

SUSSEX

BREEDING VALUE REPORT

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EBVs, EBVi's and Selection Values



Logix Cow Value

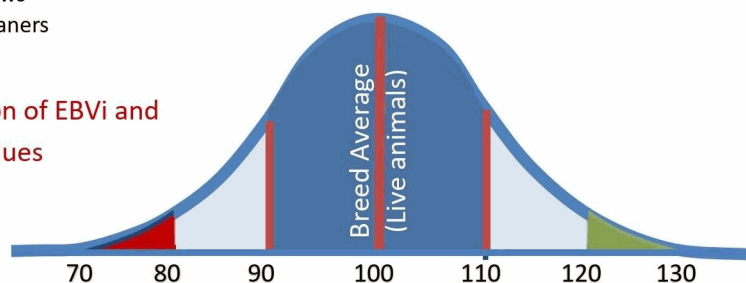
Selecting for:

- fertile,
- low maintenance,
- easy calving cows
- with heavy weaners

EBVi (EBVindex): The average EBVi of all the live animals in the breed is 100, and all EBVi values are expressed relative to this value. Values above 100 are always in a more desirable direction. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values may be better.

EBV (Estimated Breeding Value) indicates the genetic potential of the animal for a specific trait. It is presented in the unit of measurement and relative to the average of animals born in the base year (1990 for most traits).

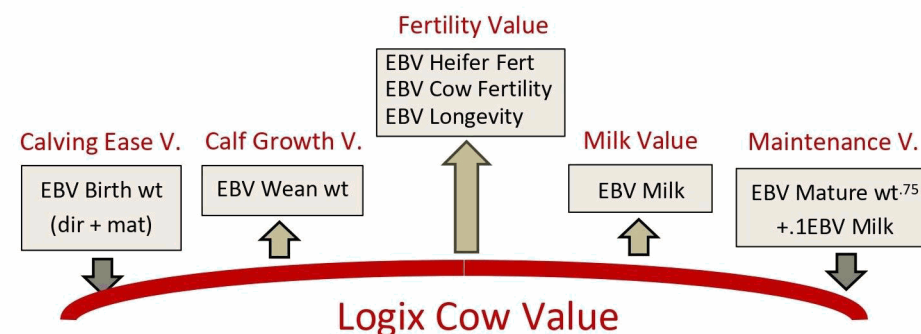
Interpretation of EBVi and Selection Values



Logix Cow Value	Calving Ease Value	• Heavier birth weight	90 – 110: = 50% of population = Average = Save choice	• Lower birth weight
	Calf Growth Value	• Lower weaning wght		• Higher weaning wght
	Milk Value	• Less milk		• More milk
	Maintenance Value	• Higher maintenance (Heavier cow)		• Lower maintenance (Lighter cow)
	Fertility Value	• Lower fertility		• Higher fertility
	Cow Value	• Lower Cow Value		• Higher Cow Value

Selection values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, HF (Heifer Fertility), CF (Cow Fertility) and Longevity are combined to form the Fertility Value by taking the heritability and economic importance in consideration. The sub-value is expressed in an index format, thus an animal with a sub-value of 110 for Fertility will genetically be above average compared to the live animals in the breed.

