

BEEFMASTER

GENOMIC BREEDING VALUE REPORT

September 2026



MALACHI STUD & RACING

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BEEFMASTER
CATTLE BREEDERS' SOCIETY OF SA
BEESTELERSGENOOTSAP VAN SA



EBVs, EBVi's and GEBVs

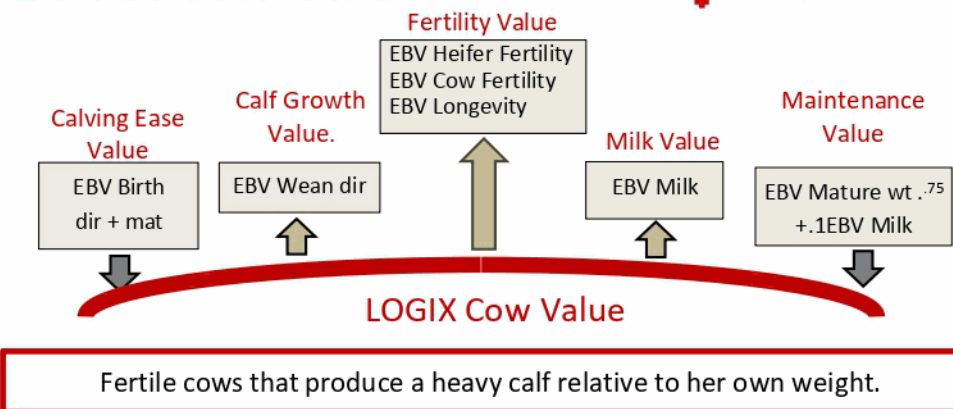
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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 Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

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.

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)

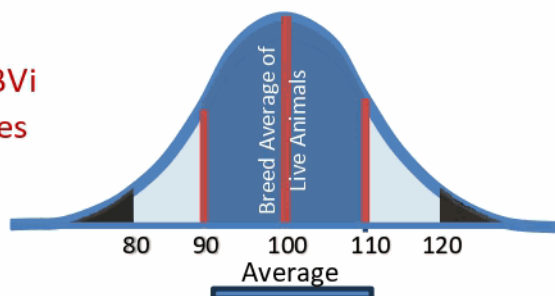
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

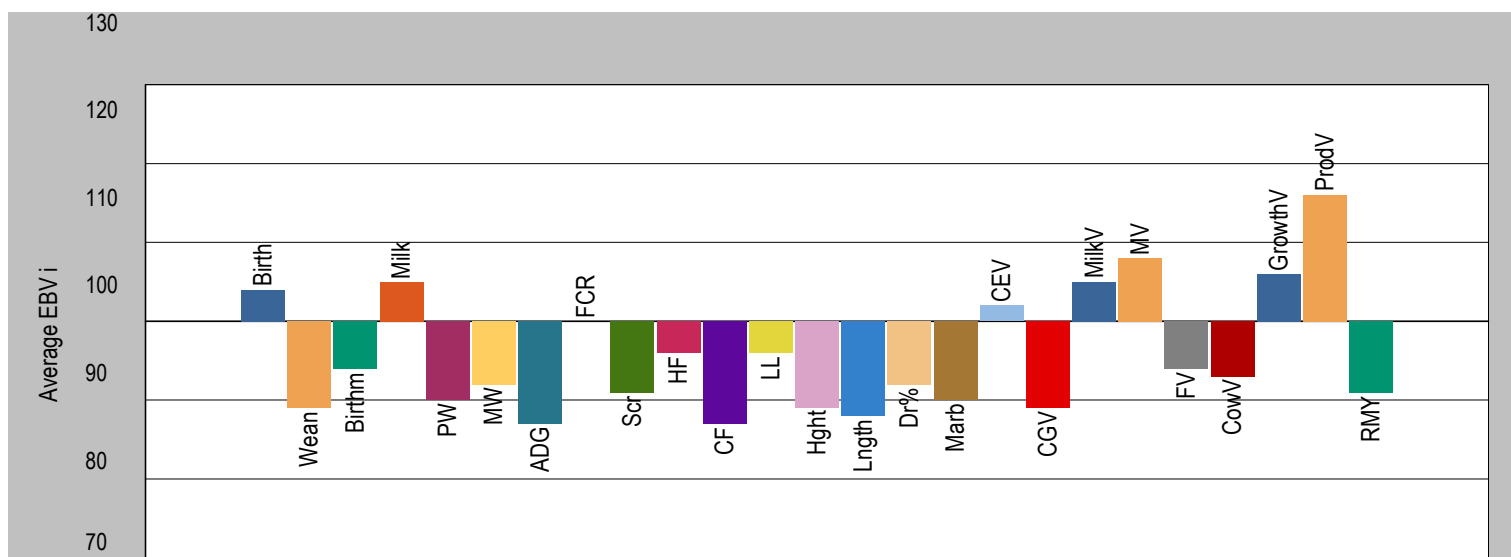
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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	EMA:	Eye Muscle Area
FCR:	Feed Conversion Ratio	RMV:	Carcass Value
		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	0.02	104	0.34
	Wean Weight	5.9	89	12.1
	Birth Mat.	0.17	94	-0.05
	Milk (Wn.Mat.)	0.0	105	-1.4
Postwean Growth	Postwean Wt	11.0	90	19.0
	Mature Weight	-2	92	7
	ADG	26	87	72
	FCR	-39	100	-39
Fertility	Scrotal Circumf.	5.9	91	11.1
	Heifer Fertility	-4.6	96	-7.5
	Cow Fertility	-1.4	87	-4.1
	Longevity	12.2	96	14.8
Frame	Height	-5	89	1
	Length	2	88	13
Carcass	EMA	0.13	93	0.85
	Fat	-0.33	93	0.11
	Marbling	-0.24	90	0.30

Selection Value	Ave. Herd
Calving Ease	102
Calf Growth	89
Milk	105
Maintenance	108
Fertility	94
Cow Value	93
Growth Value	106
Production Value	116
Carcass Value	91

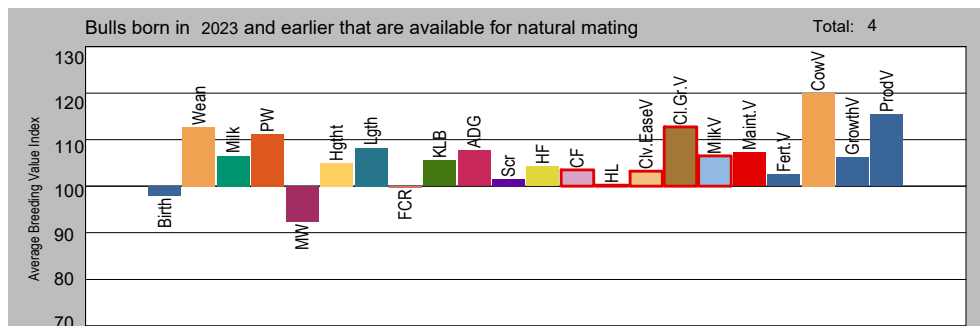
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

