

Santa Gertrudis

Genomic Evaluation

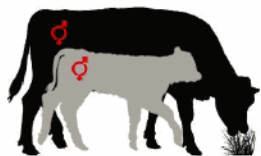
SA Stud Book
July 2025

Herd Number: 81320

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EBVs, EBVi's and Selection Values



Logix Cow Value

Selecting for:

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



Logix Growth Value

Selecting for:

- efficient growers
- on veld and feedlot



Logix Production Value

80% Logix Cow Value +
20% Logix Growth Value



Logix Carcass Value

Selecting for higher meat
yield on carcass



Logix Genomics

- Identification
- Parentage
- GEBVs
- Single gene testing

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.

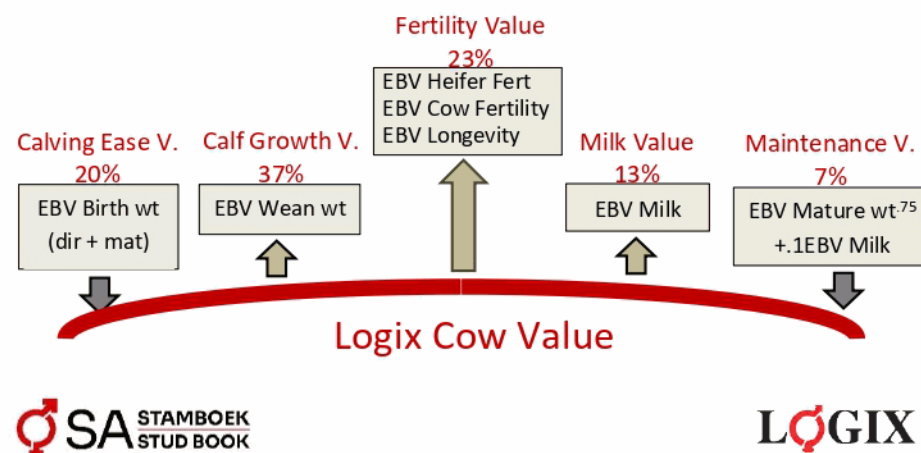
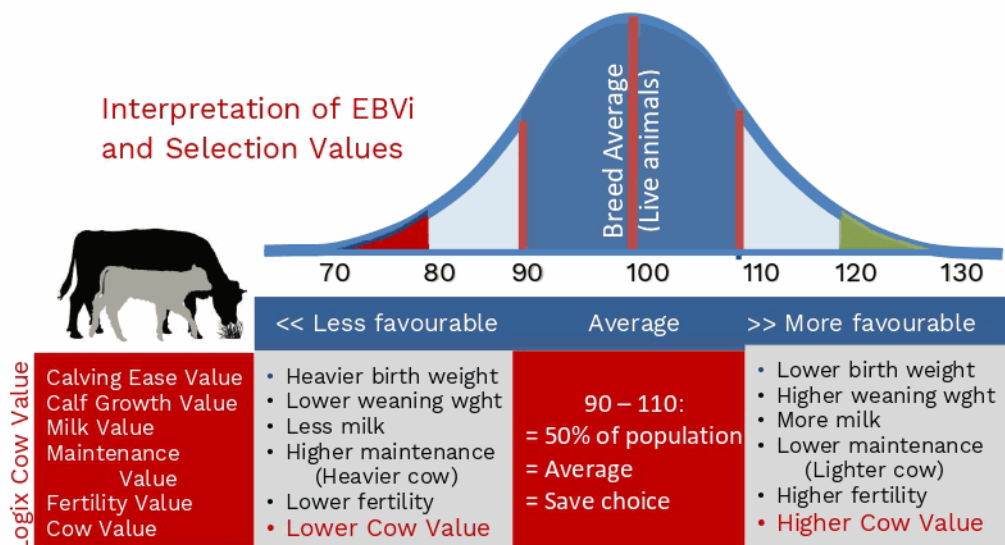
EBV (Estimated Breeding Value) indicates the genetic potential of the animal for a specific trait. It is presented in the unit of measurement and relative to the average of animals born in the base year (1990 for most traits).

GEBV (Genomic Breeding Value) is the breeding value combined with genomic information obtained from the DNA and is more accurate due to more information. Parentage verification is also indicated if the parent has also been genomically tested.

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, Growth Value, Production Value and Carcass 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.

Interpretation of EBVi and Selection Values



Description of Traits

Calf Weight	
Birth weight	Weaning weight
	
Calf's genetic potential for birth weight	Calf's genetic potential for growth
Measurement: Birth Weight	

Mother	
Mat. Birth weight	Milk (Wean mat)
	
Cow's genetic ability to limit calf weight	Motnering ability of cow
Measurement: Weaning Weight	

