

BONSMARA

GENOMIC BREEDING VALUE REPORT

September 2026



C MAEMA

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EBVs, EBVi's and GEBVs

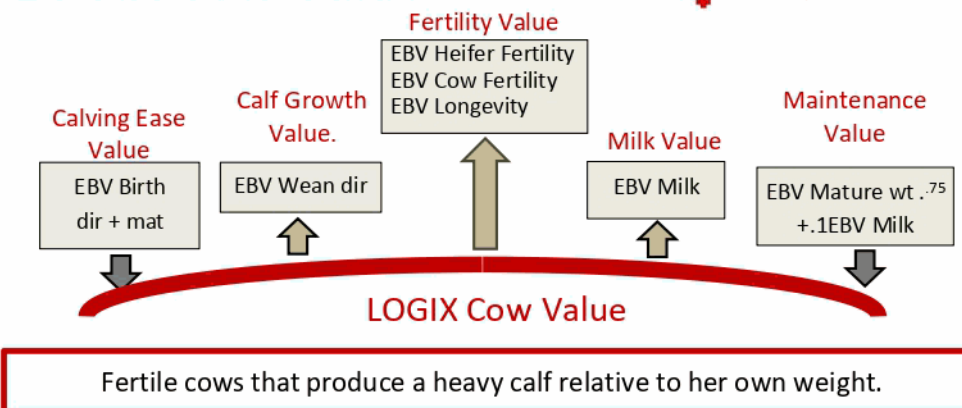
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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



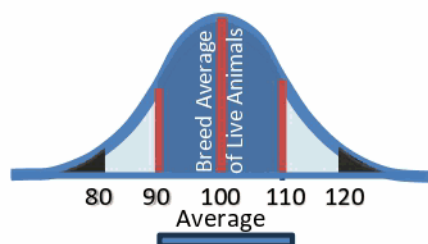
Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

Interpretation of EBVi and Selection Values

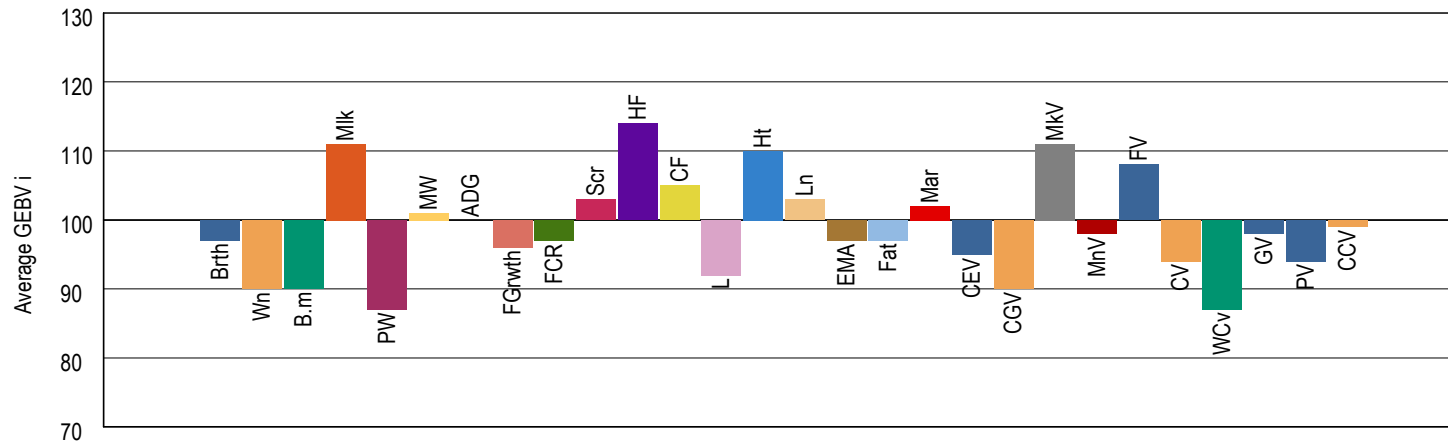


Examples

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
Mlk:	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	1.24	97	0.98
	Wean Weight	9.6	90	14.9
	Birth Mat.	0.21	90	-0.28
	Milk (Wn.Mat.)	7.1	111	3.7
Postwean Growth	Postwean Wt	14	87	25
	Mature Weight	23	101	22
	ADG	78	100	79
	VeldGrowth	26	96	35
	FCR	-32	97	-37
Fertility	Scrotal Circumf.	15	103	13
	Heifer Fertility	-17.0	114	-9.1
	Cow Fertility	-1.41	105	-0.56
	Longevity	26.8	92	31.8
Frame	Height	4.8	110	-3.1
	Length	16.3	103	13.6
Carcass	EMA	0.400	97	0.683
	Fat	-0.402	97	0.055
	Marbling	0.075	102	-0.056

Selection Value	Ave. Herd
Calving Ease	95
Calf Growth	90
Milk	111
Maintenance	98
Fertility	108
Cow Value	94
Weaner Calf Value	87
Growth Value	98
Production Value	94
Carcass Value	99

- 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

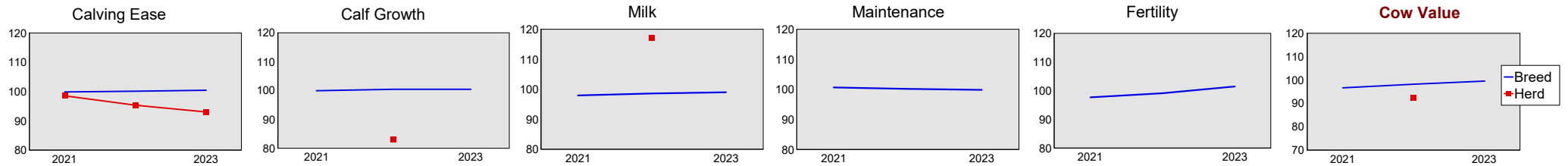
Total:

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	99	100	100	100	100	99	100	100	99	100	100	99	100	100	100	100	100	100	100	101	100
2015	1																							
2017	3																							
2018	5																							
2019	6																							
2020	7																							
2021	12																							
2023	15	★★★★	96	90	107	98	109	93	98	93	98	90	91	107	87	100	98	95	102	113	106	94	108	101
Cows in Herd Average:			96	90	107	98	109	93	98	93	98	90	91	107	87	100	98	97	102	113	106	94	108	101

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.



