

BORAN

GENOMIC BREEDING VALUE REPORT

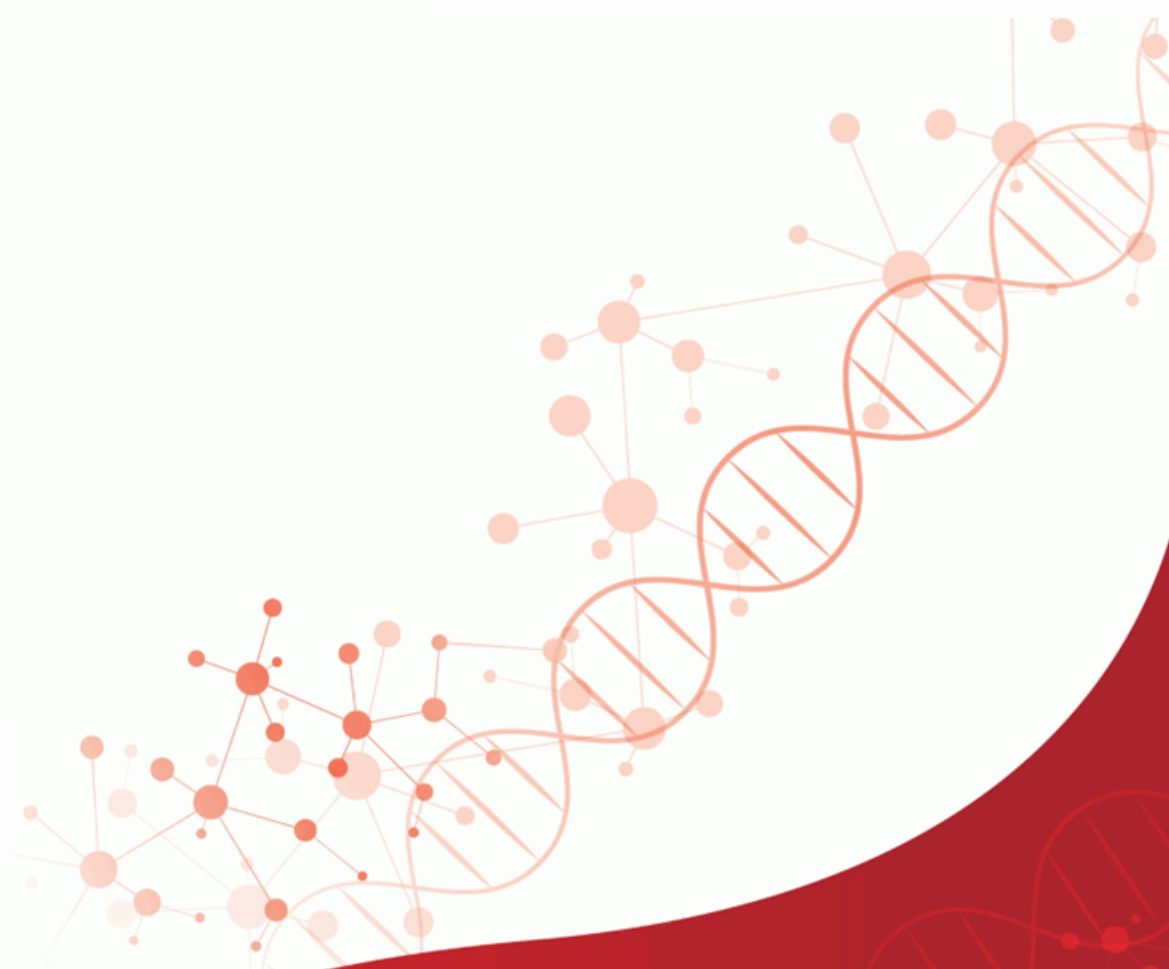
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DE REENDT HOLDINGS

Herd Number: 729657

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SA Stud Book's breeding value analyses are at a very high standard and are internationally accredited. The models were adjusted to enable a more precise determination of current breeding values.

Genomic Breeding Values (GEBVs)



Genomically analyzed animals are marked with the accompanying logo. Older animals with accurate breeding values (Reference Population) are used to determine the relationship between the SNP markers and the breeding values, which are unique to each breed. Production measurements, pedigrees and genomic information are used to estimate Genomic Breeding Values (GEBVs). Genomically tested young animals therefore have extra information with which breeding values can be estimated especially for complex traits such as fertility and milk.

 Parentages can be determined very accurately with 50 000 markers, instead of the 15-30 markers with previous DNA tests, provided that the parent has also been genomically tested. Parentages are indicated as follows in this report:

- ☐ The parent has not been tested, and the parentage cannot therefore be confirmed genomically.
- ☒ Parentage is genomically correct
- ☒ Parentage conflict. If the correct parent has been genomically tested, SA Studbook will contact you. If the breeder of the animal confirms that the genomically designated parent was also on the farm at the time of mating, the parentage can be corrected. Please work extremely carefully when collecting and marking hair samples, otherwise the test must be repeated. If there are any queries, please contact Jason Reding at jason@studbook.co.za

Update to the Evaluation

Best scientific practice and technological improvements have made it possible to update the Genomic Evaluation as follows:

1. **Previous Calf:** A cow whose previous calf died or was not weaned will have its cow fertility and current calf's weaning weight penalized.
2. **The age adjustment** is within the contemporary group for weaning weight and growth traits instead of across the breed as before. This adjustment may affect some herds more than others.
3. **Mature Weight EBV/Maintenance Value** uses all of the cow's weights at weaning as a repeated measurement, not just the first 3 measurements as before. The EBV appears as Cow Weight Weaning on the report.