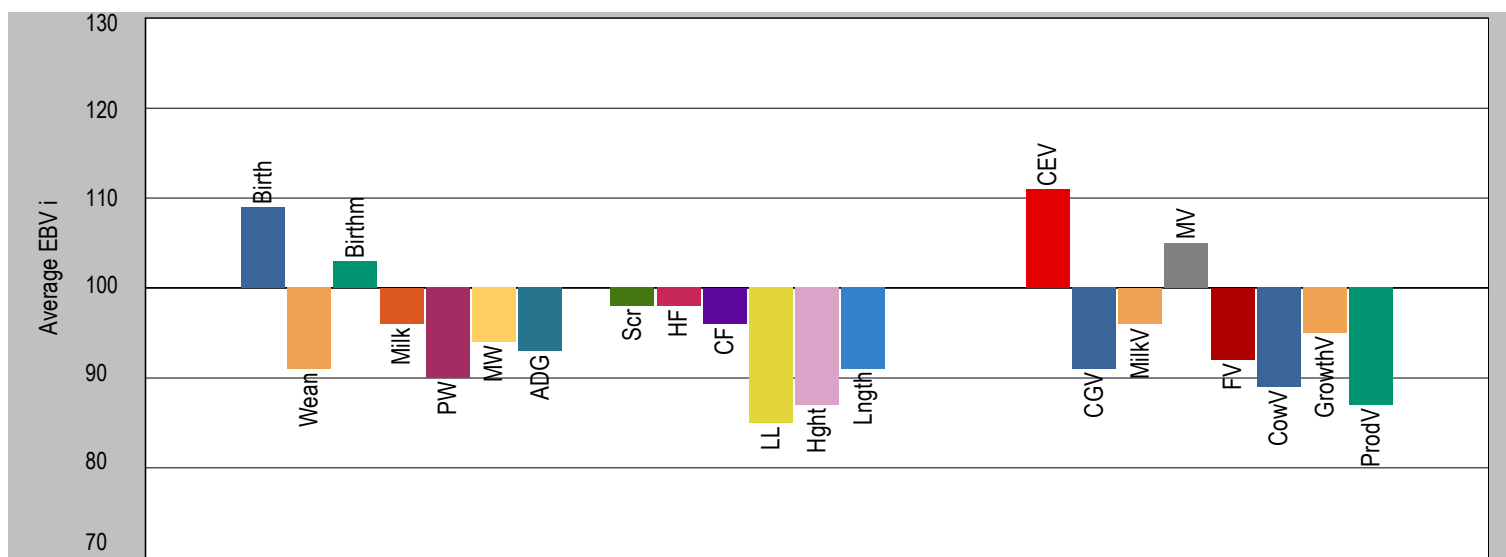
Growth & Efficiency			
Postwean weight	Mature weight	ADG	FCR
			
Post wean growth	Cow Efficiency	Average daily gain	Feed conversion ratio
12- and 18m weights	Wt at wean of 1 st 3 calves	ADG in Growth test	FCR in Growth test

Fertility			
Scrotal circumference	Heifer Fertility	Cow Fertility	Longevity
			
Bull fertility	Heifer Fertility	Cow Fertility	Stayability
Scrotal circumference	Age at 1 st calving	First 3 ICPs	Retention up to 10 yrs

Frame	
Height	Length
	
Shoulder/Hip height	Body length
Height / Length in Growth Test	

Carcass	
EMA, FAT & Marbling	Dressing%, RMY
	
Eye-muscle Area, Fat and Marbling	Dressing%, Red Meat Yield
RTU (Real-Time-Ultrasound) in Growth Test	

Herd and Breed Averages



Breeding Values:

Birth:	Birth weight	Scr:	Scrotal circumf.
Wean:	Weaning weight	HF:	Heifer Fertility
Birthm:	Birth maternal	CF:	Cow Fertility
Milk:	Milk	LL:	Longevity
PW:	Post-wean weight	Hght:	Height
MW:	Mature weight	Lngth:	Length
ADG:	Average Daily Gain	Dr%:	Dressing%
FCR:	Feed Conversion Ratio	RMV:	Red Meat Yield
		Marb:	Marbling

Selection Values:

CEV:	Calving Ease Value
CGV:	Calf Growth Value
MilkV:	Milk Value
MV:	Maintenance Value
FV:	Fertility Value
CowV:	Cow Value (CV)
GrowthV:	Growth Value (GV)
ProdV:	Production Value (PV)

	Trait	EBV Herd	EBV Index	EBV Breed
Prewrite Growth	Birth Weight	0.51	109	1.24
	Wean Weight	10.4	91	14.9
	Birth Mat.	-0.25	103	-0.13
	Milk (Wn.Mat.)	-0.7	96	0.4
Postwean Growth	Postwean Wt	15.8	90	23.3
	Mature Weight	14	94	19
	ADG	65	93	92
	FCR			
Fertility	Scrotal Circumf.	8.1	98	9.4
	Heifer Fertility	-1.6	98	-3.3
	Cow Fertility	-4.8	96	-5.6
	Longevity	23.1	85	32.6
Frame	Height	4	87	12
	Length	14	91	24
Carcass	Dressing%			
	RedMeatYield			
	Marbling			

Selection Value	Ave. Herd
Calving Ease	111
Calf Growth	91
Milk	96
Maintenance	105
Fertility	92
Cow Value	89
Growth Value	95
Production Value	87

- 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 Windows

Bulls on the farm

Bulls born in and earlier that are available for natural mating
130
120
110
100
90
80
70

Animals available for breeding

Total:	Cows born in and earlier
	130
	120
	110
	100
	90
	80
	70

Cow Herd

Total:

Sires of young animals

Sires (Natural mating and AI) of animals 3 years and younger
130
120
110
100
90
80
70

Results of previous selection decisions

Total:	Cows born in and earlier
	130
	120
	110
	100
	90
	80
	70

Cows older than 6 years

Total:

Selection possibilities

Bull calves

Bulls born in
130
120
110
100
90
80
70

Total:

Heifers born in
130
120
110
100
90
80
70

Heifer calves

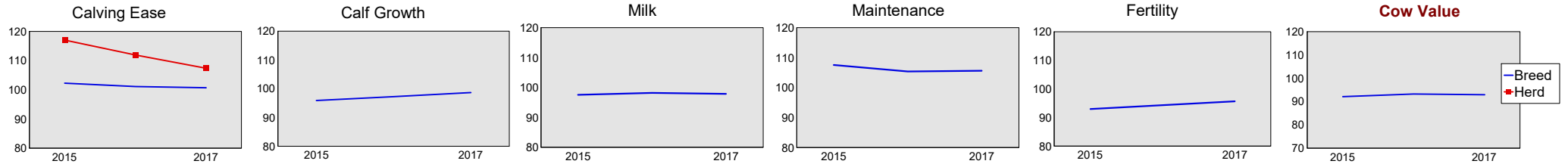
Total:

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	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
Cows in Breed Average:			100	100	100	101	100	100	99	99	100	100	100	100	100	99	99	99	99	100	100	100	99	99
2010	1	★★★★	117	87	104	107	108	99	95	96	118	87	90	104	94	91	103	108	119	126	97	85	99	101
2011	1	★★★★☆	102	101	75	95	86	84	108	86	97	101	117	75	102	106	107	114	79	82	99	92	77	95
2012	6	★★★★	121	87	106	108	100	98	89	94	118	87	103	106	85	90	84	85	96	109	101	84	78	85
2013	4	★★★★	113	91	94	104	100	92	89	89	111	91	105	94	89	95	91	92	98	100	109	88	86	91
2014	3	★★★★☆	111	91	91	109	81	83	94	82	108	91	108	91	89	91	95	97	100	92	86	81	90	92
2015	3	★★★★☆	110	95	93	99	86	89	102	89	107	95	107	93	95	101	100	102	100	92	91	85	93	95
2016	5	★★★★☆	104	93	90	104	89	85	97	81	105	93	98	90	91	95	96	100	94	89	99	87	93	93
2017	1	★★★	106	91	92	99	80	78	95	78	102	91	113	92	86	100	92	96	101	94	78	85	82	84
Cows in Herd Average:			111	92	93	103	91	89	96	87	108	92	105	93	91	96	96	99	98	98	95	86	87	92

Genetic Trends for On-Farm Traits

The graphs show the genetic gain of the herd relative to the breed. Only data of animals with measurements are included.



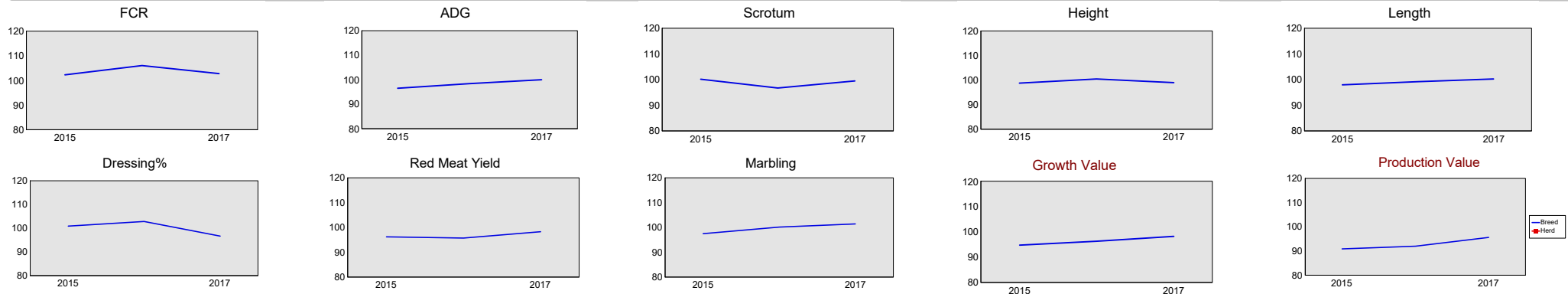
Herd

Birth Year	Calving Ease				Calf Growth			Milk		Maintenance				Fertility						Cow Value			
	Birth Weight		Dir	Mat	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight	Maintenance	Heifer Fert.		Cow Fert.			Longevity		Ferti- lity
	Number	EBV				Number	EBV		Number	EBV		Number	EBV			Number	EBV	Number	EBV		Number	EBV	
2015	3	0.07	-0.29	117																1	29.2		
2016	8	0.27	-0.02	112																2	27.9		
2017	3	0.90	-0.43	107																			