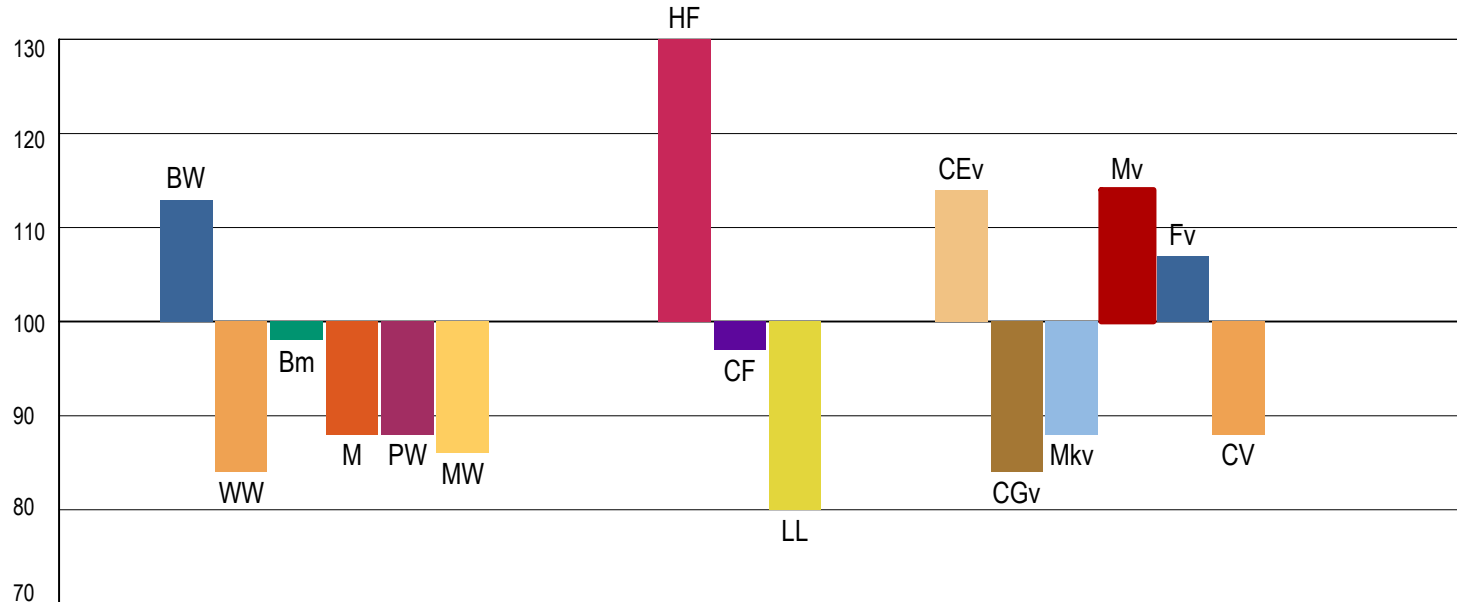
Cow Value combine relative selection values into a single value. This gives a quick and easy indication of the combined genetic value of an animal compared to the breed. It is advised to still look at the sub-values to see where the strengths and weaknesses lie.



The Logix Cow Value identifies fertile, genetically balanced animals. Balanced animals breed heavy weaners relative to cow weight.

	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 18mth 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



Breeding Value (EBV) and Breeding Value Index (EBVi):

BW	Birth Weight
WW	Weaning Weight
Bm	Birth maternal
M	Milk
PW	Post-Wean Weight
MW	Mature Weight
ADG	Average Daily Gain
FCR	Feed Conversion Ratio
S	Scrotal Circumference
HF	Heifer Fertility
CF	Cow Fertility
LL	Longevity
H	Height
L	Length

Selection Values

CEv	Calving Ease Value
CGv	Calf Growth Value
Mkv	Milk Value
Mv	Maintenance Value
Fv	Fertility Value
CV	Cow Value
GV	Growth Value
PV	Production Value

	Trait	EBV Herd	EBV Index	EBV Breed
Prewrite Growth	Birth Weight	0.01	113	1.18
	Wean Weight	7.7	84	15.6
	Birth Mat.	0.51	98	0.42
	Milk (Wn.Mat.)	2.3	88	6.0
Postwean Growth	Postwean Wt	19.9	88	30.1
	Mature Weight	11	86	26
	ADG			110
	FCR			-84
Fertility	Scrotal Circumf.			13.5
	Heifer Fertility	-31.2	134	-1.6
	Cow Fertility	-4.8	97	-5.6
	Longevity	10.5	80	24.3
Frame	Height			19
	Length			31
Carcass	Dressing%			-0.07
	RedMeatYield			0.3
	Marbling			-0.63

Selection Value	Ave. Herd
Calving Ease	114
Calf Growth	84
Milk	88
Maintenance	114
Fertility	107
Cow Value	88
Growth Value	
Production Value	

- 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

Genetic Window

Bulls on Farm

Bulls born in and earlier

Number:

130
120
110
100
90
80
70

130
120
110
100
90
80
70

Cow Herd

Cows born in and earlier

Number:

Abbreviations

- BW Birth Weight
- WW Weaning Weight
- Bm Birth mat
- M Milk
- PW Post-wean Weight
- MW Mature Weight
- ADG Avg. Daily Gain

- FCR Feed Conv. Ratio
- S Scrotal Circumf.
- HF Heifer Fertility
- CF Cow Fertility
- LL Longevity
- H Height
- L Length

- CEv Calving Ease Value
- CGv Calf Growth Value
- Mkv Milk Value
- Mv Maintenance Value
- Fv Fertility Value

- CV Cow Value
- GV Growth Value
- PV Production Value

Sires of young animals

Sires of animals 3 years and younger

Number:

