

BORAN

GENOMIC BREEDING VALUE REPORT

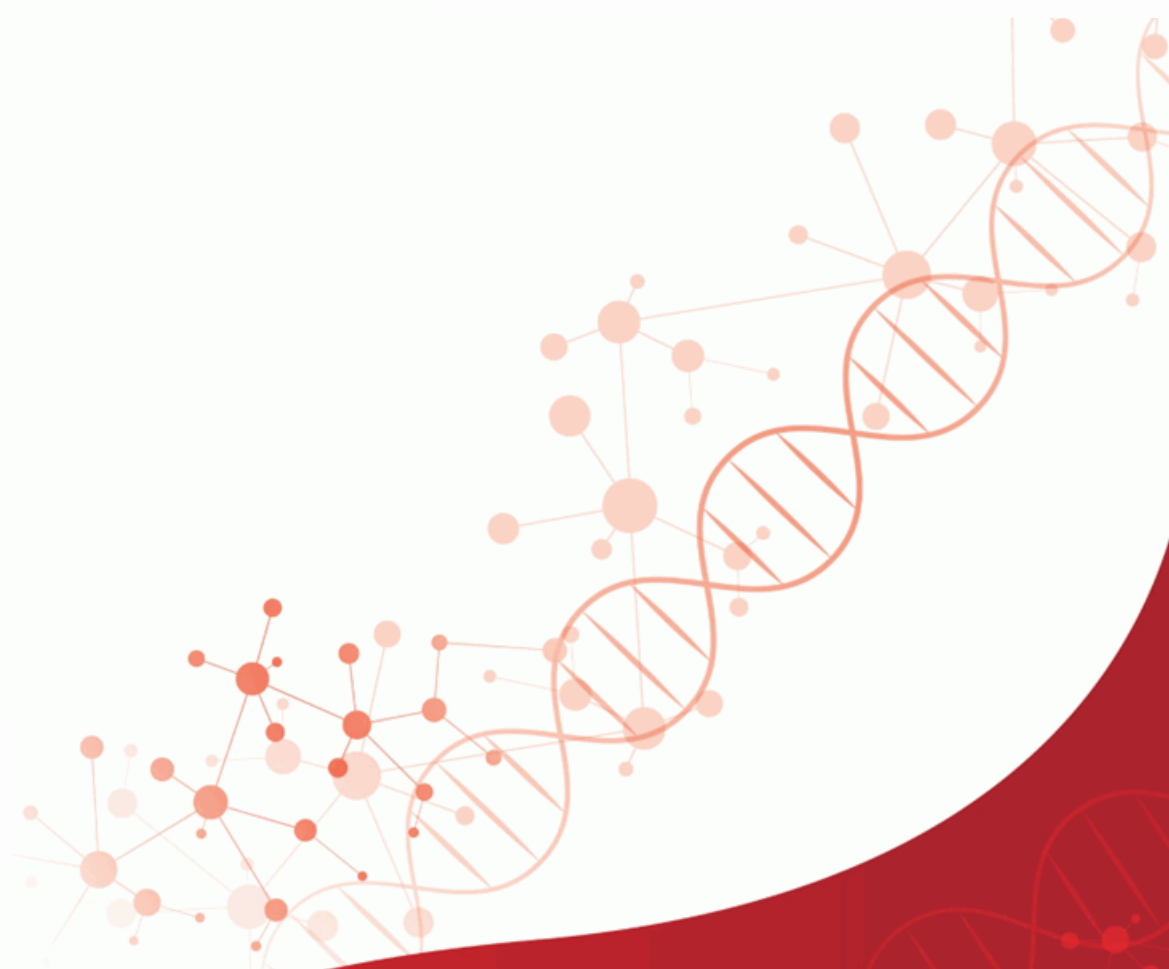
September 2026



TOSCAS BORAN STUD

Herd Number: 729960

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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

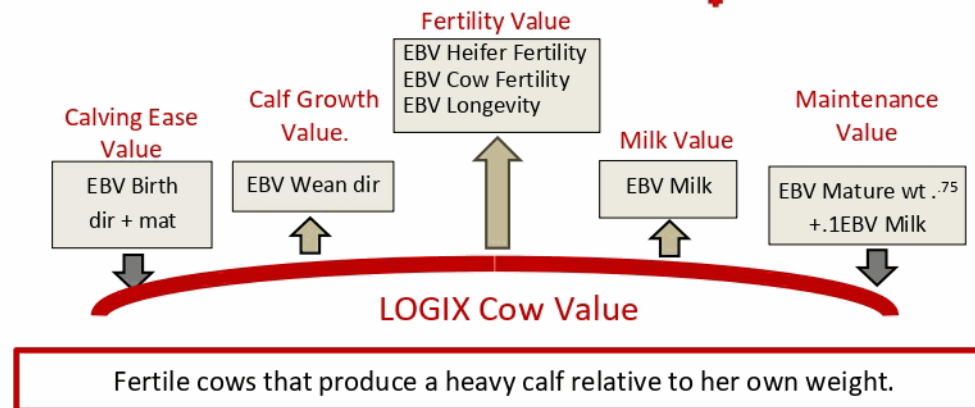
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100 tend to be in the more favourable direction.