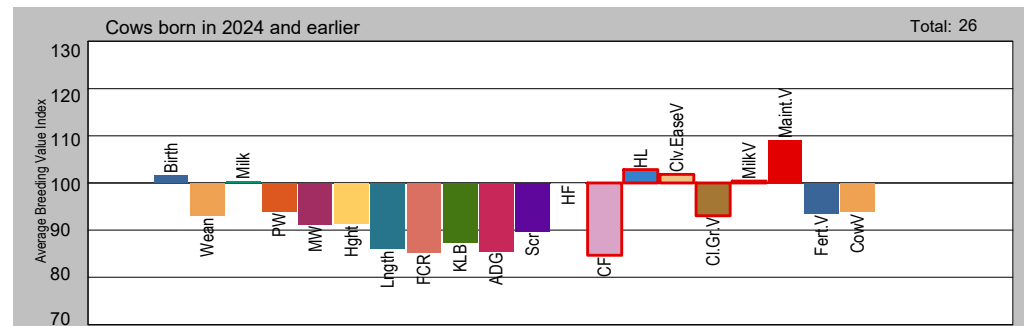
Genetic Windows

Bulls on the farm



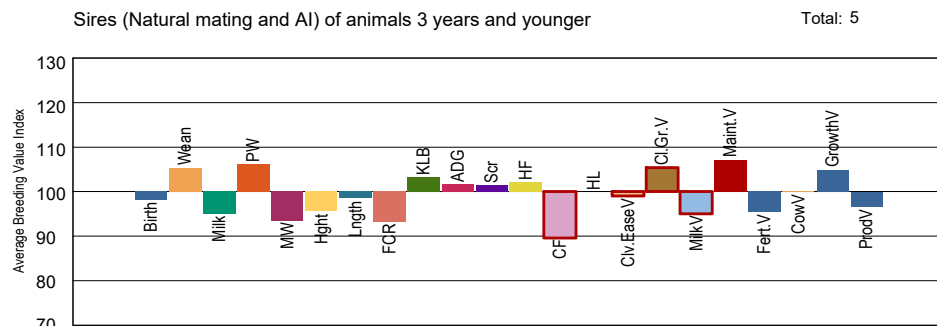
Animals available for breeding

Cow Herd

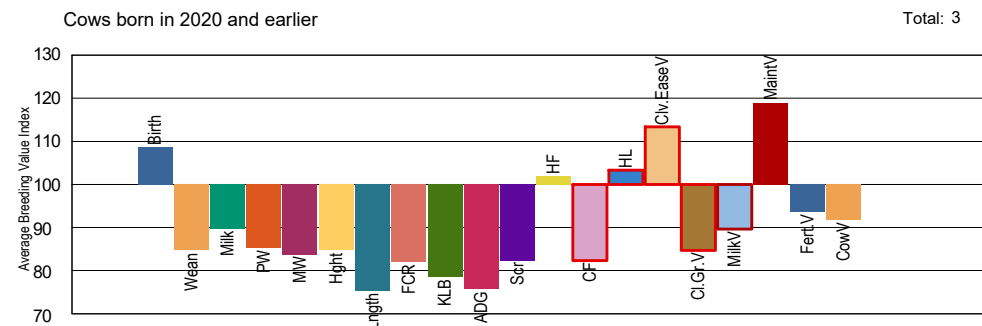


Results of previous selection decisions

Sires of young animals

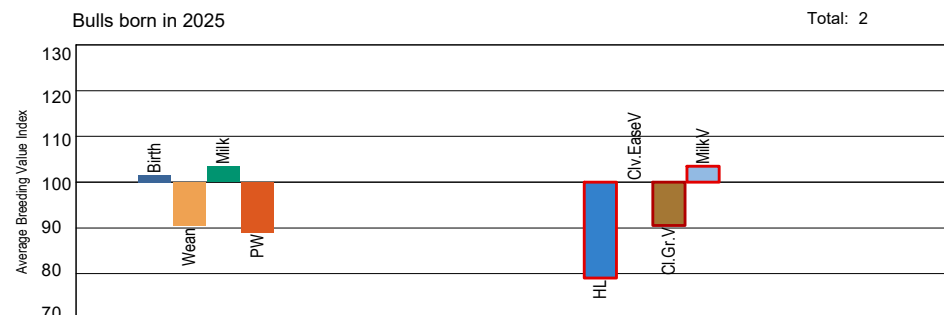


Cows older than 6 years

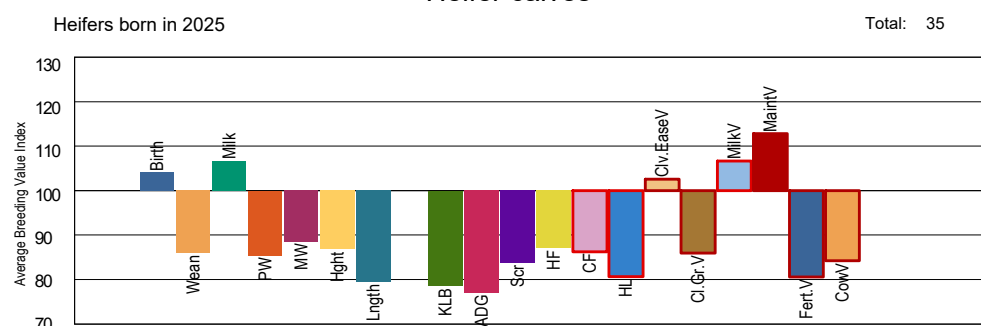


Selection possibilities

Bull calves



Heifer calves

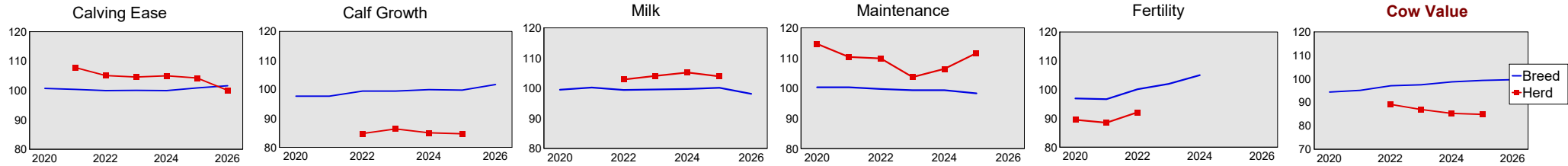


Summary of Cow Herd

			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	99	100	101	100	100	99	100	100	99	99	100	99	99	99	99	99	99	100	100	100	99	99
2011	2		99	84	112						105	84	82	112	83							96			
2012	3		116	80	105	125	91				114	80	100	105	79	76			95	82	92				
2013	1		95	99	98	95					95	99	100	98	98	104			98		103				
2014	1		101	86	94	102					107	86	79	94	85	97			79		101				
2015	1		103	83	105						108	83	84	105	82						98				
2016	3		103	86	117	91	92				105	86	90	117	85	107			94	94	94				
2017	1		113	85	113						111	85	101	113	84						100				
2018	2		96	87	117	87	96				102	87	82	117	90	110				101	88	97			
2019	6		108	83	108	103					109	83	92	108	82	96				103		97			
2020	11	★★★★	105	85	103	115	95	92			106	85	94	103	86	87	76	79	83	101	81	103	86	76	
2021	11	★★★★	104	85	109	104	92	90			105	85	94	109	86	95	78	81	84	92	87	97	85	78	
2022	18	★★★★	100	89	103	109	98	96			102	89	94	103	91	91	82	85	88	102	84	109	90	83	
2023	20	★★★★	104	96	99	104	98	92			104	96	96	99	97	96	90	91	94	102	88	108	99	90	
2024	17	★★★★	98	92	106	105	92	93			100	92	95	106	91	95	92	94	94	92	86	93	98	92	
2025	35	★★★★☆	103	86	107	113	81	84			104	86	94	107	85	88	77	79	84	87	86	81	87	80	
2026	1		103	83	106						106	83	90	106	82							80			
Cows in Herd Average:			103	87	106	104	93	91			105	87	92	106	87	95	83	85	88	96	86	97	91	83	

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.



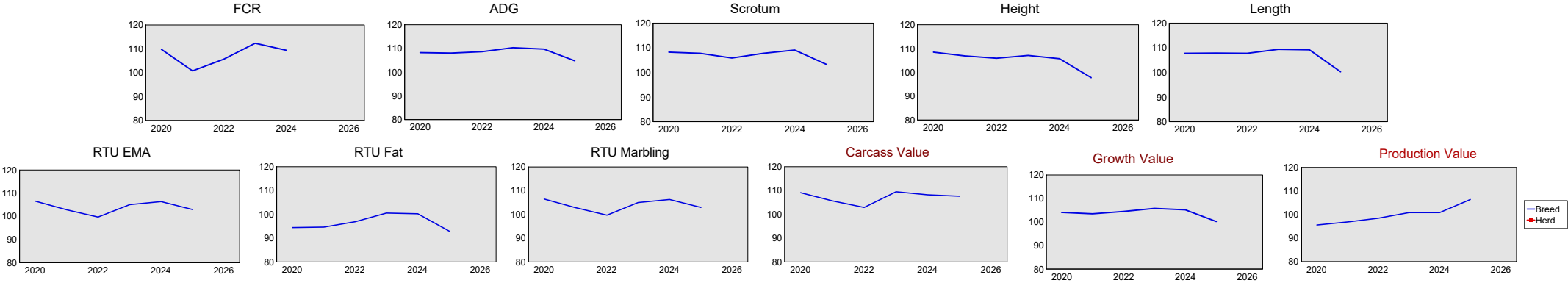
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility								Cow Value
	Birth Weight		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	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	Number	EBV	
2020																									
2021	14	-0.29	0.08	108																					
2022	67	-0.16	0.15	105	16	3.3	85	16	-0.56	103															
2023	61	-0.10	0.12	105	45	4.2	86	45	-0.27	104	28	11.0													
2024	80	-0.15	0.15	105	75	3.4	85	75	0.04	105	17	12.5													
2025	95	-0.08	0.15	104	35	3.3	85	35	-0.31	104	10	10.8													
2026	1	0.32	0.05	100																					

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	13219	0.14	0.07	102	12679	9.1	95	12679	-1.48	100	8440	15.3	1794	3	102	3547	-3.4	2382	-3.3	17317	7.0	92	91	
2017	13995	0.13	0.10	101	13543	9.5	95	13543	-1.37	100	9155	16.1	1876	5	102	3705	-3.9	2610	-3.3	17744	7.7	93	92	
2018	14638	0.19	0.05	101	14085	10.0	96	14085	-1.34	100	9471	16.9	2043	6	101	3752	-4.9	2671	-3.5	18478	8.4	96	93	
2019	14156	0.27	0.02	100	13892	10.8	98	13892	-1.52	100	9219	18.0	2528	6	101	4491	-5.8	3152	-3.8	18218	9.0	97	94	
2020	15148	0.25	0.00	101	15376	10.8	98	15376	-1.55	99	10390	17.9	2588	6	100	4524	-5.8	3018	-3.8	19306	9.7	97	94	
2021	16009	0.27	0.04	100	16004	10.8	98	16004	-1.35	100	10852	18.0	2635	6	100	4750	-5.2	2794	-3.8	18490	8.9	97	95	
2022	17601	0.32	-0.01	100	16942	11.8	99	16942	-1.58	99	11576	19.5	2295	8	100	4355	-6.7	1065	-4.2	8636	9.8	100	97	
2023	18573	0.32	-0.02	100	18307	11.8	99	18307	-1.53	100	11750	19.7	741	11	99	2183	-7.2	100	-4.8			102	98	
2024	18117	0.35	-0.05	100	16963	12.1	100	16963	-1.48	100	9904	20.0	3	6	99	166	-7.7					105	99	
2025	17947	0.27	-0.03	101	15468	12.0	100	15468	-1.38	100	2468	22.0			98									99
2026	5644	0.19	0.00	102	192	13.1	102	192	-1.95	98														100

