

SUSSEX

BREEDING VALUE REPORT

July 2026



YIELD AGRI INVESTMENT

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The brand you need

 **LOGIX**



EBVs, EBVi's and GEBVs

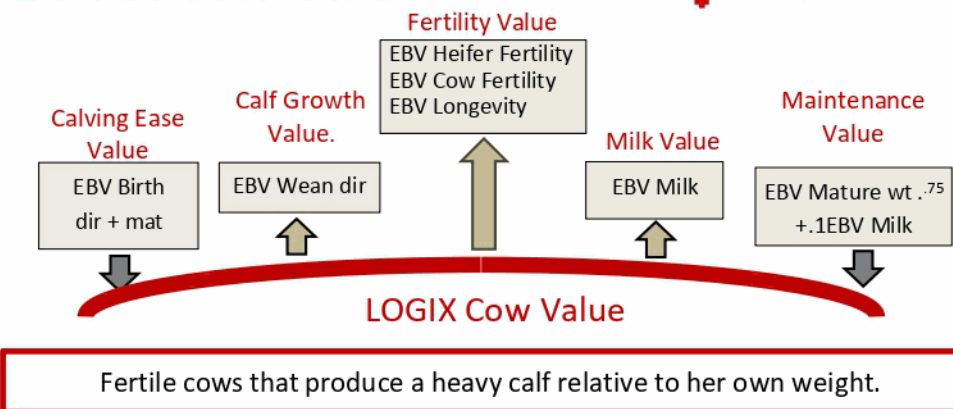
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

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.

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)

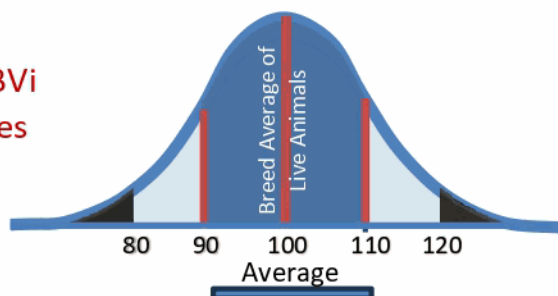
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

- Maintenance Value >110
 - Cow Value and Fertility Value average to high
- Lighter cows have a lower maintenance.

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

Contemporary Groups

The correct composition of contemporary groups is one of the cornerstones of BLUP breeding value estimation. Breeding values are estimated from the differences between animals exposed to the same environment, **as these differences are caused by genetics**. The following aspects are important:

1. Animals at the same time, place and treatment

A contemporary group is a comparable group of animals measured at the same time in the same environment. It is therefore a comparable group of animals that were together on the same farm or camp in the same year and season. If there are animals in the group that were treated differently, they should be given a separate treatment code because their performance is influenced by other environmental influences than the rest of the group. Examples of possible different treatments are when some animals received supplements or creep feed, sale or show animals, embryo donors, sick or foster calves or even purchased cows and calves. If bull and heifer calves or older cows and young heifers were in the same camp, they should be placed in the same group – corrections for sex, age and first calving of cows are automatically made during breeding value estimation.

2. Progeny of at least two sires, of which one is a link sire

The progeny of different sires needs to be compared in the same group in order to determine the sires' genetic merit relative to each other. At least one sire should be a link sire with progeny in other herds. Genetic links between herds are used to determine the position of sires in the breed. All sires are good link sires. Smaller herds could artificially inseminate some cows or allow some cows to be covered by another herd's bull.

3. Larger groups stabilise Breeding Values

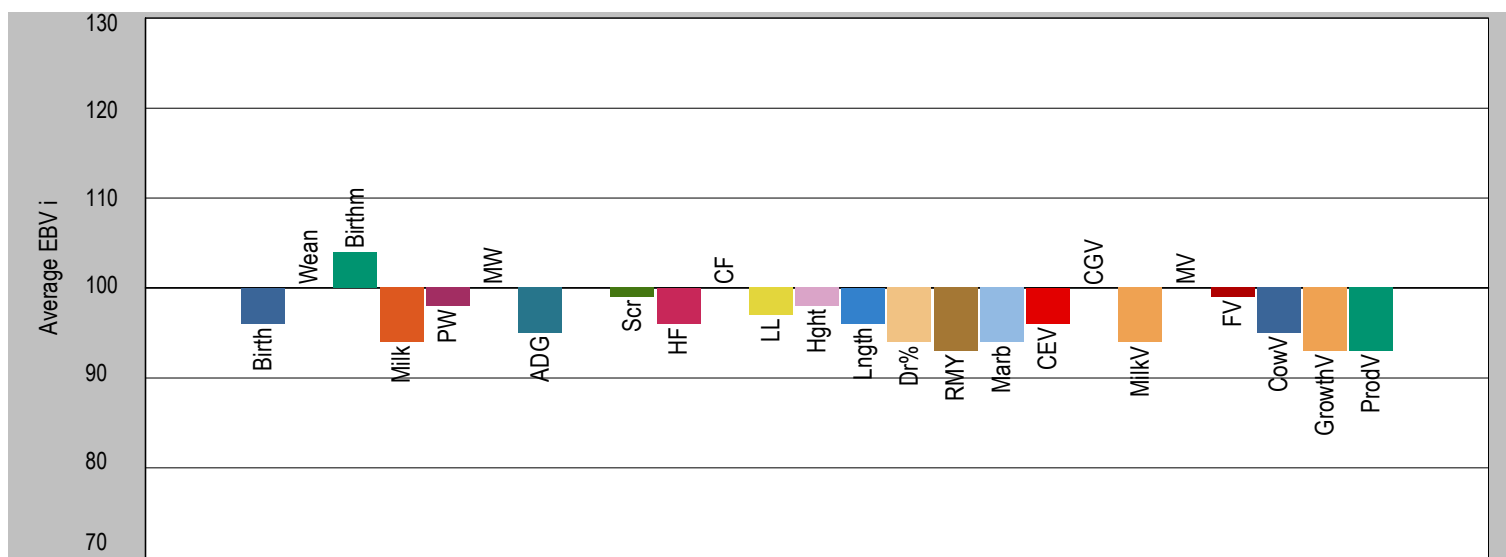
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for age differences are made during genetic evaluation. The use of breeding seasons rather than through the year calving will also increase contemporary group size. Groups with less than 3 animals are not included in breeding value estimation. An accidental mistake in a small group affects the animal itself, its family, all the other animals in the group and their families. The effect could be much less in large groups.

4. Measure all animals in the contemporary group

Weigh ALL the animals in the contemporary group, the good as well as the poor performers. Weigh animals before they are culled, so their parents can be penalized for their poor breeding.



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	RMY:	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	1.49	96	1.12
	Wean Weight	15.4	100	15.5
	Birth Mat.	0.26	104	0.44
	Milk (Wn.Mat.)	4.2	94	6.2
Postwean Growth	Postwean Wt	27.8	98	29.9
	Mature Weight	26	100	26
	ADG	85	95	113
	FCR			-90
Fertility	Scrotal Circumf.	13.1	99	13.8
	Heifer Fertility	1.6	96	-1.6
	Cow Fertility	-5.7	100	-5.8
	Longevity	22.5	97	24.5
Frame	Height	17	98	19
	Length	27	96	32
Carcass	Dressing%	-0.21	94	-0.05
	RedMeatYield	-1.6	93	0.4
	Marbling	-1.12	94	-0.60

Selection Value	Ave. Herd
Calving Ease	96
Calf Growth	100
Milk	94
Maintenance	100
Fertility	99
Cow Value	95
Growth Value	93
Production Value	93