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		Ferti- lity			
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	
2015	2782	1.02	-0.06	102	2277	12.8	96	2277	-0.34	98	725	18.1	79	17	108	1301	-2.0	931	-4.6	6257	22.6	93	92		
2016	2689	1.13	-0.12	101	1903	13.5	97	1903	-0.16	98	513	19.7	171	13	105	1218	-2.5	902	-4.6	5839	23.8	94	93		
2017	2776	1.17	-0.14	101	2153	14.3	99	2153	-0.24	98	641	20.2	217	15	106	1168	-3.1	855	-4.7	5726	25.2	96	93		
2018	2956	1.08	-0.15	102	2131	15.1	100	2131	-0.58	97	545	22.1	259	14	105	1229	-3.1	810	-5.4	5909	25.9	97	98		
2019	3205	1.18	-0.14	101	2822	14.5	99	2822	-0.19	98	803	23.6	299	15	103	1168	-3.0	815	-5.6	5848	27.0	98	97		
2020	3448	1.18	-0.15	101	3085	14.9	100	3085	-0.16	98	695	23.9	234	16	102	1161	-2.8	575	-5.7	5627	27.2	99	98		
2021	3341	1.25	-0.21	100	3400	15.5	101	3400	0.29	100	737	23.1	193	17	101	976	-3.1	206	-6.3	1791	28.4	101	100		
2022	3445	1.20	-0.19	101	3477	15.7	102	3477	0.00	99	749	23.5	24	17	100	368	-3.6					103	101		
2023	3245	1.28	-0.20	100	2986	16.9	104	2986	-0.10	98	686	24.5			101	4	-8.2					107	102		
2024	3164	1.23	-0.20	101	2372	17.4	105	2372	0.33	100	75	23.0			99								104		
2025	891	1.19	-0.13	101	5	17.2	104	5	3.50	111															

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		
2015																								
2016																								
2017																								

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			
2015	55	-22	102	255	78	97	255	9.5	100	255	11	99	255	22	98	122	0.13	100	0.9	100	0.51	97	95	91	
2016	46	-26	106	128	86	98	133	7.6	97	128	12	100	128	23	99	75	0.18	103	1.8	105	0.72	100	96	92	
2017	73	-22	103	284	92	100	298	9.1	100	287	11	99	284	24	100	201	0.10	97	0.8	100	0.82	101	98	96	
2018	47	-22	102	220	83	98	275	8.6	99	248	11	98	220	21	98	123	0.17	102	1.6	104	1.01	104	96	102	
2019	55	-24	105	256	98	101	338	9.9	101	253	12	100	183	26	102	206	0.19	103	1.3	102	0.69	100	99	97	
2020	30	-24	105	229	95	101	292	10.5	102	170	14	103	138	31	107	206	0.16	101	1.6	104	1.07	105	99	102	
2021	35	-18	100	271	100	102	299	14.6	110	278	13	101	271	27	103	196	0.24	106	2.0	106	1.05	104	100	101	
2022	22	-21	102	198	104	103	198	14.3	109	198	14	103	198	28	104	83	0.29	110	2.8	110	1.15	105	102	101	
2023	28	-34	113	154	108	104	154	12.2	105	154	12	101	154	27	103	99	0.30	110	3.1	111	1.30	107	103	102	
2024	7	-30	110	7	157	116	7	13.1	107	7	14	103	7	39	114	11	0.27	108	3.7	114	1.23	107	114	110	

Sires

Sire		Selection Values (SV / Acc)								Calf Weight		Mother		Growth & Efficiency				Fertility				Frame		Carcass			Measured Progeny		
ID Name	Sire ID Dam ID	Genomic Parentage	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	Dress %	RMeat Yield	Marb-ling	Birth	Wean
			Breed average:								1.24	14.9	-0.13	0.4	23.3	19	92		9.4		-5.6	32.6	12	24				Grwth test	Dght/Calv.
			<75	75 - 125	>125																								
AJ 070042 07 42	HJ 990091 AJ 000020		98 78	91 45	87 46	110 20	89 60	79 50	85 42	76 48	1.17 85	10.0 101	0.18 51	-3.3 91	14.4 34	9 88	71 41	-13 39	4.1 45	23.3 65	-10.3 35	25.8 79	13 46	21 102	0.02 16	-1.0 16	-0.09 14	23	
DJW 080041 08 41	HBF 050064 DJW 020066		84 92	114 93	58 89	87 58	81 78	79 81	120 68	84 78	2.85 94	22.3 81	-1.29 86	-11.9 132	31.4 70	36 111	145 74	-51 56	-4.5 81	10.2 74	-2.5 57	28.4 92	-4 70	25 68	0.32 65	2.5 112	0.89 61	46 23	43 71
KSS 080009 08 09	CVF02022 CTR 030060		113 84	110 76	88 73	117 46	100 68	112 69	103 48	110 65	0.31 89	20.0 111	-0.15 63	-3.3 101	32.4 58	4 112	138 53	-36 39	10.0 58	-11.6 75	-4.8 46	25.7 84	13 59	38 103	0.44 40	3.0 119	1.62 37	24 6	1 14
KSS 090022 09 22	KSS 020017 KSS 050029		123 86	100 67	111 58	97 25	103 65	114 62	101 44	111 58	-0.11 91	14.9 116	-0.67 66	3.5 115	23.0 44	20 100	67 41	-7 42	15.8 45	-10.6 71	-7.2 39	21.0 85	-2 46	17 77	-0.10 20	0.4 85	0.80 18	44 4	5 6
KVS 050055 05 55	DJW 020020 KVS 020066		127 92	93 93	103 76	105 36	93 77	102 78	108 53	102 73	-1.39 96	11.3 132	0.82 77	1.3 74	29.3 58	13 108	162 72	-28 117	23.6 78	-11.2 85	-3.0 54	20.7 92	11 78	33 98	0.11 32	1.8 98	-0.13 29	105 7	66 8
KVS 110137 KVS110137	DO 070028 CTR 030068		124 83	105 88	86 73	92 41	107 66	111 72	99 24	107 62	-0.92 88	17.5 126	0.43 65	-3.8 85	25.6 48	28 103	83 30	-19 98	9.9 49	1.1 69	-11.5 41	25.9 87	13 40	26 102	0.25 44	1.7 107	1.48 40	19 8	35 23
VV 030133 03 133	HM 910019 AT 940014		96 78	96 75	101 64	103 28	66 58	78 63	107 32	80 57	1.64 82	12.6 95	-0.35 61	0.6 106	20.6 42	15 28	109 41	-23 104	12.8 44	9.6 59	1.4 48	16.7 67	8 44	16 94	0.09 24	-0.3 97	0.18 22	9 24	3 93