New breeding values

- **Cow weight at birth of the calf**
- **Cow weight at weaning of the calf**
- **Cow-Calf Ratio at birth of the calf.** The Cow-Calf ratio is calculated with breeding values.
- **Cow-Calf Ratio at weaning of the calf.** The Cow-Calf ratio is calculated with breeding values.
- **Veld growth breeding value:** The growth rate and adaptability from weaning to year or 18 months for animals in Phase B on the veld.
- **Skin thickness:** Skin thickness is an indication of adaptation, where thicker skins protect the animal more against ticks as well as heat (due to an increase in blood vessels in the skin)



EBVs, EBVi's and GEBVs

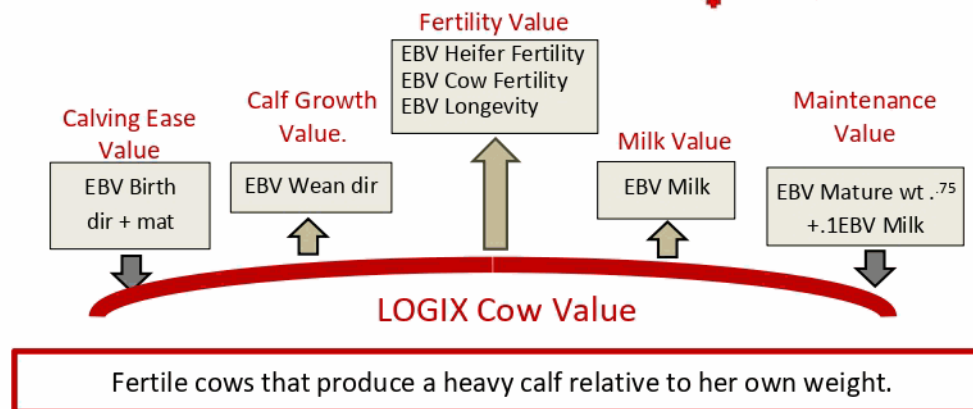
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100 tend to be in the more favourable direction.

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

GROWERS

(GOOD ENVIRONMENT)

- Calf Growth / Growth Value > 120
- Cow Value and Fertility Value average to high

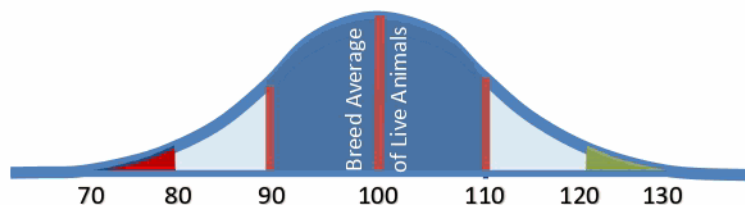
Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

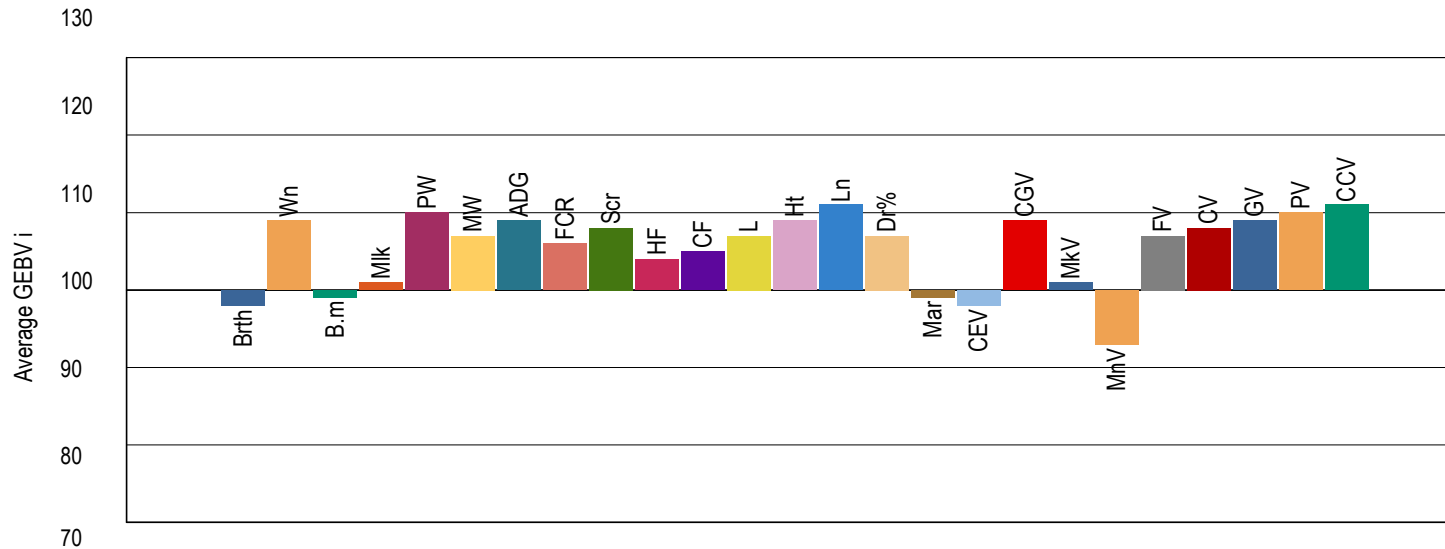


Examples

Type of Animal	Cow Value	Calving Ease V	Calf Growth 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