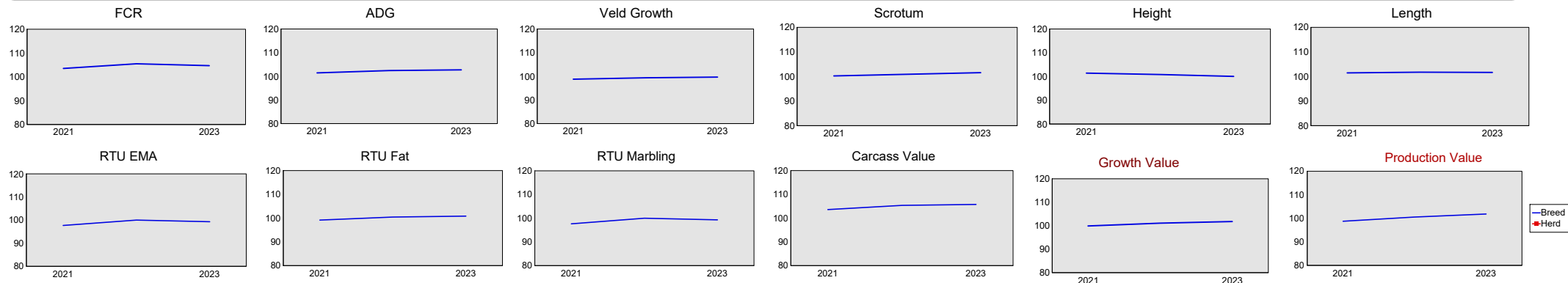
Herd

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		Maine- nance	Heifer Fert.		Cow Fert.		Longevity			Ferti- lity
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV		Number	EBV	Number	EBV	Number	EBV		
2021	18	0.86	0.13	99														12	19.3		
2022	28	0.90	0.59	95	28	5.8	83	28	8.94	117										92	
2023	32	1.49	0.08	93																	

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		Ferti- lity			
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV		Number
2016	43617	1.05	-0.23	99	35930	13.3	97	35930	2.85	97	25541	22.8	6538	22	102	8135	-6.1	6285	-0.1	45540	22.9	92	90	
2017	45336	1.08	-0.23	99	37532	13.8	98	37532	3.03	98	26133	23.7	6680	22	101	8519	-6.4	6592	-0.1	46660	23.8	93	91	
2018	43028	1.06	-0.27	99	35840	13.9	98	35840	3.04	98	24987	23.8	6623	22	102	7937	-6.4	6328	-0.1	44031	24.5	93	92	
2019	43014	1.07	-0.28	99	35189	14.5	99	35189	3.04	98	24710	24.8	6812	23	101	8176	-6.8	6640	-0.1	43352	25.5	95	94	
2020	43065	1.04	-0.30	100	35848	14.6	99	35848	3.04	98	26199	24.9	7381	23	101	8576	-7.8	6880	-0.3	43333	26.4	97	95	
2021	43188	1.01	-0.32	100	35942	14.9	100	35942	3.09	98	26572	25.7	6849	23	101	8460	-7.8	5964	-0.3	40244	27.4	98	97	
2022	43262	0.99	-0.31	100	36541	15.2	100	36541	3.28	99	26872	26.2	5981	24	100	8283	-8.2	2919	-0.6	15061	27.5	99	98	
2023	44407	0.96	-0.32	100	37320	15.2	100	37320	3.39	99	26594	26.3	1929	23	100	4872	-9.2	139	-1.0			102	100	
2024	42942	0.89	-0.31	101	35829	15.3	101	35829	3.50	99	25736	26.4	7	26	100	297	-10.2					104	101	
2025	44477	0.89	-0.31	101	33314	15.6	101	33314	3.60	100	7717	28.2			98								102	
2026	15472	0.86	-0.27	101	1023	13.9	98	1023	4.09	101													99	

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			
2021																												
2022																												
2023																												

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	-45	105	8459	77	99	16297	29	97	9041	11.6	98	8541	0	104	8457	14	101	3129	0.61	99	-0.38	97	-0.09	100	99	97	93	
2018	628	-41	103	8227	78	100	15438	30	97	8717	11.7	98	7978	-1	103	7980	14	101	2986	0.81	101	-0.47	97	-0.11	99	99	98	94	
2019	628	-44	104	8521	81	100	14895	31	98	8900	12.2	99	8361	-1	102	8364	15	101	3151	1.17	105	-0.38	97	-0.07	100	102	99	96	
2020	636	-47	106	8817	82	101	15919	32	98	9374	12.6	100	8824	-2	102	8827	15	101	4040	0.98	103	-0.15	99	-0.14	99	102	99	97	
2021	664	-43	104	8962	85	101	16263	33	99	9619	12.9	100	9225	-2	101	9224	15	101	3802	1.05	104	-0.07	99	-0.26	98	104	100	99	
2022	728	-46	105	8922	88	102	16338	34	99	9812	13.3	101	9649	-2	101	9652	15	102	4279	1.15	105	0.13	100	-0.06	100	105	101	101	
2023	763	-44	105	8756	90	103	16158	35	100	9664	13.7	102	9747	-3	100	9738	15	102	4124	1.23	106	0.19	101	-0.11	99	106	102	102	
2024	819	-45	105	8610	91	103	15494	36	100	9152	14.0	102	9273	-3	100	9184	15	102	4523	1.21	105	0.20	101	0.04	101	107	102	103	
2025	363	-46	106	2908	102	106	4501	36	100	2815	15.1	104	3087	-2	101	3050	17	104	1816	1.24	106	0.47	103	-0.01	101	109	105	106	
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	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	
																																			Birth	Wean
BBM 130021 77223733		EI 040024 BBM 070080		80 98	123 98	90 95	72 94	119 78	109 86	112 97	113 72	110 83	117 71	124 56 94	73 3.77 99	103 -2.0 95	136 75 94	123 27.1 98	90 0.8 95	95 62 96	126 47.8 97	106 101 94	111 63 61	102 -40 47	76 -1.00 97	116 22.5 97	117 -18.9 85	114 -3.1 56	104 34.3 94	114 8 96	103 16.3 94	118 2.51 68	93 -1.11 74	113 1.07 69	275 91	265 56 195
BBM 190366 89725113		BBM 130021 BBM 140095		80 91	116 89	82 87	83 86	113 85	97 81	99 89	111 85	99 82	107 84	111 38 86	79 3.19 92	100 -1.6 88	120 52 86	116 23.5 89	82 -1.9 87	90 49 87	115 38.7 88	101 83 86	97 29 83	103 -41 83	76 -1.03 89	104 15.2 88	104 -11.6 85	116 -3.4 83	104 34.1 86	114 8 88	102 15.3 87	116 2.30 84	100 0.02 84	104 0.29 84	15	
BG 130014 77033579		WAT 100063 BG 100091		84 93	109 95	115 84	99 84	117 67	117 79	111 91	111 54	117 74	116 50	102 27 81	89 2.11 96	78 1.3 87	98 19 84	109 19.9 95	115 8.4 84	123 129 88	105 29.3 91	107 107 80	98 30 43	95 -28 23	119 1.38 89	102 13.7 88	131 -27.0 69	113 -2.8 44	83 21.8 89	114 8 86	106 19.3 81	95 0.21 49	99 -0.09 51	92 -0.71 49	103 18	98 15 39
BG 130018 77016038		BG 080144 CAB 100031		100 89	98 90	91 79	103 78	105 60	95 74	92 86	118 48	99 69	110 36	92 12 75	99 1.12 92	100 -1.5 82	96 16 78	98 13.9 90	91 0.9 79	92 54 82	106 30.2 84	117 145 70	93 19 40	121 -71 20	77 -0.92 83	107 16.7 80	115 -17.6 61	106 -1.6 36	91 26.2 84	118 11 78	116 27.7 72	102 0.87 34	113 2.14 37	112 0.97 35	41 5	39 9 27
HEB 160138 84684901		BG 130014 HEB 130285		83 91	115 89	121 86	90 85	103 84	115 80	119 88	113 84	116 81	115 83	115 44 85	84 2.62 92	92 -0.5 87	109 35 85	115 23.0 89	121 10.0 86	126 135 87	109 33.0 86	119 151 86	84 -3 82	109 -51 82	83 -0.61 89	99 11.9 88	118 -19.3 83	101 -0.7 82	88 24.5 86	134 24 87	122 33.2 86	85 -0.84 83	97 -0.37 83	100 -0.10 83	17	5
HEB 180188 87744108		BG 130018 HEB 120127		93 91	85 91	119 86	103 85	114 84	96 81	84 89	98 84	95 82	92 82	93 14 85	102 0.73 93	72 2.2 88	94 13 85	85 6.7 91	119 9.4 86	105 85 87	92 17.6 86	101 81 85	105 49 82	100 -36 82	83 -0.62 88	119 24.3 87	130 -26.1 83	112 -2.6 82	85 23.0 87	105 1 87	96 10.3 85	104 1.11 82	101 0.17 83	104 0.32 82	33	23