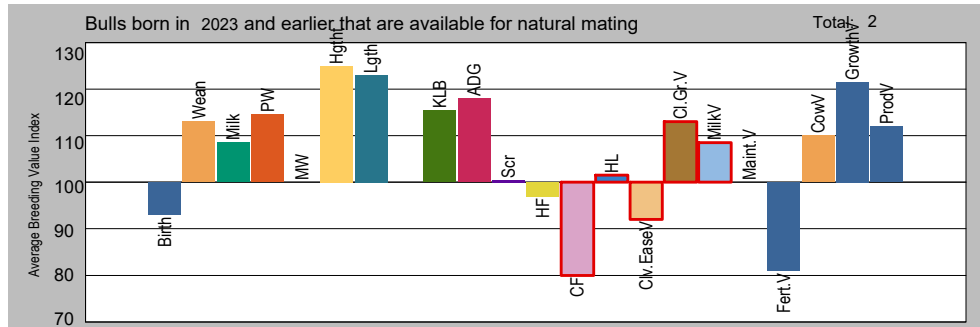
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

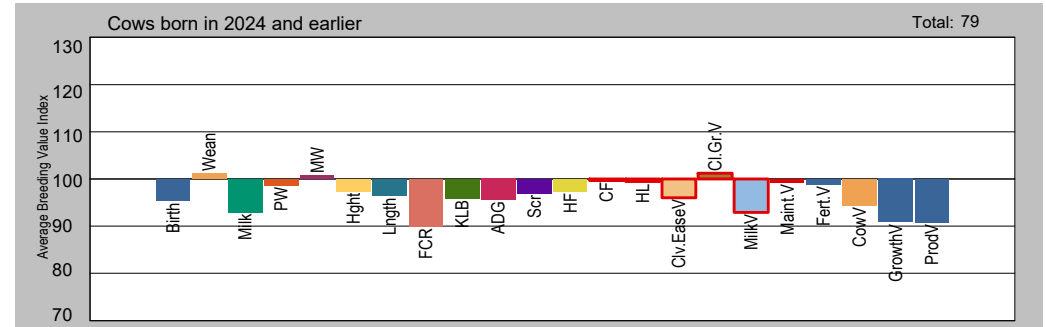
Genetic Windows

Bulls on the farm



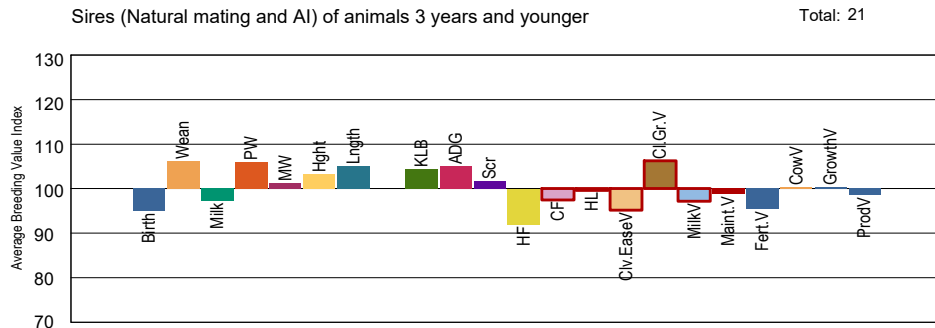
Animals available for breeding

Cow Herd

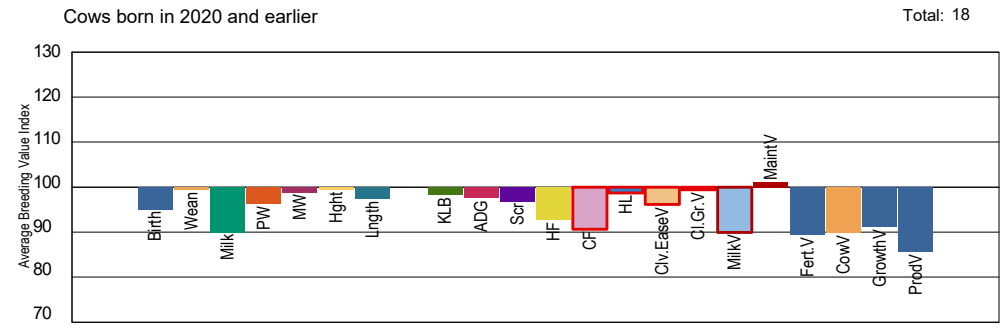


Results of previous selection decisions

Sires of young animals

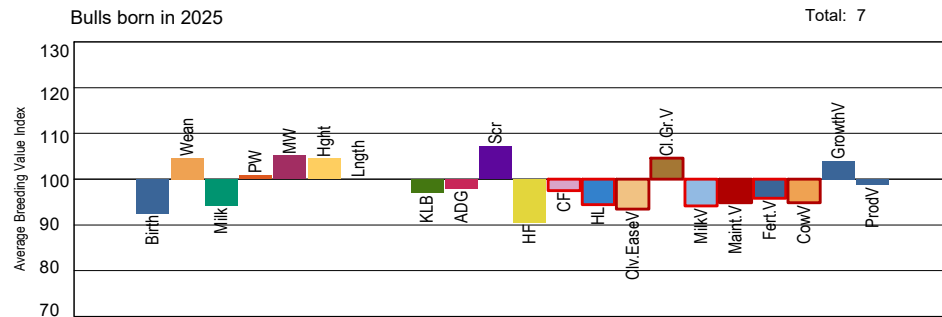


Cows older than 6 years

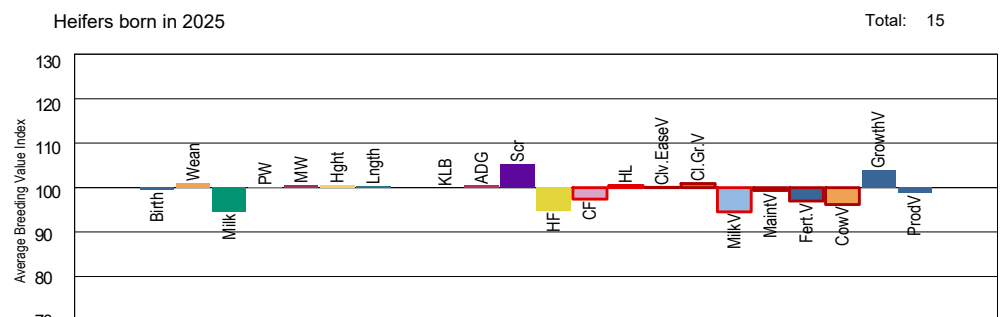


Selection possibilities

Bull calves



Heifer calves

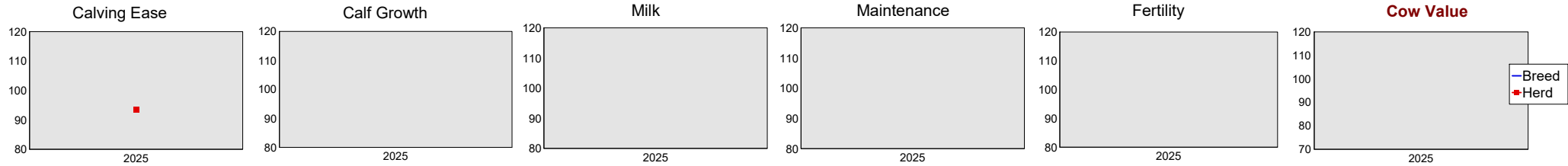


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertiity				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 Fertiity	Cow Fertiity	Longevity	Height	Length	
Cows in Breed Average:			100	100	100	100	100	100	99	99	100	100	100	100	100	100	99	99	99	99	100	100	100	99	99
2014	2	★★★★	90	104	95	92	91	90	100	91	91	104	100	95	103	109	109	111	103	85	95	95	100	101	
2015	3	★★★★	101	99	101	103	87	98	93	95	100	99	106	101	98	97	97	97	100	94	87	98	103	101	
2016	4	★★★☆☆	85	89	102	96	101	85	56	79	84	89	83	102	82	104	65	62	88	81	107	71	72	67	
2017	5	★★★☆☆	88	97	80	106	90	81	86	81	86	97	111	80	88	94	92	94	90	87	93	93	97	92	
2018	4	★★★☆☆	105	91	87	100	91	88	87	75	105	91	111	87	89	100	91	92	91	98	91	102	100	94	
2019	5	★★★★	91	105	96	100	87	95			92	105	101	96	103	100	102	102	100	93	88	99	99	101	
2020	4	★★★☆☆	107	87	91	94	113	84	100	89	105	87	111	91	84	106	81	79	100	94	116	91	89	89	
2021	13	★★★★	93	101	90	99	103	95	100	102	93	101	106	90	96	101	98	97	96	110	100	102	101	100	
2022	15	★★★★	100	99	93	97	108	94	86	93	98	99	111	93	96	103	90	89	96	102	108	96	95	93	
2023	16	★★★★	102	93	94	108	102	92	85	90	102	93	107	94	92	92	89	90	90	94	104	98	88	89	
2024	22	★★★★★	92	107	97	92	98	100	98	92	92	107	97	97	106	108	99	99	105	93	100	97	102	100	
2025	15	★★★★	100	101	95	99	97	96	104	99	99	101	106	95	100	101	101	100	105	95	97	101	101	100	
Cows in Herd Average:			96	98	93	99	97	92	90	90	96	98	104	93	95	101	93	93	97	94	99	95	96	94	

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.