	EBVi	Description / Measurement	Goal	High Value	Low 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)	Profitable cows	Loss	Profit
	Growth Value	Efficient growth on veld and in feedlot (Rand-value)	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 18mnth 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	Thick	Thin
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	<1	>1
Carcass	Eye Muscle Area	RTU Eye muscle area	Bigger steaks	Small	Big
	Fat	RTU P8 Backfat Thickness	Carcass quality	Thin	Thick
	Marbling	RTU % Marbling	Juicy meat	Low	High
	Dressing%	Carcass weight / Live weight	High dressing %	Low	High

Herd and Breed Averages



Genomic Breeding Values (GEBVs):

Brth:	Birth weight	Scr:	Scrotal circumf.
Wn:	Weaning weight	HF:	Heifer Fertility
B.m:	Birth maternal	CF:	Cow Fertility
Mlk:	Milk	LL:	Longevity
PW:	Post-wean weight	Ht:	Height
MW:	Mature weight	Ln:	Length
ADG:	Average Daily Gain	Dr%:	Dressing%
FCR:	Feed Conversion Ratio	Mar:	Marbling

Selection Values:

CEV:	Calving Ease Value
CGV:	Calf Growth Value
MkV:	Milk Value
MnV:	Maintenance Value
FV:	Fertility Value
CV:	Cow Value
GV:	Growth Value
PV:	Production Value
CCV:	Carcass Value

	Trait	EBV Herd	EBVi Herd	EBV Breed
Prewean Growth	Birth Weight	0.48	98	0.35
	Wean Weight	4.2	109	1.3
	Birth Mat.	-0.20	99	-0.21
	Milk (Wn.Mat.)	0.7	101	0.5
Postwean Growth	Postwean Wt	9.2	110	4.0
	Mature Weight	13	107	7
	ADG	10	109	-3
	FCR	-12	106	0
Fertility	Scrotal Circumf.	5.9	108	2.0
	Heifer Fertility	-3.3	104	-1.0
	Cow Fertility	-1.1	105	-0.1
	Longevity	35.9	107	30.6
Frame	Height	7	109	2
	Length	7	111	1
Carcass	Dressing%	0.09	107	0.00
	Marbling	-0.31	99	-0.23

Selection Value	Ave. Herd
Calving Ease	98
Calf Growth	109
Milk	101
Maintenance	93
Fertility	107
Cow Value	108
Growth Value	109
Production Value	110
Carcass Value	111

- 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 earlier and/or more regularly.

Genetic Windows

Bulls on the farm

Bulls born in and earlier

Total:

130
120
110
100
90
80
70

Sires of young animals

Sires of animals 3 years and younger

Total:

130
120
110
100
90
80
70

Bull calves

Bulls born in

Total:

130
120
110
100
90
80
70

Cow Herd

Cows born in and earlier

Total:

130
120
110
100
90
80
70

Cows older than 6 years

Cows born in and earlier

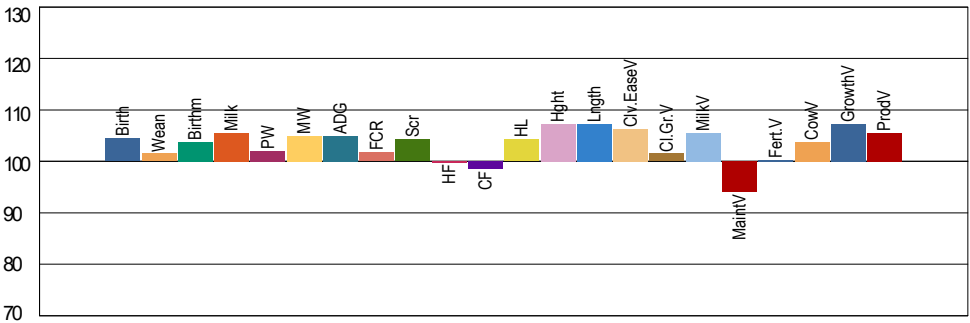
Total:

130
120
110
100
90
80
70

Heifer calves

Heifers born in 2025

Total: 4



Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertility				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	FCR	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:								100	100	100	100	100	100	100	100	100	100	100	100	100	100
2021	2	★★★★★	87	112	101	100	109	110	95	106	85	112	101	101	112	98	98	96	110	108	103	112	105	104
2022	3	★★★★☆	108	103	99	88	101	101	108	103	110	103	105	99	105	113	103	98	100	95	106	105	99	103
2023	2	★★★★★	80	129	97	81	112	112	122	118	85	129	87	97	125	123	124	123	118	95	123	105	121	123
2024	2	★★★★☆	92	119	87	92	133	125	127	131	98	119	84	87	117	108	125	119	111	129	125	113	122	124
2025	4	★★★★☆	106	102	106	94	100	104	107	106	105	102	104	106	102	105	105	102	104	100	99	104	107	107
2026	3	★★★★★	100	104	105	105	105	112	104	111	96	104	107	105	108	94	107	104	110	106	99	108	105	107
Cows in Herd Average:			96	112	99	93	110	111	111	113	97	112	98	99	112	107	110	104	109	106	109	108	110	111

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	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight	Mature Weight		Mainte- nance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity	
	Number	EBV		Number	EBV		Number	EBV		Number	EBV		Number	EBV	Number	EBV	Number			EBV

