

BONSMARA

GENOMIC BREEDING VALUE REPORT

March 2026



TSHEKAMO BONSMARAS

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EBVs, EBVi's and GEBVs

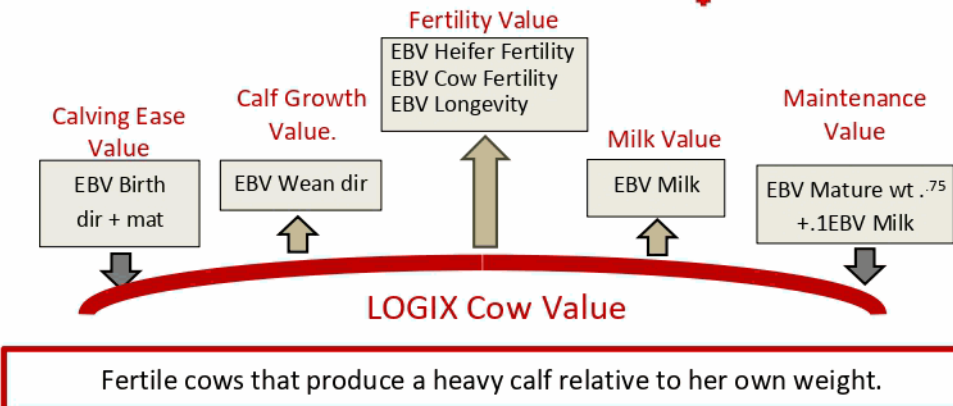
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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.

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.

LOGIX Weaner Calf Value



Select for:

- heavy weaners
- more milk and
- lower birth and
- cow weights

LOGIX Carcass Value



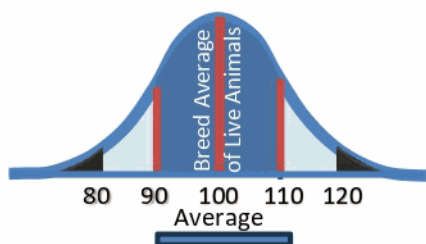
Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

Interpretation of EBVi and Selection Values

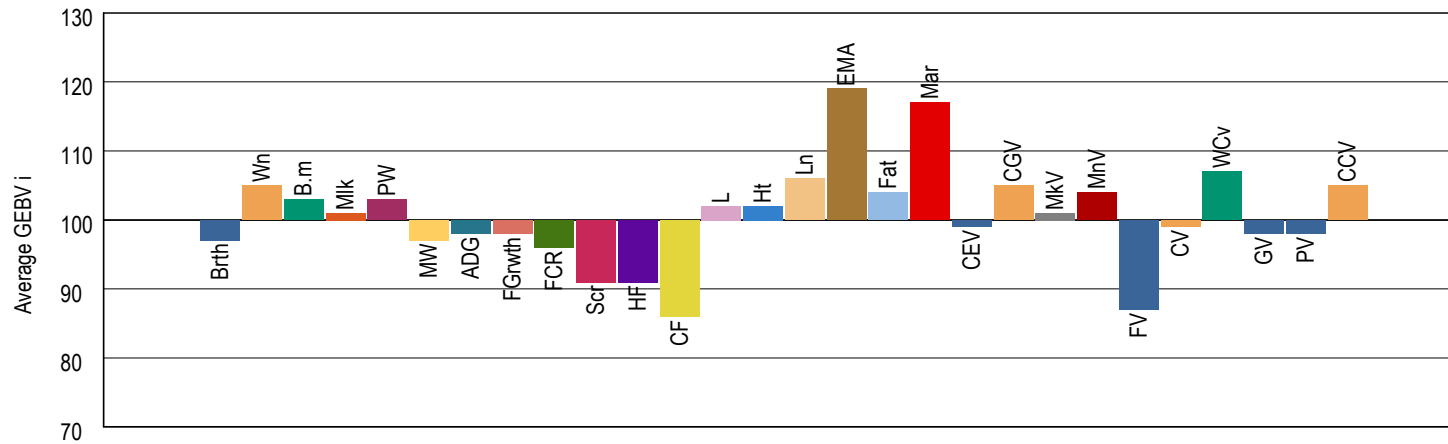


Examples

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

	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 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	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