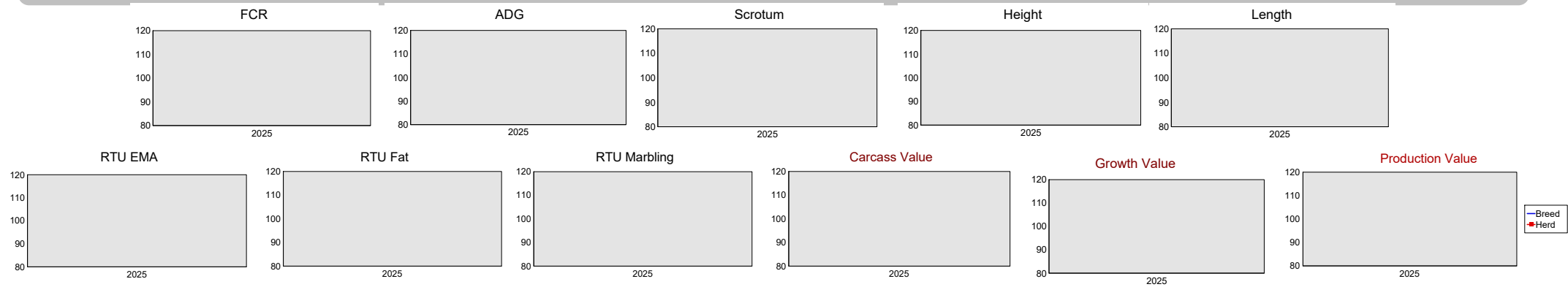
Herd

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		Mainte- nance	Heifer Fert.		Cow Fert.		Longevity			Ferti- lity
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		
2025	14	1.74	0.23	94																		

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	Milk	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	
2016	1955	1.03	0.38	101	1392	13.8	97	1392	4.58	95	1016	27.2	155	24	103	490	1.8	379	-4.2	2000	17.7	92	92	
2017	2176	1.03	0.42	101	1503	13.7	96	1503	4.87	96	1143	26.9	231	21	105	589	1.4	426	-4.4	2201	17.9	94	93	
2018	2150	1.02	0.34	101	1437	14.3	98	1437	4.38	94	1018	28.2	233	23	103	511	-0.1	388	-5.4	2142	17.3	97	93	
2019	2032	1.08	0.35	101	1356	14.5	98	1356	5.12	97	967	28.6	173	26	101	519	0.5	354	-5.1	2108	18.6	96	95	
2020	2209	1.12	0.42	100	1596	14.7	98	1596	5.10	97	1107	28.3	226	27	101	587	-0.8	402	-5.6	2250	18.6	98	95	
2021	2344	0.99	0.39	101	1733	15.1	99	1733	5.50	98	1384	29.5	217	25	101	696	-0.1	400	-5.4	2114	18.9	98	98	
2022	2141	1.10	0.39	100	1549	15.6	100	1549	5.71	99	1124	30.7	139	25	99	473	1.6	51	-6.4	446	19.6	98	98	
2023	2136	1.06	0.48	101	1637	15.5	100	1637	6.18	100	1214	30.0	10	24	100	119	2.7	1	-7.4			93	99	
2024	2176	1.09	0.46	100	1489	16.2	101	1488	6.15	100	982	31.8			99	15	-2.4					92	101	
2025	1999	0.91	0.48	102	1136	14.7	98	1136	5.81	99	106	35.0			98								100	
2026	371	1.02	0.59	101																				

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			
2025																									

Breed

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			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		EBV	EBVi	EBV	EBVi	EBV	EBVi			
2017	4	-123	113	264	120	101	263	11.8	96	264	18	98	264	30	98	51	-0.06	102	1.13	107	-0.29	104	102	97	92
2018	3	-124	113	218	128	103	218	14.1	101	218	19	100	218	33	101	39	0.53	107	1.02	106	-0.27	104	107	98	93
2019	10	-124	114	147	137	105	147	13.5	99	147	20	102	147	35	102	28	0.59	108	1.85	113	-0.10	106	111	100	94
2020	7	-123	113	182	123	102	182	14.3	101	182	18	99	182	32	100	49	-0.11	102	0.85	104	-0.45	102	100	98	93
2021	3	-120	112	253	126	103	253	14.1	101	253	19	101	253	35	103	27	0.66	108	0.42	101	-0.31	103	111	99	96
2022				221	146	106	221	13.9	100	221	22	104	221	38	105	48	0.93	111	1.23	107	0.05	108	109	103	99
2023				241	132	104	241	13.2	99	241	19	100	241	34	102	94	-0.29	100	0.18	99	-0.35	103	99	100	96
2024				154	147	106	166	13.7	100	132	20	102	132	37	104									103	98
2025																									
2026																									

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
	Name																												
AJS 170061	JRE 110095 AJS 140021	MINOR 2 DE	89	113	96	74	79	92	115	96	89	113	106	96	113	126	118		107	68	86	84	128	124	115	99	112	32	28
			89	89	58	37	39	55	35	51	92	89	58	58	41.4	52	210	64	17.0	24.2	-2.4	13.5	40	63	1.47	0.24	0.36	8	1 1
AJS 180041	JRE 160162 JRE 100026	STOCKMAN 1 ST	100	96	108	134	60	102	93	98	100	96	101	108	94	66	95		42	93	58	92	120	113				61	35
			90	88	54	26	30	49	38	47	93	88	58	54	24.7	-10	86	69	-14.2	3.8	4.4	19.1	34	49				15	1 1
AJS 200018	JRE 130156 AJS 160012	LEGACY 19TH	80	126	95	74	87	102	119	104	80	126	108	95	123	126	126		118	79	92	101	130	126	120	111	119	16	16
			86	86	58	35	36	53	34	49	88	86	57	58	49.8	52	253	60	22.8	15.9	-3.9	25.4	41	65	2.09	1.70	1.01	6	
CN 150033	CN 110061 CN 110039	DEXIRON 15033	83	136	76	55	131	105	134	110	82	136	138	76	129	145	131		129	93	136	97	146	145	131	100	107	50	27
			93	88	79	44	60	68	38	62	94	88	82	79	55.4	72	276	68	27.9	4.0	-14.3	22.2	53	89	3.43	0.33	0.02	3	11 27
CN 190064	CN 160023 CN 150073	TAIWAN	129	76	121	90	104	101	102	100	128	76	96	121	80	110	108		87	111	101	105	94	101	103	98	99	12	14
			82	80	55	17	34	47	34	44	-1.37	3.5	0.62	12.7	12.4	36	155	60	7.8	-10.9	-6.1	28.2	14	33	0.07	0.08	-0.66		
GMO 160047	MS 120012 GMO 100025	TIMMO	97	114	122	73	110	121			99	114	87	122	110	127	122		125	137	101	100	126	124				135	121
			94	93	75	15	60	62			95	93	83	75	38.7	54	231	23	25.8	-31.6	-5.9	24.3	38	62					16 19
GMO 170065	TL 120064 GMO 080069	JUMPER	92	124	92	76	99	107	132	111	91	124	105	92	123	124	128		122	98	99	101	122	121				12	12
			84	84	70	22	44	55	30	50	85	84	71	70	50.1	51	261	52	24.6	-0.2	-5.5	25.2	35	59				4	6 11
GMO 180009	NJB 150002 GMO 110008	SILVERMAN	103	89	109	112	87	97			105	89	81	109	96	88	97		87	72	94	90	91	94				104	51
			92	90	58	18	50	56			94	90	68	58	26.5	14	96	32	7.3	21.6	-4.3	17.4	12	24					1 1
JA 180004	NW 130055 JA 130036	TOPNOTCH DRAAD	114	104	96	96	88	104			111	104	119	96	105	104	110		114	99	87	102	107	108				109	76
			93	90	62	44	44	60			95	90	69	62	34.5	30	165	15	20.6	-0.8	-2.6	26.0	24	42					4 6
JA 210029	JA 180004 JA 140002	DRAAD 3DE	103	98	95	98	85	92			102	98	107	95	98	102				96	85	112						51	24
			85	82	50	25	27	45			88	82	51	50	28.5	27				1.4	-2.1	32.9							
JC 120046	GMO 060004 GA 050151	JC120046	94	98	78	117	71	79			94	98	100	78	97	83	104		92	88	72	71	101	96				54	46
			89	89	71	21	51	59			91	89	71	71	27.5	8	136	30	9.9	7.9	1.0	4.5	19	27					6 17