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	Veld	Growth	EMA	Fat	Marbling	Carcass
Test Station		ID	Dam ID	Value	dir	wt			Height					Growth	Value	Eye muscle Area			Value
202001 D11 M			0671160BON																
POGGENPOEL MOLOPO			BBM 190366	97	116	112	102	114	79	104	103	101	103	97	111	116	100	104	107
BONSMARAS			89725113	81	89	87	15	8	1.10	15.2	0.36	83	-41	29	85	2.30	0.02	0.29	84
							87	88	88	88	83	86	83	83		84	84	84	84

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 -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	
				EBV Acc																																Sire ID
HEB 160138	84684901	1	 BG 130014 HEB 130285		83	115	121	90	103	115	119	113	116	115	115	84	92	109	115	121	126	109	119	84	109	83	99	118	101	88	134	122	85	97	100	
					91	89	86	85	84	80	88	84	81	83	44	2.62	-0.5	35	23.0	10.0	135	33.0	151	-3	-51	-0.6	11.9	-19.3	-0.7	24.5	24	33	-0.84	-0.37	-0.10	
															85	92	87	85	89	86	87	86	86	82	82	89	88	83	82	86	87	86	83	83	83	
HEB 180188	87744108	1	 BG 130018 HEB 120127		93	85	119	103	114	96	84	98	95	92	93	102	72	94	85	119	105	92	101	105	100	83	119	130	112	85	105	96	104	101	104	
					91	91	86	85	84	81	89	84	82	82	14	0.73	2.2	13	6.7	9.4	85	17.6	81	49	-36	-0.6	24.3	-26.1	-2.6	23.0	1	10	1.11	0.17	0.32	
															85	93	88	85	91	86	87	86	85	82	82	88	87	83	82	87	87	85	82	83	82	
BBM 190366	89725113	1	 BBM 130021 BBM 140095		80	116	82	83	113	97	99	111	99	107	111	79	100	120	116	82	90	115	101	97	103	76	104	104	116	104	114	102	116	100	104	
					91	89	87	86	85	81	89	85	82	84	38	3.19	-1.6	52	23.5	-1.9	49	38.7	83	29	-41	-1.0	15.2	-11.6	-3.4	34.1	8	15	2.30	0.02	0.29	
															86	92	88	86	89	87	87	88	86	83	83	89	88	85	83	86	88	87	84	84	84	
CMA 210005	95444519		HEB 180188 CMA 181083		105	77	116	103	109	90	77	94	89	92	94	110	89	95	77	116	95	77	96	101	93	91	109	119	105	89	104	98	98	98	102	
					58	42	30	28	24	35	41	20	32	12	15	-0.03	-0.1	14	2.7	8.5	60	4.8	66	38	-25	-0.2	17.9	-19.9	-1.5	25.2	0	12	0.50	-0.32	0.14	
															27	65	42	28	42	30	33	32	29	13	9	37	35	21	14	37	34	30	11	12	11	
CMA 210011	95444535		CMA 190325		103											105														72						
					50											0.48														15.1						
																58														17						
CMA 210012	95433553		HEB 180188 CMA 190771		103	78	116	103	109	90	77	94	89	92	94	109	88	95	78	116	95	78	96	101	93	91	109	119	105	88	104	98	98	98	102	
					58	42	30	28	24	35	41	20	32	12	15	0.07	0.0	14	2.9	8.5	62	5.1	66	38	-25	-0.2	17.9	-19.9	-1.5	24.8	0	12	0.50	-0.32	0.14	
															27	65	42	28	42	30	33	32	29	13	9	37	35	21	14	37	34	30	11	12	11	
CMA 210016	95444501		CMA 190198		93											96															72					
					50											1.44															15.1					
																58															17					
CMA 210022	95444543		CMA 190616		113											112															75					
					51											-0.31															16.7					
																59															17					
CMA 210030	95433546		HEB 160138 CMA 190720		85	98	119	96	104	99	98	101	98	104	105	88	87	102	98	119	113	91	106	90	98	91	98	113	100	89	118	111	88	96	100	
					58	38	30	28	23	33	38	22	31	16	30	2.25	0.1	25	13.8	9.5	104	16.8	100	12	-33	-0.2	11.7	-16.5	-0.5	25.5	12	23	-0.47	-0.59	-0.07	
															28	65	42	28	38	30	32	32	30	13	11	38	36	21	14	35	35	31	15	16	15	
CMA 210060	95433512		HEB 160138 CMA 190002		92	95	118	96	104	99	96	101	99	104	105	94	92	102	95	118	110	89	106	90	98	91	98	113	100	91	118	111	88	96	100	
					40	38	30	28	23	30	36	22	28	16	30	1.64	-0.6	25	12.5	9.1	97	14.8	100	12	-33	-0.2	11.7	-16.5	-0.5	26.7	12	23	-0.47	-0.59	-0.07	
															28	43	33	28	38	30	32	32	30	13	11	38	36	21	14	35	35	31	15	16	15	
CMA 210155	95433538		HEB 160138 CMA 190011		96	94	117	96	105	100	96	101	100	104	105	97	98	102	94	117	108	87	106	90	98	91	98	113	100	92	118	111	88	96	100	
					43	38	30	28	23	31	36	22	29	16	30	1.31	-1.3	25	11.9	8.8	92	13.7	100	12	-33	-0.2	11.7	-16.5	-0.5	27.1	12	23	-0.47	-0.59	-0.07	
															28	45	35	28	38	30	32	32	30	13	11	38	36	21	14	35	35	31	15	16	15	
CMA 220001	95433710		HEB 180188 CMA 190575		91	88	121	97	109	95	87	97	94	99	100	96	83	100	88	121	106	86	100	97	95	92	111	117	105	90	109	104	104	97	103	
					59	60	37	28	25	42	52	20	38	12	23	1.35	0.7	23	8.6	10.1	89	12.2	78	30	-28	-0.1	19.6	-18.6	-1.4	25.8	4	17	1.05	-0.34	0.18	
															27	66	42	28	60	37	42	32	29	13	9	37	35	21	14	39	34	30	11	12	11	

