

BONSMARA

GENOMIC BREEDING VALUE REPORT

May 2026



KL LEKUTLE

Herd Number: 703196

E-mail: lekutlek@icloud.com



EBVs, EBVi's and GEBVs

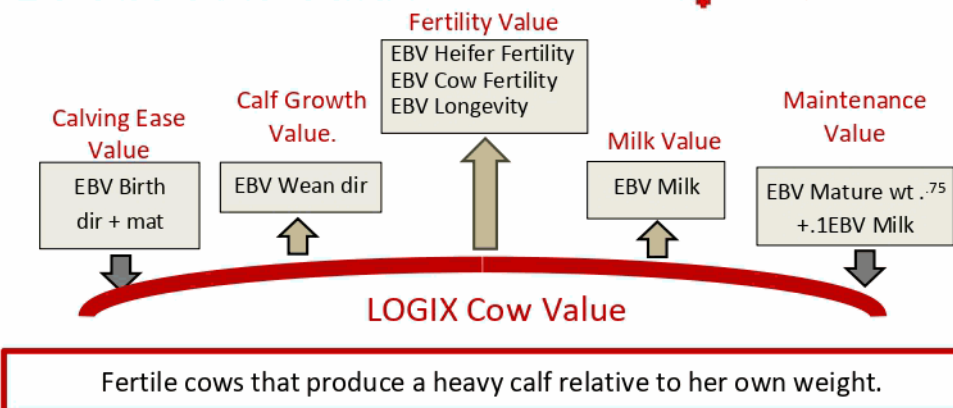
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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



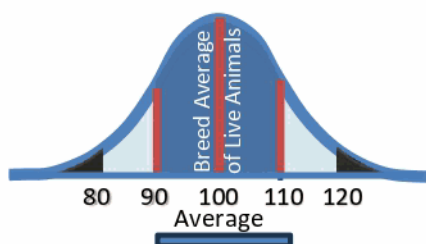
Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