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			
2020																									
2021																									
2022																									
2023																									
2024																									
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	62	-38	100	1015	76	101	979	12.8	103	953	4	105	953	15	102	101	0.00	91	0.00	98	0.00	95	93	97	91	
2018	16	-50	110	835	94	106	830	14.6	106	830	6	107	830	18	105	33	1.18	103	0.28	103	0.55	104	108	102	93	
2019	13	-43	103	772	95	106	773	14.5	106	767	6	108	766	19	106	32	0.58	97	-0.14	96	0.44	102	100	101	94	
2020	15	-50	110	1035	102	108	1026	15.8	108	960	6	108	960	21	108	60	1.56	107	-0.22	94	0.67	107	109	104	96	
2021	20	-40	101	1162	102	108	1151	15.5	108	1048	5	107	1048	21	108	148	1.41	106	-0.20	95	0.46	103	106	104	97	
2022	20	-45	106	1222	104	109	1266	14.4	106	1115	5	106	1115	21	108	147	1.11	103	-0.08	97	0.28	100	103	104	99	
2023	10	-52	112	1270	110	110	1263	15.5	108	1127	5	107	1127	22	109	250	1.52	107	0.14	101	0.58	105	109	106	101	
2024	11	-49	109	918	108	110	945	16.3	109	790	5	106	790	22	109	127	1.57	107	0.12	100	0.66	106	108	105	101	
2025				54	90	105	58	13.0	103	58	0	98	58	14	100	25	1.70	109	-0.30	93	0.47	103	108	100	106	
2026																										

Sires

Bull				Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny			
ID	Index EBV Acc	Sire ID	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 Value	Grwth Value	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty							Grwth Test
BOS		BOS 055045		121	101	112	136	101	137	106	131	117	101	105	112	100	60	99	81	82	103	106	95	84	103	98	120	115	23	90	
111316		BOS 044030		89	95	93	75	79	80	44	73	-1.04	12.6	-0.26	2.1	19.4	-39	67	-19	1.1	-9.8	-5.3	11.6	-8	16	0.64	1.25	1.13	2	40	158
BOS111316												90	95	86	93	87	75	63	19	69	86	60	92	70	68	43	39	38			
PD 100075		BOS 066337		109	96	82	109	78	77	102	75	106	96	104	82	100	93	98	75	98	97	74	82	76	95	96	109	121	32	105	
		PD 040041		86	95	90	63	79	77	28	67	-0.17	9.7	-0.23	-6.4	19.3	-1	64	-12	9.7	-5.0	1.2	3.7	-12	9	0.48	0.62	1.50		33	73
												88	95	77	90	87	63	42	12	44	86	60	92	44	43	28	25	25			
PD 140113		PD 110001		97	120	109	94	99	115			97	120	98	109	125	103	117		116	122	100	82	120	112					17	
		PD 070195		48	80	61	27	50	50			0.55	23.7	0.03	1.2	38.5	11	136		20.0	-25.0	-4.1	3.6	13	25				2	7	
												50	80	39	61	55	27	24		32	48	26	76	26	25						
PD 160462		PD 100075		90	78	113	116	77	75			92	78	97	113	83	86	71	44	76	94	69	87	62	64	65	94	91	5	20	
		PD 100233		71	84	78	47	66	64			1.02	-0.4	0.04	2.3	5.7	-9	-33	22	-2.3	-3.0	2.2	6.6	-20	-21	-2.57	-0.26	-0.21	17	25	
												72	84	68	78	66	47	22	6	23	73	44	81	23	23	15	14	13			
PD 170035		PD 100079		89	106	88	120	102	104			89	106	105	88	106	83	87	91	90	101	85	120	91	83				14	4	
		PD 110039		79	73	73	44	53	60			1.26	15.3	-0.24	-4.7	23.8	-13	24	-30	5.3	-7.9	-1.1	27.1	-4	-3				15	21	
												81	73	70	73	58	44	15	11	16	62	26	70	16	16						
PD 180437		PD 140113		103	128	98	89	100	116	120	115	101	128	106	98	128	110	124	117	113	110	99	95	122	121	121	94	110	8	6	
		PD 150122		81	84	80	77	79	74	76	74	0.27	28.6	-0.28	-2.0	40.9	18	161	-58	18.6	-15.4	-3.8	11.5	14	34	2.95	-0.26	0.85			
												82	84	78	80	82	77	77	76	77	78	77	82	77	77	76	76	76			
PD 190325		SC 130123		94	98	99	124	101	107	93	100	96	98	94	99	96	77	98	95	104	106	100	98	88	88	92	90	100			
		PD 150224		80	81	80	78	80	73	78	74	0.65	10.8	0.20	-1.7	16.0	-19	64	-34	13.3	-12.1	-4.1	13.4	-6	2	0.05	-0.46	0.31			
												80	81	79	80	80	78	78	77	78	79	78	82	78	78	77	77	77			
PD 190558		PD 100075		100	99	108	94	96	95			99	99	101	108	101	104	102	88	102	97	90	105	101	106	101	96	108			
		BOS 144517		47	58	56	34	49	45			0.41	11.3	-0.10	0.8	20.0	11	79	-26	12.3	-5.0	-2.1	18.0	2	19	0.93	-0.14	0.77			
												48	58	43	56	50	34	24	7	26	50	36	61	26	25	16	14	14			

Breeding Values and Accuracies: Bulls

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	Calv Growth	Milk	Maint.	Fertility	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																															
PD 180437 87487880 PD18-0437		PD 140113 PD 150122		103 81	128 84	98 80	89 77	100 79	116 74	120 76	115 74	120 76	101 0.27 82	106 -0.28 78		110 18 77	128 28.6 84	98 -2.0 80	122 93 80	128 40.9 82	124 161 77	117 -58 76	113 18.6 77	110 -15.4 78	99 -3.8 77	95 11.5 82	122 14 77	121 34 77	121 2.95 76	94 -0.26 76	110 0.85 76
PD 210326 93101756 PD21-0326		BOS 111316 PD 150301		107 82	102 85	109 83	128 80	111 81	132 75	97 79	125 76	94 79	102 0.13 82	128 -1.16 81		71 -25 80	102 13.4 85	109 1.0 83	125 100 83	98 17.5 82	93 46 80	84 -22 78	80 -0.1 80	113 -17.3 81	113 -6.7 80	102 16.3 82	91 -4 80	95 9 80	93 0.16 79	97 -0.04 79	106 0.64 79
PD 210602 93157998 PD21-0602		BOS 111316 PD 150275		126 82	96 85	123 83	127 80	105 82	140 76	98 80	132 77	98 79	119 -1.21 82	115 -0.63 81		72 -25 80	96 9.7 85	123 5.2 83	131 115 83	95 15.3 82	100 71 80	94 -32 79	97 9.2 80	96 -4.6 82	108 -5.6 80	107 19.0 83	97 0 80	100 13 80	97 0.54 79	111 0.74 79	105 0.58 79
SV 230134 96025382 SV 230134		SV 130085		77 81	125 81	96 79	85 78	94 78	92 73	110 78	90 74	114 77	70 2.84 81	111 -0.51 79		116 25 78	125 26.4 81	96 -2.6 79	113 73 79	124 37.8 80	114 123 78	104 -44 77	116 20.0 78	98 -5.6 78	94 -2.9 78	97 13.1 79	110 7 78	117 30 78	113 2.14 77	98 -0.02 77	118 1.32 77
SV 250101 98906589 SV 250101		SV 200054		100 43	96 48	104 27							100 0.33 49	98 0.02 24		96 9.7 48	104 -0.3 27			95 15.1 22					80 2.5 18						
SV 250126 6020004963 SV 250126		SV 110032		100 46	85 20	103 29							103 0.12 51	90 0.33 30		85 3.2 20	103 -0.6 29			83 5.9 14					78 1.4 22						