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

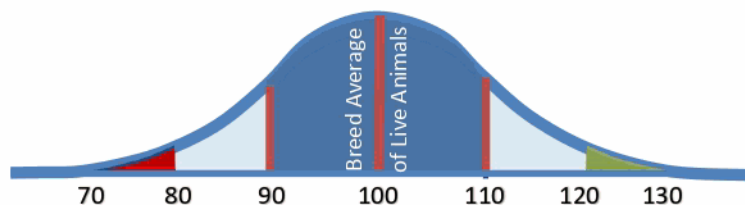
Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

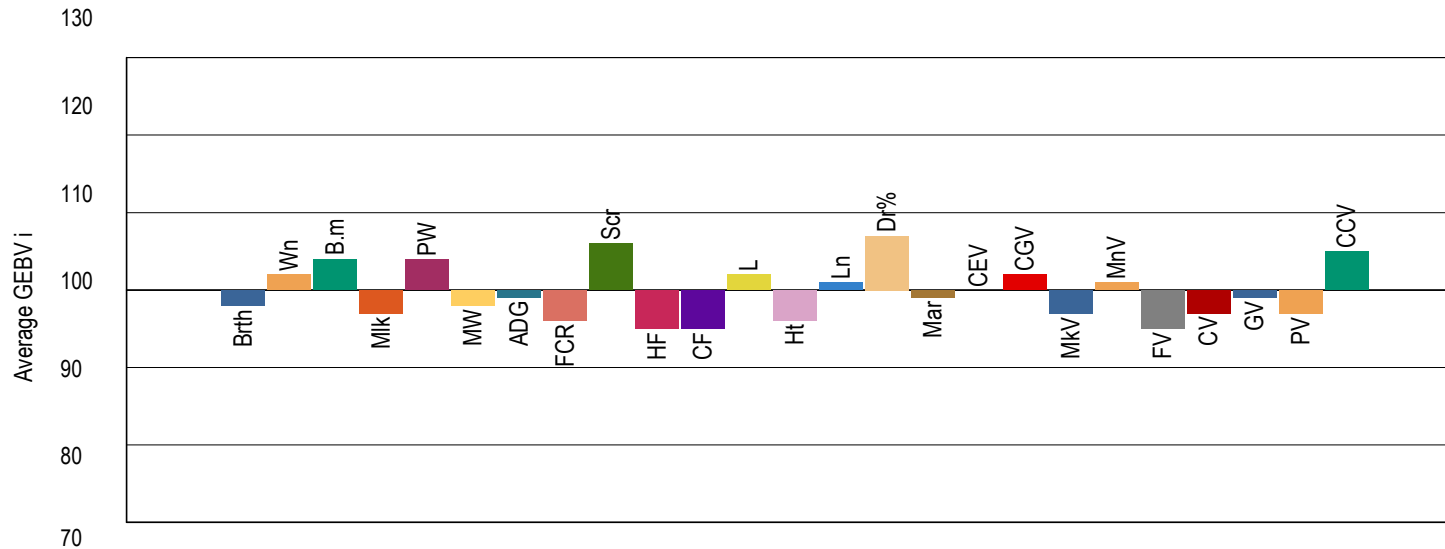


Examples

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
Mk:	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	0.49	98	0.35
	Wean Weight	2.1	102	1.3
	Birth Mat.	-0.31	104	-0.21
	Milk (Wn.Mat.)	-0.2	97	0.5
Postwean Growth	Postwean Wt	6.3	104	4.0
	Mature Weight	5	98	7
	ADG	-4	99	-3
	FCR	9	96	0
Fertility	Scrotal Circumf.	4.9	106	2.0
	Heifer Fertility	2.5	95	-1.0
	Cow Fertility	1.0	95	-0.1
	Longevity	32.0	102	30.6
Frame	Height	0	96	2
	Length	1	101	1
Carcass	Dressing%	0.10	107	0.00
	Marbling	-0.32	99	-0.23

Selection Value	Ave. Herd
Calving Ease	100
Calf Growth	102
Milk	97
Maintenance	101
Fertility	95
Cow Value	97
Growth Value	99
Production Value	97
Carcass Value	105

- 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?:

