

Beefmaster

Genomic Evaluation

SA Stud Book
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Herd Number: 552314

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BEEFMASTER
CATTLE BREEDERS' SOCIETY OF SA
BEESTELERSGENOOTSAP VAN SA



Notes on the interpretation of EBVs, EBVi's, sub-values and selection values

EBVi (EBVindex) is the breeding value index and is easier to interpret than the breeding value, especially for commercial farmers buying from stud farmers. The base of a breeding value index is 100, which is the average of all the live animals in the breed, and all values are expressed relative to this value. Values above 100 are always in a more desirable direction: an index of 105 for AFC indicates a genetic potential to calve earlier. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values can 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 breeds and traits). Higher values for certain traits are better while lower values for other traits are better, for example, an EBV of -2 for AFC (age at first calving) indicates that the animal has the genetic potential to calve 2 days earlier than the average heifer in 1990 (the base year). Earlier calving is better and therefore low breeding values (high breeding value indices) are better. For weaning weight, higher values are better.

Sub-values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, AFC (age at first calving) and ICP (inter-calving period) are combined to form the sub-value Fertility 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.

Selection Values (Cow Value and Growth Value) combine the sub-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.

How to use breeding values to select animals

Selecting animals on breeding values is easy if you know how. There is a common saying that "good nutrition can mask poor breeding". This is very true. If an animal that is genetically inferior is fed well, it can appear as a great animal. This great performance will not be passed over to future generations. An animal that is genetically superior can appear to be inferior if its environment did not allow it to reach its true potential. It is best to select animals that are most adapted to the environment and can reach their full potential. To continuously adapt the environment to the animal can be expensive.

The reason why the use of breeding values is such a valuable tool is because it "removes" the environmental effect that contributes to the performance.

Scientific methods are used to determine how much of the performance is due to genetics and to identify genetically superior animals. This involves the measurement of animals under controlled environments, complete record keeping and pedigree information. *If performance recording and pedigree information are not done correctly, breeding values of these animals will not be useful.* Keep in mind that breeding is a long-term option: the effect of a bull selected/bought today will only show much later. If it is a good decision, his daughters will become part of the breeding herd and contribute to overall profitability in future.

Even if a bull is not perfect in all aspects, knowing the shortcomings will allow strategic selection with suitable cows. Traits are genetically correlated, meaning that a change in one trait can lead to a change in another. This change can be favourable or unfavourable. An increase in weaning weight can lead to an increase in birth weight, which can lead to calving difficulty. It is therefore advisable to not only select on a single trait. Take other traits in consideration to avoid negative effects.

How to improve the herd genetically

The first and most important aspect is to know what type of animal will improve the herd genetically. This can be determined through the following factors:

What happens to the calves? For example: used as replacement heifers, sold as stud animals or sold to commercial breeders who sell weaner calves.

How much feed is available? The availability of feed (or the hardness of the environment) determines the optimal frame size. If feed is abundant and the environment is less harsh, larger animals would be ideal. If not, medium framed animals would be ideal.

What is the genetics of the cow herd? Are they the wrong frame type, grow too slowly, do not have enough milk, etc.? Always aim to breed a calf that is superior to its dam.

Conclusion

Different types of bulls are suitable for different types of cows, environments and breeding objectives. Inbreeding should be avoided or limited as much as possible. Mating programs are available to aid in the pairing of bulls and cows.

The data used for this evaluation is pedigree information and performance data found on LOGIX as provided by breeders. All attempts are made to present accurate information. SA Stud Book takes no responsibility for the use and interpretation of information presented in this report.

CV: Cow Value

(Combination of EBVs based on measurements of cows and calves on the farm)

Selection Values	Calving Ease	Calf growth	Milk	Maintenance	Fertility
	Birth Weight: Calf's genetic potential for weight at birth	Wean weight: Calf's genetic potential for growth	Milk (wean maternal): Milk and mothering ability of cow	Mature weight : Heavier cows have higher maintenance requirements	Heifer Fertility: Age at 1 st calving
	Birth Mat: Cow's genetic ability to limit calf 's birth weight			0.1 x Milk: Higher milk increases maintenance requirements	Cow Fertility: ICP (inter-calving period) Longevity: Retention of family
>120 (Green)		Heavier weaner calf	More milk	Lower maintenance (smaller cow)	More fertile and/or good retention
80 - 120 (Grey)	Average birth weight	Average weaner calf	Average milk	Average maintenance (average cow size)	Average
< 80 (Red)	Heavy Birth Weights (More difficult calving)	Lighter weaner calf	Less milk	Higher maintenance (Heavier cow)	Less fertile and/or culled early

Breeding Values (EBVs)	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 EBVindex*	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).