Sires

Bull			Selection Values								Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny	
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
	Name																												
JHB 210009		WAB 180030 JHB 180007	70	139	109	72	106	124			66	139	90	109	135	128	120		125	89	110	116	127	128				61	38
JHB 210009			71	70	43	17	28	40			4.17	34.9	0.84	9.0	60.1	55	219		25.9	7.0	-8.2	35.5	39	67					
JHB 210009											73	70	44	43	62	17	16		19	38	18	40	19	18					
JRE 120020		09-1018-P-C JRE 090085	92	123	99	104	88	117	118	116	91	123	110	99	122	96	126		126	79	93	90	140	127	124	123	120	36	30
SKIPPER 2ND			91	90	76	46	56	67	42	62	1.91	26.6	0.02	5.9	48.9	21	250		26.6	15.2	-4.2	17.5	49	66	2.58	3.06	1.05	13	7
SKIPPER 2ND											92	90	76	76	81	46	78		85	69	42	75	85	84	77	72	71	28	
JRE 120058		JRE 070087 JRE 060030	106	96	115	99	121	113	83	105	106	96	96	115	100	101	93		101	135	113	107	86	96	107	111	124	50	42
GOLIATH 11TH			91	88	83	56	60	71	38	64	0.58	13.5	0.60	10.9	29.6	26	77		14.3	-30.5	-8.9	29.5	9	27	0.55	1.69	1.41		
GOLIATH 11TH											91	88	85	83	78	56	69		76	71	50	77	76	74	65	59	58	14	52
JRE 120120		JRE 070010 JRE 060041	81	120	91	78	98	98	107	98	83	120	91	91	122	122	108	112	121	97	99	92	128	114	99	100	104	9	10
RAPID 14TH			85	84	75	49	53	64	46	60	2.66	25.5	0.82	3.4	48.7	48	155	-120	23.8	0.8	-5.4	18.9	40	50	-0.40	0.36	-0.23	1	6
RAPID 14TH											86	84	73	75	74	49	68	17	76	65	41	68	76	74	63	57	56	18	
JRE 130140		09-1020-C JRE 080072	89	93	107	93	63	81	104	84	91	93	86	107	92	107	109		108	84	64	89	146	118	77	131	104	5	5
CHIEF 4TH			79	77	58	34	39	52	35	49	1.94	12.0	1.03	8.2	23.1	32	158		17.9	11.7	2.9	16.7	53	54	-3.14	4.11	-0.26		
CHIEF 4TH											81	77	57	58	60	34	60		70	52	26	54	72	68	61	54	53	3	6
JRE 150046		MS 120029 JRE 110063	79	117	67	93	107	84	98	85	78	117	120	67	111	107	95		101	114	104	89	107	117	113	97	121	32	28
LION 1ST			88	87	68	24	50	58	35	53	3.10	23.8	-0.42	-4.1	39.1	32	88		14.4	-13.3	-6.7	17.1	24	54	1.28	-0.02	1.11		
LION 1ST											89	87	74	68	78	24	60		70	66	34	65	72	68	60	53	52	10	12
JRE 150053		JRE 110004 JRE 120093	105	84	57	104	109	61	93	65	102	84	126	57	78	96	94		105	87	113	92	89	91	114	101	110	60	54
RED 8TH			90	89	72	31	52	61	34	56	0.95	7.7	-0.69	-7.5	10.6	21	80		16.3	8.9	-9.0	19.1	11	21	1.38	0.44	0.25		
RED 8TH											91	89	74	72	69	31	60		69	65	38	68	71	68	59	53	51	11	16
JRE 160190		JRE 120119 JRE 090008	74	120	58	78	125	78	110	83	73	120	140	58	109	122	111		101	121	122	73	135	116	121	82	113	74	69
FLEET 16TH			93	93	71	49	51	65	41	60	3.50	25.1	-1.27	-7.1	37.5	48	170		14.3	-18.8	-10.9	6.0	45	52	2.13	-1.77	0.48	20	6
FLEET 16TH											95	93	72	71	86	49	77		83	64	38	72	83	81	64	59	58	14	
JRE 160194		JRE 130035 JRE 060056	109	99	111	108	70	106	89	101	109	99	94	111	104	92	92		97	103	66	110	75	94	105	99	111	20	20
ADMIRAL 14TH			87	85	65	34	46	57	33	52	0.30	14.9	0.70	9.5	33.2	17	70		12.3	-4.1	2.4	31.7	0	25	0.24	0.22	0.35		
ADMIRAL 14TH											89	85	67	65	74	34	60		66	63	30	64	67	65	42	38	38	7	4
JRE 180032		LJ 130316 JRE 140127	130	91	63	135	99	91	86	88	128	91	152	63	92	65	95		94	69	108	97	78	91	88	80	80	93	78
BRUTUS 2ND			94	94	74	43	54	66	43	61	-1.41	10.8	-1.79	-5.6	22.6	-11	84		10.8	23.7	-7.8	22.5	2	20	-1.74	-2.02	-2.24		
BRUTUS 2ND											95	94	77	74	86	43	81		86	72	36	68	85	83	70	64	63	23	14
JRE 180077		JRE 130173 JRE 130085	74	120	61	101	100	81	96	82	73	120	139	61	109	99	101		90	98	101	87	115	106	103	104	135	20	16
COLOSSAL 36TH			87	85	64	38	48	59	37	55	3.49	25.2	-1.23	-6.0	37.3	25	117		8.9	-0.2	-6.0	15.4	30	40	0.04	0.85	2.35		
COLOSSAL 36TH											89	85	69	64	74	38	66		74	63	33	64	75	73	63	58	56	1	3