130
120
110
100
90
80
70

130
120
110
100
90
80
70

Cows older than 6 years

Cows born in and earlier

Number:

Bull Calves

Bull calves born in

Number:

130
120
110
100
90
80
70

130
120
110
100
90
80
70

Heifers

Heifers born in

Number:

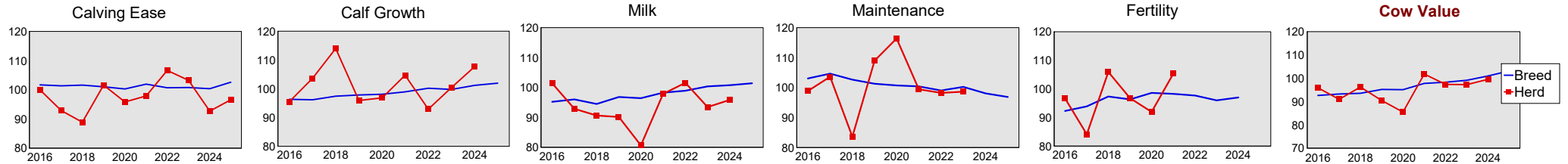
Summary of Cow Herd

			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:																					

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.



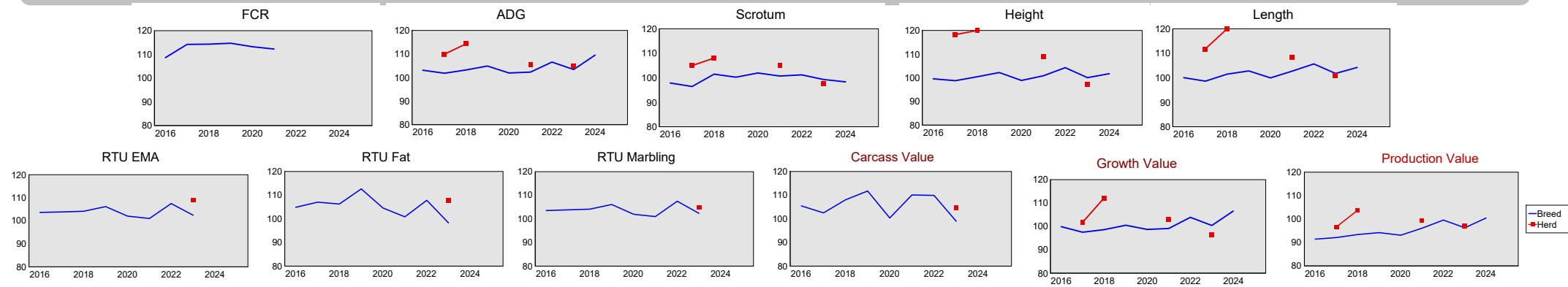
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility								Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity			
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	
2017	60	1.84	0.33	93	37	17.4	104	37	3.80	93	26	31.5	10	21	104	14	10.5	11	-2.8	53	19.3	84	91		
2018	50	2.19	0.15	89	39	22.5	114	39	3.08	91	17	40.1	10	42	84	11	-0.1	10	-7.3	44	21.5	106	96		
2019	42	1.10	0.04	102	16	13.7	96	16	2.95	90			10	16	109	12	-1.1	9	-5.5	39	21.7	97	90		
2020	12	1.64	0.01	96	7	14.1	97	7	-0.03	81	3	30.7	2	10	116	2	-8.6	2	-3.0	11	20.7	92	86		
2021	40	1.42	0.23	98	35	17.9	105	35	5.37	98	25	34.1	14	27	99	17	-1.1	10	-7.1	27	26.5	105	102		
2022	33	0.65	0.28	107	32	12.1	93	32	6.55	102	25	26.3			98								97		
2023	37	1.00	0.06	103	36	15.9	100	36	3.99	93	22	31.3			99								97		
2024	50	1.76	0.39	93	30	19.4	108	30	4.76	96													100		
2025	5	1.47	0.49	97																					