Bulls

Inbreeding in red is high

GEBV
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 Genomic Parentage	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	Marbling	Dres %	RMV				
Breed average:										1.24	14.9	-0.13	0.4	23.3	19	92		9.4	-3.3	-5.6	32.6	12	24	100	100	100	100	100					
Bull average:										1.25	100	15.1	100	-0.14	100	0.5	100	23.9	101	21	102	101	102	102	10.5	102	-2.6	99	-5.7	100			
			Shaded EBVi							90-110	>100	>100	>100	90-110	>100	>100	>100	>100	>100	>100	>100	90-110	90-110	>100	>100	>100	>100	>100	>100				
KTZ 150087		VV 030133	108	90	105	106	90	89	97	88	0.70	9.5	-0.24	1.7	14.4	12	60	-7	8.8	-7.6	-2.5	21.3	3	10	86	93	91	85	85				
KTZ15087		KTZ 120013	62	44	37	16	38	41	22	37	68	106	40	103	26	88	16	92	25	92	28	85	27	85	27	87	14	13	12	14	14		
KTZ 160021		VV 030133	95	93	105	109	81	84	96	83	1.54	11.3	-0.10	1.9	16.8	9	58	-7	8.8	1.5	-1.5	20.9	3	10	85	93	91	84	85				
KTZ16021		KTZ 120014	62	44	37	16	38	41	22	37	68	96	40	99	26	91	16	88	25	92	28	81	27	85	27	86	14	13	12	14	14		
KTZ 160088		VV 030133	97	94	99	106	87	85	98	85	1.36	11.6	-0.04	0.0	19.7	13	98	-17	12.3	-0.3	-3.5	21.9	10	19	96	96	93	95	93				
KTZ16088		KTZ 130006	50	41	36	16	35	37	21	34	53	99	36	98	24	95	16	93	25	101	37	96	27	97	27	96	14	13	12	14	14		