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	
ID Number Name																														
SV 110032 92824689 11 0032			104 48	83 40	97 58							109 -0.42 46	81 0.68 53		83 2.1 40	97 -2.2 58		82 5.0 26					95 11.9 43							
SV 110061 92824713 11 0061			94 48	84 41	127 58							100 0.32 47	82 0.64 53		84 2.8 41	127 6.1 58		84 6.4 23					96 12.0 41							
SV 120007 92824739 12 0007			112 44	83 25	114 38							111 -0.56 43	100 -0.06 48		83 2.2 25	114 2.5 38		82 5.3 12				84 4.8 22	90 8.5 42							
SV 120017 92824747 12 0017			106 48	83 34	105 50							109 -0.39 46	89 0.39 53		83 2.2 34	105 -0.1 50		82 5.2 22					89 8.2 43							
SV 120091 92824622 12 0091			129 56	75 39	95 56	125 30	91 26					122 -1.48 55	111 -0.49 61	76 -20 30	75 -2.4 39	95 -3.0 56	74 -18 42	74 -0.7 30				105 -11.2 30	82 -0.5 5	96 12.3 44						
SV 130085 92824879 13 0085			95 49	99 42	98 59	95 31						95 0.74 48	100 -0.06 54	104 11 31	99 11.3 42	98 -2.1 59	93 26 44	98 17.7 22				98 -6.1 22	103 16.6 41							
SV 140072 92824937 14 0072			101 52	86 36	94 52	102 28						107 -0.28 51	79 0.76 57	97 3 28	86 3.9 36	94 -3.1 52	79 -7 39	85 7.1 23				79 9.2 22	101 15.5 19							
SV 150020 92824945 15 0020			103 47	83 34	105 51							108 -0.29 46	84 0.60 52		83 2.3 34	105 -0.1 51		82 5.4 23					98 13.3 40							
SV 160040 92824994 16 0040			96 50	92 38	123 54	95 29	87 15					100 0.32 49	86 0.49 55	101 8 29	92 7.3 38	123 5.2 54	108 62 40	91 11.8 24				90 0.1 21	87 -1.4 5	95 11.4 19						
SV 160051 92824770 16 0051			97 44	85 25	111 38							104 0.03 43	81 0.72 49		85 3.5 25	111 1.6 38		84 6.9 22					90 8.8 40							
SV 160075 92824523 16 0075			116 55	81 46	116 63	86 29	97 23					112 -0.68 54	104 -0.23 60	112 21 29	81 1.2 46	116 3.1 63	87 11 46	81 4.2 24				98 -5.9 22	101 -4.2 5	96 12.1 43						
SV 170072 93873321 17 0072			113 45	85 25	113 38							111 -0.55 44	101 -0.10 50		85 3.1 25	113 2.2 38		84 6.5 22					100 14.9 40							

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	Calv 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			Calv. Ease V	Calv 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
SV 180079 92824564 18 0079			86 54	91 38	133 54	87 41	96 24					95 0.78 52	78 0.82 59	110 19 41	91 6.6 38	133 7.9 54	111 67 44	90 11.2 32				101 -8.1 30	88 -1.7 5	103 16.8 38					
SV 180094 92824598 18 0094			105 48	83 34	100 50							109 -0.42 46	86 0.50 53			83 2.0 34	100 -1.3 50						90 8.3 38						
SV 190099 92824606 19 0099			123 48	78 34	95 50							119 -1.23 46	105 -0.24 53		78 -0.7 34	95 -2.8 50		77 1.4 12					94 11.0 38						
SV 190100 92824648 19 0100			104 50	83 37	119 54	98 28						107 -0.22 49	91 0.31 55	99 6 28	83 2.4 37	119 3.8 54	96 33 40	83 5.8 26				105 -11.7 21		100 15.0 38					
SV 190113 93873354 19 0113			113 47	79 34	91 51							114 -0.86 46	91 0.30 52		79 0.2 34	91 -3.9 51		79 2.5 12					92 9.6 32						
SV 190117 93873362 19 0117			95 49	87 36	118 52							101 0.24 48	81 0.71 54		87 4.7 36	118 3.5 52		86 8.6 25					102 16.2 37						
SV 190120 93873388 19 0120			109 47	83 34	109 51							110 -0.48 46	95 0.15 52		83 2.3 34	109 1.3 51		82 5.4 12					90 8.7 32						
SV 190126 93873495 19 0126			102 43	86 35	115 52	108 31						105 -0.09 42	89 0.40 48	92 -1 31	86 3.8 35	115 2.8 52	99 39 39	85 7.4 12				101 -8.0 21		101 15.5 30					
SV 200004 93873578 20 0004	PD 160462		98 56	80 51	103 58	107 23	89 37			65 8		103 0.11 55	86 0.50 59	93 0 23	80 0.6 51	103 -0.6 58	82 -2 44	83 5.5 33	74 -21 11		82 1.0 12	94 -2.8 41	75 0.9 21	107 19.2 50	82 -9 12	73 -13 11	72 -1.91 8	73 -1.46 7	47 -2.72 7
SV 200005 93873651 20 0005	PD 170035 SV 120091		116 60	88 50	83 61	125 23	102 37		101 43			110 -0.50 60	113 -0.56 62	77 -19 23	88 4.9 50	83 -6.1 61	79 -8 45	88 9.4 33	76 -15 7	81 -19 5	83 1.2 8	114 -18.3 49	86 -1.2 13	108 19.7 50	87 -6 8	76 -10 8			
SV 200006 93873669 20 0006	PD 170035 SV 120076		118 57	88 49	79 61	119 22	98 37		94 42			111 -0.62 57	114 -0.61 59	85 -10 22	88 5.0 49	79 -7.4 61	72 -24 44	88 9.5 32	78 -9 7	83 -21 5	84 2.0 8	106 -12.3 49	86 -1.3 13	106 18.6 49	89 -5 8	78 -8 8			
SV 200012 93873628 20 0012	PD 170035		101 53	94 47	94 57	111 22	104 30					102 0.16 53	94 0.16 54	91 -3 22	94 8.4 47	94 -3.1 57	90 19 42	94 14.6 30	81 2 7	87 -25 5	88 4.1 8	105 -11.0 31	85 -1.2 13	121 27.6 46	95 -1 8	80 -5 8			

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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			
ID Number Name																																
SV 200014	PD 160462	SV 160011	106 56	78 45	107 46	113 23	81 41	80 39			65 8	105 -0.05 55	103 -0.16 58	89 -6 23	78 -0.5 45	107 0.6 46	85 7 38	80 3.7 35	73 -25 11					80 -0.1 12	86 3.7 51	75 0.9 21	96 12.1 52	78 -11 12	72 -13 11	68 -2.33 8	83 -0.88 7	70 -1.39 7
SV 200036	96910781		100 36	86 25	116 38							104 -0.02 35	87 0.48 40		86 4.0 25	116 3.0 38								102 15.9 28								
SV 200054	93873594		110 36	84 34	112 51							109 -0.44 35	98 0.04 40		84 2.8 34	112 1.9 51		83 6.1 12							99 14.4 29							
SV 200061	93873602		93 35	91 25	127 38							98 0.46 34	84 0.59 39		91 6.8 25	127 6.3 38		90 11.3 22							107 19.1 28							
SV 200092	93873446		119 42	79 25	96 38							117 -1.05 41	101 -0.10 47		79 0.0 25	96 -2.5 38									94 11.3 32							
SV 200093	93873453		100 42	85 25	108 38							105 -0.09 41	82 0.64 47		85 3.4 25	108 0.9 38		84 6.8 23							95 12.0 31							
SV 200129	93873529		98 48	86 34	103 50							105 -0.08 46	77 0.85 53		86 4.2 34	103 -0.7 50		85 7.7 26							102 16.1 32							
SV 210001	93850436	SV 160075	105 55	84 39	119 55	80 58	97 30	85 43				105 -0.06 57	98 0.01 48	121 31 58	84 3.1 39	119 4.0 55	89 17 51	83 6.0 12				98 -6.0 44	112 -6.4 11	86 5.9 34								
SV 210004	96910856		93 36	91 25	137 38							97 0.55 35	89 0.38 40		91 7.1 25	137 9.1 38		91 11.8 11							98 13.3 29							
SV 210007	96910872		113 35	81 34	100 50							113 -0.74 34	97 0.08 39		81 1.1 34	100 -1.4 50		80 3.7 21							100 14.6 24							
SV 210011	96910880		109 36									110 -0.53 35	93 0.23 40												94 11.2 22							
SV 210012	PD 170035	SV 120091	124 62	84 46	89 55	133 32	93 39	104 43				121 -1.38 64	103 -0.18 57	66 -32 32	84 2.9 46	89 -4.6 55	85 6 44	85 7.2 33	78 -8 7	84 -21 5	84 2.1 8	102 -8.9 51	76 0.8 19	108 20.0 47	89 -5 8	78 -8 8						