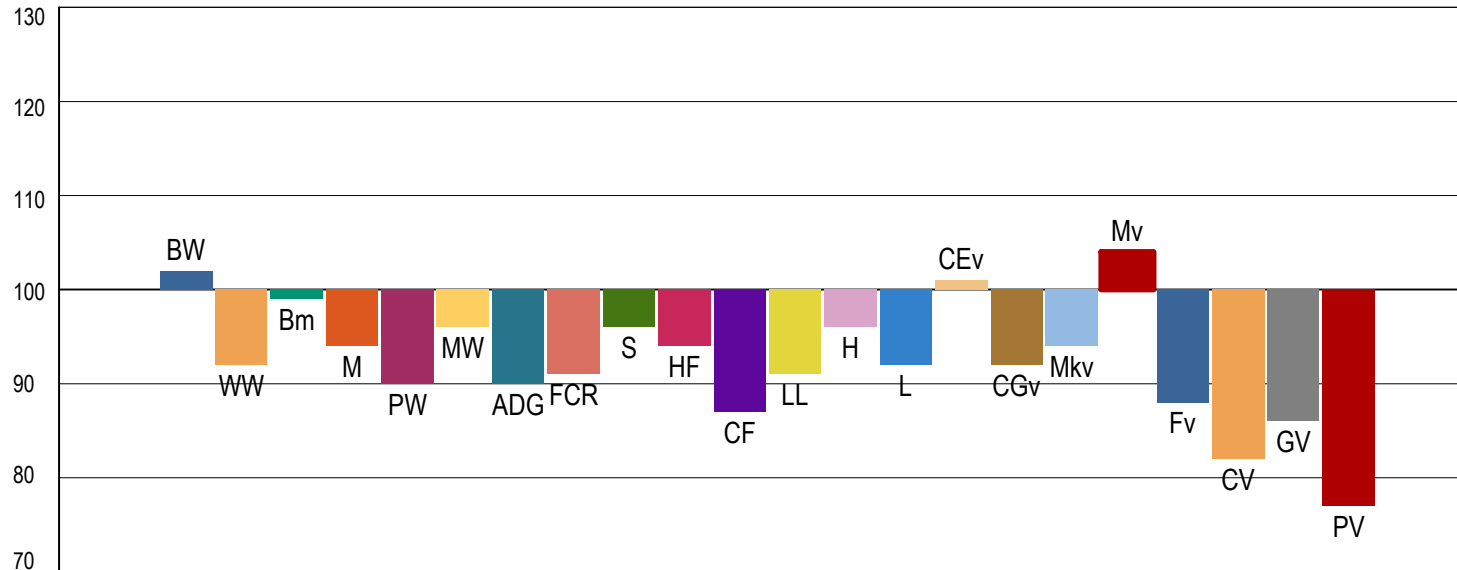
GV: Growth Value

(Combination of EBVs based on bulls measured in growth tests)

Breeding Values (EBVs)	ADG	Kleiber ratio	Feed conversion ratio	Scrotal circumference	Height	Length	Carcass
	Average daily gain	Growth efficiency	Feed conversion ratio	Bull fertility	Shoulder/Hip heigh	Body length	Dressing%, Red Meat Yield and Marbling
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

PV: Production Value is a combination of CV and GV)

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	0.24	102	0.37
	Wean Weight	7.8	92	12.1
	Birth Mat.	-0.04	99	-0.08
	Milk (Wn.Mat.)	-3.1	94	-1.6
Postwean Growth	Postwean Wt	11.4	90	18.9
	Mature Weight	3	96	8
	ADG	33	90	69
	FCR	-28	91	-38
Fertility	Scrotal Circumf.	8.7	96	10.7
	Heifer Fertility	-2.7	94	-7.1
	Cow Fertility	-1.4	87	-3.9
	Longevity	8.7	91	14.1
Frame	Height	-1	96	1
	Length	5	92	13
Carcass	Dressing%	-0.09	86	0.18
	RedMeatYield	-1.4	87	1.4
	Marbling	-0.18	94	0.11

Selection Value	Ave. Herd
Calving Ease	101
Calf Growth	92
Milk	94
Maintenance	104
Fertility	88
Cow Value	82
Growth Value	86
Production Value	77

- 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).