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

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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 -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
				Sire ID	Dam ID																															
CMA 220003	95433736	HEB 180188	CMA 180087			100	67	110	122	111	82	67	89	80	86	80	107	72	81	67	110	87	71	91	106	90	90	104	122	106	89	97	89	92	98	102
						59	60	37	28	25	42	52	20	38	12	-3	0.20	2.1	-6	-2.5	6.8	41	-0.6	46	51	-21	-0.2	15.2	-21.9	-1.6	25.1	-5	4	-0.07	-0.30	0.10
																27	66	42	28	60	37	42	32	29	13	9	37	35	21	14	39	34	30	11	12	11
CMA 220007	95433744	HEB 160138	CMA 190728			81	111	126	84	102	110	113	108	110	118	119	83	93	116	111	126	122	100	113	82	101	93	105	108	99	93	129	125	100	96	101
						61	59	37	28	24	42	51	22	38	16	49	2.72	-0.7	46	20.7	11.8	126	24.6	129	-7	-39	-0.1	15.6	-13.6	-0.4	27.4	20	35	0.66	-0.63	0.01
																28	67	44	28	59	37	41	32	30	13	11	38	36	21	14	38	35	31	15	16	15
CMA 220009	95433751	HEB 160138	CMA 200006			93	88	114	103	105	93	87	100	93	103	97	95	87	94	88	114	104	84	104	92	97	91	97	114	100	92	116	108	87	96	100
						60	59	37	28	24	42	51	22	38	16	19	1.47	0.2	13	8.6	7.9	83	10.5	93	17	-31	-0.2	10.7	-17.3	-0.6	27.2	9	20	-0.58	-0.59	-0.08
																28	66	43	28	59	37	41	32	30	13	11	38	36	21	14	36	35	31	15	16	15
CMA 220018	95433769	HEB 180188	CMA 200003			91	85	119	99	110	92	83	95	91	96	98	97	81	99	85	119	103	84	98	100	94	92	110	118	105	91	106	101	101	98	103
						59	60	37	28	24	42	52	20	38	12	21	1.30	1.0	20	7.1	9.6	82	10.6	71	35	-26	-0.1	18.6	-19.4	-1.5	26.3	2	14	0.78	-0.34	0.16
																27	66	42	28	60	37	42	32	29	13	9	37	35	21	14	38	34	30	11	12	11
CMA 220020	95433686	HEB 180188	CMA 190705			100	83	118	99	110	95	83	95	93	96	97	105	89	98	83	118	101	81	98	100	94	92	110	118	105	91	106	100	101	98	103
						60	60	37	28	25	42	52	20	38	12	20	0.43	-0.1	19	5.8	9.3	75	8.5	70	35	-26	-0.1	18.6	-19.4	-1.5	26.3	2	14	0.78	-0.33	0.16
																27	67	43	28	60	37	42	32	29	13	9	37	35	21	14	39	34	30	11	12	11
CMA 220031	95433702	HEB 180188	CMA 170078			87	112	134	77	105	117	120	105	115	114	125	91	98	125	112	134	123	101	109	88	99	94	120	110	104	88	121	121	116	97	104
						59	60	37	28	25	42	52	20	38	12	57	1.95	-1.4	59	21.1	14.0	128	26.1	113	6	-35	0.0	24.5	-15.0	-1.3	24.7	14	32	2.28	-0.39	0.27
																27	66	42	28	60	37	42	32	29	13	9	37	35	21	14	40	34	30	11	12	11
CMA 220033	95433777	HEB 160138	CMA 200035			84	111	126	83	102	112	116	108	111	117	121	85	98	118	111	126	121	100	113	83	101	93	104	108	99	90	128	124	99	96	101
						58	59	37	28	24	41	51	22	37	16	51	2.52	-1.3	48	21.1	11.7	125	24.7	127	-6	-38	-0.1	15.4	-13.8	-0.4	26.0	19	35	0.60	-0.63	0.01
																28	65	42	28	59	37	41	32	30	13	11	38	36	21	14	36	35	31	15	16	15
CMA 220038	95433785	HEB 180188	CMA 190788			102	75	114	108	111	88	74	92	87	91	89	108	83	90	75	114	94	76	94	103	92	91	107	120	106	90	101	94	97	98	102
						59	60	37	28	25	42	52	20	38	12	9	0.14	0.6	8	1.5	8.1	58	3.7	58	43	-23	-0.2	16.9	-20.7	-1.5	25.8	-2	9	0.35	-0.32	0.13
																27	66	42	28	60	37	42	32	29	13	9	37	35	21	14	39	34	30	11	12	11
CMA 220040	95433678	HEB 180188	CMA 170317			97	85	120	97	108	95	85	95	94	97	99	102	88	100	85	120	103	83	98	99	94	92	110	118	105	88	107	101	102	98	103
						59	60	37	28	25	42	52	20	38	12	22	0.73	0.1	22	7.1	9.7	81	10.1	73	34	-26	-0.1	18.9	-19.2	-1.5	24.7	2	15	0.85	-0.34	0.16
																27	66	42	28	60	37	42	32	29	13	9	37	35	21	14	40	34	30	11	12	11
CMA 220041	95433603	HEB 180188	CMA 170038			118	56	104	131	112	79	58	85	77	79	73	124	82	74	56	104	72	62	87	111	88	89	101	125	106	87	92	81	87	98	101
						60	60	37	28	25	42	52	20	38	12	-14	-1.49	0.8	-17	-8.7	5.0	6	-8.5	31	61	-17	-0.3	13.1	-23.5	-1.7	23.9	-10	-3	-0.61	-0.28	0.06
																27	67	43	28	60	37	42	32	29	13	9	37	35	21	14	40	34	30	11	12	11
CMA 220042	95433637	HEB 180188	CMA 200055			104	66	110	123	112	82	66	88	81	85	80	111	75	81	66	110	85	70	91	107	90	90	104	123	106	91	96	88	92	98	102
						60	60	37	28	24	42	52	20	38	12	-4	-0.22	1.8	-6	-3.5	6.6	36	-1.8	44	53	-20	-0.2	14.9	-22.2	-1.6	26.3	-6	3	-0.16	-0.30	0.09
																27	67	43	28	60	37	42	32	29	13	9	37	35	21	14	38	34	30	11	12	11
CMA 220045	95433645	HEB 180188	CMA 200102			110	66	110	120	111	85	68	89	84	86	82	116	84	83	66	110	85	70	92	106	90	90	104	122	106	89	98	89	93	98	102
						59	60	37	28	24	42	52	20	38	12	-1	-0.69	0.5	-3	-3.0	6.8	36	-1.8	47	50	-21	-0.2	15.4	-21.8	-1.6	25.1	-5	4	-0.04	-0.31	0.10
																27	66	42	28	60	37	42	32	29	13	9	37	35	21	14	38	34	30	11	12	11