Breeding Values and Accuracies: Cows

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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																															
SV 210019 93850477 SV 210019		SV 140072		78 53	95 29	113 44	92 56						82 1.86 55	96 0.12 48	105 13 56	95 9.3 29	113 2.2 44	101 45 43		93 13.4 12				52 30.2 44	91 9.2 24						
SV 210026 96910914 21 0026				120 36	76 34	78 51							120 -1.32 35	94 0.18 40		76 -1.8 34	78 -7.6 51							97 13.1 23							
SV 210040 93850451 SV 210040	PD 160462 SV 160040			90 52	85 53	114 62	104 45	81 42	77 47			71 8	95 0.72 51	86 0.50 54	94 1 45	85 3.2 53	114 2.5 62	96 32 53		86 8.5 38	78 -7 11		84 2.2 12	92 -1.0 52	74 1.1 26	94 10.9 48	84 -8 12	78 -8 11	72 -1.88 8	84 -0.82 7	72 -1.28 7
SV 210074 96910799 21 0074				88 36	90 25	128 38							96 0.65 35	77 0.85 40		90 6.6 25	128 6.5 38							99 14.1 29							
SV 210100 93850501 SV 210100	PD 160462 SV 190100			104 56	79 53	111 62	111 34	96 42	92 46			70 8	103 0.05 55	101 -0.08 58	90 -4 34	79 -0.3 53	111 1.6 62	88 15 50		81 4.1 36	77 -10 11		84 1.9 12	114 -18.5 52	86 -1.2 21	96 12.3 52	83 -8 12	77 -8 11	72 -1.94 8	84 -0.83 7	72 -1.30 7
SV 210107 96910849 21 0107				115 36	80 34	100 51							114 -0.83 35	97 0.04 40		80 0.8 34	100 -1.5 51							100 15.0 24							
SV 220001 96910922 22 0001				98 26	87 25	120 38							103 0.11 25	85 0.53 29		87 4.5 25	120 4.3 38			86 8.3 12					100 14.8 22						
SV 220004 96910930 22 0004				105 35	83 25	106 38							108 -0.35 34	89 0.40 39		83 2.5 25	106 0.3 38							104 17.2 22							
SV 220006 94995040 SV 220006	PD 170035 SV 190117			92 61	95 45	104 54	112 22	98 30	98 39				96 0.68 63	91 0.28 55	89 -5 22	95 9.1 45	104 -0.3 54	101 44 40		95 15.1 38	84 14 7	91 -29 5	89 5.0 8	97 -4.8 31	87 -1.5 13	113 23.0 46	96 -1 8	85 -1 8			
SV 220011 94995149 SV 220011		SV 120054		108 51	81 52	90 47	122 60						110 -0.46 54	93 0.23 40	80 -16 60	81 1.1 52	90 -4.1 47	77 -13 53					103 -10.1 42	88 7.4 30							
SV 220012 94995164 SV 220012	PD 100075 SV 130085			100 62	98 64	87 61	97 42	87 47	78 51			87 14	99 0.42 64	103 -0.16 53	101 8 42	98 11.0 64	87 -4.9 61	85 8 56		100 19.1 45	92 43 21	80 -17 6	95 8.5 22	93 -1.9 56	79 0.1 32	99 14.3 54	85 -7 22	92 5 21	90 -0.08 14	94 -0.27 13	95 0.00 12
SV 220016 94995156 SV 220016	PD 170035 SV 130033			104 58	91 58	101 55	117 34	102 36	103 45				103 0.06 61	99 -0.02 49	85 -10 34	91 6.7 58	101 -1.2 55	95 30 49		91 12.1 30	78 -6 7	84 -22 5	85 2.3 8	104 -10.3 50	88 -1.7 13	113 23.0 44	89 -5 8	78 -7 8			

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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																													
SV 220021	96910963	PD 160462	108	77	94	115	94				58	109	94	88	77	94	72	79	67		76	103	76	109	75	65	65	72	44
22 0021			42	47	51	23	34				8	-0.43	0.17	-7	-1.5	-3.2	-25	2.8	-46		-2.3	-9.9	0.7	20.4	-13	-20	-2.56	-1.54	-2.88
												42	43	23	47	51	40	33	11		12	36	21	45	12	11	8	7	7
SV 220024	94995081	PD 160462	93	81	121	116	93	94			65	95	94	85	81	121	102	83	74		80	106	83	99	78	72	68	83	70
SV 220024	SV 190126		58	60	56	35	40	46			8	0.75	0.17	-10	1.0	4.4	46	5.8	-24		0.0	-12.0	-0.6	14.0	-11	-13	-2.33	-0.88	-1.39
												60	49	35	60	56	50	36	11		12	52	21	48	12	11	8	7	7
SV 220027	96910971	PD 160462	100	81	110	105	97				66	102	91	94	81	110	88	83	75		83	101	78	115	83	73	73	73	47
22 0027			42	42	39	23	34				8	0.14	0.31	0	1.0	1.3	14	6.2	-19		1.3	-7.9	0.3	24.0	-8	-12	-1.84	-1.45	-2.70
												42	43	23	42	39	35	33	11		12	36	21	46	12	11	8	7	7
SV 220028	96910989	PD 160462	96	83	117	102	96				69	100	90	96	83	117	95	85	77		85	99	79	113	86	76	75	74	48
22 0028			42	47	51	23	34				8	0.36	0.35	2	2.0	3.3	31	7.6	-10		2.4	-6.9	0.1	22.7	-7	-9	-1.63	-1.42	-2.65
												42	43	23	47	51	40	33	11		12	36	21	45	12	11	8	7	7
SV 220037	96911003	PD 170035	96	97	106	105	107					98	94	94	97	106	103	98	84	91	91	103	87	127	99	85			
22 0037			44	42	50	22	28					0.53	0.17	0	10.3	0.3	48	17.1	16	-30	5.9	-9.5	-1.5	31.6	1	-1			
												44	42	22	42	50	38	32	7	5	8	31	13	40	8	8			
SV 220044	96911011	PD 170035	109	89	75	118	108					109	96	86	89	75	70	90	74	79	82	108	83	128	88	73			
22 0044			45	42	50	22	28					-0.41	0.11	-9	5.7	-8.5	-29	10.9	-21	-16	1.0	-13.4	-0.7	32.4	-6	-13			
												46	43	22	42	50	38	30	7	5	8	31	13	40	8	8			
SV 220047	94995917	PD 100075	101	92	105	97	95	89			87	104	89	100	92	105	94	94	92	85	95	107	83	100	91	94	88	92	87
SV 220047	SV 180079		62	54	59	42	48	49			14	0.03	0.36	8	7.3	0.0	27	14.2	43	-23	8.4	-13.3	-0.7	15.1	-4	7	-0.32	-0.38	-0.42
												64	54	42	54	59	52	46	21	6	22	57	32	54	22	21	14	13	12
SV 220048	94994985	PD 170035	88	100	111	97	104	100				88	102	101	100	111	107	100	88	96	93	107	92	113	100	90			
SV 220048	SV 200089		61	44	52	33	36	42				1.30	-0.13	8	12.3	1.6	59	19.0	28	-34	6.9	-13.1	-2.4	22.6	1	3			
												63	53	33	44	52	43	32	7	5	8	50	13	46	8	8			
SV 220063	96911037	PD 100075	110	89	90	104	96				78	111	93	95	89	90	80	91	85	77	91	103	80	109	86	85	85	80	61
22 0063			48	51	55	31	42				14	-0.54	0.21	1	5.6	-4.2	-5	12.4	18	-14	5.8	-9.6	0.0	20.6	-7	-1	-0.62	-1.04	-1.93
												49	46	31	51	55	46	44	21	6	22	43	32	51	22	21	14	13	12
SV 220064	94995099	PD 170035	89	99	114	115	104	112				91	97	86	99	114	117	99	88	96	93	107	92	112	100	90			
SV 220064	SV 200002		57	44	52	33	35	41				1.11	0.06	-9	11.8	2.5	82	18.5	28	-34	6.9	-13.0	-2.5	22.5	1	3			
												60	48	33	44	52	43	32	7	5	8	50	13	43	8	8			
SV 220065	96911045	PD 170035	98	95	101	104	108					100	95	95	95	101	96	96	85	92	92	103	87	128	100	86			
22 0065			44	42	50	22	28					0.35	0.15	1	9.3	-1.1	33	15.9	19	-31	6.3	-9.9	-1.4	32.4	2	0			
												44	42	22	42	50	38	30	7	5	8	31	13	40	8	8			
SV 220070	94995115	PD 100075	105	91	103	119	87	97			86	105	99	83	91	103	99	93	92	85	95	93	83	97	91	94	88	92	87
SV 220070	SV 110044		61	62	60	42	43	50			14	-0.05	-0.01	-12	7.2	-0.6	40	13.9	42	-23	8.3	-2.0	-0.6	12.8	-4	7	-0.34	-0.38	-0.42
												63	53	42	62	60	55	46	21	6	22	43	32	54	22	21	14	13	12