Cows

Inbreeding in red is high

GEBV
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 Name	% Inbreeding Genomic Parentage	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	Marbling	Dres %	RMV						
Breed average:										1.24	14.9	-0.13	0.4	23.3	19	92		9.4	-3.3	-5.6	32.6	12	24	100	100	100	100	100							
Cow average:										1.23	100	14.8	100	-0.12	100	0.4	100	23.0	100	19	99	89	99	99	8.9	99	-3.6	100	-5.6	100	11	99	23	99	
			<75	75 - 125	>125		Shaded EBVi					90-110	>100	>100	>100	90-110	>100	>100	>100	>100	>100	>100	>100	90-110	90-110	>100	>100	>100	>100	>100					
KTZ 100033 10 33	1	KVS 050055 KTZ 060017	117 67	87 53	104 47	107 25	108 47	99 49	95 32	96 46	-0.24 71	8.4 118 53 87	0.23 50	1.7 47 104	19.1 36	11 25	104 43 103	-11 17	93	19.5 47	-24.1 52 126	-5.0 33 97	22.9 56 85	11 47	24 99 46 101	96 18	98 17	96 16	95 18	95 18					
KTZ 110002 BOMVU KTZ110002 ET		DJW 080041 AJ 030028	102 58	101 55	75 52	95 31	86 50	84 49	108 40	86 47	1.45 59	15.7 97 55 101	-0.73 54	-6.9 117 52 75	24.7 42	25 31	119 106 43 107	-35 34	114	-2.1 46	11.2 54 82	-5.3 36 99	27.4 59 92	-2 42	18 77 41 95	96 37	104 35	101 34	97 36	101 36					
KTZ 120013 12 13		KSS 090022 KTZ 090013	123 68	82 46	108 37	109 17	113 48	101 45	87 28	96 42	-0.49 72	5.7 121 46 82	-0.13 51	2.8 100 37 108	7.5 30	9 17	12 88 30 80	9 24	77	4.9 32	-24.7 59 127	-6.4 27 104	25.9 57 90	-2 33	4 76 32 81	73 12	97 11	89 10	72 12	77 12					
KTZ 120014 12 14		KSS 090022 KTZ 090007	116 68	83 46	108 37	118 17	95 48	92 45	86 28	88 42	-0.15 72	6.2 117 46 83	0.18 52	2.7 91 37 108	8.1 30	2 17	7 81 30 79	9 24	76	4.8 33	-6.6 59 104	-4.3 27 94	25.1 57 88	-3 33	3 75 32 80	72 12	97 11	89 10	72 12	76 12					
KTZ 120015 12 15		KSS 090022 KTZ 090035	119 65	84 37	109 33	112 17	95 37	93 38	83 24	88 35	-0.28 71	6.6 118 37 84	0.07 42	3.0 95 33 109	10.7 26	6 17	12 85 23 80	11 23	75	5.5 25	-6.6 39 104	-5.6 22 100	18.3 50 78	-1 26	6 78 25 83	78 11	98 10	84 9	77 10	79 10					
KTZ 120017 12 17	1	KSS 090022 KTZ 060017	125 66	87 42	107 39	103 22	113 42	105 42	92 28	101 39	-0.39 71	8.3 120 42 87	-0.49 47	2.5 110 39 107	13.6 30	15 22	57 95 31 91	0 23	84	15.6 34	-23.8 46 126	-7.1 27 107	23.0 53 85	5 35	16 88 34 93	89 13	103 12	102 11	89 12	91 12					
KTZ 120018 12 18		KSS 090022 KTZ 090024	123 65	91 48	105 38	104 16	87 42	95 44	89 34	92 42	-0.18 70	10.1 117 48 91	-0.57 45	1.7 112 38 105	12.5 34	14 16	8 94 38 79	7 25	78	4.3 43	-0.3 46 96	-3.9 26 92	19.2 53 79	-5 44	7 72 42 84	74 12	99 11	93 10	74 12	81 12					
KTZ 120108 12 108		KSS 090022 AJ 030028	119 66	95 45	101 40	101 17	97 45	101 44	99 30	98 41	0.05 71	12.2 114 45 95	-0.42 47	0.8 108 40 101	20.8 32	17 17	80 97 29 97	-13 28	95	8.1 32	0.8 49 95	-7.7 29 110	23.7 57 86	-1 33	14 78 32 91	81 20	114 18	101 17	84 19	95 19					
KTZ 130001 13 01		KSS 090022 KTZ 040002	142 66	84 42	92 39	102 15	84 42	90 42	89 27	87 39	-1.55 71	6.7 134 42 84	-0.89 48	-1.9 121 39 92	7.5 29	17 15	30 97 25 85	-3 26	87	8.6 28	5.4 47 89	-4.3 25 94	20.1 54 81	-1 28	9 78 27 86	80 11	100 10	94 9	80 10	85 10					
KTZ 130002 13 02		KSS 090022 KTZ 070010	115 66	94 42	97 37	96 18	99 41	96 42	93 28	93 39	0.52 70	11.8 109 42 94	-0.76 48	-0.5 118 37 97	15.0 28	22 18	40 103 29 87	-4 25	88	11.3 32	-8.5 46 107	-5.1 24 98	25.2 53 88	-4 33	8 73 32 85	81 11	100 10	93 9	81 10	87 10					
KTZ 130005 13 05	9	AJ 070042 AJ 080036	95 63	92 32	88 33	108 12	109 41	89 36	85 25	85 34	1.37 69	10.8 98 32 92	0.19 40	-3.0 91 33 88	16.9 22	11 12	61 91 26 92	-13 22	95	0.2 28	2.5 45 93	-12.3 27 132	27.3 51 92	8 28	17 94 27 93	89 10	105 9	94 9	90 10	89 10					
KTZ 130006 13 06		AJ 070042 KTZ 110040	98 63	92 35	97 33	109 16	109 40	93 38	90 26	90 36	1.08 69	10.6 102 35 92	0.27 38	-0.6 89 33 97	18.7 24	10 16	87 90 30 99	-12 21	94	11.8 33	-10.1 45 109	-8.4 24 113	27.1 50 91	12 33	22 100 32 99	94 12	103 11	93 11	94 12	93 12					
KTZ 140009 KTZ14009		VV 030133 KTZ 060006	108 54	89 46	100 42	100 17	69 41	76 41	103 22	78 37	0.84 56	9.4 105 46 89	-0.44 46	0.3 109 42 100	15.1 30	18 17	88 99 26 99	-20 17	101	11.1 28	8.7 44 85	0.6 31 71	17.6 47 77	12 28	17 99 27 93	93 13	90 12	91 11	91 12	91 12					
KTZ 141001 KTZ141001		KSS 090022 AJ 000020	116 67	85 43	91 40	116 14	93 48	85 43	86 40	82 42	0.11 72	6.9 114 43 85	-0.22 49	-2.3 103 40 91	9.0 28	5 14	51 84 37 90	-9 40	91	6.0 41	4.1 53 91	-7.1 30 107	22.3 60 84	3 42	12 86 40 89	81 12	103 11	93 10	82 12	86 12					
KTZ 141006 KTZ141006		KSS 080009 KTZ 010001	109 55	99 49	83 48	110 29	82 44	88 45	93 37	86 43	0.84 57	14.6 105 49 99	-0.53 48	-4.7 111 48 83	21.2 39	10 29	72 89 39 95	-23 32	103	11.8 42	-2.4 48 99	-1.2 30 79	20.3 55 81	4 43	18 86 42 95	97 21	104 20	102 19	97 20	94 20					
KTZ 150010 KTZ15010		VV 030133 KTZ 060006	108 54	89 46	100 42	100 17	69 41	76 41	103 22	78 37	0.84 56	9.4 105 46 89	-0.44 46	0.3 109 42 100	15.1 30	18 17	88 99 26 99	-20 17	101	11.1 28	8.7 44 85	0.6 31 71	17.6 47 77	12 28	17 99 27 93	93 13	90 12	91 11	91 12	91 12					
KTZ 150071 KTZ15071		KVS 110137 KTZ 110003	113 51	103 52	80 45	94 26	98 42	98 44	103 23	97 40	0.27 53	16.6 112 52 103	-0.15 42	-5.3 101 45 80	25.2 32	27 102	101 26 108 26 102	-27 18	107	3.9 34	6.1 44 88	-8.4 27 113	28.8 54 94	5 29	22 89 26 98	102 30	105 27	105 26	102 28	103 28					
KTZ 150103 KTZ15103		VV 030133 KTZ 120020	109 62	94 43	99 37	104 15	91 38	93 40	100 22	92 36	0.79 68	12.0 105 43 94	-0.51 40	0.2 111 37 99	17.6 24	14 15	86 95 25 99	-16 18	97	13.1 28	-5.1 42 102	-3.6 28 90	23.3 45 85	6 28	18 91 27 94	93 14	97 13	94 12	92 14	94 14					
KTZ 160003 KTZ16003		KVS 110137 AJ 000020	108 66	90 52	79 46	112 21	95 48	83 48	84 36	79 46	0.33 71	9.7 111 52 90	0.31 48	-5.8 88 46 79	12.2 30	9 21	59 88 34 92	-15 34	97	3.1 42	9.9 52 83	-9.3 31 117	24.8 61 88	11 40	17 98 37 93	93 24	104 21	97 20	93 22	89 22					
KTZ 160005 KTZ16005		VV 030133 KTZ 060006	105 64	90 46	100 42	100 17	69 41	76 43	103 22	78 39	1.05 69	9.9 102 46 90	-0.45 46	0.3 109 42 100	15.7 30	18 17	88 99 26 99	-20 17	101	11.1 28	8.7 44 85	0.6 31 71	17.6 47 77	12 28	17 99 27 93	93 13	90 12	91 11	91 12	91 12					