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

Value <80

Value >120

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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 -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
				Sire ID	Dam ID																															
CMA 220049		HEB 180188		101	77	115	105	110		89	77	92	88	92		92	106	84	93	77	115	96	78	95	102	92	91	107	120	105	89	102	96	98	98	102
95433819		CMA 180230		59	60	37	28	25		42	52	20	38	12		12	0.32	0.5	11	2.9	8.5	64	5.3	61	41	-24	-0.2	17.2	-20.4	-1.5	25.1	-1	10	0.44	-0.32	0.13
																27	66	42	28	60	37	42	32	29	13	9	37	35	21	14	39	34	30	11	12	11
CMA 220050		HEB 160138		102	90	115	98	104		98	92	100	98	104		102	103	99	100	90	115	104	84	104	91	97	91	97	114	100	90	117	109	88	96	100
95433827		CMA 170400		58	59	37	28	24		41	51	22	37	16		27	0.67	-1.4	21	9.6	8.4	83	11.0	96	15	-32	-0.2	11.1	-17.0	-0.5	25.6	10	21	-0.50	-0.59	-0.08
																28	65	42	28	59	37	41	32	30	13	11	38	36	21	14	38	35	31	15	16	15
CMA 220060		HEB 180188		86	91	122	94	109		96	89	97	95	99		102	92	80	103	91	122	109	88	100	97	95	92	112	117	105	91	109	105	104	97	103
95433660		CMA 200007		60	60	37	28	24		42	52	20	38	12		27	1.80	1.1	27	10.1	10.6	94	14.2	79	29	-28	-0.1	19.8	-18.5	-1.4	26.3	4	18	1.08	-0.35	0.18
																27	67	43	28	60	37	42	32	29	13	9	37	35	21	14	38	34	30	11	12	11
CMA 230001		HEB 180188		101	79	116	103	110		91	78	94	90	92		94	106	88	95	79	116	97	79	96	101	93	91	109	119	105	91	104	98	98	98	102
95411674		CMA 170001		44	42	30	28	24		33	38	20	30	12		15	0.36	0.0	14	3.7	8.5	65	6.0	66	38	-25	-0.2	17.9	-19.9	-1.5	26.2	0	12	0.50	-0.32	0.14
																27	47	36	28	42	30	33	32	29	13	9	37	35	21	14	38	34	30	11	12	11
CMA 230003		BBM 190366		94	95	98	92	108		90	85	100	90	100		103	94	100	108	95	98	89	91	97	97	95	88	101	106	107	96	109	101	104	97	102
96685409		CMA 170304		59	36	32	30	26		34	38	24	32	20		27	1.63	-1.6	33	12.1	3.0	47	16.8	66	28	-28	-0.4	13.3	-12.7	-1.9	29.4	4	14	1.09	-0.40	0.12
																31	65	44	30	36	32	33	34	32	16	13	39	37	25	16	36	36	33	19	20	19
CMA 230004		BBM 190366		95	94	97	92	108		90	84	100	90	100		103	95	101	108	94	97	89	90	97	97	95	88	101	106	107	96	109	101	104	97	102
96685375		CMA 170304		59	36	32	30	26		34	38	24	32	20		27	1.47	-1.7	33	11.8	2.9	46	16.3	66	28	-28	-0.4	13.3	-12.7	-1.9	29.4	4	14	1.09	-0.40	0.12
																31	64	44	30	36	32	33	34	32	16	13	39	37	25	16	36	36	33	19	20	19
CMA 230013		BBM 190366		91	96	98	92	109		90	85	100	91	100		103	92	98	108	96	98	91	92	97	97	95	88	101	106	107	99	109	101	104	97	102
96685367		CMA 180278		57	36	32	30	25		33	38	24	31	20		27	1.86	-1.2	33	12.6	3.1	51	17.5	66	28	-28	-0.4	13.3	-12.7	-1.9	31.2	4	14	1.09	-0.40	0.12
																31	63	43	30	36	32	33	34	32	16	13	39	37	25	16	35	36	33	19	20	19
CMA 230015		BBM 190366		87	97	99	92	109		90	86	100	91	100		103	88	94	108	97	99	93	93	97	97	95	88	101	106	107	99	109	101	104	97	102
96685391		CMA 190860		57	36	32	30	25		33	38	24	31	20		27	2.25	-0.8	33	13.5	3.4	55	18.8	66	28	-28	-0.4	13.3	-12.7	-1.9	31.5	4	14	1.09	-0.40	0.12
																31	63	43	30	36	32	33	34	32	16	13	39	37	25	16	35	36	33	19	20	19
CMA 230016		BBM 190366		90	96	98	92	109		90	85	100	91	100		103	90	97	108	96	98	91	92	97	97	95	88	101	106	107	99	109	101	104	97	102
96685383		CMA 190801		57	36	32	30	25		33	38	24	31	20		27	1.98	-1.1	33	12.9	3.2	52	17.9	66	28	-28	-0.4	13.3	-12.7	-1.9	31.5	4	14	1.09	-0.40	0.12
																31	63	43	30	36	32	33	34	32	16	13	39	37	25	16	35	36	33	19	20	19
CMA 230029		HEB 160138		93	93	110	99	106		95	90	100	95	101		101	95	91	99	93	110	102	87	104	92	97	91	97	114	100	94	116	108	86	96	100
96690318		CMA 180643		43	41	36	28	24		33	39	22	31	16		25	1.45	-0.3	20	11.1	6.7	79	13.0	95	16	-32	-0.2	10.9	-17.1	-0.5	28.4	10	21	-0.72	-0.58	-0.09
																28	45	35	28	41	36	35	32	30	13	11	38	36	21	14	36	35	31	15	16	15
CMA 230030		HEB 160138		93	93	110	99	106		95	90	100	95	101		101	95	91	99	93	110	102	87	104	92	97	91	97	114	100	94	116	108	86	96	100
96690326		CMA 180643		43	41	36	28	24		33	39	22	31	16		25	1.45	-0.3	20	11.1	6.7	79	13.0	95	16	-32	-0.2	10.9	-17.1	-0.5	28.4	10	21	-0.72	-0.58	-0.09
																28	45	35	28	41	36	35	32	30	13	11	38	36	21	14	36	35	31	15	16	15
CMA 230032		HEB 180188		101	81	126	98	110		97	85	95	95	95		98	106	90	99	81	126	106	81	98	99	94	92	110	118	105	91	106	101	100	98	102
96685573		CMA 190001		60	44	36	28	24		37	43	20	34	12		21	0.38	-0.3	20	4.9	11.8	87	7.7	72	34	-26	-0.1	18.8	-19.2	-1.5	26.4	2	15	0.67	-0.33	0.15
																27	66	43	28	44	36	36	32	29	13	9	37	35	21	14	38	34	30	11	12	11