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		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility			
	Number	Dir EBV			Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	
2016	5443	0.25	-0.17	101	1281	0.3	97	1281	0.23	99	592	1.5	529	4	104	2172	-0.3	1452	-0.1	9930	20.4	96	96	
2017	5493	0.27	-0.18	101	1761	0.5	98	1761	0.42	100	648	2.4	645	5	103	2363	0.4	1709	0.1	9984	21.7	96	96	
2018	5384	0.28	-0.21	101	1835	1.1	99	1835	0.52	100	828	3.5	705	5	103	2244	-0.6	1771	-0.3	10164	23.4	99	98	
2019	6007	0.27	-0.21	101	1830	1.1	100	1830	0.31	99	1030	3.8	813	4	103	2427	-0.7	1951	0.0	10086	24.2	98	98	
2020	6058	0.28	-0.21	101	2614	1.2	100	2614	0.41	100	1350	4.0	812	5	102	2473	-0.5	1903	-0.3	9714	25.5	99	100	
2021	6281	0.32	-0.24	101	2943	1.7	101	2943	0.38	99	1176	4.8	847	5	102	2722	-1.0	1752	-0.1	9450	26.3	100	101	
2022	7027	0.38	-0.21	100	3201	1.7	101	3201	0.30	99	1254	5.4	769	3	102	2616	-1.7	603	-0.4	4191	25.3	101	101	
2023	7776	0.34	-0.22	100	3889	1.5	100	3889	0.99	102	1553	4.8	92	4	100	1264	-1.9	7	1.3			102	101	
2024	8885	0.37	-0.21	100	3974	1.9	102	3974	0.92	102	1552	5.1			99	13	-1.1					102	102	
2025	9169	0.38	-0.20	100	3793	1.9	102	3793	1.13	103	219	5.6			98								103	
2026	4059	0.36	-0.18	100	96	2.1	102	96	0.67	101													100	

Genetic Trends for Growth Test and Carcass Traits

Herd

Birth Year	Growth												Frame						Carcass						Selection Values		
	FCR			ADG			Veld Growth			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	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi		

Breed

Birth Year	Growth												Frame						Carcass						Selection Values			
	FCR			ADG			Veld Growth			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	Number	EBV	EBVi	EBV	EBVi	EBV	EBVi	EBV	EBVi				
2017	19	-7	104	176	-5	99	447	-10	97	174	1.1	98	175	0	97	175	-1	98	118	-0.22	96	-0.31	98	-0.32	99	98	96	95
2018	48	7	97	375	-4	99	458	-3	102	379	1.1	98	375	2	100	375	1	100	240	0.07	101	0.05	101	-0.33	98	98	96	99
2019	37	7	97	455	-3	100	563	-6	100	432	1.4	99	456	3	101	462	1	101	348	-0.01	100	-0.29	98	-0.32	99	98	98	101
2020	28	-7	104	580	0	102	722	-5	101	525	2.6	101	584	3	101	590	2	102	448	0.05	100	-0.22	99	-0.26	100	101	101	102
2021	40	-6	103	557	-3	101	642	-5	101	537	1.7	99	557	2	101	560	1	101	331	0.16	102	-0.15	99	-0.24	100	102	99	100
2022	67	-2	101	476	-1	102	795	-5	100	491	2.3	101	494	3	102	494	2	103	316	0.23	103	0.34	104	-0.19	101	104	100	101
2023	29	3	99	476	2	104	1016	-5	101	510	3.7	103	508	3	103	510	3	105	195	0.59	109	0.08	102	-0.35	98	107	102	104
2024	10	-6	103	476	-1	102	927	-8	99	463	4.6	105	462	4	103	463	3	104	159	0.55	108	0.52	106	-0.11	102	110	100	106
2025	6	-2	101	12	4	105	188	-4	101	12	7.3	110	12	3	102	12	2	103	12	-0.11	98	0.23	103	0.07	105	104	104	102
2026																												