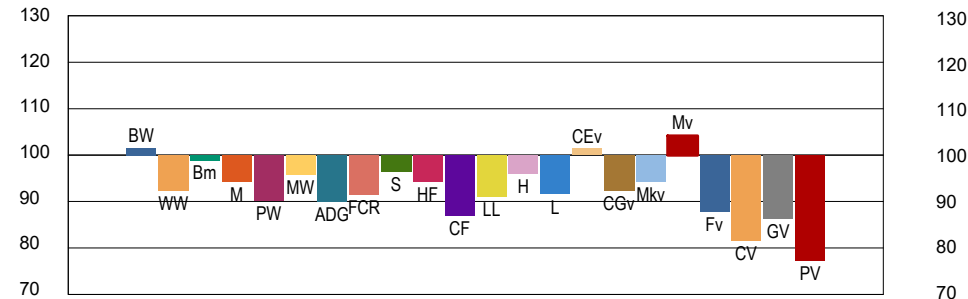
Fertility: Cows/daughters that calve

Genetic Window

Bulls on Farm

Bulls born in 2022 and earlier

Number: 18



Sires of young animals

Sires of animals 3 years and younger

Number:



Bull Calves

Bull calves born in

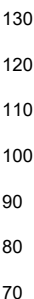
Number:



Cow Herd

Cows born in and earlier

Number:



Cows older than 6 years

Cows born in and earlier

Number:



Heifers

Heifers born in

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

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	101	100	100	99	100	100	99	100	100
2021	21																							
2022	20																							

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	Fertility
	Number	EBV			Number	EBV		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.)		Milk	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	
2016	13218	0.19	0.03	102	12678	9.3	95	12678	-1.59	100	8439	15.5	1794	4	102	3549	-3.4	2381	-3.2	17242	6.9	93	91	
2017	13995	0.19	0.06	102	13543	9.7	96	13543	-1.49	100	9155	16.3	1876	5	102	3698	-3.7	2609	-3.2	17692	7.5	94	92	
2018	14637	0.23	0.01	101	14085	10.2	97	14085	-1.49	100	9471	17.1	2042	6	101	3742	-5.0	2672	-3.5	18410	8.3	97	94	
2019	14152	0.31	-0.03	100	13892	11.0	98	13892	-1.68	100	9219	18.3	2525	6	101	4470	-5.7	3119	-3.7	18033	8.9	98	95	
2020	15140	0.30	-0.04	101	15375	10.9	98	15375	-1.72	99	10389	18.1	2566	6	100	4465	-5.7	2799	-3.7	18234	9.3	98	95	
2021	16004	0.30	0.00	101	15965	10.9	98	15965	-1.51	100	10817	18.2	2368	6	100	4543	-5.0	1665	-3.9	14356	7.9	98	96	
2022	17591	0.35	-0.06	100	16852	11.9	100	16852	-1.78	99	11510	19.6	898	10	99	2816	-7.6	269	-4.3			103	98	
2023	18523	0.35	-0.05	100	17668	11.8	99	17668	-1.66	100	11155	19.8	6	9	99	650	-8.5					105	98	
2024	17848	0.37	-0.08	100	15788	12.2	100	15788	-1.58	100	4093	22.4			97	4	-19.3					115	99	
2025	10167	0.27	-0.08	101	797	12.2	100	797	-1.95	99	1	7.8											99	

Genetic Trends for Growth Test Traits

Herd

Birth Year	Growth									Frame						Carcass Traits								Selection Values	
	FCR			ADG			Scrotal Circumf.			Height			Length				Dressing%		RMeat Yield		Marbling		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			