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Animal				Selection Value										Birth			Wean				Growth & Adaptation					Fertility				Frame		Carcass				
ID	Inbreeding	Genomic	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
CMA 230033	96688791	HEB 160138	CMA 200005	101	92	116	96	105	100	94	101	99	104	105	102	100	102	92	116	105	86	106	90	98	91	98	113	100	92	118	111	88	96	100		
CMA 230035	96690300	HEB 180188	CMA 190773	97	80	117	103	110	90	79	94	89	92	94	103	83	95	80	117	98	80	96	101	93	91	109	119	105	91	104	98	98	102			
CMA 230036	96685599	BBM 190366	CMA 200010	76	101	97	93	110	89	87	100	89	98	101	77	85	106	101	97	95	96	96	98	94	87	100	107	107	100	108	100	103	97	102		
CMA 230040	96688809	HEB 160138	CMA 170007	85	99	119	96	103	99	99	101	99	104	105	86	88	102	99	119	113	91	106	90	98	91	98	113	100	88	118	111	88	96	100		
CMA 230045	96686423	BBM 190366	CMA 180748	88	96	99	92	111	90	85	100	91	100	103	90	93	108	96	99	92	92	97	97	95	88	101	106	107	103	109	101	104	97	102		
CMA 230052	96686464	BBM 190366	CMA 190728	77	105	111	87	109	98	97	102	98	105	107	76	90	112	105	111	107	99	99	94	96	88	103	105	107	100	112	105	108	97	102		
CMA 230054	96688825	HEB 160138	CMA 180015	78	100	120	95	106	99	99	102	99	104	105	82	81	102	100	116	93	106	90	98	91	98	113	100	94	119	111	88	96	100			
CMA 230056	96688841	HEB 160138	CMA 200049	82	99	119	96	105	99	98	101	99	104	105	85	85	102	99	115	92	106	90	98	91	98	113	100	92	118	111	88	96	100			
CMA 230057	96686472	CMA 180840		108	76	107								110			76	107									77									
CMA 230060	96686480	BBM 190366	CMA 190011	101	92	96	92	110	91	83	100	91	100	103	101	105	108	92	96	86	88	97	95	88	101	106	107	100	109	101	104	97	102			

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	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
			Sire ID Dam ID																															
CMA 230019 96690284	3	BBM 190366 BBM 200320		86 66	111 51	93 45	88 43	118 34	105 45	100 51	106 34	105 43	110 30	107 33	86 2.40	98 -1.3	114 43	111 20.9	93 1.5	97 66	111 35.2	100 80	96 26	100 -37	77 -1.0	109 18.4	110 -14.6	116 -3.5	110 37.6	114 8	109 21	116 2.28	105 0.81	109 0.72
CMA 230020 96690292		BBM 200330		104 58	87 36	96 31	113 29	107 22	93 33	85 38			73 14	85 3	104 0.51	94 -0.8	87 29	87 36	96 31	91 32	85 11.3	81 6	87 5	92 -23	101 0.4	91 7.6	106 -12.5	121 -4.3	79 19.3	82 -17	78 -6	79 -1.40	93 -1.11	95 -0.44
CMA 230024 96685540		BBM 190366 CMA 190705		92 59	96 39	101 38	91 30	109 26	93 36	88 41	101 24	93 34	101 20	104 29	92 1.80	100 -1.6	109 35	96 13.0	101 4.1	93 57	92 17.9	97 68	96 27	95 -28	88 -0.4	101 13.6	106 -12.5	107 -1.9	100 31.9	109 4	102 15	105 1.19	97 -0.40	102 0.13
CMA 230026 96685557		BBM 190366 CMA 200101		88 58	97 36	99 32	92 30	110 25	90 34	86 38	100 24	91 32	100 20	103 27	89 2.15	95 -0.9	108 33	97 13.2	99 3.3	92 54	93 18.4	97 66	97 28	95 -28	88 -0.4	101 13.3	106 -12.7	107 -1.9	100 32.0	109 4	101 14	104 1.09	97 -0.40	102 0.12
CMA 230027 96685565		HEB 180188 CMA 180016		115 58	73 42	114 30	103 28	111 24	91 35	74 41	94 20	90 32	92 12	94 15	119 -1.01	98 -1.3	95 27	73 0.5	114 7.9	89 47	74 1.7	96 66	101 38	93 -25	91 -0.2	109 17.9	119 -19.9	105 -1.5	93 27.7	104 0	98 12	98 0.50	98 -0.32	102 0.14
CMA 230028 96688775		HEB 160138 CMA 200007		84 59	100 41	125 36	93 28	104 23	103 35	101 41	102 22	102 32	106 16	108 34	87 2.34	88 0.1	105 29	100 14.7	125 11.4	118 116	92 18.0	107 105	89 9	98 -34	92 -0.1	99 12.3	112 -16.1	100 -0.5	92 27.1	120 13	113 25	90 -0.28	96 -0.60	100 -0.06
CMA 230031 96688783		HEB 160138 CMA 200055		90 59	94 41	108 36	100 28	105 23	94 35	90 41	100 22	93 32	101 16	100 24	92 1.83	88 0.1	97 18	94 11.7	108 6.1	103 79	87 13.8	104 93	92 17	97 -31	91 -0.2	97 10.7	114 -17.3	100 -0.6	92 27.1	116 9	107 20	86 -0.69	96 -0.59	100 -0.09
CMA 230034 96685581		HEB 180188 CMA 170018		96 60	82 44	122 36	100 28	108 24	92 37	82 43	94 20	91 34	93 12	96 18	101 0.84	84 0.6	97 17	82 5.2	122 10.4	104 82	81 8.3	97 68	100 36	93 -25	91 -0.2	109 18.3	118 -19.6	105 -1.5	87 23.9	105 1	99 13	99 0.54	98 -0.33	102 0.14
CMA 230041 96688817		HEB 160138 CMA 200050		95 58	94 38	117 30	96 28	105 23	100 33	95 38	101 22	99 31	104 16	105 30	97 1.32	95 -0.9	102 25	94 11.8	117 9.0	108 92	87 13.8	106 100	90 12	98 -33	91 -0.2	98 11.7	113 -16.5	100 -0.5	92 27.1	118 12	111 23	88 -0.47	96 -0.59	100 -0.07
CMA 230042 96686407		HEB 180188 CMA 190733		91 60	81 44	119 36	101 28	110 24	89 37	78 43	94 20	88 34	93 12	95 17	100 1.00	75 1.7	96 16	81 4.8	119 9.6	101 75	81 8.4	97 68	100 37	93 -25	91 -0.2	109 18.2	119 -19.7	105 -1.5	91 26.4	105 1	99 13	98 0.53	98 -0.33	102 0.14
CMA 230044 96686415		BBM 190366 CMA 200052		96 58	94 36	97 32	92 30	110 25	91 34	84 38	100 24	91 32	100 20	103 27	96 1.37	101 -1.8	108 33	94 11.5	97 2.9	88 44	90 16.0	97 66	97 28	95 -28	88 -0.4	101 13.3	106 -12.7	107 -1.9	100 32.0	109 4	101 14	104 1.09	97 -0.40	102 0.12
CMA 230047 96686431		HEB 180188 CMA 170038		107 60	73 44	100 36	112 28	110 24	82 37	68 43	91 20	81 34	88 12	87 5	112 -0.28	87 0.1	88 28	73 0.6	100 3.7	80 25	74 1.7	93 54	104 46	91 -22	91 -0.2	106 16.3	121 -21.1	106 -1.6	87 23.8	100 -3	92 7	94 0.13	98 -0.31	102 0.11