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
ID Number Name																													
SV 230002		PD 170035	99	94	97	109	105					101	95	93	94	97	93	95	83	89	90	104	86	122	97	83			
96911052			45	37	37	22	28					0.25	0.16	-1	8.9	-2.2	26	15.2	10	-28	5.1	-10.4	-1.3	28.7	0	-3			
23 0002												46	43	22	37	37	32	30	7	5	8	31	13	40	8	8			
SV 230006		PD 170035	101	94	97	109	108					102	96	93	94	97	92	95	83	89	90	104	86	129	97	83			
96911086			39	37	37	22	28					0.19	0.11	-1	8.6	-2.3	23	14.9	10	-28	5.1	-10.4	-1.3	33.1	0	-3			
23 0006												40	35	22	37	37	32	30	7	5	8	31	13	40	8	8			
SV 230019		PD 100075	111	89	99	96	91	85			86	108	105	102	89	99	85	90	92	85	95	97	88	98	91	94	88	92	87
96025366		SV 160075	60	63	55	33	44	48			14	-0.32	-0.26	10	5.9	-1.7	6	11.3	43	-23	8.4	-4.8	-1.6	13.5	-4	7	-0.33	-0.38	-0.42
SV 230019												63	50	33	63	55	50	56	21	6	22	45	32	54	22	21	14	13	12
SV 230023		PD 180437	108	105	101	92	103					108	96	106	105	101	103	106	102		101	109	93	108	113	102			
98928344			28	35	23	8	19					-0.31	0.09	14	15.3	-1.0	48	23.5	78		11.8	-14.1	-2.7	20.0	9	15			
23 0023												31	17	8	35	23	22	30	7		9	18	11	29	8	7			
SV 230026		PD 190325	103	90	102	112	104					105	90	90	90	102	93	90	88		97	106	94	110	96	85	86		
98928351			22	26	23	13	20					-0.12	0.33	-4	6.4	-0.9	27	11.1	30		9.2	-12.5	-2.8	20.9	-1	-1	-0.54		
23 0026												23	17	13	26	23	21	20	9		10	21	12	28	10	9	5		
SV 230029		PD 180437	108	105	101	92	103					108	96	106	105	101	103	106	102		101	109	93	108	113	102			
98928369			28	35	23	8	19					-0.31	0.09	14	15.3	-1.0	48	23.5	78		11.8	-14.1	-2.7	20.0	9	15			
23 0029												31	17	8	35	23	22	30	7		9	18	11	29	8	7			
SV 230037		PD 180437	108	105	101	92	103					108	96	106	105	101	103	106	102		101	109	93	108	113	102			
98928385			28	35	23	8	19					-0.31	0.09	14	15.3	-1.0	48	23.5	78		11.8	-14.1	-2.7	20.0	9	15			
23 0037												31	17	8	35	23	22	30	7		9	18	11	29	8	7			
SV 230039		PD 190325	103	90	102	112	104					105	90	90	90	102	93	90	88		97	106	94	110	96	85	86		
98928393			22	26	23	13	20					-0.12	0.33	-4	6.4	-0.9	27	11.1	30		9.2	-12.5	-2.8	20.9	-1	-1	-0.54		
23 0039												23	17	13	26	23	21	20	9		10	21	12	28	10	9	5		
SV 230043		PD 170035	112	92	83	118	98	97				108	109	85	92	83	81	93	78	83	84	101	86	110	89	78			
96025390		SV 120076	61	56	46	22	30	40				-0.34	-0.39	-10	7.6	-6.2	-2	13.2	-9	-21	2.0	-7.9	-1.3	20.9	-5	-8			
SV 230043												63	52	22	56	46	41	50	7	5	8	33	13	44	8	8			
SV 230045		PD 100075	100	99	101	100	84	86			88	101	95	98	99	101	99	102	93	87	96	92	81	93	93	95	89	92	88
96025416		SV 160040	59	62	53	34	42	47			14	0.25	0.13	5	11.6	-1.2	40	20.7	48	-25	9.1	-1.6	-0.3	10.2	-3	9	-0.21	-0.36	-0.39
SV 230045												62	49	34	62	53	50	56	21	6	22	44	32	51	22	21	14	13	12
SV 230047		PD 170035	101	94	97	109	104					102	96	93	94	97	92	95	83	89	90	104	86	121	97	83			
98928401			39	37	37	22	26					0.19	0.11	-1	8.6	-2.3	23	14.9	10	-28	5.1	-10.4	-1.3	27.8	0	-3			
23 0047												40	35	22	37	37	32	30	7	5	8	31	13	35	8	8			
SV 230056		PD 190558	106	91	106	94	101	85			8	107	94	103	91	106	92	92	90		96	102	89	114	102	94	90	74	56
98928419			23	29	28	17	24					-0.24	0.18	11	6.6	0.4	24	13.0	37		8.7	-8.9	-1.8	23.2	3	8	-0.09	-1.39	-2.22
23 0056												24	21	17	29	28	25	25	12		13	25	18	30	13	13	8	7	7

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
ID Number Name																														
SV 230058 96025291 SV 230058		PD 100075 SV 140072		105 59	91 61	88 53	109 32	82 43	78 46			76 14	107 -0.23 62	92 0.27 49	93 -1 32	91 7.0 61	88 -4.7 53	82 -1 49	94 14.0 56	82 6 21	73 -10 6	87 3.5 22	88 1.8 45	77 0.6 32	95 12.0 51	80 -10 22	82 -4 21	79 -1.24 14	90 -0.49 13	83 -0.64 12
SV 230059 96025317 SV 230059		PD 180437 SV 150020		105 51	104 55	101 36	97 8	97 23	101 33				106 -0.19 56	94 0.18 34	101 8 8	104 14.4 55	101 -1.1 36	103 50 33	102 20.8 50	100 71 7		98 10.1 9	102 -9.3 18	93 -2.7 11	100 14.5 39	107 6 8	100 14 7			
SV 230060 97608087 SV 230060		PD 170035 SV 150080		89 56	96 39	101 41	114 22	96 29	96 35				95 0.72 59	84 0.56 44	88 -6 22	96 9.9 39	101 -1.1 41	101 43 34	96 16.1 30	82 8 7	89 -27 5	88 4.2 8	98 -5.6 31	86 -1.3 13	108 20.0 44	94 -2 8	83 -3 8			
SV 230062 96025242 SV 230062		PD 100075 SV 110044		115 59	86 62	100 54	112 33	86 43	90 47			83 14	113 -0.78 62	99 -0.01 48	90 -5 33	86 3.8 62	100 -1.4 54	87 11 50	87 9.2 56	89 33 21	82 -20 6	93 7.1 22	94 -3.0 43	82 -0.4 32	94 10.9 54	88 -6 22	91 4 21	85 -0.59 14	91 -0.41 13	86 -0.48 12
SV 230068 98928427 23 0068		PD 180437		108 28	105 35	101 23	92 8	103 19					108 -0.31 31	96 0.09 17	106 14 8	105 15.3 35	101 -1.0 23	103 48 22	106 23.5 30	102 78 7		101 11.8 9	109 -14.1 18	93 -2.7 11	108 20.0 29	113 9 8	102 15 7			
SV 230070 98712003 SV 230070		PD 170035 SV 200014		94 58	93 43	99 43	117 25	92 35	93 38				93 0.91 61	105 -0.26 47	86 -9 25	93 8.3 43	99 -1.8 43	96 33 37	95 14.8 34	80 0 9	78 -15 5	85 2.6 10	93 -2.1 40	80 -0.1 17	109 20.7 47	85 -7 10	78 -8 10			
SV 230077 96181367 SV 230077		PD 180437 SV 200093		97 49	108 54	104 32	96 8	97 22	101 32				98 0.47 54	96 0.11 31	102 9 8	108 16.8 54	104 -0.2 32	110 65 31	107 24.8 50	101 77 7		100 11.0 9	101 -8.6 18	94 -2.8 11	99 14.3 38	109 7 8	102 15 7			
SV 230079 98928435 23 0079		PD 170035		101 39	94 37	97 37	109 22	104 26					102 0.19 40	96 0.11 35	93 -1 22	94 8.6 37	97 -2.3 37	92 23 32	95 14.9 30	83 10 7	89 -28 5	90 5.1 8	104 -10.4 31	86 -1.3 13	121 27.8 35	97 0 8	83 -3 8			
SV 240001 97276992 SV 240001		PD 180437 SV 210007		108 48	106 55	98 36	98 8	97 22	103 33				107 -0.22 53	101 -0.09 29	100 7 8	106 15.7 55	98 -1.9 36	104 50 33	107 24.2 48	99 67 7		97 9.6 9	103 -9.5 18	93 -2.6 11	101 15.3 37	106 5 8	99 12 7			
SV 240002 98928443 24 0002		PD 100075		110 43	89 48	94 45	101 31	94 42			82 14		110 -0.53 44	96 0.12 39	98 5 31	89 5.8 48	94 -3.2 45	82 0 41	92 12.7 44	88 30 21	81 -18 6	93 7.4 22	102 -8.9 43	80 -0.1 32	106 18.5 50	90 -4 22	89 3 21	88 -0.32 14	81 -1.00 13	62 -1.85 12
SV 240008 97277024 SV 240008		PD 170035 SV 210002		73 58	107 58	110 47	95 28	94 35	89 42				71 2.73 62	103 -0.17 46	103 10 28	107 16.2 58	110 1.3 47	113 72 44	107 24.6 50	91 41 9	92 -30 5	95 8.1 10	96 -4.5 41	82 -0.5 18	109 20.1 46	97 0 10	91 5 10			
SV 240015 97277065 SV 240015		PD 180437 SV 130088		108 48	99 55	98 36	108 8	99 23	103 33				108 -0.31 54	97 0.05 29	93 -1 8	99 11.3 55	98 -2.0 36	98 37 33	99 18.0 48	90 37 7		90 5.7 9	106 -11.9 18	90 -2.1 11	103 16.6 40	97 0 8	89 3 7			