Interpretation of EBVi and Selection Values

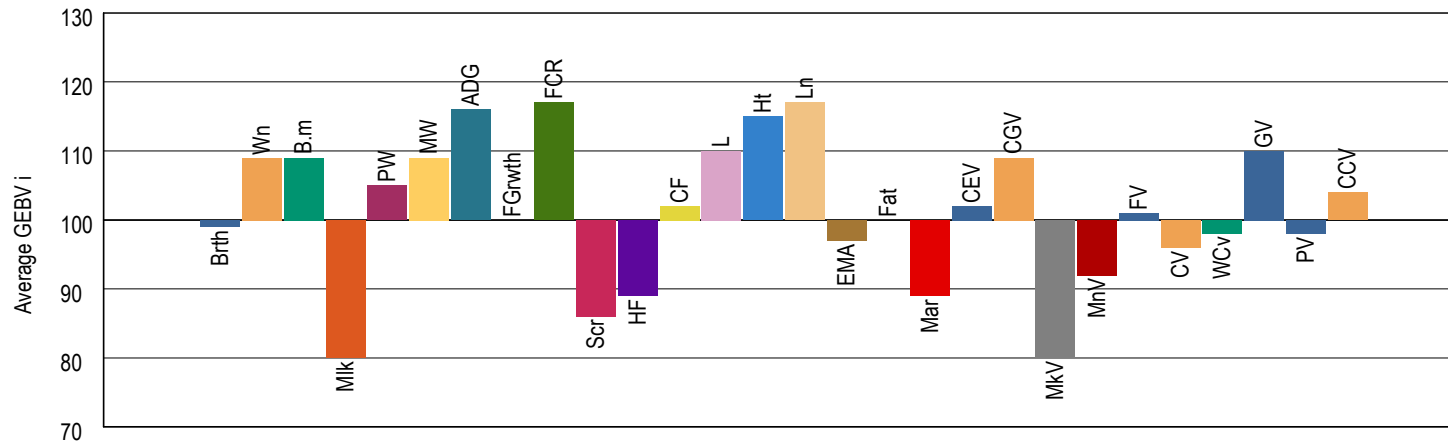


Examples

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	1.10	99	0.99
	Wean Weight	19.6	109	14.9
	Birth Mat.	-0.69	109	-0.29
	Milk (Wn.Mat.)	-2.6	80	3.6
Postwean Growth	Postwean Wt	30	105	25
	Mature Weight	36	109	22
	ADG	137	116	79
	VeldGrowth	35	100	35
	FCR	-65	117	-37
Fertility	Scrotal Circumf.	4	86	13
	Heifer Fertility	-2.3	89	-8.6
	Cow Fertility	-0.82	102	-0.42
	Longevity	37.9	110	31.5
Frame	Height	8.5	115	-3.0
	Length	28.6	117	13.5
Carcass	EMA	0.348	97	0.694
	Fat	0.070	100	0.030
	Marbling	-0.981	89	-0.058

Selection Value	Ave. Herd
Calving Ease	102
Calf Growth	109
Milk	80
Maintenance	92
Fertility	101
Cow Value	96
Weaner Calf Value	98
Growth Value	110
Production Value	98
Carcass Value	104

- 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 2015 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 2015

Total:

130
120
110
100
90
80
70

130
120
110
100
90
80
70

Cow Herd

Cows born in 2015 and earlier

Total:

Cows older than 6 years

Cows born in 2015 and earlier

Total:

Heifer calves

Heifers born in 2015

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
2014	1																							
2015	7																							
2016	5																							
2017	11																							
2018	4																							
2019	5																							
2020	2																							
2021	6																							

Cows in Herd Average:

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

Breed

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance				Fertility						Cow Value				
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility			
	Number	Dir EBV			Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number			EBV	Number	EBV
2016	43606	1.05	-0.23	99	35930	13.3	97	35930	2.86	97	25541	22.8	6538	22	102	8135	-6.0	6284	-0.1	45458	22.9	93	90	
2017	45308	1.08	-0.23	99	37522	13.8	98	37522	3.02	98	26127	23.8	6680	22	102	8515	-6.3	6589	0.0	46562	23.9	94	92	
2018	43012	1.06	-0.27	99	35695	13.9	98	35695	3.03	98	24902	23.9	6623	22	102	7919	-6.5	6309	0.0	43748	24.6	94	93	
2019	42998	1.07	-0.29	99	35053	14.5	99	35053	3.02	98	24660	24.7	6806	23	101	8149	-6.9	6597	-0.1	43104	25.5	96	95	
2020	43035	1.04	-0.31	100	35806	14.6	99	35806	3.03	98	26174	24.8	7316	23	101	8559	-7.8	6810	-0.2	42711	26.5	98	96	
2021	43165	1.01	-0.32	100	35908	14.9	100	35908	3.06	98	26558	25.6	6421	23	101	8417	-7.8	5586	-0.2	38423	27.3	99	97	
2022	43208	1.00	-0.32	100	36511	15.2	101	36511	3.27	99	26861	26.1	4406	24	100	7981	-8.2	1897	-0.5	7967	27.5	100	99	
2023	44297	0.97	-0.33	101	37100	15.2	101	37100	3.37	99	26446	26.0	531	23	100	3124	-9.3	46	-1.2			103	100	
2024	42759	0.89	-0.32	101	35158	15.3	101	35158	3.44	99	23301	26.5	2	16	100	67	-9.6					104	101	
2025	41905	0.90	-0.32	101	16072	15.8	102	16072	3.49	100	3351	28.0			97									102
2026	6218	0.89	-0.29	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	105	8459	77	100	16292	29	97	9041	11.6	98	8541	0	104	8457	14	101	3129	0.63	99	-0.38	97	-0.09	100	99	97	93
2018	628	-42	103	8227	79	100	15371	30	98	8717	11.7	98	7978	0	103	7980	14	101	2986	0.83	101	-0.48	97	-0.10	100	100	98	95
2019	628	-44	104	8521	81	101	14838	31	98	8900	12.2	99	8361	-1	102	8364	15	101	3151	1.19	105	-0.40	97	-0.06	100	102	99	96
2020	636	-47	106	8817	82	101	15893	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	-43	104	8962	85	102	16258	33	99	9619	12.9	100	9225	-2	101	9224	15	102	3802	1.09	104	-0.07	99	-0.24	98	104	100	99
2022	728	-46	106	8922	89	103	16327	34	99	9815	13.4	101	9649	-2	101	9652	15	102	4279	1.18	105	0.12	101	-0.04	100	106	101	101
2023	763	-45	105	8756	89	103	15967	35	100	9658	13.8	102	9740	-3	100	9731	15	102	4124	1.28	106	0.19	101	-0.11	99	106	102	102
2024	819	-46	106	8088	92	104	13775	36	100	8311	14.1	102	8549	-3	100	8466	15	102	4370	1.25	106	0.17	101	0.05	101	107	103	104
2025	130	-50	108	1088	100	106	2185	37	100	1011	15.1	104	1088	-2	101	1089	17	104	510	1.26	106	0.91	106	0.00	101	110	105	107
2026																												