Breed

Birth Year	Growth									Frame						Carcass Traits								Selection Values	
	FCR			ADG			Scrotal Circumf.			Height			Length			Number	Dressing%		RMeat Yield		Marbling		Growth Value	Prod Value	
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi	EBV	EBVi			
2016	33	-34	97	863	69	100	794	11.9	102	759	5	106	759	15	102	44	0.01	91	0.21	94	-0.146	95	97	92	
2017	62	-36	100	1015	75	102	979	12.9	104	953	5	106	953	15	103	101	0.00	90	0.00	93	0.000	98	98	93	
2018	16	-51	112	835	93	107	830	14.6	107	830	6	108	830	18	105	33	0.25	104	3.45	109	0.314	104	103	95	
2019	13	-42	104	772	95	107	773	14.5	107	767	7	109	766	20	107	32	0.10	96	1.43	100	0.293	104	102	96	
2020	15	-49	110	1035	101	109	1026	15.7	109	960	7	109	960	21	109	60	0.31	107	3.62	110	0.385	105	105	98	
2021	20	-41	103	1162	101	109	1151	15.6	109	1048	6	108	1048	21	109	148	0.29	106	2.90	107	0.289	103	104	99	
2022	20	-43	105	1222	103	110	1266	14.5	107	1115	5	107	1115	21	109	147	0.23	103	2.24	104	0.194	102	105	101	
2023	10	-51	113	1255	107	111	1241	15.3	108	1112	6	108	1112	23	110	250	0.31	107	3.72	111	0.390	105	106	103	
2024				507	99	108	496	16.3	110	375	4	105	375	20	107	17	0.39	112	4.41	114	0.605	110	103	100	

Sires

Sire		Selection Values (SV / Acc)								Calf Weight		Mother		Growth & Efficiency				Fertility				Frame		Carcass			Measured Progeny				
ID Name	Sire ID Dam ID	Not tested Verified Conflict	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	Marbling	Birth Grwth test	Wean Dght/Calv		
	>125		75 - 125	<75	Breed average:					0.37	12.1	-0.08	-1.6	18.9	8	69	-38	10.7	-7.1	-3.9	14.1	1	13	0.18	1.4	0.11					
FXF 040408	FXF 010076		106	101	82	93	84	74	98	72	-0.08	12.6	-0.03	-6.6	21.0	14	74	-31	12.0	-1.9	0.8	10.6	2	7	0.09	-0.6	1.05	604	493		
FXF 04 0408	FXF 000137		99	99	98	97	97	89	92	90	99	106	99	82	98	103	97	95	101	98	93	95	99	96	102	89	95	89	44	167	
FXF 060122	FXF 020049		99	98	79	111	102	89	96	85	0.43	11.0	-0.03	-7.4	20.4	-2	32	-14	36.8	-4.8	-7.8	9.1	5	10	-0.02	-1.8	0.66	634	567		
FXF 06 0122	FXF 030335		99	99	98	96	96	89	92	90	99	99	98	79	98	102	96	94	90	95	146	97	93	120	99	92	91	85	91	6	
MAJ 020302	754134		108	91	91	111	93	86	73	77	0.13	6.9	-0.70	-4.1	6.7	-2	-21	22	-3.4	-8.3	-2.9	7.1	-1	-3	-0.30	-4.4	-0.67	45	39		
02 302	MAJ 970713		88	89	82	63	68	71	26	62	90	103	89	91	82	84	63	40	75	39	75	88	38	96	37	12	74	12	73	11	12
WO 010081	WO 990047		88	117	69	107	69	73	92	70	1.51	21.7	-1.00	-10.0	24.8	0	70	-37	15.1	11.1	1.6	3.4	0	17	0.33	2.1	-0.43	595	1251		
WO0181	WO 940019		99	99	99	98	98	90	95	91	99	86	99	69	99	108	98	97	100	93	99	97	72	98	97	93	103	93	74	356	
WO 030081	WO 010081		86	102	93	93	92	83	97	80	1.27	13.2	0.15	-3.4	22.4	14	81	-43	14.0	-10.1	-2.6	5.5	-2	10	0.15	1.4	0.38	405	454		
WO 03 081	WO 970383		99	99	98	94	92	88	73	85	99	89	99	102	98	105	94	92	103	51	105	81	93	95	94	56	98	56	44	148	
WO 050039	WO 010081		88	107	83	118	85	90	104	88	1.35	16.2	-0.33	-6.1	22.9	-9	104	-41	17.3	-10.1	1.0	6.4	-4	14	0.24	2.5	0.42	471	429		
WO 05 039	WO 980119		99	99	98	94	91	87	70	84	99	88	99	107	98	105	94	91	110	45	103	78	75	94	103	47	103	47	38	124	
WO 080479	WO 050389		82	125	97	78	88	95	123	96	1.50	26.1	0.25	-2.3	40.7	36	133	-33	33.3	0.2	-0.1	15.0	14	42	0.80	6.7	-0.20	478	437		
WO080479	WO 040057		99	99	98	96	97	89	94	90	99	86	99	125	98	129	96	95	118	92	96	95	80	96	122	92	134	92	10	143	
Z 080044	WO 010081		99	95	89	98	102	86	87	80	0.54	9.1	-0.31	-4.7	12.8	9	29	-20	2.4	-12.9	-5.8	8.7	-10	-1	0.01	-2.1	-0.68	166	164		
Z080044	Z 050218		95	96	86	59	80	76	37	68	96	98	88	89	95	92	59	50	89	23	83	59	110	52	80	34	91	34	19	48	
Z 130134			91	100	105	87	88	84			1.06	12.2	-0.12	-0.3	9.7	21	88	-53	15.6	2.3	-1.6	12.7	12	26	0.13	2.8	0.24	4	4		
Z130134	Z 080116		59	63	39	25	34	40			63	91	39	105	53	88	25	24	109	33	88	26	88	24	118	14	98	14			