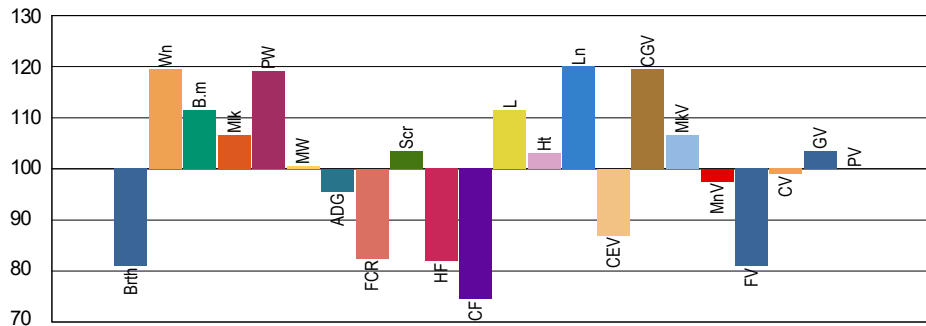
- Calving ease: Smaller calf at birth - easier calving
- Calf growth: Heavier calves at wean due to growth potential of the calf
- Milk: Cows with more milk and better mothering ability
- Maintenance: Animals with low maintenance requirements (lower mature weight).
- Fertility: Cows/daughters that calve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