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
Milk:	Milk	LL:	Longevity
PW:	Post-wean weight	Ht:	Height
MW:	Mature weight	Ln:	Length
ADG:	Average Daily Gain	EMA:	Eye Muscle
FGwth	Veldgrowth	Fat:	Fat
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
WCV:	Weaner Calf Value
GV:	Growth Value
PV:	Production Value
CCV:	Carcass Value

	Trait	EBV Herd	EBVi Herd	EBV Breed
Prewrite Growth	Birth Weight	1.28	97	0.98
	Wean Weight	17.6	105	14.8
	Birth Mat.	-0.45	103	-0.29
	Milk (Wn.Mat.)	4.0	101	3.7
Postwean Growth	Postwean Wt	28	103	25
	Mature Weight	17	97	22
	ADG	69	98	78
	VeldGrowth	32	98	35
	FCR	-29	96	-37
Fertility	Scrotal Circumf.	7	91	13
	Heifer Fertility	-3.8	91	-8.6
	Cow Fertility	2.03	86	-0.39
	Longevity	32.8	102	31.4
Frame	Height	-2.1	102	-3.1
	Length	18.3	106	13.5
Carcass	EMA	2.597	119	0.678
	Fat	0.676	104	0.027
	Marbling	1.370	117	-0.054

Selection Value	Ave. Herd
Calving Ease	99
Calf Growth	105
Milk	101
Maintenance	104
Fertility	87
Cow Value	99
Weaner Calf Value	107
Growth Value	98
Production Value	98
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 2010 and earlier

Total:

130
120
110
100
90
80
70

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

130
120
110
100
90
80
70

Bull calves

Bulls born in 2010

Total:

130
120
110
100
90
80
70

130
120
110
100
90
80
70

Cow Herd

Cows born in 2010 and earlier

Total:

Cows older than 6 years

Cows born in 2010 and earlier

Total:

Heifer calves

Heifers born in 2010

Total:

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	99	100	100	100	100	100	99	100	100	100	100	100	100	100	101	100
2017	17																							
2023	1	★★★★☆	107	103	95	106	93	101	100	100	104	103	109	95	100	93	99	95	103	100	89	101	82	93
Cows in Herd Average:			107	103	95	106	93	101	100	100	104	103	109	95	100	93	99	98	103	100	89	101	82	93

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	Mat	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)	Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.			Longevity		Fertility
	Number	EBV				Number	EBV		Number		EBV	Number	EBV	Number		EBV	Number	EBV	Number		EBV	Number	

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility						Cow Value	
	Birth Weight		Dir	Mat	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity			Fertility
	Number	EBV				Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		
2016	43606	1.05	-0.23	99	35930	13.3	97	35930	2.88	97	25541	22.8	6538	22	102	8135	-6.1	6284	-0.1	45407	22.9	93	91	
2017	45308	1.08	-0.23	99	37527	13.8	98	37527	3.04	98	26127	23.7	6680	22	101	8515	-6.4	6590	0.0	46491	23.8	94	92	
2018	43011	1.06	-0.27	99	35697	13.9	98	35697	3.05	98	24902	23.8	6624	22	102	7920	-6.5	6308	0.0	43688	24.6	95	93	
2019	42998	1.08	-0.29	99	35054	14.5	99	35054	3.04	98	24661	24.7	6807	23	101	8147	-7.0	6585	0.0	43023	25.5	96	95	
2020	43035	1.04	-0.31	100	35806	14.6	100	35806	3.04	98	26174	24.8	7300	23	101	8562	-7.9	6759	-0.2	42430	26.4	98	96	
2021	43163	1.01	-0.32	100	35909	14.9	100	35909	3.07	98	26559	25.6	6341	23	100	8392	-7.9	5347	-0.2	37623	27.2	99	97	
2022	43203	1.00	-0.32	100	36511	15.2	101	36511	3.28	99	26861	26.1	3690	24	100	7783	-8.3	1543	-0.5	4570	27.2	101	99	
2023	44270	0.96	-0.33	100	37059	15.1	101	37059	3.42	99	26399	26.0	188	25	100	2513	-9.2	15	-1.4			103	100	
2024	42709	0.89	-0.31	101	34996	15.2	101	34996	3.50	99	21486	26.4			99	14	-13.1					108	101	
2025	40450	0.90	-0.32	101	11122	15.8	102	11122	3.45	99	1498	27.0			96								102	
2026	3006	0.86	-0.27	101																				