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
ID Number Name																														
SV 240022 97776686 SV 240022		SV 110032		105 46	83 49	101 31							108 -0.32 51	88 0.41 30		83 2.4 49	101 -1.1 31		80 3.3 44					89 8.2 29						
SV 240023 97776728 SV 240023		SV 200061		87 43	102 46	112 22							90 1.15 49	93 0.23 24		102 13.3 46	112 2.1 22		100 19.3 43					94 11.3 22						
SV 240036 97779086 SV 240036		SV 170072		99 46	95 46	106 22							99 0.42 51	101 -0.09 29		95 9.3 46	106 0.4 22		93 13.6 43					89 7.7 28						
SV 240037 6020051758 SV 240037		SV 210019		81 47	99 47	108 24	99 28						83 1.77 52	99 -0.02 28	99 6 28	99 11.4 47	108 0.9 24	104 52 33	95 15.5 6			63 21.1 22		84 5.1 20						
SV 240038 97778948 SV 240038		SV 160051		100 45	84 46	109 22							104 0.03 50	88 0.41 28		84 2.6 46	109 1.1 22		82 5.0 43					84 5.1 28						
SV 240040 97778955 SV 240040		SV 190117		96 46	94 48	107 28							100 0.30 51	88 0.42 30		94 8.7 48	107 0.6 28		92 13.0 43					89 8.2 26						
SV 240042 97778963 SV 240042		SV 190100		101 47	89 48	110 29	101 14						103 0.08 51	94 0.20 31	97 4 14	89 5.7 48	110 1.3 29	96 32 30	87 9.3 44			91 -0.3 11		89 7.7 26						
SV 240046 97778971 SV 240046		SV 220006		96 49	88 49	107 29	115 11	87 17	89 30				98 0.50 54	95 0.16 31	87 -8 11	88 4.9 49	107 0.5 29	96 33 30	86 8.4 45			89 0.8 16	87 -1.6 6	94 10.9 30						
SV 240060 97779003 SV 240060		SV 180079		92 48	89 48	119 29	98 20	86 15	84 30				96 0.63 52	88 0.42 32	99 6 20	89 6.0 48	119 3.9 29	103 50 32	87 9.0 42			89 0.9 15		90 8.3 26						
SV 240061 97779011 SV 240061		SV 120091		112 48	83 48	100 30	121 15	84 16	89 30				109 -0.38 52	105 -0.25 33	80 -15 15	83 2.0 48	100 -1.4 30	87 12 31	80 3.4 41			92 -1.5 15		87 6.6 29						
SV 240062 97779029 SV 240062		SV 200129		98 46	82 48	108 27							102 0.20 51	88 0.43 30		82 2.0 48	108 1.0 27		82 5.1 40					89 8.2 24						
SV 240067 97919476 SV 240067		SV 190126		100 44	92 48	107 28	109 15						103 0.11 49	92 0.26 27	92 -2 15	92 7.3 48	107 0.5 28	98 38 30	90 11.6 20			88 1.6 11		89 7.7 23						

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	
ID Number Name																														
SV 240072 98196041 SV 240072		SV 110006	101 41	91 46	108 22							103 0.10 47	94 0.19 20		91 7.0 46	108 0.8 22							87 6.6 15							
SV 250001 98906563 SV 250001		SV 220024	97 47	87 52	111 30	113 17	81 21	85 32				98 0.48 53	95 0.14 28	89 -6 17	87 4.5 52	111 1.6 30	98 38 33	86 8.0 31	80 -1 5			86 3.0 6	91 -0.5 26	88 -1.6 11	81 2.7 27	89 -5 6	83 -2 6			
SV 250002 98906571 SV 250002		SV 120007	110 45	88 47	105 22							110 -0.52 50	96 0.09 28		88 5.4 47	105 -0.1 22		86 7.9 22				80 8.2 11		77 0.3 24						
SV 250003 98906662 SV 250003		SV 220001	90 42	95 47	111 22							93 0.90 48	94 0.18 21		95 9.4 47	111 1.7 22		92 12.8 22					82 3.9 15							
SV 250005 98906605 SV 250005		SV 220064	94 47	97 49	107 28	113 16	86 19	95 30				96 0.70 53	96 0.08 28	89 -6 16	97 10.6 49	107 0.5 28	107 58 31	96 16.2 30				92 -1.2 25	92 -2.5 6	86 6.3 25						
SV 250009 98906639 SV 250009		SV 190113	114 46	76 48	100 27							115 -0.87 51	92 0.27 29		76 -1.9 48	100 -1.4 27		74 -0.7 22					78 0.9 20							
SV 250011 98906654 SV 250011		SV 190120	109 46	84 48	105 27							110 -0.52 51	94 0.19 29		84 3.1 48	105 0.1 27		82 5.5 22					78 1.4 20							
SV 250015 98906688 SV 250015		SV 190125	100 45	93 49	110 31							102 0.19 50	94 0.19 27		93 8.2 49	110 1.5 31		91 12.0 22					79 1.6 22							
SV 250016 98906696 SV 250016		SV 210103	95 43	97 48	113 27							98 0.48 49	90 0.34 24		97 10.4 48	113 2.1 27		94 14.2 22					79 1.9 18							
SV 250020 98908817 SV 250020		SV 220037	94 40	98 49	104 27	109 11	88 15	92 27				96 0.70 45	96 0.09 24	92 -2 11	98 11.0 49	104 -0.4 27	103 49 29	98 17.5 30				90 0.4 16	89 -2.0 6	95 11.4 23						
SV 250021 6020004955 SV 250021		SV 120054	109 46	81 21	97 30	118 15						110 -0.52 51	91 0.30 30	85 -10 15	81 1.1 21	97 -2.1 30	81 -2 22					93 -1.8 11		79 1.7 21						
SV 250023 6020004989 SV 250023		SV 210009	113 43	80 12	105 19	117 29	76 15	83 21				113 -0.71 49	95 0.13 24	85 -10 29	80 0.7 12	105 0.0 19	87 12 20					88 2.2 22	89 -1.9 5	71 -3.2 18						

Inbreeding in red is high

Value <80Value >120

Breeding values with an accuracy < 5% are not printed

Animal		Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc																														
ID	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calv 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
SV 250024		SV 170072		112 46	82 12	109 19							111 -0.58 51	97 0.07 29		82 2.0 12	109 1.1 19		81 4.4 11						81 2.9 20					
SV 250025		SV 210022		107 43	83 12	107 19							108 -0.34 49	94 0.18 24		83 2.1 12	107 0.6 19								77 0.7 14					
SV 250026		SV 190099		117 46	79 17	100 25							116 -0.99 51	98 0.01 30		79 -0.2 17	100 -1.5 25		78 1.6 6						78 0.9 19					
SV 250030		SV 160040		106 47	85 19	114 27	107 14	78 8	84 21				108 -0.36 51	89 0.40 31	93 -1 14	85 3.4 19	114 2.4 27	97 34 20	84 6.3 12				86 3.5 11		78 1.1 10					
SV 250032		SV 200004		98 48	83 25	105 29	113 12	79 19	77 25				100 0.31 52	92 0.26 32	89 -5 12	83 2.3 25	105 0.1 29	89 15 22	83 5.9 16	76 -16 5			83 1.3 6	88 2.1 20	82 -0.4 11	84 5.0 25	86 -7 6	78 -8 6		
SV 250034		SV 210011		108 43									109 -0.40 49	94 0.20 24											78 1.0 11					
SV 250035		SV 200014		107 48	80 23	106 23	115 12	75 21	78 23				107 -0.22 52	98 0.01 32	87 -8 12	80 0.5 23	106 0.4 23	87 12 19	80 3.4 18	75 -18 5			82 0.7 6	84 5.3 26	82 -0.4 11	78 1.5 26	84 -8 6	78 -8 6		
SV 250036		SV 110061		97 46	84 20	117 29							100 0.32 51	90 0.35 30		84 3.1 20	117 3.4 29		83 6.0 12						78 1.4 20					
SV 250037		SV 200129		103 46	84 17	104 25							107 -0.28 51	85 0.53 30		84 2.6 17	104 -0.3 25		82 5.2 12						82 3.5 16					
SV 250040		SV 220027		99 45	83 21	109 19	112 12	83 17	83 21				101 0.27 50	94 0.17 26	90 -5 12	83 2.3 21	109 1.0 19	92 22 17	83 6.0 16	76 -15 5			83 1.4 6	91 -0.5 18	83 -0.7 11	88 7.4 23	87 -6 6	78 -7 6		
SV 250042		SV 190100		92 47	88 19	115 27	109 14						93 0.92 51	98 0.02 31	92 -2 14	88 5.4 19	115 2.9 27	102 47 20	87 8.7 14				94 -2.4 11		81 2.9 19					
SV 250043		SV 140072		110 48	81 18	98 26	111 14						114 -0.83 52	84 0.57 32	91 -4 14	81 1.3 18	98 -1.9 26	80 -5 19	80 3.4 12					80 8.0 11		81 3.2 9				