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
	Name																												
JRE 190076		MS 160005 JRE 130188	77	117	101	86	105	103	129	108	79	117	87	101	115	114	120		103	111	102	95	115	117	121	109	138	31	28
CONCORD			88	89	54	29	34	51	39	49	2.99	24.1	1.02	6.5	42.7	40	220		15.4	-10.4	-6.3	21.2	30	53	2.13	1.38	2.58	9	1 1
JRE 190098		JRE 160004 JRE 130088	91	76	109	139	73	83	79	80	93	76	84	109	72	61	82		80	94	73	90	88	89	79	97	76	55	47
GRANITE 6TH			88	87	55	29	41	54	34	50	1.78	3.6	1.14	9.1	5.9	-15	17		4.0	3.6	0.8	17.9	10	18	-2.89	-0.06	-2.64		
JRE 190103		MS 160005 JRE 140142	83	109	107	92	95	101	120	104	86	109	80	107	112	108	119		124	102	94	99	114	118	123	110	141	35	29
SPARKLE 35TH			89	89	51	26	35	51	39	49	2.41	20.0	1.31	8.4	40.3	34	212		25.7	-3.3	-4.3	23.8	29	54	2.47	1.48	2.84	12	
JRE 200007		JRE 170124 JRE 170117	101	99	102	112	100	104	87	99	102	99	91	102	101	88	100		102	114	96	115	85	91	102	112	105	21	21
NICHOLAS 11TH			83	84	53	29	30	48	38	46	0.97	14.9	0.83	6.8	30.5	13	115		14.6	-13.0	-4.9	34.9	8	20	-0.08	1.73	-0.16	6	
JRE 210064		JRE 190066 JRE 170093	71	129	93	92	87	104	119	106	73	129	90	93	126	108	126		145	90	89	100	135	124	129	130	99	37	9
GRANITE 2ND			86	76	47	26	28	44	36	42	3.51	29.7	0.84	3.8	52.5	34	253		35.5	6.5	-3.2	24.7	45	62	3.15	3.98	-0.66	1	
JS 110024		CN 050115 GA 010113	111	89	94	104	85	88	84	85	109	89	111	94	91	96	89	88	82	89	87	75	110	97	95	95	98	50	18
COLVILLE			93	86	79	54	66	71	36	64	0.30	10.2	-0.05	4.3	22.4	22	55	-61	5.2	7.1	-2.6	7.6	27	28	-0.99	-0.30	-0.73		
JS 120031		CN 050115 JRE 030013	82	105	60	85	59	55	79	57	80	105	122	60	96	115	87		86	72	63	96	98	88	90	93	99	28	19
FORTIS 3			89	86	79	52	58	68	30	60	2.86	17.7	-0.49	-6.6	26.1	41	44		7.1	21.1	3.1	22.1	17	16	-1.52	-0.45	-0.71		
JS 160002		CN 120034 TL 070001	114	101	85	93	113	98	95	96	111	101	124	85	101	107	103		91	85	118	108	88	95	109	109	106	123	92
TREVOR			93	89	76	40	57	65	34	59	0.17	15.8	-0.61	1.6	30.7	33	129		9.3	10.9	-10.2	29.7	10	25	0.71	1.44	-0.06	9	
JS 180006		CN 150033 JS 150052	98	111	111	94	120	119	121	119	98	111	100	111	111	106	115		121	114	118	106	134	129	123	108	114	19	16
JS 180006			83	80	63	34	44	55	36	51	1.34	20.7	0.42	9.5	39.3	31	193		23.9	-12.9	-10.0	28.7	45	69	2.42	1.29	0.56	6	
JS 190015		JS 160002 JS 150039	108	104	89	96	113	102	89	98	106	104	119	89	106	104	97		76	113	111	111	79	87	106	110	106	24	22
VIGOREX			88	86	56	28	42	54	32	50	0.61	17.5	-0.40	2.7	35.0	30	98		2.1	-12.0	-8.4	31.9	3	15	0.35	1.53	-0.12	5	
JS 200026		JS 160002 JS 150005	93	108	93	87	108	97	90	94	92	108	111	93	105	113	100		97	88	112	108	82	93	108	98	107	13	14
JS 200026			79	73	55	30	38	49	25	44	1.83	19.4	-0.01	3.9	34.5	39	111		12.4	8.3	-8.7	30.0	5	23	0.59	0.14	-0.05	4	

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
	Name																												
MS 100028		TL 070118 MS 030015	90	93	50	120	50	50	82	53	88	93	120	50	90	80	82	74	72	88	49	86	81	78	84	94	105	98	86
BIGMAC			95	93	88	40	70	73	23	63	2.15	12.0	-0.42	-9.5	20.9	5	18	-25	0.4	8.3	6.6	15.1	5	4	-2.26	-0.43	-0.19	30	78
MS 190007		JRE 150046 MS 150012	78	107	87	103	102	88			79	107	96	87	104	97	96		96	112	99	90	100	106	105	98	111	25	20
LION 5			85	83	58	11	42	50			2.98	18.9	0.62	1.9	33.2	22	93		12.0	-11.5	-5.5	17.9	19	40	0.26	0.06	0.34	3	3
MS 210038		GMO 180009 MS 160003	90	105	104	109	93	104			91	105	91	104	108	91	98		92	84	97	96	93	95				12	9
FRONTRUNNER			81	78	48	11	33	43			1.91	18.1	0.80	7.5	36.8	16	101		10.2	11.5	-5.1	22.0	13	25					
NJB 150002		KC 100217 NJB 080034	103	98	115	101	89	107	110	106	104	98	87	115	103	99	101	93	96	86	92	80	97	105	110	101	107	56	54
NJB150002			91	91	76	37	56	65	44	61	0.80	14.7	0.99	11.0	32.8	25	118	-71	11.8	10.1	-3.8	11.0	17	38	0.87	0.45	-0.03	10	20
PSS 166077		PSS 122606 AJS 150018	129	104	88	78	108	105	104	103	126	104	143	88	106	122	114		98	90	111	95	115	109	102	100	90	38	24
ZUMA 2 ND			90	88	67	38	47	60	39	56	-1.19	17.3	-1.39	2.5	35.4	48	185		12.8	6.8	-8.5	20.8	30	44	-0.12	0.28	-1.42	8	6
PSS 166101		NJB 120047 PSS 100444	74	126	48	71	69	63	111	71	59	126	119	48	113	129	117	121	98	87	70	109	118	108	114	103	111	40	38
JORS 6TH			91	89	77	50	57	68	37	62	4.80	28.3	-0.38	-10.2	40.9	56	204	-143	12.9	9.2	1.5	30.8	33	42	1.36	0.75	0.28	18	24
SF 200011		TZ 160112 JS 170027	88	98	91	107	88	86			87	98	108	91	92	93	98		102	102	87	96	96	96				1	
MAGNUS 1ST			74	69	52	26	32	44			2.27	14.6	0.08	3.4	23.2	18	102		14.8	-3.4	-2.5	21.9	16	27					
SF 210024		JRE 170107 SF 180062	79	122	94	76	116	104	105	103	80	122	95	94	119	124	106		121	95	119	84	125	118	115	102	108	15	14
KINGSFORD 1ST			83	83	53	35	33	50	38	48	2.86	26.2	0.65	4.3	46.2	50	146		24.1	2.6	-10.4	13.7	38	55	1.41	0.60	0.11	4	
SF 220002		JRE 180035 SF 190072	98	110	102	92	113	111	87	104	98	110	104	102	112	108	94		119	90	117	88	103	102	97	87	88	2	
SUPERCEDE 1ST			74	69	48	27	30	43	34	41	1.33	20.4	0.26	6.8	39.9	34	80		23.0	6.4	-9.9	16.4	21	35	-0.71	-1.27	-1.59		
SF 220011		JRE 180035 JS 190030	116	97	100	97	110	105	92	101	114	97	107	100	102	103	97		94	98	112	108	81	93	102	101	102	1	
SUPERCEDE 4th			74	68	49	27	30	43	34	41	-0.13	13.8	0.14	6.2	31.8	29	96		11.1	0.4	-8.6	30.3	5	23	-0.06	0.47	-0.42		
TL 150071		TL 070054 TL 090017	107	94	117	102	100	110	93	105	108	94	86	117	97	98	102		84	120	94	94	94	97				52	42
TL15071			89	87	76	27	53	61	20	53	0.39	12.7	1.03	11.6	27.6	23	122		6.3	-17.8	-4.4	20.6	14	28				13	20