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	Name	% Inbreeding	Sire ID Dam ID	Parentage: Not tested Verified Conflict	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.	Longe- vity	Height	Length	EMA	Fat	Marb- ling	Dres %	RMY												
Breed average:													0.37	12.1	-0.08	-1.6	18.9	8	69	-38	10.7	-7.1	-3.9	14.1	1	13	100	100	100	100	100												
Bull average:													0.43	99	129	101	-0.14	101	-1.8	99	19.8	101	9	101	76	102	-41	103	11.4	101	-7.1	100	-4.0	101	2	101	15	102					
Shaded EBVi													90-110	>100	>100	>100	>100	90-110	>100	>100	>100	>100	>100	>100	>100	90-110	90-110	>100	>100	>100	>100	>100	>100										
-M 080013				MAJ 020302	-M 000049	106	85	94	112	90	81		0.18	3.6	-1.04	-3.1	2.0	-3	-43			-4.5	-8.9	-1.7	5.8	-6	-12	65	79	76	63	64											
						63	53	56	34	40	44	65	102	53	55	125	56	94	48	78	34	90	20	69	19	73	41	102	24	89	55	86	6										
-M 080028				-M 000039		95	79	110				0.71	0.6	0.00	1.3	-0.1								5.0																			
						45	48	28				49	96	48	79	24	98	28	110	44	75			28	85																		
Z 090216				WO 010081		103	94	91	104	81	77	86	71	0.36	8.7	-0.54	-3.9	11.9	2	39	-34	10.3	3.6	0.0	8.5	1	10	91	97	74	91	90											
				Z 030069		64	65	61	48	51	53	36	50	65	100	65	94	57	112	61	91	64	91	48	95	47	92	23	97	48	99	48	96	31	28	27	30	30					
Z 100008				2	WO 050039		92	90	91	120	85	81	91	77	0.90	6.7	0.09	-4.1	10.9	-12	61	-35	7.4	-4.9	-1.0	4.7	-3	6	88	114	101	88	91										
					WO 060235		66	68	59	50	52	54	33	50	68	93	68	90	58	95	59	91	64	89	50	82	48	98	17	97	49	94	25	23	23	24	24						
Z 100155					Z 070148		103	89	93	114	75	74		0.21	5.8	-0.16	-3.3	6.2	-5	5	-25	4.6	6.9	0.4	4.8	-3	1	75	101	92	75	80											
						50	54	37	24	32	36		53	102	54	89	34	102	37	93	51	83	24	88	24	82	12	88	24	89	31	82	26	78	38	85							
Z 110042				13	Z 080044		100	98	82	104	96	84	84	78	0.48	11.0	-0.31	-6.5	13.8	2	21	-23	4.7	-8.5	-3.4	10.2	-7	1	89	98	78	88	83										
					Z 080108		64	66	55	38	51	50	26	45	66	99	66	98	55	106	55	82	64	93	38	95	34	87	16	86	35	89	54	102	40	97	59	94					
Z 110052					WO 030081		98	82	106	100	90	78	82	71	0.44	1.9	0.03	0.0	3.7	5	18	-14	5.3	-8.2	-2.2	5.2	-5	-1	77	112	98	78	82										
					Z 070151		63	66	58	49	53	53	36	50	64	99	66	82	55	97	58	106	63	80	49	97	47	86	25	78	48	91	54	101	47	91	58	85					
Z 110115					WO 080492		110	89	102	96	81	77		-0.29	6.3	-0.15	-0.9	9.6	10	85	-46	11.2	3.8	-1.9	3.8	5	15	89	106	112	89	97											
						54	57	38	27	32	38		57	108	57	89	36	102	38	102	53	88	27	102	24	104	7	107	25	101	33	86	23	89	40	83							