Cows

Inbreeding in red is high

GEBV
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 Name	% Inbreeding Genomic Parentage	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										
Breed average:											1.24	14.9	-0.13	0.4	23.3	19	92		9.4	-3.3	-5.6	32.6	12	24	100	100	100	100	100										
Cow average:											1.23	100	14.8	100	-0.12	100	0.4	100	23.0	100	19	99	89	99	99	8.9	99	-3.6	100	-5.6	100	11	99	23	99				
Shaded EBVi											90-110	>100	>100	>100	>100	90-110	>100	>100	>100	>100	>100	>100	>100	>100	>100	90-110	90-110	>100	>100	>100	>100	>100	>100	>100	>100	>100			
KTZ 160010		VV 030133	93	94	98	105	86	83	92	82	1.58	11.9	0.05	-0.1	17.6	13	70	-7	9.5	5.0	-4.1	24.4	9	15	97	101	99	96	90										
KTZ16010		KTZ 120023	62	39	35	16	37	39	20	35	68	96	39	95	22	92	16	93	23	94	14	90	25	95	24	91	13	12	11	12	12								
KTZ 160020	1	KVS 110137	117	93	87	104	118	102			-0.30	11.1	0.27	-3.3	16.8	15	56	-14	1.1	-7.0	-12.7	30.7	6	15	93	103	103	94	91										
KTZ16020		AJ 110049	64	50	44	21	43	46			69	119	43	89	27	91	21	96	21	91	11	96	29	85	47	105	28	133	54	97	25	90	22	92	23	21	20	22	22
KTZ 160101		VV 030133	99	99	88	99	77	81	108	83	1.54	14.2	-0.54	-3.1	22.7	20	114	-29	5.4	10.4	-2.0	24.2	3	17	97	97	97	97	97										
KTZ16101		KTZ 110003	48	47	41	21	39	40	26	37	50	96	41	111	30	99	21	101	29	105	20	109	32	93	40	83	30	83	46	87	3	85	30	94	22	21	20	22	22
KTZ 170025		VV 030133	106	91	92	99	80	78	95	78	1.11	10.0	-0.60	-2.1	13.0	20	61	-12	9.8	1.6	-0.8	23.1	1	8	88	93	89	87	85										
KTZ17025		KTZ 070010	64	45	40	19	39	42	24	38	68	102	45	91	26	86	19	100	29	92	17	94	32	82	31	84	12	11	11	12	12	12	12	12	12	12			