Genetic Windows

Bulls on the farm

Bulls born in 2023 and earlier

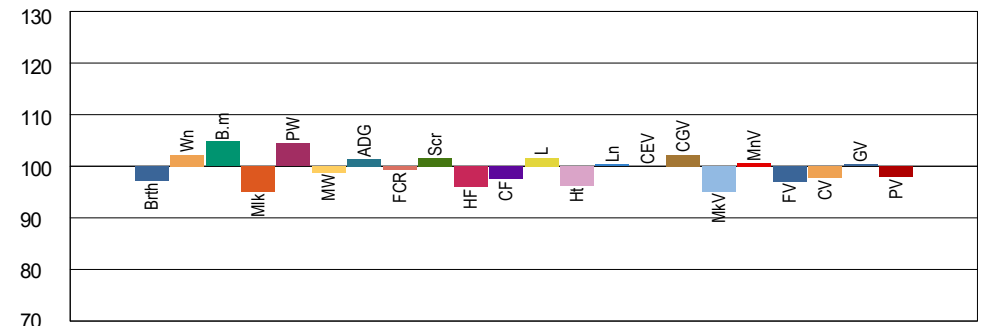
Total: 2



Cow Herd

Cows born in 2024 and earlier

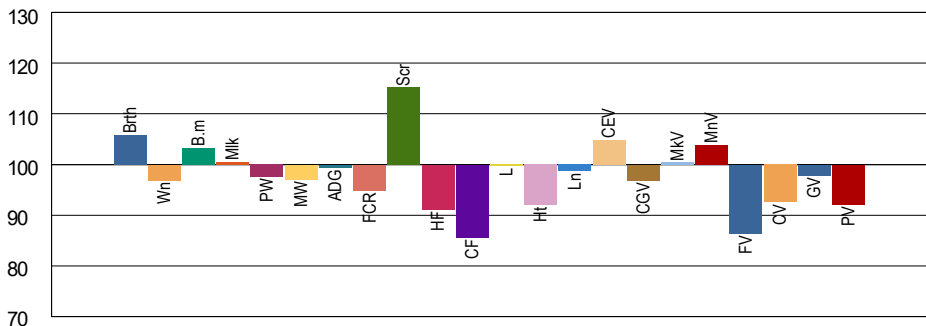
Total: 8



Sires of young animals

Sires of animals 3 years and younger

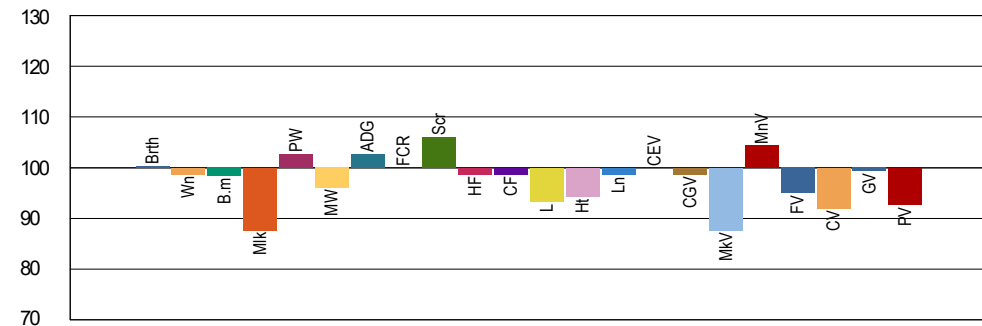
Total: 7



Cows older than 6 years

Cows born in 2020 and earlier

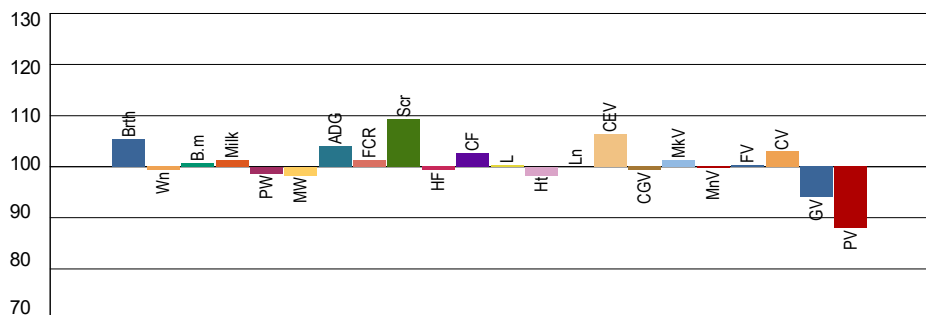
Total: 3



Bull calves

Bulls born in 2025

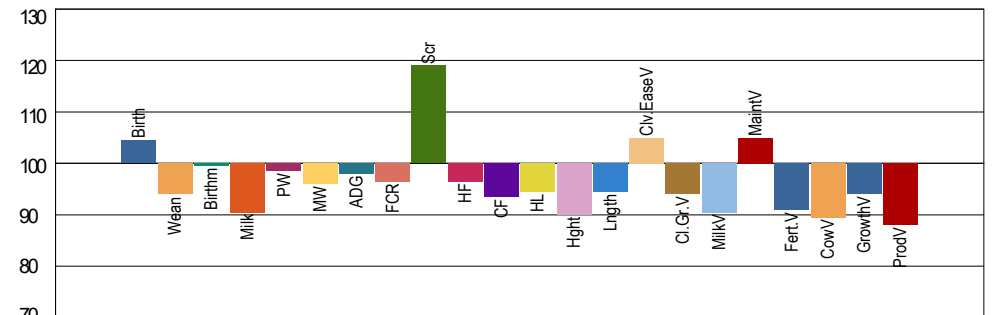
Total: 3



Heifer calves

Heifers born in 2025

Total: 2

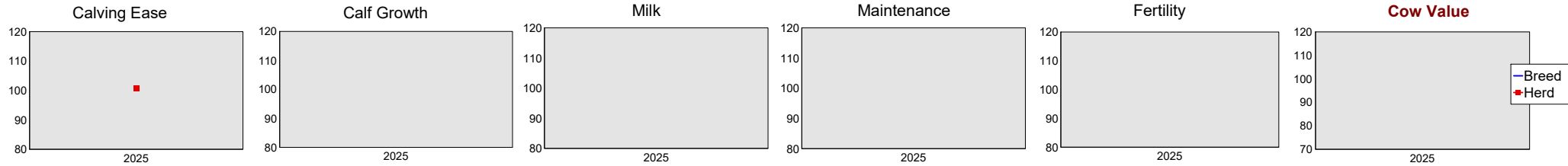


Summary of Cow Herd

			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
2017	1	★★	108	75	76	114	93	73	84	71	111	75	94	76	83	90	83	73	87	100	95	93	69	78
2019	1	★★★★	93	114	101	100	85	99	99	98	94	114	96	101	116	98	111	112	119	89	85	100	116	122
2020	1	★★★★☆	99	107	86	99	107	104	115	109	96	107	105	86	109	100	114	115	112	107	116	87	98	96
2021	1	★★★★☆	114	99	97	105	118	120	90	114	107	99	115	97	101	94	96	92	87	105	123	105	86	91
2022	3	★★★★☆	96	107	102	98	95	101	106	102	91	107	109	102	107	101	104	102	106	95	92	107	102	107
2023	1	★★★☆☆	97	101	93	94	87	83	98	84	95	101	101	93	104	105	94	97	90	82	85	107	94	95
2025	2	★★★★	105	94	91	105	91	90	94	88	105	94	100	91	99	96	98	97	119	97	94	95	90	95
2026	1	★★★☆☆	101	95	95	101	91	88	82	83	103	95	94	95	98	97	81	78	102	92	88	104	85	87
Cows in Herd Average:			102	99	93	102	96	95	96	94	100	99	102	93	102	98	98	100	103	96	97	100	93	96

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.