Sires

Bull			Selection Values								Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.	
																														Name
TZ 110010	GA 060129		96	104	98	100	79	95	115	98	96	104	98	98	105	100	118		106	66	86	97	95	102	105			8	7	
	TZ 040061		83	77	72	45	48	59	29	53	1.49	17.6	0.54	5.5	34.1	26	210		16.8	25.8	-2.5	22.5	15	35	0.31					
	MOUNTAINEER 45STE										84	77	72	72	66	45	54		58	59	38	67	59	57	8			3	16	
TZ 110068	GA 070027		75	115	73	79	110	81	96	82	77	115	99	73	112	121	99	96	97	99	111	91	93	96				11	12	
	TZ 040092		85	83	74	47	52	63	34	57	3.21	23.1	0.50	-2.3	40.1	47	105	-79	12.5	-1.0	-8.4	18.5	14	28						
	T-BONE 37STE										86	83	74	74	73	47	53	12	56	62	43	70	56	55				4	18	
TZ 150052	GA 120050		84	104	103	106	75	93	95	92	85	104	93	103	100	94	104	106	113	89	76	93	89	90				50	48	
	TZ 120040		91	91	80	20	58	63	38	58	2.46	17.2	0.73	7.1	29.9	19	136	-106	20.1	7.1	0.0	20.0	10	19						
	PLUTO 1STE										92	91	81	80	74	20	63	6	72	72	45	72	74	70				16	29	
TZ 160112	GA 120050		101	86	81	137	92	83	83	81	98	86	123	81	79	63	91		87	109	89	86	81	80				44	31	
	TZ 100011		91	89	78	54	57	69	38	63	1.27	8.5	-0.55	0.3	11.5	-13	67		7.7	-8.7	-3.1	14.7	5	7				1		
	PLUTO 17TH										92	89	79	78	76	54	68		76	71	43	72	77	74					13	22

Growth Tests

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Animal			Cow Value	Weight		Frame				Growth				Carcass			
Test Code	Sex	Test no		Wean dir	End-weight	Length	Height	Length/Height	Scrotum	Intake	ADG	FCR	Growth Value	EMA	Fat	Marbling	Carcass Value
Test station		ID	Sire ID Dam ID														
202401 D11 M		0715703SSX															
FAURZYL FARMING (PTY) LTD	TZ 230078	96350293	AJS 180041	106	116	129	131	108	61	112			114				
			TZ 170087	41	48 70	69 69	42 72	1.24 70	-5.1 71	176 61			35				

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
TZ 200057 91329136 TARZAN	2	GMO 170065 TZ 170121	101 88	120 87	106 54	87 14	78 33	115 47	129 34	118 44		101 1.04 91	98 0.54 53	113 39 14	120 25.4 87	106 8.1 54	115 109 52	123 50.1 63	124 238 59		140 33.1 69	91 6.0 40	78 -0.5 26	104 27.2 51	119 33 71	117 54 67			
TZ 230078 96350293 TZ230078		AJS 180041 TZ 170087	83 74	106 73	111 49	113 16	84 27	105 41	114 35	106 40		85 2.47 76	86 1.04 49	87 12 16	106 18.6 73	111 9.7 49	119 119 46	106 35.3 58	112 176 61		61 -5.1 71	103 -4.2 36	82 -1.4 18	99 24.1 44	131 42 72	129 69 69			
YS 250015 99472508 YS 250015	1	SF 220002 SF 221400	72 69	121 48	89 32	85 17	102 22	95 30			97 14	72 3.64 72	101 0.41 35	115 41 17	121 25.6 48	89 2.8 32	102 78 32	115 42.5 38	93 78 32		112 19.7 38	85 10.5 31	107 -7.4 12	90 17.7 28	104 22 39	100 32 37	94 -1.00 15	85 -1.53 13	87 -1.64 12
YS 250016 99476731 YS 250016		SF 200011 SF 160225	84 67	99 38	104 35	94 15	100 18	91 26				84 2.51 69	98 0.51 37	106 32 15	99 14.8 38	104 7.3 35	100 74 29	91 22.4 25	82 16 17		105 16.4 19	87 8.6 24	104 -6.7 11	86 15.2 29	92 13 20	90 20 19			
YS 250024 99210841 YS 250024	3	JS 160002 JS 170039	99 73	107 59	82 54	91 28	92 36	89 44	96 21	89 39	102 16	96 1.45 75	120 -0.41 55	109 35 28	107 18.7 59	82 0.5 54	88 48 47	103 32.7 50	101 119 38		96 12.1 43	76 17.6 45	98 -5.2 28	106 29.0 47	96 15 41	98 30 40	101 -0.16 18	103 0.73 13	104 -0.23 12
YS 250027 99467508 YS 250027	25	JS 160002 JS 200045	111 70	93 46	94 35	90 5						107 0.46 72	128 -0.75 41	110 36 5	93 11.9 46	94 4.2 35	87 44 29	87 18.9 26			94 11.1 11	74 19.5 12		108 29.9 27					
YS 250029 99467516 YS 250029	2	JRE 210064 JS 150031	81 73	117 54	94 45	104 22	85 26	101 36	105 21	101 33	110 12	82 2.75 75	100 0.43 46	96 22 22	117 24.0 54	94 4.3 45	110 98 40	115 42.6 42	111 170 36		120 23.7 42	93 4.1 35	86 -2.3 18	94 20.4 38	118 33 42	111 45 40	113 1.26 14	114 2.04 10	99 -0.65 9
YS 250033 99467524 YS 250033	3	JRE 210064 JS 150052	97 72	107 54	107 45	102 23	92 26	108 37	106 23	106 34	113 18	97 1.35 74	94 0.71 45	98 24 23	107 18.7 54	107 8.4 45	111 101 41	107 36.2 42	111 172 40		122 24.3 46	101 -2.8 34	91 -3.5 17	105 28.1 38	121 35 46	114 49 44	120 2.12 21	121 2.84 16	109 0.12 15
YS 250147 6020382989 CHAMPION		MS 210018	110 38	88 37	89 28	98 8	104 22	85 24				110 0.27 39	94 0.68 32	102 28 8	88 9.7 37	89 2.7 28	82 34 24	88 19.8 34	89 56 8		101 14.6 10	118 -16.4 30	99 -5.5 15	72 5.1 27	96 16 10	87 16 9			