Selection List on Cow Value

Bulls 2 years and older

ID Name Sorted on ID			Sire ID	Dam ID	% Inbreeding	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested				Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
											★★★★☆																
1	KTZ 150087	KTZ15087	VV 030133	KTZ 120013	0.1						108	62	90	44	105	37	106	16	90	38	89	41	97	22	88	37	
2	KTZ 160021	KTZ16021	VV 030133	KTZ 120014	0.1						95	62	93	44	105	37	109	16	81	38	84	41	96	22	83	37	
3	KTZ 160088	KTZ16088	VV 030133	KTZ 130006	0.1						97	50	94	41	99	36	106	16	87	35	85	37	98	21	85	34	

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	Polled HH: Horned, PcPc: Polled, PcH: Polled horn carrier	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
★★★★★														
1	KTZ 120013	12 13	KSS 090022	KTZ 090013	0.3	123 68	82 46	108 37	109 17	113 48	101 45	87 28	96 42	
2	KTZ 120017	12 17	KSS 090022	KTZ 060017	0.6	125 66	87 42	107 39	103 22	113 42	105 42	92 28	101 39	
3	KTZ 120108	12 108	KSS 090022	AJ 030028	0.2	119 66	95 45	101 40	101 17	97 45	101 44	99 30	98 41	
4	KTZ 160020	KTZ16020	KVS 110137	AJ 110049	0.5	117 64	93 50	87 44	104 21	118 43	102 46			
★★★★														
1	KTZ 100033	10 33	KVS 050055	KTZ 060017	0.8	117 67	87 53	104 47	107 25	108 47	99 49	95 32	96 46	
2	KTZ 120014	12 14	KSS 090022	KTZ 090007	0.3	116 68	83 46	108 37	118 17	95 48	92 45	86 28	88 42	
3	KTZ 120015	12 15	KSS 090022	KTZ 090035	0.2	119 65	84 37	109 33	112 17	95 37	93 38	83 24	88 35	
4	KTZ 120018	12 18	KSS 090022	KTZ 090024	0.2	123 65	91 48	105 38	104 16	87 42	95 44	89 34	92 42	
5	KTZ 130001	13 01	KSS 090022	KTZ 040002	0.3	142 66	84 42	92 39	102 15	84 42	90 42	89 27	87 39	
6	KTZ 130002	13 02	KSS 090022	KTZ 070010	0.0	115 66	94 42	97 37	96 18	99 41	96 42	93 28	93 39	
7	KTZ 130006	13 06	AJ 070042	KTZ 110040	0.2	98 63	92 35	97 33	109 16	109 40	93 38	90 26	90 36	
8	KTZ 150071	KTZ15071	KVS 110137	KTZ 110003	0.5	113 51	103 52	80 45	94 26	98 42	98 44	103 23	97 40	
9	KTZ 150103	KTZ15103	VV 030133	KTZ 120020	0.1	109 62	94 43	99 37	104 15	91 38	93 40	100 22	92 36	
★★★★★														
1	KTZ 110002	BOMVU KTZ110002 ET	DJW 080041	AJ 030028	0.4	102 58	101 55	75 52	95 31	86 50	84 49	108 40	86 47	
2	KTZ 130005	13 05	AJ 070042	AJ 080036	9.3	95 63	92 32	88 33	108 12	109 41	89 36	85 25	85 34	
3	KTZ 141001	KTZ141001	KSS 090022	AJ 000020	0.3	116 67	85 43	91 40	116 14	93 48	85 43	86 40	82 42	
4	KTZ 141006	KTZ141006	KSS 080009	KTZ 010001	0.1	109 55	99 49	83 48	110 29	82 44	88 45	93 37	86 43	
5	KTZ 160003	KTZ16003	KVS 110137	AJ 000020	0.4	108 66	90 52	79 46	112 21	95 48	83 48	84 36	79 46	
6	KTZ 160010	KTZ16010	VV 030133	KTZ 120023	0.1	93 62	94 39	98 35	105 16	86 37	83 39	92 20	82 35	
7	KTZ 160101	KTZ16101	VV 030133	KTZ 110003	0.2	99 48	99 47	88 41	99 21	77 39	81 40	108 26	83 37	
★★★														
1	KTZ 140009	KTZ14009	VV 030133	KTZ 060006	0.1	108 54	89 46	100 42	100 17	69 41	76 41	103 22	78 37	
2	KTZ 150010	KTZ15010	VV 030133	KTZ 060006	0.1	108 54	89 46	100 42	100 17	69 41	76 41	103 22	78 37	
3	KTZ 160005	KTZ16005	VV 030133	KTZ 060006	0.1	105 64	90 46	100 42	100 17	69 41	76 43	103 22	78 39	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Polled HH:Horned, PcPc:Polled, PcH: Polled horn carrier	Myostatin			Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc		
							nt821	Q204X	F94L	Genomic tested	★★★								
4	KTZ 170025	KTZ17025	VV 030133	KTZ 070010	0.1						106 64	91 45	92 40	99 19	80 39	78 42	95 24	78 38	