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	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					
			Sire ID Dam ID																																				
CMA 230048 96686449	BBM 190366 CMA 190616																																						
		107	90	95	92	110	91	82	100	91	100	103	105	110	108	90	95	83	87	97	97	95	88	101	106	107	100	109	101	104	97	102							
		59	36	32	30	25	34	38	24	32	20	27	0.43	-2.9	33	9.4	2.3	33	13.0	66	28	-28	-0.4	13.3	-12.7	-1.9	31.9	4	14	1.09	-0.40	0.12							
														31	65	44	30	36	32	33	34	32	16	13	39	37	25	16	35	36	33	19	20	19					
CMA 230049 96686456	HEB 180188 CMA 180013																																						
		93	80	110	106	112	86	75	92	85	90	91	100	76	92	80	110	94	80	95	102	92	91	107	120	105	93	102	96	96	98	102							
		60	44	36	28	24	37	43	20	34	12	11	0.94	1.6	10	4.0	6.9	58	6.8	60	42	-24	-0.2	17.2	-20.4	-1.5	27.7	-1	10	0.27	-0.32	0.12							
														27	66	43	28	44	36	36	32	29	13	9	37	35	21	14	38	34	30	11	12	11					
CMA 230055 96688833	HEB 160138 CMA 200006																																						
		93	93	111	98	105	96	91	101	95	104	102	95	91	99	93	111	104	87	105	91	97	91	98	113	100	92	118	110	88	96	100							
		60	41	36	28	23	36	41	22	33	16	26	1.45	-0.4	21	11.3	7.2	82	13.3	98	14	-32	-0.2	11.4	-16.8	-0.5	27.2	11	22	-0.51	-0.59	-0.08							
														28	66	43	28	41	36	35	32	30	13	11	38	36	21	14	34	35	31	15	16	15					

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															
1	CMA 220007	CMA220007	HEB 160138	CMA 190728	0.0			81	61	111	59	126	37	84	28	102	24	110	42	113	51	108	22	110	38	118	16					
2	CMA 220031	CMA220031	HEB 180188	CMA 170078	0.0			87	59	112	60	134	37	77	28	105	25	117	42	120	52	105	20	115	38	114	12					
3	CMA 220033	CMA220033	HEB 160138	CMA 200035	0.0			84	58	111	59	126	37	83	28	102	24	112	41	116	51	108	22	111	37	117	16					
4	HEB 160138	HEB160138	BG 130014	HEB 130285	7	0.8	HH(c)	0	0	0			83	91	115	89	121	86	90	85	103	84	115	80	119	88	113	84	116	81	115	83
1	CMA 210155	CMA210155	HEB 160138	CMA 190011	0.0			96	43	94	38	117	30	96	28	105	23	100	31	96	36	101	22	100	29	104	16					
2	CMA 230033	CMA 230033	HEB 160138	CMA 200005	0.0			101	58	92	38	116	30	96	28	105	23	100	33	94	38	101	22	99	31	104	16					
1	BBM 190366	BBM190366	BBM 130021	BBM 140095	8	1.4	HH(c)	1	0	0			80	91	116	89	82	87	83	86	113	85	97	81	99	89	111	85	99	82	107	84
2	CMA 210005	CMA210005	HEB 180188	CMA 181083	0.0			105	58	77	42	116	30	103	28	109	24	90	35	77	41	94	20	89	32	92	12					
3	CMA 210012	CMA210012	HEB 180188	CMA 190771	0.0			103	58	78	42	116	30	103	28	109	24	90	35	77	41	94	20	89	32	92	12					
4	CMA 210030	CMA210030	HEB 160138	CMA 190720	0.0			85	58	98	38	119	30	96	28	104	23	99	33	98	38	101	22	98	31	104	16					
5	CMA 210060	CMA210060	HEB 160138	CMA 190002	0.0			92	40	95	38	118	30	96	28	104	23	99	30	96	36	101	22	99	28	104	16					
6	CMA 220001	CMA220001	HEB 180188	CMA 190575	0.0			91	59	88	60	121	37	97	28	109	25	95	42	87	52	97	20	94	38	99	12					
7	CMA 220009	CMA220009	HEB 160138	CMA 200006	0.0			93	60	88	59	114	37	103	28	105	24	93	42	87	51	100	22	93	38	103	16					
8	CMA 220018	CMA220018	HEB 180188	CMA 200003	0.0			91	59	85	60	119	37	99	28	110	24	92	42	83	52	95	20	91	38	96	12					
9	CMA 220020	CMA220020	HEB 180188	CMA 190705	0.0			100	60	83	60	118	37	99	28	110	25	95	42	83	52	95	20	93	38	96	12					
10	CMA 220040	CMA220040	HEB 180188	CMA 170317	0.0			97	59	85	60	120	37	97	28	108	25	95	42	85	52	95	20	94	38	97	12					
11	CMA 220050	CMA220050	HEB 160138	CMA 170400	0.0			102	58	90	59	115	37	98	28	104	24	98	41	92	51	100	22	98	37	104	16					
12	CMA 220060	CMA220060	HEB 180188	CMA 200007	0.0			86	60	91	60	122	37	94	28	109	24	96	42	89	52	97	20	95	38	99	12					
13	CMA 230001	CMA230001	HEB 180188	CMA 170001	0.0			101	44	79	42	116	30	103	28	110	24	91	33	78	38	94	20	90	30	92	12					
14	CMA 230003	CMA 230003	BBM 190366	CMA 170304	0.0			94	59	95	36	98	32	92	30	108	26	90	34	85	38	100	24	90	32	100	20					
15	CMA 230004	CMA 230004	BBM 190366	CMA 170304	0.0			95	59	94	36	97	32	92	30	108	26	90	34	84	38	100	24	90	32	100	20					
16	CMA 230013	CMA 230013	BBM 190366	CMA 180278	0.0			91	57	96	36	98	32	92	30	109	25	90	33	85	38	100	24	91	31	100	20					
17	CMA 230015	CMA 230015	BBM 190366	CMA 190860	0.0			87	57	97	36	99	32	92	30	109	25	90	33	86	38	100	24	91	31	100	20					
18	CMA 230016	CMA 230016	BBM 190366	CMA 190801	0.0			90	57	96	36	98	32	92	30	109	25	90	33	85	38	100	24	91	31	100	20					

