

	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.