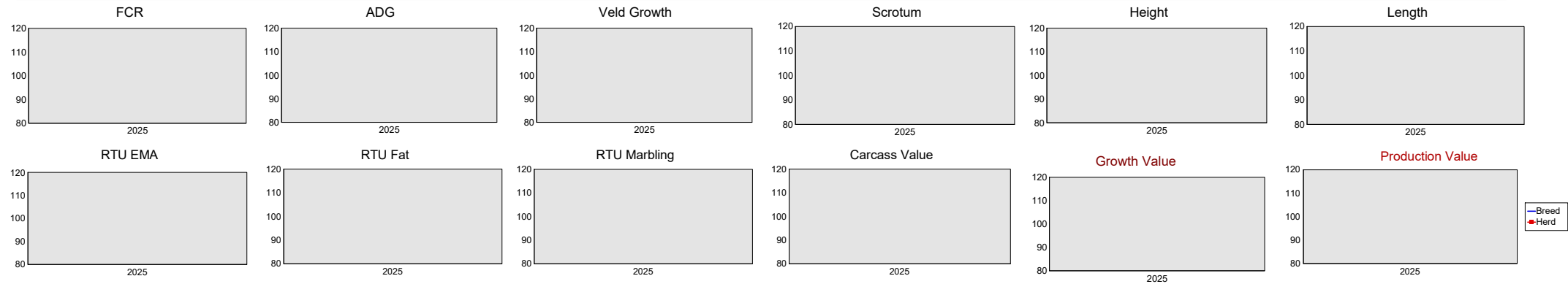
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance					Fertility						Cow Value		
	Birth Weight		Dir EBV	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	EBV				Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number			EBV
2025	3	0.39	-0.23	101																			

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	Milk	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			
2025																												

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	Comp.nr	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	
Birth																																			Wean	Grwth Test
BH 140086 80920564		B 050098 TLM 040022		120 96	74 94	97 93	120 94	115 92	106 85	88 92	101 87	74 92	73 -16 93	126 -1.31 96	141 -4.3 95	83 -8 94	74 -7.3 94	97 -0.2 93	87 -42 94	73 -10.7 92	99 -4 92	80 -36 89	109 -17 91	115 0.87 94	102 3.1 93	112 -8.8 91	116 -3.1 90	102 32.4 94	87 -6 93	99 -0.1 92	51 -3.20 92	61 -3.91 93	94 -0.60 92	48 -0.66 92	60 14	33 17 36
BH 160076 83605402		BH 110019 NBOR090007		97 88	103 86	92 84	118 84	72 85	88 77	96 83	87 79	101 82	89 -3 82	94 0.72 88	92 0.4 86	85 -6 84	103 2.2 86	92 -1.3 84	103 -7 85	102 5.3 82	97 -8 83	95 -13 80	93 15 81	77 -0.75 84	92 -1.9 83	74 15.7 85	69 5.7 82	105 34.6 89	88 -5 83	94 -2.8 82	81 -1.25 82	109 0.80 83	121 1.01 82	83 -0.21 82	10 2	4 2 3
BOS 170045 86753589		VST 130084 BOS 120071		112 93	104 88	81 87	94 86	105 87	102 80	115 86	107 82	106 86	107 13 87	108 -0.16 95	121 -2.4 90	105 12 86	81 2.6 88	85 -4.1 87	85 -45 87	100 3.7 86	111 13 86	102 -3 84	118 -36 84	105 0.43 86	92 -2.0 86	101 -1.4 86	99 0.0 85	108 37.2 90	109 7 86	105 4.0 85	96 -0.25 85	94 -0.66 86	79 -1.50 85	96 -0.05 86	79 5	8 6
E 140054 79644217		B 080097 E 090011		83 87	111 82	107 74	92 78	105 61	102 70	129 76	112 72	94 72	102 8 69	82 1.55 89	92 0.4 83	106 13 78	111 4.9 82	107 2.2 74	110 9 78	112 10.6 62	125 34 74	106 3 13	126 -51 16	76 -0.79 84	108 6.1 81	118 -12.6 61	108 -1.6 39	86 18.9 84	110 8 79	108 5.9 72	81 -1.22 69	67 -3.33 76	56 -2.85 69	78 -0.29 72	30 15	13 8 16
EMD 160023 83889808		FS 090005 EMD 130040		126 76	65 83	89 50	125 48	90 52	84 59	66 74	73 64	80 33	77 -12 44	136 -2.01 83	121 -2.4 64	77 -13 48	65 -10.1 83	89 -2.1 50	75 -67 60	65 -15.1 62	75 -40 72	99 -8 12	71 58 15	100 0.25 82	91 -2.7 79	106 -4.5 53	95 0.8 34	82 15.9 70	60 -22 77	71 -17.5 70	90 -0.64 31	122 2.08 35	102 -0.13 31	93 -0.08 33	19 13	26
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 97	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 11 89	128 -55 89	67 -1.14 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
GB 140001 79177382		CFH 080063 HVT 110027		110 96	104 96	78 92	89 93	79 91	79 85	91 91	78 87	105 91	117 21 92	112 -0.39 97	135 -3.7 95	113 18 93	104 2.5 96	78 -4.6 92	81 -55 94	99 3.4 88	98 -7 91	112 12 86	95 11 87	101 0.27 93	111 7.8 92	88 6.9 90	81 3.5 88	91 23.0 94	109 7 92	115 10.1 91	150 3.29 90	95 -0.60 92	61 -2.52 90	146 0.59 91	94 10	92 24 41
GB 180006 87207403		GB 140001 GB 120010		97 65	112 62	108 55	92 55	66 48	85 52	99 72	86 58	134 70	113 17 52	94 0.72 65	117 -2.0 61	107 13 55	112 5.2 62	108 2.5 55	111 12 57	108 8.3 36	102 -1 71	103 -1 13	89 22 34	122 1.18 81	134 19.2 78	79 12.8 47	56 8.1 29	103 32.9 68	88 -5 76	121 13.4 68	151 3.35 67	120 1.89 74	75 -1.69 67	150 0.64 70	1 4	1
GLB 150008 82237637		FN 040024 FN 120036		89 95	113 95	95 89	83 89	96 87	91 83	127 92	102 86	114 92	125 27 89	88 1.10 97	100 -0.4 92	120 24 89	113 5.5 95	95 -0.6 89	97 -20 91	122 16.1 88	124 32 91	92 -18 84	129 -58 84	84 -0.46 94	149 26.8 93	92 4.5 85	99 0.2 84	103 32.6 91	114 10 93	109 6.1 91	129 1.90 91	98 -0.31 92	63 -2.45 91	127 0.35 92	157 27	91 11 11
HOT 200024 90323627		BU 140016 HOT 150010		106 88	89 85	97 84	113 84	95 84	95 77	67 83	83 79	108 85	95 2 84	89 -0.37 89	91 0.5 86	89 -3 84	89 -2.4 85	97 -0.2 84	95 -25 84	91 -1.0 83	68 -51 83	79 -37 82	58 84 82	95 0.03 88	115 9.3 87	101 -1.5 83	91 1.7 82	101 31.0 86	77 -11 86	79 -12.4 85	114 0.92 84	149 4.68 86	126 1.29 84	120 0.26 85	6 2	
JVG 210026 91881839		JVG 170006 JVG 140058		116 68	93 66	91 54	107 54	107 45	107 53	93 62	103 56	90 34	98 5 51	114 -0.54 71	108 -1.1 62	93 1 54	93 -1.1 66	91 -1.7 54	91 -34 58	90 -1.6 44	98 -7 60	114 15 20	96 8 21	86 -0.36 74	100 2.2 70	107 -5.3 48	104 -0.7 31	105 34.9 55	91 -4 67	89 -6.4 58	94 -0.38 34	101 0.00 35	87 -1.02 34	94 -0.07 34	1 30	
MC 100030 70871496		FN 050035 M 080013		115 87	77 77	89 77	123 77	68 64	73 69	70 76	65 71	84 52	70 -18 72	113 -0.49 88	100 -0.3 83	79 -12 77	77 -6.4 77	89 -2.0 77	84 -49 77	87 -3.1 54	69 -49 75	113 13 20	64 73 18	111 0.70 84	115 9.7 81	76 14.2 63	79 3.8 44	83 16.6 84	49 -28 80	67 -19.9 73	97 -0.15 48	96 -0.48 55	74 -1.75 48	97 -0.04 52	30 12	10 9 32

Growth Tests

Animal					Weight		Conformation				Growth & Efficiency				Carcass				
Test Code	Sex	Test number	Sire ID	Cow Value	Wean dir	End-wt	Length	Height	Length/Height	Scrotum	Intake	ADG	FCR	Growth Value	EMA Eye muscle Area	Fat	Marbling	Dress %	Carcass Value
Test Station		ID	Dam ID																
202302 D21 M		0591067MIX																	
BOTHA		GB 220031 95067963	 GB 180006 GB 190011	101 73	128 81	130 17 84	124 16 83	112 9 85	118 1.14 84	105 4.7 85	78 0.16 79	96 -9 83	82 36 79	97 84	151 3.35 82	106 0.56 84	58 -2.74 83	150 0.64 83	128 83

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	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 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 %
				EBV Acc																																
GB 220031	95067963	2		GB 180006	78	128	110	96	79	101	129	97	100	128	108	73	92	102	128	110	127	125	96	109	82	129	105	82	73	109	112	124	151	106	58	150
				GB 190011	82	81	81	81	80	73	81	84	76	83	13	2.12	0.4	8	10.6	3.0	46	17.9	-9	8	36	1.4	4.7	10.6	5.0	37.6	9	16	3.35	0.56	-2.74	0.64
GB 230134	96651898	1		GB 180006	96	111	103	99	83	97	112	110	100	145	93	89	106	99	111	103	110	113	95	111	83	118	102	82	76	114	94	116	151	149	100	150
				ZA 150017	83	82	81	81	80	73	82	84	76	84	0	1.06	-0.9	6	4.9	1.1	10	11.2	-10	10	34	1.0	3.1	10.9	4.4	41.6	-1	10	3.35	4.68	-0.23	0.64
IYD 250181	99092439	3		HOT 200024	102	99	102	100	96	98	100	92	95	110	98	102	99	98	99	102	102	98	92	94	88	91	116	99	94	103	95	98	107	131	130	111
				IYD 220110	45	39	34	34	33	34	39	30	33	36	5	0.20	-0.3	5	0.8	1.1	-9	2.8	-16	-15	24	-0.2	10.3	-0.5	1.1	32.7	-1	-1	0.49	2.92	1.57	0.15
TJS 250003	6020469034	2		FPL 130041	110	100	107	97	98	105	105	114	109	104	94	108	107	101	100	107	105	101	114	108	110	89	106	92	104	102	106	110	85	110	133	87
				BRO 210050	66	57	51	53	39	49	57	44	48	44	1	-0.14	-1.0	8	1.2	2.1	-2	4.8	18	6	-20	-0.2	5.1	4.2	-0.8	32.1	5	7	-1.00	0.91	1.74	-0.16
TJS 250004	6020469067	2		JVG 210026	107	99	95	102	107	106	99	104	107	92	99	106	103	96	99	95	97	97	106	113	106	84	106	107	110	96	94	92	91	93	81	90
				JVG 200099	60	47	40	44	32	41	48	40	41	27	6	-0.01	-0.7	4	0.9	-0.7	-20	2.4	5	14	-11	-0.5	5.1	-5.3	-1.8	27.4	-1	-4	-0.59	-0.73	-1.36	-0.12