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					
2017	659	-46	106	8459	77	100	16290	29	97	9041	11.6	98	8541	0	104	8457	14	101	3129	0.63	100	-0.37	97	-0.09	100	99	97	93
2018	628	-41	103	8227	79	100	15371	30	98	8717	11.8	98	7978	0	103	7980	14	101	2986	0.84	102	-0.47	97	-0.10	100	100	98	95
2019	628	-44	104	8521	81	101	14833	31	98	8900	12.3	99	8361	-1	102	8364	15	102	3151	1.20	105	-0.38	97	-0.06	100	102	99	96
2020	636	-47	106	8817	82	101	15890	32	98	9374	12.7	100	8824	-2	102	8827	15	101	4040	1.01	103	-0.15	99	-0.13	99	103	99	98
2021	664	-42	104	8962	85	102	16257	33	99	9619	12.9	100	9225	-2	101	9224	15	102	3802	1.10	104	-0.06	99	-0.23	98	104	100	99
2022	728	-46	106	8922	89	103	16326	35	100	9815	13.4	101	9649	-2	101	9652	15	102	4279	1.19	105	0.13	101	-0.03	100	106	102	101
2023	763	-45	105	8756	89	103	15921	35	100	9658	13.8	102	9740	-3	100	9731	15	102	4124	1.29	106	0.20	101	-0.10	100	106	102	103
2024	819	-46	106	7869	92	104	12104	36	100	7980	14.2	103	8227	-3	100	8144	16	102	4349	1.25	106	0.17	101	0.06	101	107	103	104
2025	75	-47	106	513	98	105	952	37	101	461	14.5	103	513	-1	102	514	17	105	249	1.05	104	0.75	105	-0.13	99	111	104	107
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	Weaner 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	Nr measured		
ID																																		Comp.nr	Birth	Wean
AEJ 150185		WVZ 100023	87	108	139	83	99	115	119	110	114	117	115	83	107	117	108	139	129	109	116	112	117	95	99	96	100	101	140	140	115	107	92	78	69	
82387507		AEJ 120020	95	95	91	90	89	85	94	89	86	87	43	2.75	-2.6	46	19.2	15.4	142	32.9	137	65	-64	0.05	12.3	-6.5	-0.4	31.9	28	48.4	2.22	1.18	-0.71	7	6	14
GJN 120203		GJN 080021	102	92	87	131	117	104	94	97	102	96	75	100	88	74	92	87	95	94	98	104	95	115	81	125	104	115	76	94	101	100	128	124	112	
76361880		GJN 100057	97	97	96	96	93	88	97	93	89	94	-10	0.93	0.0	-16	10.6	-0.2	61	19.0	70	46	-29	1.17	1.3	-22.7	-1.0	40.5	-22	8.6	0.79	-0.02	2.31	37	46	139
HP 180303		V 120268	111	87	75	130	99	87	83	81	83	92	78	109	118	76	87	75	75	84	83	89	82	117	102	99	94	108	62	74	145	130	83	248	199	
88408216		HP 120082	92	97	76	65	58	75	88	63	73	90	-6	0.04	-4.0	-13	7.5	-3.8	14	9.6	15	9	-8	1.27	13.7	-8.0	0.7	36.5	-33	-9.3	5.16	4.77	-1.47	68	1	1
ZAK 160034		ZAK 120055	100	108	56	101	65	67	88	93	68	100	96	97	117	100	108	56	70	102	93	84	89	52	73	54	83	103	106	98	127	99	144	102	95	
84733294		ZAK 090080	95	96	89	89	86	85	94	87	85	88	18	1.28	-3.9	22	19.1	-9.7	0	26.4	53	-1	-19	-2.36	-2.9	16.9	2.6	33.0	2	11.9	3.40	-0.17	3.63	39	14	22