Sires

Bull				Selection Values								Birth			Wean				Grwth & Adaptation					Fertility				Raam		Carcass			Progeny						
Index EBV Acc	ID	Comp.nr	Genomic	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk Value	Maint. V	Fertility V	Cow Value	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
BF	160231		VV	120478	102	121	64	103	119	115	109	114	115	113	96	101	100	98	121	64	90	114	111	97	113	94	89	110	118	107	102	106	93	104	86	98	96		
87102448			ALF	120125	95	96	89	88	86	84	94	88	85	83	18	0.84	-1.6	18	26.1	-7.4	48	37.2	118	28	-58	-0.03	6.4	-13.9	-3.5	35.9	-1	19.1	0.04	0.72	-1.21	35	13	15	
															88	97	91	88	96	89	91	93	91	87	82	95	94	86	82	90	94	92	83	83	83				

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			Value
																	Area			
202101 D11 M		0694671BON																		
BUCKRIDGE BONSMARAS		BF 200239	BF 160231	96	109	110		117	115	100	86	95	116	117	100	110	97	100	89	104
		91647537	BF 170014	56	73	66		29	8	1.15	4.4	0.50	137	-65	35	40	0.35	0.07	-0.98	
								62	69	66	72	15	60	15	37		18	19	18	18

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	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
BF 200239		BF 160231					102	109	80	92	101	96	98	110	98	104	111	99	110	109	109	80	87	105	116	100	117	106	86	89	102	110	115	117	97	100	89
91647537	1	BF 170014					71	73	58	53	38	56	67	40	53	18	39	1.10	-2.9	36	19.6	-2.6	41	29.7	137	35	-65	0.7	4.4	-2.3	-0.8	37.9	8	29	0.35	0.07	-0.98
																	52	76	61	53	73	58	61	66	60	37	15	76	72	42	20	53	69	62	18	19	18

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 Thickn	Scrotum	Heifer Fert	Cow Fert.	Longevity	Height	Length	EMA	Fat	Marbling	

Selection List on Cow Value

Bulls 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	BF 200239 BF200239	BF 160231	BF 170014	6 0.6		0	0	0		102 71	109 73	80 58	92 53	101 38	96 56	98 67	110 40	98 53	104 18

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	Visual Score % Inbreeding	Horned / Polled	Myostatin			Genomic test	Calving	Calf	Milk	Maint.	Fertility	Cow	Weaner	Growth	Prod	Carcass
						Q204X	nt821	F94L		Ease	Growth	Value	Value	Value	Value	Value	Value	Value	
						Value	Value	Value		Value	Value	Value	Value	Value	Value	Value	Value	Value	
Sorted on ID						Italics: DNA Test			Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc