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	Inbreeding	Genomic	Index	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 %
Animal no	%	Parentage	EBV Acc																																
JVG 170058 86304086	1	MC 100030 JVG 140035		108 77	75 66	76 66	114 73	93 50	73 60	67 69	84 50	71 57	84 32	86 -5	111 -0.33	97 0.0	90 -2	75 -6.9	76 -5.2	67 -85	83 -5.2	83 -29	103 -2	73 55	96 0.0	87 -4.5	100 -1.2	95 0.9	93 25.3	69 -16	78 -13	89 -0.68	109 0.83	86 -1.06	91 -0.11
GB 190021 89072854	2	GB 140001 GB 140006		93 78	114 71	101 68	100 70	85 50	99 61	114 72	99 56	98 60	113 56	109 14	94 0.74	93 0.3	98 5	114 5.9	101 0.7	111 11	116 13.0	111 13	104 0	112 -24	64 -1.3	119 11.7	89 6.2	85 2.8	100 30.9	116 11	122 14	129 1.93	99 -0.19	113 0.56	127 0.35
JVG 200099 91394858		E 140054 JVG 170005		99 76	107 65	86 59	99 69	107 45	104 57	100 66	115 50	109 55	93 41	100 6	96 0.63	102 -0.5	100 7	107 3.7	86 -2.7	94 -25	109 9.1	114 17	112 12	115 -29	81 -0.6	112 8.0	107 -5.2	116 -3.0	87 19.9	98 1	96 -2	88 -0.80	86 -1.46	75 -1.71	86 -0.18
BRO 210050 92016641		BH 140086 OA 160039		114 89	99 88	97 87	105 87	118 84	120 78	104 88	90 85	114 80	86 85	87 -4	107 -0.12	113 -1.6	94 1	99 1.1	97 -0.2	100 -13	101 4.7	96 -9	105 1	92 17	110 0.6	87 -4.4	105 -4.1	123 -4.3	105 34.7	86 -7	91 -5	65 -2.28	93 -0.79	105 0.08	66 -0.43
GB 220037 95067955	2	GB 180006 GB 190011		84 47	118 42	103 38	103 39	80 34	97 37	118 42	91 46	93 40	119 46	98 5	77 1.82	95 0.1	96 3	118 7.2	103 1.1	117 23	116 13.1	91 -17	106 4	79 43	124 1.2	103 3.4	80 11.5	77 4.2	109 37.7	98 1	107 5	148 3.15	123 2.18	75 -1.74	148 0.62
IYD 220081 94053873	23	BOS 170045 BOS 190261		105 51	101 42	86 37	99 34	108 36	102 37	95 42	109 30	105 35	103 29	104 10	98 0.48	111 -1.4	100 7	101 1.7	86 -2.7	90 -35	101 4.6	106 6	110 9	112 -24	102 0.3	97 0.6	107 -5.4	102 -0.5	107 36.4	97 0	98 -1	93 -0.47	103 0.26	86 -1.05	94 -0.08
IYD 220110 94382272	2	FPL 130041 BH 200060		100 55	103 50	118 45	91 46	98 44	104 44	109 50	117 40	109 43	111 38	101 7	99 0.42	102 -0.6	107 13	103 2.4	118 4.7	113 15	105 6.5	116 20	109 8	114 -28	86 -0.3	118 11.3	98 0.6	97 0.5	105 34.3	112 9	116 11	101 0.05	111 0.99	135 1.85	102 0.03
IYD 230006 94804713	1	BH 160076 BRO 150135		97 55	101 48	93 44	94 45	87 40	83 42	94 48	98 34	84 40	96 32	104 9	95 0.66	100 -0.4	105 12	101 1.6	93 -1.2	93 -28	104 6.3	94 -12	107 5	97 7	96 0.1	90 -3.0	82 10.4	85 2.8	107 36.0	94 -2	95 -2	89 -0.69	94 -0.66	103 -0.05	89 -0.14
TJS 250002 6020469059	3	EMD 160023 JVG 170058		125 54	70 53	82 41	120 44	91 36	83 42	72 50	75 44	76 43	82 23	82 -9	124 -1.17	108 -1.2	83 -8	70 -8.5	82 -3.6	71 -76	74 -10.2	79 -35	101 -5	72 57	98 0.1	89 -3.6	103 -2.8	95 0.9	88 20.6	65 -19	74 -15	90 -0.66	116 1.45	94 -0.59	92 -0.10
TJS 250005 6020452030	3	GLB 150008 GB 190021		85 66	118 59	99 49	90 51	91 35	96 48	111 58	113 52	100 49	113 50	117 20	85 1.30	94 0.2	109 15	118 7.1	99 0.2	107 2	123 16.8	117 22	98 -9	121 -41	74 -0.9	149 26.8	90 5.3	92 1.5	101 31.7	115 11	115 10	129 1.92	98 -0.25	88 -0.95	127 0.35
TJS 260001 6020452048	2	HOT 200024 IYD 230006		101 45	95 39	95 33	101 34	91 31	88 34	92 38	82 28	83 32	102 34	99 6	103 0.14	96 0.0	97 4	95 -0.4	95 -0.7	94 -27	98 2.7	81 -32	93 -16	78 44	96 0.1	102 3.2	92 4.4	88 2.2	104 33.5	85 -7	87 -7	102 0.12	122 2.09	114 0.62	105 0.06