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	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 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
GJN 160214 84543461	3		GJN 120203 GJN 140028	108 96	102 96	94 93	133 93	84 90	106 86	113 95	94 93	103 87	98 94	74 -11 93	109 0.00 97	86 0.3 94	72 -19 93	102 16.1 96	94 1.7 93	115 109 94	103 27.5 95	90 43 93	116 74 87	95 -29 92	113 1.1 95	83 2.5 95	100 -8.6 90	72 4.6 88	113 39.3 92	101 -3 95	105 18 93	110 1.72 93	74 -4.09 94	144 3.63 93	
HP 210283 93052389	4		ZAK 160034 HP 150018	79 70	114 72	99 56	88 56	67 42	81 57	105 67	97 40	81 54	108 44	111 38 55	75 3.62 74	94 -0.8 61	113 41 56	114 22.2 72	99 3.4 56	105 85 61	110 33.5 58	99 74 52	77 -19 24	94 -26 26	72 -1.2 57	82 2.0 56	65 11.1 44	81 2.9 28	96 29.2 53	113 7 55	109 22 52	129 3.60 43	107 1.18 46	144 3.63 43	
BTM 220011 93477123	1		AEJ 150185 BTM 180035	103 67	102 59	117 49	90 50	102 36	109 49	107 57	101 34	107 46	108 26	107 33 43	101 0.92 72	110 -2.9 56	109 35 50	102 15.9 59	117 8.7 49	111 99 53	100 24.7 54	102 87 43	97 29 11	99 -35 21	103 0.5 50	96 10.2 49	100 -8.8 37	103 -0.9 21	99 30.8 50	110 5 48	115 27 44	106 1.23 24	113 2.12 27	93 -0.61 25	

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 -birth	Birth wt	Cow-Calf birth	Cow wt -wean	Wean dir	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
HP 230071		HP 180303			107	103	95	106	93	101	104	100	100	106	95	104	106	93	103	95	102	100	99	103	95	111	103	100	89	101	82	93	131	122	87
95154795	1	HP 200252			66	59	43	40	34	47	55	34	44	47	17	0.57	-2.4	11	16.3	2.0	78	24.6	73	43	-28	0.9	14.4	-8.7	1.5	32.0	-17	7	3.83	3.50	-1.16
															37	72	52	40	59	43	47	58	49	31	18	53	53	37	21	45	52	50	46	48	46

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID		Name		Sire ID	Dam ID	Visual Score % Inbreeding	Horned / Polled	Myostatin Q204X nt821 F94L			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
								Italics: DNA Test			Genomic test	★★★★★									
1	BTM 220011	BTM220011		AEJ 150185	BTM 180035	0.9						103 67	102 59	117 49	90 50	102 36	109 49	107 57	101 34	107 46	108 26
2	GJN 160214	GJN160214		GJN 120203	GJN 140028	7 3.0	HH(c)	0	0	0		108 96	102 96	94 93	133 93	84 90	106 86	113 95	94 93	103 87	98 94
											Genomic test	★★★★									
1	HP 210283	HP210283		ZAK 160034	HP 150018	4.0						79 70	114 72	99 56	88 56	67 42	81 57	105 67	97 40	81 54	108 44

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	Visual Score % Inbreeding	Horned / Polled	Myostatin Q204X nt821 F94L			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
						Italics: DNA Test													
										★★★★★									
1	HP 230071 HP230071	HP 180303	HP 200252	1.5						10766	10359	9543	10640	9334	10147	10455	10034	10044	10647