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	
2017	2160	1.05	0.42	101	1494	13.7	96	1494	4.78	96	1143	26.8	225	21	105	571	1.4	413	-4.3	2181	18.1	94	93
2018	2145	1.03	0.34	102	1431	14.3	97	1431	4.30	94	1018	28.2	227	23	103	504	0.0	381	-5.3	2120	17.5	97	94
2019	2032	1.09	0.35	101	1347	14.6	98	1347	5.04	97	967	28.6	164	25	101	498	0.6	340	-5.0	2055	19.1	96	95
2020	2209	1.14	0.42	100	1596	14.7	98	1596	4.92	96	1107	28.2	226	27	101	575	-1.2	394	-5.3	2198	18.7	99	95
2021	2342	1.01	0.39	102	1733	15.1	99	1733	5.49	98	1384	29.4	198	27	100	685	-0.2	357	-5.5	2005	19.0	98	98
2022	2138	1.13	0.38	101	1549	15.7	100	1549	5.69	99	1124	30.8	65	23	99	405	3.0	16	-6.4	169	19.8	98	98
2023	2134	1.09	0.47	101	1634	15.5	100	1634	6.16	100	1198	29.9	3	35	100	63	1.3	1	-8.0			96	99
2024	2166	1.12	0.45	100	1394	16.2	101	1393	6.28	101	729	32.3			98	1	-7.3					97	101
2025	1823	0.91	0.49	103	296	16.6	102	296	6.48	101	49	35.5			97								103
2026	78	1.14	0.76	99																			

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			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	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			
2017				6	164	110	6	15.8	105	6	32	118	6	46	112									102	97
2018				6	188	114	6	17.2	108	6	38	127	6	59	122									112	104
2019																									
2020																									
2021				10	140	106	10	15.7	105	10	25	109	10	42	108									103	99
2022																									
2023				10	137	105	10	12.3	98	10	16	97	10	32	101	10	0.68	109	1.26	108	-0.21	105	105	97	97
2024																									
2025																									

Breed

Birth Year	Growth									Frame						Carcass						Selection Values				
	FCR			ADG			Scrotum			Height			Length			RTU		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	4	-123	114	264	120	102	263	11.8	96	264	18	99	264	30	99	51	-0.04	103	1.14	107	-0.28	104	102	98	92	
2018	3	-123	114	218	128	103	218	14.2	101	218	19	100	218	33	102	39	0.55	108	1.05	106	-0.26	104	108	99	93	
2019	10	-124	115	147	137	105	147	13.6	100	147	20	102	147	35	103	28	0.61	109	1.86	113	-0.08	106	112	100	94	
2020	7	-120	113	182	121	102	182	14.4	102	182	18	99	182	31	100	49	-0.15	102	0.84	105	-0.45	102	100	99	93	
2021	3	-118	112	253	123	102	253	13.8	101	253	19	101	253	35	103	27	0.45	107	0.34	101	-0.54	101	110	99	96	
2022				221	146	107	221	14.0	101	221	22	104	221	39	106	48	0.94	111	1.25	108	0.04	107	110	104	100	
2023				241	129	103	241	13.1	99	241	19	100	241	34	102	94	-0.46	100	0.02	98	-0.41	102	99	100	96	
2024				112	162	110	124	12.7	98	124	20	102	124	37	104									107	100	
2025																										
2026																										

Sires

Sire		Selection Values (SV / Acc)								Calf Weight		Mother		Growth & Efficiency				Fertility				Frame		Carcass			Measured Progeny	
ID Name	Sire ID	Calf Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Grwth Value	Prod. Value	Birth Weight	Wean Weight	Birth Mat.	Milk Wn.Mat.	Postwn Weight	Mature Weight	ADG	FCR	Scrotal Circumf.	Heifer Fert.	Cow Fert.	Longevity	Height	Length	Dress %	RMeat Yield	Marb-ling		
	Dam ID																											
																												>125

Bulls

Inbreeding in red is high

EBV
Acc Index

Breeding values with an accuracy < 5% are not printed

Bull			Selection Values (SV / Acc)								Calf Weight		Mother		Growth & Efficiency				Fertility				Frame		Carcass																							
ID	% Inbreeding	Sire ID	Calf Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Grwth Value	Prod. Value	Birth Weight	Wean Weight	Birth Mat.	Milk Wn.Mat.	Postwn Weight	Mature Weight	ADG	FCR	Scrotal Circumf.	Heifer Fert.	Cow Fert.	Longevity	Height	Length	Dress%	RMeat Yield	Marb-ling																					
Name		Dam ID									1.18	15.6	0.42	6.0	30.1	26	110	-84	13.5	-1.6	-5.6	24.3	19	31	-0.07	0.3	-0.63																					
			Breed average:								1.12	101	16.0	101	0.44	99	6.0	100	31.1	101	27	101	122	102	-96	104	14.2	102	-2.3	101	-5.4	99	20	102	34	102	103	0.9	102	-0.37	103							
			Bull average:								Shaded EBVi								90-110	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100										
JS 240053			114	84	88	114	107	88									0.01	7.7	0.51	2.3	19.9	11	8.4	-31.2	-4.8	10.5	6	1																				
JS 240053 JS 180055			38	29	32	20	20	25									38	113	29	84	34	98	32	88	23	88	20	86	9	89	27	134	12	97	21	80	10	83	8	76								