Breeding Values and Accuracies: Cows

Green: >120 High
White: 80-120 Average
Orange: <80 Low

Inbreeding in red is high										Value <80		Value >120		Breeding values with an accuracy < 5% are not printed															
Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
JS 140015	1	TZ 110010 JS 110033	96 81	96 79	97 81	117 48	75 46	91 61	100 27	91 54	103 26	97 1.42 81	96 0.62 80	83 8 48	96 13.4 79	97 5.1 81	101 78 69	96 26.6 63	110 168 47		107 17.2 53	73 20.4 57	81 -1.1 36	100 24.9 60	97 17 54	97 28 52	97 -0.69 29	113 1.95 24	107 -0.03 24
JS 140048	3	TZ 110068 GA 060147	84 83	112 78	92 79	66 43	107 46	89 59				84 2.56 83	103 0.29 80	134 61 43	112 21.2 78	92 3.7 79	91 54 67	109 37.5 58	107 148 33		98 13.0 36	96 1.7 57	109 -7.8 35	90 17.5 61	103 21 37	104 37 35			
JS 150017	1	JS 120031 AJS 120016	83 79	111 76	83 71	82 31	82 44	82 54	95 21	83 47	101 24	83 2.68 80	111 -0.04 71	118 44 31	111 21.0 76	83 0.8 71	90 51 59	105 34.3 61	101 117 37		106 16.6 43	74 19.2 54	88 -3.0 35	96 21.9 59	100 19 44	101 33 42	102 -0.04 26	91 -0.73 21	100 -0.63 20
JS 150031	1	JS 110024 JY 060078	112 83	92 77	103 77	115 42	82 51	100 61	91 23	96 53	95 14	110 0.20 83	109 0.05 80	85 10 42	92 11.5 77	103 7.2 77	102 80 65	94 24.4 62	95 87 40		96 11.9 46	96 1.8 61	82 -1.4 41	88 16.1 62	101 20 47	97 28 45	97 -0.63 15	98 0.11 13	100 -0.63 13
JS 150052	2	JRE 120058 JS 110026	109 82	94 78	117 77	111 45	96 50	111 61	94 30	106 55	101 38	108 0.39 82	97 0.54 78	89 14 45	94 12.3 78	117 11.4 77	113 105 67	95 25.5 62	96 91 53		98 13.1 59	113 -12.1 60	92 -3.8 39	110 31.5 61	107 24 60	104 36 58	112 1.09 40	111 1.70 36	118 0.89 35
SF 160033		SF 130164	116 64	80 56	97 70	96 18	104 37	85 44	68 23	79 40	81 28	115 -0.25 64	97 0.58 70	104 30 18	80 5.8 56	97 5.3 70	82 33 48	82 14.8 26	79 4 38		105 16.4 46	83 12.4 45	110 -8.1 29	62 -1.3 48	86 9 48	77 3 45	79 -2.79 30	84 -1.55 26	75 -2.65 25
SF 160054			68 64	99 49	106 64		97 16					58 4.86 63	58 2.25 70		99 14.9 49	106 8.1 64	105 86 38	88 19.9 14			79 15.7 23	103 -6.5 8	72 5.6 46						
SF 160061			81 59	90 33	107 45							83 2.62 58	87 1.00 65		90 10.6 33	107 8.5 45	95 63 26	81 13.9 28					72 5.0 45						
SF 160110			75 63	88 49	98 64				43 23		62 28	78 3.13 62	89 0.91 69		88 9.7 49	98 5.4 64	87 44 38	76 9.4 20	50 -152 38		70 -0.9 46			77 8.9 45	57 -13 48	57 -22 45	56 -5.64 30	58 -4.75 26	61 -3.87 25
JS 170003	2	JS 120031 JRE 040120	103 80	86 71	75 76	113 37	84 50	70 57	76 22	68 50	82 27	100 1.13 80	121 -0.48 75	87 12 37	86 8.4 71	75 -1.8 76	74 14 61	77 10.2 57	83 23 41		64 -3.6 45	103 -3.8 58	82 -1.4 41	109 30.8 61	81 5 45	79 6 43	88 -1.79 29	84 -1.57 25	101 -0.53 24
JS 170039	1	JS 120031 PKB 050314	73 82	125 77	72 77	90 43	71 48	83 60	96 28	84 54	101 27	64 4.31 82	116 -0.25 76	110 36 43	125 27.6 77	72 -2.7 77	93 60 66	114 42.0 66	99 110 49		102 15.0 56	68 24.4 58	77 -0.3 39	105 28.2 59	103 21 55	102 34 53	94 -1.02 29	97 0.01 25	102 -0.39 24
MS 170029	1	JC 120046 MS 130004	90 79	95 77	78 74	116 10	85 46	76 52				90 2.00 80	104 0.27 71	84 9 10	95 12.9 77	78 -0.9 74	84 39 54	90 21.1 64	96 93 14		87 7.4 16	95 2.5 57	85 -2.2 34	85 14.1 54	92 13 15	90 19 14			

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass				
Index EBV Acc	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
SF 170093 90498288 SF 170093				80 61	79 57	81 72	103 21	112 16					81 2.81 60	99 0.50 67	97 23 21	79 5.2 57	81 0.3 72	71 7 50		66 0.8 38			88 8.5 23	116 -9.7 8	81 11.6 40						
SF 170149 90498320 EVERLY 1ST		JRE 120020 SF 110020		95 77	99 74	92 70	109 34	99 44	93 54	86 30	90 49	89 44	93 1.71 78	114 -0.17 70	91 16 34	99 14.8 74	92 3.6 70	97 67 59		91 22.4 54	89 56 54		105 16.1 61	79 15.8 53	105 -7.1 34	84 13.8 54	111 27 62	96 27 60	83 -2.35 45	86 -1.35 42	75 -2.66 41
JS 180016 87389581 JS 180016	2	CN 150033 JS 150062		111 80	93 78	58 76	91 44	97 46	67 59	94 29	70 53	91 28	109 0.28 81	147 -1.60 73	109 35 44	93 12.0 78	58 -7.0 76	60 -16 66		88 19.2 62	91 67 51		78 3.4 58	99 -0.6 56	98 -5.2 37	100 24.4 56	96 16 58	90 19 55	94 -1.00 31	95 -0.25 26	104 -0.25 25
LP 180043 87988630 LP180043	2	TL 150071 LP 120001		111 80	94 74	114 72	109 24	121 46	115 53				111 0.13 80	93 0.75 75	91 17 24	94 12.3 74	114 10.7 72	110 98 57		98 28.4 58	100 114 21		93 10.4 24	121 -18.8 56	117 -9.8 36	112 32.9 56	95 15 24	99 31 23			
MS 180002 89074322 BIGMAC 2	17	MS 100028 MS 110057		91 81	98 74	65 68		57 47					90 1.98 81	111 -0.05 75		98 14.3 74	65 -4.9 68	75 17 49		94 24.4 68			95 2.3 62	55 5.1 32	100 24.3 59						
SF 180125 90498577 HARPER 1ST		JRE 130140 SF 100140		108 76	77 74	109 75	99 43	88 43	82 57	79 23	79 50	84 38	108 0.44 77	94 0.68 70	101 27 43	77 3.9 74	109 9.0 75	89 49 64		74 7.8 48	81 10 39		103 15.5 47	78 16.1 53	93 -4.0 33	94 20.4 50	109 26 48	94 24 45	67 -4.34 40	96 -0.19 35	89 -1.54 34
GMO 190012 88658562 CHIME	3	TZ 150052 GMO 110035		94 77	111 75	126 69	93 10	85 46	119 50				96 1.45 78	80 1.31 70	107 33 10	111 20.7 75	126 14.4 69	125 132 51		116 43.7 52	111 170 33		112 19.7 38	78 16.4 59	90 -3.3 34	107 29.5 54	104 22 39	104 37 37			
GMO 190027 90076118 ASPEN	2	TZ 150052 GMO 150043		89 78	97 74	94 64	116 12	85 46	89 50				90 2.04 79	94 0.71 69	84 9 12	97 14.1 74	94 4.2 64	99 74 50		96 26.4 54	96 91 32		95 11.3 37	104 -4.7 57	83 -1.7 34	99 24.2 54	87 9 38	86 14 36			
GMO 190053 92125137 DOVE	2	NJB 150002 GMO 090052		97 78	102 66	96 69	105 15	100 46	99 49				97 1.38 79	99 0.48 69	95 20 15	102 16.7 66	96 4.8 69	101 76 50		102 31.2 50	96 89 31		84 6.3 37	100 -1.5 57	100 -5.7 34	92 19.3 54	92 13 37	95 26 35			
MS 190019 89357511 LION 13	3	JRE 150046 MS 140046		85 78	110 73	66 60	86 8	79 42	71 47			111 22	83 2.60 79	129 -0.82 68	114 40 8	110 20.4 73	66 -4.5 60	78 23 47		98 28.0 65	105 141 28		110 18.5 34	91 5.8 56	80 -0.9 28	99 23.8 50	112 28 35	117 54 33	115 1.41 24	100 0.35 19	115 0.69 18
GMO 200033 92226943 SILKY	2	JRE 150053 GMO 100062		100 77	97 74	82 63	101 16	115 43	89 49	100 20	89 43	102 24	98 1.27 78	111 -0.02 65	99 24 16	97 14.2 74	82 0.5 63	85 40 51		95 25.5 52	103 126 34		108 17.8 39	105 -5.8 55	115 -9.3 31	107 29.3 52	100 19 38	101 34 36	112 1.15 26	101 0.47 21	111 0.33 21
JS 200045 95667143 JS 200045		JS 160002		95 60	93 50	98 52	87 20	116 28				84 16	93 1.76 60	131 -0.91 59	113 39 20	93 11.8 50	98 5.4 52	88 48 41		79 11.8 38	76 -12 31		98 12.8 34	64 28.2 34	128 -12.6 23	108 30.1 45	83 6 33	92 21 32	78 -2.97 17	65 -3.93 15	69 -3.21 14