Selection List on Cow Value

Bulls 2 years and older

ID	Name	Sire ID	Dam ID	Visual Score	Horned / Polled	Myostatin	Genomic test	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Weaner Calf Value	Growth Value	Prod Value	Carcass Value															
Sorted on ID				% Inbreeding		Q204X	nt821	F94L	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc															
				Italics: DNA Test																												
								★★★★																								
19	CMA 230029	CMA 230029	HEB 160138	CMA 180643	0.0				93	43	93	41	110	36	99	28	106	24	95	33	90	39	100	22	95	31	101	16				
20	CMA 230030	CMA 230030	HEB 160138	CMA 180643	0.0				93	43	93	41	110	36	99	28	106	24	95	33	90	39	100	22	95	31	101	16				
21	CMA 230032	CMA 230032	HEB 180188	CMA 190001	0.0				101	60	81	44	126	36	98	28	110	24	97	37	85	43	95	20	95	34	95	12				
22	CMA 230035	CMA 230035	HEB 180188	CMA 190773	0.0				97	58	80	42	117	30	103	28	110	24	90	35	79	41	94	20	89	32	92	12				
23	CMA 230040	CMA 230040	HEB 160138	CMA 170007	0.0				85	59	99	38	119	30	96	28	103	24	99	34	99	39	101	22	99	32	104	16				
24	CMA 230045	CMA 230045	BBM 190366	CMA 180748	0.0				88	59	96	36	99	32	92	30	111	26	90	34	85	38	100	24	91	32	100	20				
25	CMA 230052	CMA 230052	BBM 190366	CMA 190728	0.0				77	61	105	39	111	38	87	30	109	26	98	36	97	41	102	24	98	34	105	20				
26	CMA 230054	CMA 230054	HEB 160138	CMA 180015	0.0				78	60	100	41	120	36	95	28	106	24	99	36	99	41	102	22	99	33	104	16				
27	CMA 230056	CMA 230056	HEB 160138	CMA 200049	0.0				82	58	99	38	119	30	96	28	105	23	99	33	98	38	101	22	99	31	104	16				
28	CMA 230060	CMA 230060	BBM 190366	CMA 190011	0.0				101	58	92	36	96	32	92	30	110	25	91	34	83	38	100	24	91	32	100	20				
29	HEB 180188	HEB180188	BG 130018	HEB 120127	6	0.7	Pp(c)	0	0	0	6		93	91	85	91	119	86	103	85	114	84	96	81	84	89	98	84	95	82	92	82
								★★★★☆																								
1	CMA 220003	CMA220003	HEB 180188	CMA 180087	0.0				100	59	67	60	110	37	122	28	111	25	82	42	67	52	89	20	80	38	86	12				
2	CMA 220038	CMA220038	HEB 180188	CMA 190788	0.0				102	59	75	60	114	37	108	28	111	25	88	42	74	52	92	20	87	38	91	12				
3	CMA 220042	CMA220042	HEB 180188	CMA 200055	0.0				104	60	66	60	110	37	123	28	112	24	82	42	66	52	88	20	81	38	85	12				
4	CMA 220045	CMA220045	HEB 180188	CMA 200102	0.0				110	59	66	60	110	37	120	28	111	24	85	42	68	52	89	20	84	38	86	12				
5	CMA 220049	CMA220049	HEB 180188	CMA 180230	0.0				101	59	77	60	115	37	105	28	110	25	89	42	77	52	92	20	88	38	92	12				
6	CMA 230036	CMA 230036	BBM 190366	CMA 200010	0.0				76	59	101	39	97	38	93	30	110	25	89	36	87	41	100	24	89	34	98	20				
								★★★																								
1	CMA 220041	CMA220041	HEB 180188	CMA 170038	0.0				118	60	56	60	104	37	131	28	112	25	79	42	58	52	85	20	77	38	79	12				

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	Visual Score	Horned / Polled	Myostatin	Genomic test	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Weaner Calf Value	Growth Value	Prod Value	Carcass Value										
Sorted on ID				% Inbreeding		Q204X nt821 F94L		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
								★★★★☆																			
1	CMA 230019	CMA 230019	BBM 190366	BBM 200320	2.9			86	66	111	51	93	45	88	43	118	34	105	45	100	51	106	34	105	43	110	30
2	CMA 230028	CMA 230028	HEB 160138	CMA 200007	0.0			84	59	100	41	125	36	93	28	104	23	103	35	101	41	102	22	102	32	106	16
3	CMA 230041	CMA 230041	HEB 160138	CMA 200050	0.0			95	58	94	38	117	30	96	28	105	23	100	33	95	38	101	22	99	31	104	16
								★★★★																			
1	CMA 230020	CMA 230020		BBM 200330	0.0			104	58	87	36	96	31	113	29	107	22	93	33	85	38					73	14
2	CMA 230024	CMA 230024	BBM 190366	CMA 190705	0.0			92	59	96	39	101	38	91	30	109	26	93	36	88	41	101	24	93	34	101	20
3	CMA 230026	CMA 230026	BBM 190366	CMA 200101	0.0			88	58	97	36	99	32	92	30	110	25	90	34	86	38	100	24	91	32	100	20
4	CMA 230027	CMA 230027	HEB 180188	CMA 180016	0.0			115	58	73	42	114	30	103	28	111	24	91	35	74	41	94	20	90	32	92	12
5	CMA 230031	CMA 230031	HEB 160138	CMA 200055	0.0			90	59	94	41	108	36	100	28	105	23	94	35	90	41	100	22	93	32	101	16
6	CMA 230034	CMA 230034	HEB 180188	CMA 170018	0.0			96	60	82	44	122	36	100	28	108	24	92	37	82	43	94	20	91	34	93	12
7	CMA 230044	CMA 230044	BBM 190366	CMA 200052	0.0			96	58	94	36	97	32	92	30	110	25	91	34	84	38	100	24	91	32	100	20
8	CMA 230048	CMA 230048	BBM 190366	CMA 190616	0.0			107	59	90	36	95	32	92	30	110	25	91	34	82	38	100	24	91	32	100	20
9	CMA 230055	CMA 230055	HEB 160138	CMA 200006	0.0			93	60	93	41	111	36	98	28	105	23	96	36	91	41	101	22	95	33	104	16
								★★★★☆																			
1	CMA 230042	CMA 230042	HEB 180188	CMA 190733	0.0			91	60	81	44	119	36	101	28	110	24	89	37	78	43	94	20	88	34	93	12
2	CMA 230047	CMA 230047	HEB 180188	CMA 170038	0.0			107	60	73	44	100	36	112	28	110	24	82	37	68	43	91	20	81	34	88	12
3	CMA 230049	CMA 230049	HEB 180188	CMA 180013	0.0			93	60	80	44	110	36	106	28	112	24	86	37	75	43	92	20	85	34	90	12