Sires

Bull			Selection Values										Birth			Wean				Grwth & Adaptation					Fertility				Raam		Carcass				Progeny	
Index EBV Acc	Genomic	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass V	Cow wt brth	Birth wt	Cow-Calf birth	Cow wt wean	Wean wt	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thckn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %	Nr measured		
ID Comp.nr																																		Birth	Wean	Grwth Test
B 060012 63039416		K6K3094 F3243	109 91	93 76	102 76	127 80	96 64	111 70	132 64	121 68	104 60	79 -11 66	111 -0.34 -0.34	122 -2.5 -2.5	74 -16 80	93 -1.0 76	102 1.0 76	110 9 77	91 -1.2 56	143 60 63	77 -41 28	132 -64 45	81 -0.58 71	129 16.6 66	99 -0.6 63	93 1.2 41	92 23.9 88	106 6 67	110 6.7 60	136 2.36 57	81 -1.93 64	97 -0.44 58	131 0.40 60	48 5	6 11 29	
BG 210023 91550558		BH 150253 MHB 100019	109 91	87 89	96 86	123 85	109 84	109 79	79 84	100 80	84 84	87 -4 85	107 -0.09 93	97 -0.1 88	79 -11 85	87 -3.0 89	96 -0.4 86	97 -19 87	99 3.5 85	89 -19 84	85 -28 82	96 9 82	111 0.69 85	101 2.5 84	127 -18.3 84	86 2.5 82	113 40.7 87	98 1 84	95 -2.5 84	84 -1.01 83	82 -1.88 84	90 -0.83 84	82 -0.22 84	33 10		
BH 160296 84689025		BH 110020 CI 060015	90 86	122 79	80 66	95 68	102 63	105 67	101 34	104 57	123 29	114 18 59	86 1.24 90	98 -0.2 79	105 11 68	122 8.6 79	80 -4.3 66	97 -19 71	120 14.9 48	100 -3 33	98 -9 18	92 16 19	120 1.07 34	100 2.0 33	92 4.0 69	104 -0.8 39	110 38.6 81	108 6 33	107 4.8 31	112 0.78 28	116 1.52 30	103 -0.04 28	114 0.18 29	34 4	8 10	
BMK 170039 87615126		EM 120118 BMK 140003	74 87	115 49	95 47	99 53	83 55	85 53	95 45	84 51	107 51	108 13 45	83 1.48 91	73 2.2 74	100 7 53	115 6.3 49	95 -0.7 47	107 2 50	115 12.1 44	104 2 52	90 -20 19	90 21 51	102 0.32 61	104 4.2 58	97 0.9 58	67 6.0 35.5	106 35.5 72	100 2 56	101 1.1 50	99 -0.02 0.02	102 0.10 0.10	100 -0.25 0.00	100 0.00 51	40 3	1 2 2	
BU 140160 81053738		CI 080030 E 090051	108 95	98 94	129 92	92 91	97 90	108 83	81 92	99 86	97 88	100 7 91	114 -0.53 96	99 -0.3 93	105 12 91	98 0.5 94	129 7.3 92	118 27 92	100 4.1 92	78 -36 91	100 -6 91	54 1.61 87	132 93	74 -11.3 93	100 -0.9 90	93 1.3 88	104 33.9 92	80 -10 92	102 2.0 91	117 1.11 88	95 -0.59 88	99 -0.32 88	115 0.19 88	61 12	40 8 20	
BU 200030 90107806		SS 090147 BU 140123	109 90	112 90	105 85	82 84	101 83	109 78	111 86	111 80	104 81	128 30 84	103 0.18 93	117 -2.0 87	120 25 84	112 5.3 90	105 1.7 85	103 -6 86	103 5.7 86	120 26 86	90 -21 80	125 -50 80	114 0.83 89	96 -0.1 88	107 -5.5 83	91 1.6 81	105 34.8 86	156 34 87	148 30.6 85	113 0.85 81	77 -2.27 81	81 -1.34 81	109 0.11 81	39 2	21	
CFH 130266 79556577		C 090014 CFH 080059	76 98	146 97	85 96	80 96	98 96	110 87	130 96	120 90	148 96	121 24 96	66 2.56 98	94 0.2 97	124 28 96	147 16.6 97	85 -3.0 96	109 7 96	135 23.3 96	131 42 96	84 -30 95	129 -58 96	104 0.41 97	110 7.0 96	78 12.9 96	115 -2.9 96	106 35.6 97	133 21 96	136 22.8 96	137 2.46 96	144 4.20 96	123 1.11 96	143 0.55 96	153 18	71 5 7	
FN 110229 79471462		FN 050028 FN 040023	89 98	122 96	91 94	95 94	150 94	142 86	138 94	150 88	137 93	118 22 94	94 0.77 98	89 0.7 96	104 11 94	122 8.4 96	91 -1.7 94	106 -1 95	122 16.4 94	137 52 94	78 -40 93	128 -55 92	127 1.36 94	134 19.0 93	139 -26.1 94	151 -9.6 92	115 42.2 96	124 16 93	129 18.7 93	132 2.15 93	119 1.76 93	97 -0.43 93	134 0.44 93	125 15	78 12 18	
FPL 130041 80263338		FPL 090055 HOT 070007	103 96	103 95	131 93	89 93	79 92	98 85	137 92	111 87	123 92	100 7 92	103 0.13 92	102 -0.6 95	108 14 93	103 2.4 95	131 7.8 93	122 36 94	105 6.5 92	132 44 91	111 -55 89	128 -1.14 93	67 93	125 14.5 92	79 12.5 91	85 2.8 90	99 29.5 94	126 17 92	128 17.9 91	104 0.29 91	127 2.60 92	152 2.88 91	108 0.11 92	101 2	51 16 27	
JRS 160009 85932135		B 120105 JRS 130001	76 76	145 67	103 39	78 38	95 50	113 52	114 30	116 45	114 25	123 26 34	67 2.50 81	96 0.0 62	126 30 38	145 15.9 67	103 1.2 39	120 30 48	138 25.2 48	114 17 29	105 1 15	119 -37 32	97 0.12	106 5.1 31	92 4.2 50	102 -0.5 33	100 30.8 68	115 11 31	123 14.9 28	96 -0.25 24	84 -1.65 26	92 -0.69 24	94 -0.07 25	8 8		
MC 100028 70535927		FN 050035 CFH 050571	119 94	97 93	50 92	80 92	112 90	84 83	117 89	92 85	86 88	122 25 89	114 -0.55 94	128 -3.0 93	128 31 92	97 0.4 93	50 -11.4 92	52 -119 92	105 7.0 88	118 24 89	112 12 88	121 -40 86	95 0.03 90	112 8.0 90	107 -5.1 89	123 -3.9 87	101 31.2 93	93 -2 90	93 -3.5 89	74 -1.68 87	71 -2.95 88	71 -1.93 87	71 -0.36 88	25 6	18 12 36	
MHB 040027 62813639		KPO786 ADC5761	75 99	102 97	94 98	112 98	94 92	87 87	98 96	87 90	115 94	93 1 97	73 2.10 99	81 1.4 99	90 -1 98	102 1.9 97	94 -0.9 98	101 -11 98	112 10.6 92	93 -14 95	116 18 60	94 13 69	125 1.27	117 10.5 97	102 -1.9 96	86 2.5 81	100 30.6 99	73 -14 96	83 -9.9 94	110 0.67 93	132 3.08 95	86 -1.07 93	114 0.19 94	127 64	15 147 425	
VST 160101 85069490		MHB 040010 VST 120100	98 64	100 59	119 59	88 59	97 49	98 52	114 67	103 56	121 66	118 21 58	96 0.65 63	104 -0.7 62	111 16 59	100 1.3 59	119 5.0 59	110 9 59	111 10.2 48	111 13 66	106 3 16	102 -3 18	107 0.31	107 5.7 73	88 6.6 49	99 0.0 31	113 40.8 66	103 4 71	119 12.2 63	105 0.37 62	101 -0.01 69	87 -0.99 62	106 0.08 66			
VST 210266 93666097		MHB 040027 VST 150103	85 78	105 70	104 64	98 63	100 55	96 60	102 68	97 62	112 67	106 11 62	80 1.63 84	95 0.1 71	100 7 63	105 3.0 70	104 1.5 64	107 2 66	111 10.0 53	89 -20 67	116 18 32	86 28 36	129 1.46	92 -2.0 73	98 0.2 56	97 0.6 44	107 36.3 65	75 -12 71	83 -10.0	100 0.00 64	104 0.33 70	90 -0.80 64	101 0.01 67	21	6	