Z 110180							103	89	85	112	87	76		-0.08	6.3	0.37	-5.7	7.6	-3	7	-18	3.3	-7.6	-2.5	0.8	-4	-1	74	103	101	74	80											
					Z 060002		51	56	39	25	32	37		54	106	56	89	36	88	39	85	51	85	25	91	26	83	7	82	28	87	31	101	24	93	40	78						
Z 120070					WO 080479		93	104	101	86	92	88	103	86	0.74	14.1	0.19	-1.2	22.1	23	89	-38	21.5	-3.6	-1.7	13.7	11	28	107	113	93	107	107										
					Z 080251		63	66	58	47	52	52	38	49	64	95	66	104	55	93	58	101	63	104	47	114	45	106	31	100	46	119	53	95	47	88	57	99					
Z 120301					WO 010081		107	94	81	112	87	78	82	72	0.04	8.6	-0.47	-6.8	12.8	-2	17	-25	7.4	-2.7	1.1	14.4	-3	2	86	99	73	85	84										
					Z 040032		64	66	62	48	53	54	36	50	65	104	66	94	58	110	62	81	64	92	48	91	47	86	23	88	48	94	52	94	48	74	59	100					
Z 130168					FXF 060122		100	95	89	112	94	89	84	82	0.31	9.6	0.06	-4.7	18.5	-3	12	-19	19.7	-4.4	-4.4	8.7	2	4	79	94	98	78	80										
					Z 090078		64	65	56	46	52	52	31	48	66	101	65	95	56	96	56	89	56	100	46	91	42	84	18	83	45	116	53	96	46	102	56	91					
Z 130182							96	102	102	95	73	80	89	75	0.53	13.5	0.16	-0.9	16.7	10	70	-39	14.4	11.3	-0.6	3.1	5	17	91	120	105	92	99										
					Z 090094		53	55	36	27	34	37	21	34	56	98	55	102	36	94	36	102	49	97	27	102	27	100	15	101	27	106	33	76	28	83	40	82					
Z 150034					FXF 040408		99	95	90	100	99	87	88	81	0.39	9.5	0.07	-4.2	17.8	6	40	-27	8.0	-15.0	-1.2	14.9	-3	0	85	101	105	85	84										
					Z 110080		67	67	60	54	57	55	34	51	68	100	67	95	60	96	60	90	65	99	54	98	52	92	15	90	53	95	59	110	50	86	61	101					
Z 150076					FXF 040408		100	97	98	98	94	88	86	82	0.18	10.2	0.33	-2.2	16.0	7	41	-30	7.7	-3.4	-1.2	16.6	1	5	83	94	109	82	84										
					Z 120137		68	68	62	49	54	55	28	50	69	102	68	97	60	89	62	98	65	96	49	100	46	92	9	92	47	95	56	95	46	86	59	104					
Z 160090				6	Z 130134		100	98	102	95	88	86	87	81	0.43	11.2	-0.18	-1.1	10.7	11	57	-38	13.6	4.8	-1.6	14.1	4	14	95	100	96	94	95										
					Z 110067		59	60	42	30	37	41	22	37	62	99	60	98	43	103	42	102	48	89	30	103	29	97	15	100	29	105	37	85	30	88	43	100					
Z 160221					FXF 040408		101	97	96	97	98	89	86	83	0.06	10.2	0.45	-2.6	21.7	8	42	-30	7.8	-11.8	-1.1	15.5	1	5	83	94	109	82	84										
					Z 120137		74	73	64	51	58	58	28	52	76	104	73	97	64	86	64	96	68	104	51	101	46	92	9	93	47	95	63	106	46	85	66	102					
Z 190045					Z 090018		119	84	84	114	82	73	73	65	-1.19	3.1	0.35	-5.9	3.9	-5	-6	-17	5.6	2.0	-0.7	7.6	-7	-4	71	114	90	72	77										
						53	55	38	25	33	37	20	34	56	119	55	84	39	88	38	84	51	80	25	89	24	79	15	81	24	91	32	88	26	83	40	89						