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	GB 220031	VELLIES	GB 180006	GB 190011	2.3	HH	0	0	0		78 82	128 81	110 81	96 81	79 80	101 73	129 81	97 84	100 76	128 83
											★★★★									
1	GB 230134	VICTOR	GB 180006	ZA 150017	1.4	HH	0	0	0		96 83	111 82	103 81	99 81	83 80	97 73	112 82	110 84	100 76	145 84

Selection List on Cow Value

Cows 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	BRO 210050		BROOKS-MAXINE	BH 140086	OA 160039	0.0	HH	0	0	0		114 89	99 88	97 87	105 87	118 84	120 78	104 88	90 85	114 80	86 85
												★★★★☆									
1	IYD 220081		JACKIE	BOS 170045	BOS 190261	23.5						105 51	101 42	86 37	99 34	108 36	102 37	95 42	109 30	105 35	103 29
2	IYD 220110		MOMA	FPL 130041	BH 200060	2.4						100 55	103 50	118 45	91 46	98 44	104 44	109 50	117 40	109 43	111 38
3	JVG 200099		JVG 200099	E 140054	JVG 170005	0.0						99 76	107 65	86 59	99 69	107 45	104 57	100 66	115 50	109 55	93 41
												★★★									
1	GB 190021		TESSA	GB 140001	GB 140006	2.0						93 78	114 71	101 68	100 70	85 50	99 61	114 72	99 56	98 60	113 56
2	GB 220037		GB 220037	GB 180006	GB 190011	2.3						84 47	118 42	103 38	103 39	80 34	97 37	118 42	91 46	93 40	119 46
												★★★☆									
1	IYD 230006		ZAZA	BH 160076	BRO 150135	1.4						97 55	101 48	93 44	94 45	87 40	83 42	94 48	98 34	84 40	96 32
												★★									
1	JVG 170058		JVG17058	MC 100030	JVG 140035	1.3						108 77	75 66	76 66	114 73	93 50	73 60	67 69	84 50	71 57	84 32

Selection List on Cow Value

Bull calves younger than 2 years

ID Name Sorted on ID		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	TJS 250003	TJS 250003	FPL 130041	BRO 210050	2.5					11066	10057	10751	9753	9839	10549	10557	11444	10948	10444
2	TJS 250004	TJS 250004	JVG 210026	JVG 200099	1.5					10760	9947	9540	10244	10732	10641	9948	10440	10741	9227
										★★★★									
1	IYD 250181	MAX	HOT 200024	IYD 220110	2.6					10245	9939	10234	10034	9633	9834	10039	9230	9533	11036

Selection List on Cow Value

Heifers younger than 2 years

ID Name Sorted on ID		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	TJS 250005	TJS 250005	GLB 150008	GB 190021	3.0					8566	11859	9949	9051	9135	9648	11158	11352	10049	11350
										★★★★☆									
1	TJS 250002	TJS 250002	EMD 160023	JVG 170058	2.8					12554	7053	8241	12044	9136	8342	7250	7544	7643	8223
2	TJS 260001	TJS 260001	HOT 200024	IYD 230006	2.0					10145	9539	9533	10134	9131	8834	9238	8228	8332	10234