Sires

Bull				Selection Values								Birth			Wean				Grwth & Adaptation					Fertility				Raam		Carcass				Progeny				
Index EBV Acc	ID	Comp.nr	Genomic	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass V	Cow wt brth	Birth wt	Cow-Calf birth	Cow wt wean	Wean wt	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thickn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %	Birth	Wean	
W	190010			BU 140016	111	101	126	114	117	137	85	126	105	91	108	104	87	101	126	129	94	80	89	68	88	103	120	110	98	95	98	110	118	125	112	86	44	
	88266523			W 120060	93	93	86	88	85	81	82	81	82	-1	-0.14	-0.7	-4	1.8	6.6	50	0.9	-34	-23	64	-0.27	3.3	-13.9	-1.9	29.2	-1	-0.3	0.68	1.70	1.27	0.16		11	11
														83	96	91	88	93	86	89	84	82	81	81	83	83	85	82	87	83	82	82	82	82				

Growth Tests

Animal				Weight			Conformation				Growth & Efficiency				Carcass				
Test Code	Sex	Test number	Sire ID	Cow	Wean	End-	Length	Height	Length/	Scrotum	Intake	ADG	FCR	Growth	EMA	Fat	Marbling	Dress %	Carcass
Test Station		ID	Dam ID	Value	dir	wt			Height					Value	Eye muscle				Value
															Area				
202303 D11 M		0682438BOR		92	113	124	111	104	111	131	95	118	119	111	115	120	85	117	127
BOSIU BORANE		BU 220238	MHB 040027	57	63	13	8	5	1.13	17.5	0.04	24	-37	71	1.00	1.86	-1.11	0.23	52
		94499589	FN 090449			72	68	74	71	76	38	70	38		52	53	52	52	52

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Value										Birth			Wean				Growth & Adaptation					Fertility				Frame		Carcass				
ID	Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -brth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean wt	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thickn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %
				Sire ID Dam ID																																
BU 220238			MHB 040027		85	113	96	89	96	92	103	111	97	127	112	83	96	111	113	96	101	121	118	120	119	121	131	100	92	99	104	111	115	120	85	117
94499589			FN 090449		66	63	65	64	57	57	64	71	61	52	17	1.43	0.0	17	5.6	-0.5	-12	15.5	24	25	-37	1.1	17.5	-1.0	1.4	30.1	5	8	1.00	1.86	-1.11	0.23
															60	65	66	64	63	65	64	57	70	36	38	79	76	60	47	65	74	68	52	53	52	52
HH 260002			BU 200030		113	101	111	87	99	105	106	104	106	101	116	114	109	113	101	111	104	99	105	102	102	119	88	102	94	105	131	125	109	88	92	107
6020430622	5		BU 220030		55	55	41	40	34	42	51	43	42	22	20	-0.55	-1.3	18	1.7	3.2	-5	3.6	4	-2	-4	1.0	-4.2	-2.0	1.1	35.0	20	16	0.63	-1.27	-0.69	0.09
															40	59	49	40	55	41	45	45	42	18	14	48	46	36	22	43	45	41	21	22	21	22