Cows

Inbreeding in red is high

EBV
Acc Index

Breeding values with an accuracy < 5% are not printed

Cow			Selection Values (SV / Acc)								Calf Weight		Mother		Growth & Efficiency				Fertility				Frame		Carcass		
ID	% Inbreeding	Sire ID	Calf Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Grwth Value	Prod. Value	Birth Weight	Wean Weight	Birth Mat.	Milk Wn.Mat.	Postwn Weight	Mature Weight	ADG	FCR	Scrotal Circumf.	Heifer Fert.	Cow Fert.	Longevity	Height	Length	Dress%	RMeat Yield	Marb-ling
Name		Dam ID	Breed average:																								
			Cow average:																								
			Shaded EBVi								90-110 >100		>100 >100		>100 90-110 >100 >100				>100 >100 >100 >100				90-110 90-110		>100 >100 >100		

Selection List on Cow Values

Bulls 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID						Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
						★★								
1	JS 240053	JS 240053	JS 180055		0.0	11438	8429	8832	11420	10720	8825			

LCV: Logix Cow Value (Combination of EBVs based on measurements of cows and calves on the farm)

Sub-values	Calving Ease		Calf Growth	Milk	Maintenance	Fertility			
Traits for which breeding values (EBVs) and EBV indices (EBVi) are estimated	Birth weight  Calf's genetic potential for birth weight	Mat. Birth weight  Cow's genetic ability to limit calf weight	Weaning weight  Calf's genetic potential for growth	Milk  Mothering ability of cow	Mature weight  Mature weight + Milk	Longevity  Stayability	Heifer Fertility  Age at 1st calving	Cow Fertility  ICP	
	Interpretation	Calving Ease		Calf growth	Milk	Maintenance	Fertility		
	Sub-value above 100	Easier calving		Heavier weaner calf	More milk	Lower maintenance	More fertile and retained in herds		
	Sub-value below 100	Difficult calving		Lighter weaner calf	Less milk	Higher maintenance	Less fertile and culled early		
	Birth weight	Mat. birth weight	Weaning weight	Milk	Cow weight	Longevity	Heifer Fertility	Cow Fertility	
Higher EBV	Heavier weight	Heavier weight	Heavier weight	More milk	Heavier weight	Family remains longer	Later calving	Longer ICP	
Lower EBV	Lighter weight	Lower weight	Lighter weight	Less milk	Lighter weight	Family culled earlier	Earlier calving	Shorter ICP	
Optimum EBV	Lower intermediate	Lower intermediate	Higher	Higher	Higher intermediate	Higher	Lower	Lower	
Optimum EBV/index*	Higher intermediate	Higher intermediate	Higher	Higher	Higher intermediate	Higher	Higher	Higher	

*EBV index above 100 is in a more favourable direction and better than breed average (100).

LGV: Logix Growth Value (Combination of EBVs based on bulls measured in growth tests)

Traits for which breeding values (EBVs) and EBV indices (EBVi) are estimated	ADG  Average daily gain	Kleiber Ratio  Growth efficiency	FCR  Feed conversion ratio	Scrotal circumference  Bull fertility	Height  Shoulder/Hip height	Length  Body length	Carcass  Dressing%, Red Meat Yield and Marbling from RTU Measurements
Interpretation	ADG	Kleiber ratio	Feed conversion ratio	Scrotal circumference	Height	Length	Carcass
Higher EBV	More growth	More efficient on veld	Higher intake per kg gain	Larger scrotum	Taller animal	Longer animal	More
Lower EBV	Less growth	Less efficient on veld	Lower intake per kg gain	Smaller scrotum	Shorter animal	Shorter length	Less
Optimum EBV	Higher	Higher	Lower	Higher	Intermediate	Intermediate/high	Higher
Optimum EBV index	Higher	Higher	High	Higher	Higher intermediate	Higher intermediate	Higher

LPV: Logix Production Value (Combination of LCV and LGV)