Breeding Values and Accuracies: Cows

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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
ID Number Name																														
SV 250047 6020004971 SV 250047		SV	130085	103 46	89 21	101 30	105 15	82 11	81 23				104 0.04 51	96 0.09 30	94 1	89 6.0 21	101 -1.1 30	90 19 22		88 10.0 12				90 0.4 11	82 3.7 20					
SV 250049 6020009061 SV 250049		SV	200036	96 44	87 12	112 19							99 0.44 49	93 0.21 25		87 4.5 12	112 2.0 19							82 3.4 14						
SV 250052 6020008923 SV 250052		SV	160051	102 45	83 12	108 19							106 -0.14 50	87 0.44 28		83 2.6 12	108 0.9 19			82 5.2 11				76 -0.2 20						
SV 250055 6020008931 SV 250055		SV	190088	105 22	83 20	107 29							106 -0.20 21	93 0.23 24		83 2.4 20	107 0.6 29			82 5.0 12				78 1.3 18						
SV 250056 6020008949 SV 250056		SV	220066	93 49	90 22	103 23	116 13	80 19	82 23				95 0.77 54	97 0.08 30	86 -8 13	90 6.5 22	103 -0.7 23	96 32 19		90 11.1 16	79 -5 5		85 2.3 5	84 4.7 26	83 -0.6 8	89 7.8 24	88 -5 5	81 -5 5		
SV 250059 6020008956 SV 250059		SV	200061	95 42	88 12	118 19							99 0.46 47	91 0.31 24		88 5.3 12	118 3.5 19			87 8.6 11				84 4.9 14						
SV 250060 6020051790 SV 250060		SV	210019	98 47	86 15	108 22	103 28						100 0.32 52	93 0.23 28	95 2	86 4.2 15	108 0.9 22	92 24 22		84 6.8 6			67 18.5 22		76 0.0 12					
SV 250062 6020008964 SV 250062		SV	210033	105 44	83 19	105 27	121 28	77 15	85 24				105 -0.10 49	97 0.08 28	80 -16 28	83 2.5 19	105 0.1 27	93 27 25					86 3.6 22	90 -2.2 5	72 -2.4 18					
SV 250063 6020008972 SV 250063		SV	210108	104 47	88 24	100 29	120 21	80 19	87 26				104 -0.01 51	96 0.09 31	81 -14 21	88 5.0 24	100 -1.3 29	93 26 25		87 8.7 14			87 2.6 25	86 -1.2 9	83 4.3 23					
SV 250065 6020008980 SV 250065		SV	200013	102 46	82 23	109 25	112 12	80 18	81 23				104 0.00 50	94 0.20 30	89 -5 12	82 1.6 23	109 1.0 25	90 19 20		82 5.1 16	76 -15 5		83 1.4 6	91 -0.3 18	84 -0.8 11	82 3.7 25	87 -6 6	79 -7 6		
SV 250066 6020008998 SV 250066		SV	220004	101 42	85 12	107 19							103 0.10 47	93 0.20 24		85 3.3 12	107 0.6 19							83 4.0 11						
SV 250067 6020009004 SV 250067		SV	230043	104 47	90 28	96 23	117 11	83 15	86 23				102 0.17 52	104 -0.20 29	85 -10 11	90 6.0 28	96 -2.6 23	89 17 21		88 10.0 24			91 -0.5 16	87 -1.5 6	86 5.9 22					

Inbreeding in red is high

Value <80Value >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	Calv 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
			Calv. Ease V	Calv 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
			Calv. Ease V	Calv 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
SV 260202			103	83	106							106	90		83	106		82						80					
6020009012		SV 150020	24	17	25							-0.16	0.36		2.4	0.1		4.9						2.1					
SV 260202												23	26		17	25		12						20					

Selection List on Cow Value
Bulls 2 years and older

ID Sorted on ID		Name	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	PD 210326	PD21-0326	BOS 111316	PD 150301	0.0	PcH	0	0	0		107 82	102 85	109 83	128 80	111 81	132 75	97 79	125 76	
2	PD 210602	PD21-0602	BOS 111316	PD 150275	0.0	PcPc	0	0	0		126 82	96 85	123 83	127 80	105 82	140 76	98 80	132 77	
1	PD 180437	PD18-0437	PD 140113	PD 150122	0.0	PcH	0	0	0		103 81	128 84	98 80	89 77	100 79	116 74	120 76	115 74	
1	SV 230134	SV 230134		SV 130085	0.0	PcH	0	0	0		77 81	125 81	96 79	85 78	94 78	92 73	110 78	90 74	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin nt821 Q204X F94L Genomic tested	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	SV 220064	SV 220064	PD 170035	SV 200002	0.0		89 57	99 44	114 52	115 33	104 35	112 41			
											★★★★☆				
1	SV 200005	20 0005	PD 170035	SV 120091	0.0		116 60	88 50	83 61	125 23	102 37	101 43			
2	SV 210012	SV 210012	PD 170035	SV 120091	0.0		124 62	84 46	89 55	133 32	93 39	104 43			
3	SV 220016	SV 220016	PD 170035	SV 130033	0.0		104 58	91 58	101 55	117 34	102 36	103 45			
4	SV 220048	SV 220048	PD 170035	SV 200089	0.0		88 61	100 44	111 52	97 33	104 36	100 42			
5	SV 230059	SV 230059	PD 180437	SV 150020	0.0		105 51	104 55	101 36	97 8	97 23	101 33			
6	SV 230077	SV 230077	PD 180437	SV 200093	0.0		97 49	108 54	104 32	96 8	97 22	101 32			
7	SV 240001	SV 240001	PD 180437	SV 210007	0.0		108 48	106 55	98 36	98 8	97 22	103 33			
8	SV 240015	SV 240015	PD 180437	SV 130088	0.0		108 48	99 55	98 36	108 8	99 23	103 33			
											★★★				
1	SV 200006	20 0006	PD 170035	SV 120076	0.0		118 57	88 49	79 61	119 22	98 37	94 42			
2	SV 210100	SV 210100	PD 160462	SV 190100	0.0		104 56	79 53	111 62	111 34	96 42	92 46			
3	SV 220006	SV 220006	PD 170035	SV 190117	0.0		92 61	95 45	104 54	112 22	98 30	98 39			
4	SV 220024	SV 220024	PD 160462	SV 190126	0.0		93 58	81 60	121 56	116 35	93 40	94 46			
5	SV 220070	SV 220070	PD 100075	SV 110044	0.0		105 61	91 62	103 60	119 42	87 43	97 50			
6	SV 230043	SV 230043	PD 170035	SV 120076	0.0		112 61	92 56	83 46	118 22	98 30	97 40			
7	SV 230060	SV 230060	PD 170035	SV 150080	0.0		89 56	96 39	101 41	114 22	96 29	96 35			
8	SV 230062	SV 230062	PD 100075	SV 110044	0.0		115 59	86 62	100 54	112 33	86 43	90 47			
9	SV 230070	SV 230070	PD 170035	SV 200014	0.0		94 58	93 43	99 43	117 25	92 35	93 38			
											★★★☆				
1	SV 200014	SV 200014	PD 160462	SV 160011	0.0		106 56	78 45	107 46	113 23	81 41	80 39			
2	SV 210001	SV 210001		SV 160075	0.0		105 55	84 39	119 55	80 58	97 30	85 43			
3	SV 220047	SV 220047	PD 100075	SV 180079	0.0		101 62	92 54	105 59	97 42	95 48	89 49			
4	SV 230019	SV 230019	PD 100075	SV 160075	0.0		111 60	89 63	99 55	96 33	91 44	85 48			
5	SV 230045	SV 230045	PD 100075	SV 160040	0.0		100 59	99 62	101 53	100 34	84 42	86 47			

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							
										★★★★☆															
6	SV 240008	SV 240008	PD 170035	SV 210002	0.0						73	58	107	58	110	47	95	28	94	35	89	42			
7	SV 240046	SV 240046		SV 220006	0.0						96	49	88	49	107	29	115	11	87	17	89	30			
8	SV 240060	SV 240060		SV 180079	0.0						92	48	89	48	119	29	98	20	86	15	84	30			
9	SV 240061	SV 240061		SV 120091	0.0						112	48	83	48	100	30	121	15	84	16	89	30			
										★★★															
1	SV 210040	SV 210040	PD 160462	SV 160040	0.0						90	52	85	53	114	62	104	45	81	42	77	47			
2	SV 220012	SV 220012	PD 100075	SV 130085	0.0						100	62	98	64	87	61	97	42	87	47	78	51			
3	SV 230058	SV 230058	PD 100075	SV 140072	0.0						105	59	91	61	88	53	109	32	82	43	78	46			

Selection List on Cow Value

Bull Calves younger than 2 years

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	

Selection List on Cow Value
Heifers younger than 2 years

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin	Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value								
Sorted on ID						nt821	Q204X	F94L		Acc	Acc	Acc	Acc	Acc	Acc	Acc							
										★★★★													
1	SV 250005	SV 250005	SV 220064	0.0					94	47	97	49	107	28	113	16	86	19	95	30			
2	SV 250020	SV 250020	SV 220037	0.0					94	40	98	49	104	27	109	11	88	15	92	27			
										★★★★☆													
1	SV 250001	SV 250001	SV 220024	0.0					97	47	87	52	111	30	113	17	81	21	85	32			
2	SV 250023	SV 250023	SV 210009	0.0					113	43	80	12	105	19	117	29	76	15	83	21			
3	SV 250030	SV 250030	SV 160040	0.0					106	47	85	19	114	27	107	14	78	8	84	21			
4	SV 250040	SV 250040	SV 220027	0.0					99	45	83	21	109	19	112	12	83	17	83	21			
5	SV 250047	SV 250047	SV 130085	0.0					103	46	89	21	101	30	105	15	82	11	81	23			
6	SV 250056	SV 250056	SV 220066	0.0					93	49	90	22	103	23	116	13	80	19	82	23			
7	SV 250062	SV 250062	SV 210033	0.0					105	44	83	19	105	27	121	28	77	15	85	24			
8	SV 250063	SV 250063	SV 210108	0.0					104	47	88	24	100	29	120	21	80	19	87	26			
9	SV 250065	SV 250065	SV 200013	0.0					102	46	82	23	109	25	112	12	80	18	81	23			
10	SV 250067	SV 250067	SV 230043	0.0					104	47	90	28	96	23	117	11	83	15	86	23			
										★★★★													
1	SV 250032	SV 250032	SV 200004	0.0					98	48	83	25	105	29	113	12	79	19	77	25			
2	SV 250035	SV 250035	SV 200014	0.0					107	48	80	23	106	23	115	12	75	21	78	23			

	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.