Breeding Values and Accuracies: Cows & Heifers

Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass				
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -birth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thckn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %
BH 210073 91710806	1	BH 160296 BH 140049			95 57	109 49	96 47	101 50	111 45	112 45	107 50	98 22	109 38	108 20	91 -1	87 1.18	102 -0.6	97 4	109 4.3	96 -0.5	104 -3	109 8.7	99 -5	100 -6	99 2	112 0.7	102 2.8	106 -4.9	111 -2.1	111 39.4	104 4	104 3	107 0.51	112 1.08	98 -0.34	109 0.12
BMK 210056 93063865	2	BMK 170039 BMK 190036			78 73	115 39	105 37	99 39	107 43	107 43	112 45	92 33	102 40	109 34	107 12	82 1.53	81 1.5	99 6	115 6.1	105 1.7	115 19	115 12.4	97 -8	100 -6	93 15	112 0.8	117 10.8	110 -7.0	94 1.1	113 40.8	105 5	103 3	96 -0.27	104 0.29	105 0.08	97 -0.04
BG 220120 94537354		JRS 160009 WG 100005			96 65	120 64	113 42	91 39	110 41	123 48	124 58	111 30	124 43	109 28	103 9	93 0.83	103 -0.7	108 14	120 7.8	113 3.6	120 31	121 15.4	104 2	126 33	100 1	102 0.3	104 4.1	105 -4.5	113 -2.5	109 37.5	111 8	116 11	102 0.14	102 0.15	100 -0.26	102 0.03
BS 220005 99255382	4	MC 100028 BS 090029			113 67	98 52	68 52	80 50	95 48	77 49	77 54	117 42	86 47	94 32	125 28	113 -0.50	135 -3.7	127 30	98 0.6	68 -7.0	66 -88	99 3.6	115 20	114 15	117 -34	88 -0.3	115 9.5	83 10.2	109 -1.8	100 30.5	93 -2	90 -6	85 -0.94	87 -1.38	82 -1.31	84 -0.20
BU 220030 93366243	8	BU 140160 BU 180001			116 72	90 69	117 54	92 53	98 46	102 55	100 65	97 47	100 53	97 29	104 10	125 -1.28	101 -0.5	105 12	90 -1.8	117 4.6	105 -3	95 1.4	90 -18	115 16	78 44	124 1.3	80 -8.3	96 1.5	96 0.7	106 35.1	92 -3	102 2	106 0.41	98 -0.26	103 -0.04	105 0.07
PRB 230055 95918686		CFH 130266 PRB 160046			81 60	129 56	90 48	75 50	88 43	90 47	114 55	115 48	96 47	127 43	129 31	81 1.62	101 -0.5	132 35	129 10.9	90 -1.8	99 -16	120 15.0	117 21	87 -25	118 -35	104 0.4	112 8.2	68 19.3	108 -1.6	106 35.1	116 11	113 9	112 0.84	122 2.08	102 -0.11	115 0.20
PRB 230071 96038724		FN 110229 PRB 160067			79 71	129 69	104 55	87 55	136 47	133 55	123 65	128 44	139 52	132 36	119 22	88 1.15	83 1.2	113 18	129 10.8	104 1.4	116 22	129 20.0	131 43	73 -47	127 -53	105 0.5	124 14.4	122 -14.9	138 -7.2	103 33.0	125 17	132 20	121 1.39	100 -0.10	102 -0.09	120 0.26
PRB 240002 96780689	3	FN 110229 BH 180086			92 69	125 70	92 54	86 56	141 46	135 55	116 66	140 48	145 53	138 41	124 26	97 0.54	96 0.0	115 20	125 9.4	92 -1.4	104 -5	121 15.8	139 55	64 -60	130 -58	113 0.8	116 9.9	140 -26.3	127 -5.1	116 43.7	131 20	135 22	133 2.18	109 0.86	97 -0.43	133 0.43
PRB 240010 96780705		FN 110229 PRB 170006			91 70	113 69	82 56	98 56	125 49	114 55	101 65	114 50	117 54	114 43	115 19	98 0.50	85 1.0	101 8	113 5.6	82 -3.8	94 -25	112 10.4	111 13	89 -23	108 -16	118 1.0	106 4.8	118 -12.4	123 -4.4	110 38.5	113 10	113 9	113 0.89	102 0.14	90 -0.82	113 0.17
BMK 250030 99304966	4	W 190010 BMK 210056			98 65	106 49	115 40	105 43	112 35	121 43	116 50	88 27	113 38	107 25	99 6	98 0.47	93 0.2	93 1	106 3.2	115 4.1	119 30	103 5.4	88 -21	94 -15	81 39	100 0.2	110 7.0	115 -10.5	102 -0.4	106 35.0	100 2	101 1	103 0.21	111 1.00	115 0.68	104 0.06
BS 250052 99288698	1	VST 210266 BS 220005			112 61	94 44	85 41	88 40	97 37	86 41	84 46	109 40	91 41	103 37	116 19	107 -0.10	121 -2.4	113 19	94 -0.6	85 -3.0	80 -58	98 2.9	102 0	115 17	102 -4	109 0.6	104 3.8	90 5.2	103 -0.6	104 33.4	84 -7	86 -8	93 -0.47	95 -0.52	86 -1.05	92 -0.09
BU 250040 98679384	5	BU 200030 BU 220030			109 62	104 55	112 41	87 40	99 34	106 43	108 52	104 43	106 43	101 22	116 20	110 -0.31	108 -1.1	113 18	104 2.6	112 3.3	106 0	102 4.9	105 4	102 -2	102 -4	119 1.0	88 -4.2	102 -2.0	94 1.1	105 35.0	131 20	125 16	109 0.63	88 -1.27	92 -0.69	107 0.09