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 Genomic	Sire ID Dam 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	EMA	Fat	Marb-ling	Dres %	RMV								
Name			Breed average:									0.37	12.1	-0.08	-1.6	18.9	8	69	-38	10.7	-7.1	-3.9	14.1	1	13	100	100	100	100	100							
			Cow average:									0.34	100	11.8	99	-0.06	99	-1.5	100	18.4	99	7	99	65	99	-36	98	10.3	99	-7.2	100	-3.8	100	1	99	12	99
			>125	75 - 125	<75	Shaded EBVi						90-110	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	90-110	90-110	>100	>100	>100	>100	>100	>100					

Selection List on Cow Value

Bulls 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin		Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value								
Sorted on ID							Q204X	nt821	F94L		Acc	Acc	Acc	Acc	Acc	Acc	Acc								
										★★★															
1	-M	080013	-M080013	MAJ 020302	-M	000049	0.0			106	63	85	53	94	56	112	34	90	40	81	44				
2	Z	100008	100008	WO 050039	WO	060235	2.3			92	66	90	68	91	59	120	50	85	52	81	54	91	33	77	50
3	Z	110042	110042	Z 080044	Z	080108	12.5			100	64	98	66	82	55	104	38	96	51	84	50	84	26	78	45
4	Z	120070	Z120070	WO 080479	Z	080251	0.0			93	63	104	66	101	58	86	47	92	52	88	52	103	38	86	49
5	Z	130168	Z130168	FXF 060122	Z	090078	0.0			100	64	95	65	89	56	112	46	94	52	89	52	84	31	82	48
6	Z	130182	Z130182		Z	090094	0.0			96	53	102	55	102	36	95	27	73	34	80	37	89	21	75	34
7	Z	150034	Z150034	FXF 040408	Z	110080	0.0			99	67	95	67	90	60	100	54	99	57	87	55	88	34	81	51
8	Z	150076	Z150076	FXF 040408	Z	120137	0.0			100	68	97	68	98	62	98	49	94	54	88	55	86	28	82	50
9	Z	160090	Z160090	Z 130134	Z	110067	6.3			100	59	98	60	102	42	95	30	88	37	86	41	87	22	81	37
10	Z	160221	Z160221	FXF 040408	Z	120137	0.0			101	74	97	73	96	64	97	51	98	58	89	58	86	28	83	52
										★★															
1	Z	090216	090216	WO 010081	Z	030069	0.0			103	64	94	65	91	61	104	48	81	51	77	53	86	36	71	50
2	Z	100155	100155		Z	070148	0.0			103	50	89	54	93	37	114	24	75	32	74	36				
3	Z	110052	Z110052	WO 030081	Z	070151	0.0			98	63	82	66	106	58	100	49	90	53	78	53	82	36	71	50
4	Z	110115	Z110115		WO	080492	0.0			110	54	89	57	102	38	96	27	81	32	77	38				
5	Z	110180	Z110180		Z	060002	0.0			103	51	89	56	85	39	112	25	87	32	76	37				
6	Z	120301	Z120301	WO 010081	Z	040032	0.0			107	64	94	66	81	62	112	48	87	53	78	54	82	36	72	50
7	Z	190045	Z190045		Z	090018	0.0			119	53	84	55	84	38	114	25	82	33	73	37	73	20	65	34

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID						Q204X	nt821	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	