Breeding Values and Accuracies: Cows & Heifers

Value <80										Value >120										Breeding values with an accuracy < 5% are not printed																
Animal				Selection Values										Birth			Wean				Growth & Adaptability					Fertility				Frame		Carcass				
ID Animal no	% Inbreeding	Genomic Parentage	Index EBV Acc	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	Wean Calf V	Growth Value	Prod. Value	Carcass V	Cow wt -brth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	Wean mat	Cow-Calf wn	Post wn wt	ADG	Veld growth	FCR	Skin Thicken	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	Dress %
RVZ 250012 99129652	2	FPL 130041 BOS 180239			106 53	102 50	110 44	96 45	93 39	102 42	108 49	128 40	112 41	116 38	96 3	103 0.18	105 -0.9	101 8	102 2.0	110 2.9	109 6	105 6.6	125 33	111 11	122 -43	80 -0.6	115 9.5	92 4.1	95 0.9	102 32.5	114 10	117 11	103 0.22	121 1.97	136 1.90	106 0.08
BH 260172 6020313208		VST 160101 BH 210073			96 43	105 38	107 38	94 38	104 33	105 34	106 39	106 36	106 35	114 34	104 10	91 0.91	103 -0.7	104 10	105 2.8	107 2.3	107 3	110 9.5	105 4	103 -1	101 -1	107 0.5	104 4.2	97 0.8	105 -1.0	112 40.1	103 4	111 8	106 0.44	106 0.53	93 -0.66	107 0.10
HH 260001 6020443336	2	BG 210023 BG 220120			103 52	103 51	105 35	106 33	110 30	115 38	109 46	95 28	111 35	96 26	95 2	100 0.37	100 -0.4	93 1	103 2.4	105 1.6	109 7	110 9.4	96 -9	105 2	98 5	106 0.5	103 3.3	116 -11.4	100 0.0	111 39.1	105 5	105 4	93 -0.43	92 -0.86	95 -0.54	92 -0.10
HH 260004 6020766926	2	B 060012 BMK 210056			102 58	104 43	104 43	116 44	101 39	115 41	113 46	112 36	117 40	107 35	93 1	96 0.59	100 -0.4	86 -5	104 2.6	104 1.3	112 14	103 5.6	120 26	89 -23	114 -26	96 0.1	123 13.7	104 -3.8	93 1.1	102 32.3	106 5	106 5	116 1.05	92 -0.82	101 -0.18	114 0.18

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin		Genomic test	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Weaner Calf Value Acc	Growth Value Acc	Prod Value Acc	Carcass Value Acc
									★★★★										
1	BU 220238	KENZO	MHB 040027	FN 090449	0.0					8566	11363	9665	8964	9657	9257	10364	11171	9761	12752

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin nt821 F94L Q204X	Genomic test	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Weaner Calf Value Acc	Growth Value Acc	Prod Value Acc	Carcass Value Acc										
								★★★★★★																			
1	PRB 230071	BRITNEY	FN 110229	PRB 160067	0.0			79	71	129	69	104	55	87	55	136	47	133	55	123	65	128	44	139	52	132	36
2	PRB 240002	ODETTE	FN 110229	BH 180086	3.1			92	69	125	70	92	54	86	56	141	46	135	55	116	66	140	48	145	53	138	41
								★★★★★☆																			
1	BG 220120	WINNIE	JRS 160009	WG 100005	0.4			96	65	120	64	113	42	91	39	110	41	123	48	124	58	111	30	124	43	109	28
								★★★★★																			
1	BH 210073	TWO-SCREWS	BH 160296	BH 140049	0.8			95	57	109	49	96	47	101	50	111	45	112	45	107	50	98	22	109	38	108	20
2	PRB 240010	LATIKA	FN 110229	PRB 170006	0.0			91	70	113	69	82	56	98	56	125	49	114	55	101	65	114	50	117	54	114	43
								★★★★☆																			
1	BMK 210056	HEIDI	BMK 170039	BMK 190036	1.7			78	73	115	39	105	37	99	39	107	43	107	43	112	45	92	33	102	40	109	34
2	BU 220030	HANNA	BU 140160	BU 180001	8.3			116	72	90	69	117	54	92	53	98	46	102	55	100	65	97	47	100	53	97	29
								★★★★																			
1	PRB 230055	DULCIE	CFH 130266	PRB 160046	0.0			81	60	129	56	90	48	75	50	88	43	90	47	114	55	115	48	96	47	127	43
								★★★																			
1	BS 220005	JODY	MC 100028	BS 090029	4.0			113	67	98	52	68	52	80	50	95	48	77	49	77	54	117	42	86	47	94	32

Selection List on Cow Value

Bull calves younger than 2 years

ID Sorted on ID		Name		Sire ID	Dam ID	Visual Score % Inbreeding	Horned / Polled	Myostatin				Genomic test	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Weaner Calf Value Acc	Growth Value Acc	Prod Value Acc	Carcass Value Acc
												★★★★☆										
1	HH 260002	HANIBAL		BU 200030	BU 220030	5.1							11355	10155	11141	8740	9934	10542	10651	10443	10642	10122

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID	Name	Sire ID	Dam ID	Visual Score % Inbreeding	Horned / Polled	Myostatin nt821 F94L Q204X	Genomic test	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Weaner Calf Value Acc	Growth Value Acc	Prod Value Acc	Carcass Value Acc
								★★★★★									
1	BMK 250030 HEIDI	W 190010	BMK 210056	4.3				9865	10649	11540	10543	11235	12143	11650	8827	11338	10725
								★★★★★									
1	HH 260001 WINNIE	BG 210023	BG 220120	1.8				10352	10351	10535	10633	11030	11538	10946	9528	11135	9626
2	HH 260004 HEIDI	B 060012	BMK 210056	1.6				10258	10443	10443	11644	10139	11541	11346	11236	11740	10735
								★★★★★									
1	BH 260172 TWO-SCREWS	VST 160101	BH 210073	0.3				9643	10538	10738	9438	10433	10534	10639	10636	10635	11434
2	BU 250040 HANNA	BU 200030	BU 220030	5.1				10962	10455	11241	8740	9934	10643	10852	10443	10643	10122
3	RVZ 250012 NAOMI	FPL 130041	BOS 180239	2.2				10653	10250	11044	9645	9339	10242	10849	12840	11241	11638
								★★★★★									
1	BS 250052 JODY	VST 210266	BS 220005	0.9				11261	9444	8541	8840	9737	8641	8446	10940	9141	10337