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass				
Index EBV Acc	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																															
SF 200113 93747863 LILIBET 1ST		SF 130148		121 46	74 68	87 59	90 21	107 31	73 43			70 27	119 -0.57 46	103 0.29 52	110 35 21	74 2.5 68	87 2.1 59	68 1 49	74 7.6 42	65 -73 27			94 10.8 34	102 -3.1 46	107 -7.4 16	77 8.9 38	83 6 35	73 -3 32	64 -4.71 29	81 -1.98 25	70 -3.12 24
SF 200276 93749745 SF 200276		SF 110024		112 48	85 67	97 60	98 21	114 31	91 43				111 0.12 48	98 0.51 54	102 28 21	85 8.2 67	97 5.2 60	86 43 49	86 18.0 43					105 -5.5 46	113 -9.0 16	70 3.7 38					
JS 210012 92372531 JS 210012	3	JS 160002 JS 160019		96 77	101 72	61 62	93 27	94 42	69 51			89 8	93 1.72 78	130 -0.87 65	107 32 27	101 15.9 72	61 -6.1 62	69 3 54	95 25.2 52	90 57 34			74 1.3 38	88 8.3 55	97 -4.9 30	104 27.2 50	86 8 37	84 12 36	92 -1.24 11		
JS 210016 92378389 JS 210016	3	JS 180006 JS 170051		88 74	112 69	102 58	102 32	97 36	107 48	108 21	106 43	114 16	89 2.06 75	91 0.83 57	98 24 32	112 21.2 69	102 6.9 58	111 101 53	111 39.8 50	111 170 38			109 18.2 43	95 2.3 52	98 -5.3 19	105 28.2 46	126 38 44	118 54 42	114 1.36 17	118 2.54 14	100 -0.64 13
JS 210021 92393644 JS 210021	9	JS 180006 JS 160043		98 73	102 58	99 55	91 28	111 32	100 42	100 21	98 38		97 1.35 75	103 0.30 55	109 34 28	102 16.3 58	99 5.9 55	98 69 47	100 30.2 40	102 124 35			105 16.3 41	109 -9.3 51	109 -7.9 13	106 28.8 44	108 25 42	108 41 40			
JS 210033 92850478 JS 210033	1	JS 180006 JS 140053		81 74	109 71	114 59	86 29	107 36	106 48	105 20	104 42		84 2.53 75	75 1.49 58	114 40 29	109 19.8 71	114 10.5 59	112 102 53	109 37.5 51	103 130 36			106 16.6 41	102 -3.5 52	107 -7.4 21	107 29.1 45	111 28 40	111 46 39			
JS 210035 92850494 JS 210035	1	JS 160002 JS 160004		109 77	94 71	96 62	113 34	124 44	105 52	87 22	99 46	95 22	107 0.47 78	111 -0.03 66	87 12 34	94 12.7 71	96 4.8 62	97 69 56	94 24.9 54	97 95 39			81 4.5 44	109 -8.9 56	124 -11.5 32	110 31.5 51	83 6 41	90 20 40	104 0.11 23	102 0.52 20	110 0.24 19
JS 210036 92850502 JS 210036	1	JS 180006 JS 170012		97 75	99 70	101 57	124 33	109 38	107 49				97 1.42 76	99 0.49 62	76 1 33	99 15.1 70	101 6.6 57	111 100 53	98 28.5 48	97 97 34			96 11.9 39	109 -8.7 52	108 -7.6 23	104 27.3 44	105 23 39	103 35 38			
MS 210005 93035392 LIONESS	4	MS 190007 MS 180002		83 74	102 60	76 56		83 36					84 2.58 75	101 0.38 57		102 16.5 60	76 -1.5 56		98 28.4 52					110 -9.6 54	78 -0.5 17	100 24.5 45					
MS 210008 93035087 LIFE	4	MS 190007 MS 180017		74 74	108 69	71 46		98 36					75 3.38 75	106 0.19 57		108 19.3 69	71 -3.1 46		102 31.9 50				87 7.6 12	117 -15.6 54	93 -4.1 17	102 26.2 44	92 13 13	95 25 11			
MS 210018 93035186 TRISH	2	GMO 160047 MS 110051		96 77	98 73	91 57	93 15	106 44	89 48				95 1.53 78	104 0.27 64	107 33 15	98 14.4 73	91 3.3 57	89 50 48	89 20.5 67	106 142 17			103 15.3 19	126 -22.7 59	99 -5.5 30	100 24.4 54	106 24 19	104 37 18			
MS 210058 93342095 TINA	3	GMO 160047 MS 130016		100 77	100 75	110 61	86 10	91 42	100 48				100 1.11 78	100 0.43 63	114 40 10	100 15.4 75	110 9.4 61	102 80 49	94 24.9 68	110 164 10			106 16.9 13	119 -17.4 59	85 -2.1 25	98 22.9 51	113 28 13	110 45 12			

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
MS 210076 93342723 TOSLE		GMO 160047 MS 150055	113 76	83 72	94 61	95 7	121 41	89 46				110 0.24 77	119 -0.36 65	105 31 7	83 7.3 72	94 4.4 61	82 33 47		72 5.9 64	79 2 11		96 11.9 13	128 -24.1 55	115 -9.4 27	102 25.8 47	89 10 13	85 13 13			
MS 210088 93342954 TOSCA	3	GMO 160047 MS 140055	98 76	105 73	88 54	95 8	92 42	92 46				97 1.40 77	114 -0.16 63	105 30 8	105 17.7 73	88 2.4 54	93 58 45		95 25.6 67	104 131 8		97 12.6 12	126 -23.2 59	84 -1.8 24	99 23.9 50	103 21 13	102 34 11			
SF 210930 97434849 SF 210930		JRE 180077 SF 130104	80 71	103 68	69 55	110 30	104 34	76 46			81 30	78 3.11 73	126 -0.69 52	90 15 30	103 16.9 68	69 -3.8 55	81 32 51		90 21.4 37	75 -18 33		88 8.2 37	88 8.0 52	108 -7.7 16	89 17.2 42	91 12 38	85 14 36	78 -2.99 32	81 -1.96 29	97 -0.83 28
JS 220003 94342862 VIGOREX DIANA 4TH	15	CN 190064 CN 190072	119 56	88 69	120 38							119 -0.59 57	89 0.91 38		88 9.7 69	120 12.4 38			94 24.5 55	111 169 30		89 8.5 38	101 -2.7 12		105 27.8 26	103 21 39	105 38 36			
JS 220023 94342961 JS 220023	2	JS 160002 JS 190001	94 74	117 70	88 52	105 26	108 36	109 46	97 21	105 41	107 22	93 1.73 76	108 0.07 55	95 21 26	117 23.9 70	88 2.3 52	106 88 49		118 45.4 59	105 139 37		97 12.4 41	98 -0.2 43	109 -8.0 28	112 32.6 50	101 19 41	101 33 39	109 0.73 23	116 2.31 20	97 -0.85 20
JS 220030 94343019 JS 220030	1	JS 160002 JS 160010	110 76	96 71	89 54	100 31	113 38	96 48	86 20	92 42	94 18	107 0.46 77	115 -0.20 62	100 26 31	96 13.4 71	89 2.7 54	89 48 52		97 27.0 58	93 76 36		83 5.8 39	109 -8.8 47	112 -8.6 29	112 32.9 49	83 6 39	88 17 37	101 -0.22 20	107 1.14 17	109 0.18 16
JS 220036 94343043 JS 220036	1	JS 160002 JS 170027	98 71	107 70	97 51	87 24	99 32	99 44				97 1.38 73	108 0.07 51	113 39 24	107 19.0 70	97 5.1 51	98 71 48		106 35.1 57	102 124 31		101 14.5 35	89 7.1 41	102 -6.2 23	109 30.6 48	98 17 34	101 33 32			
SF 220022 94186772 SF 220022	3	JRE 180032 JS 190033	121 76	92 57	67 52	112 27	98 38	82 44	85 23	80 40	92 31	118 -0.51 77	143 -1.41 60	88 14 27	92 11.3 57	67 -4.3 52	71 9 45		91 21.8 50	94 79 43		88 8.2 47	72 21.2 55	106 -7.2 22	105 28.0 47	82 5 46	89 19 45	94 -1.05 33	94 -0.45 29	94 -1.11 28
SF 220037 94186681 SF 220037		JS 190015 SF 190138	107 71	100 68	109 36	90 14	129 32	112 39			88 22	106 0.54 73	104 0.27 52	110 36 14	100 15.3 68	109 8.9 36	103 81 39		101 30.7 58	83 23 29		94 11.1 32	122 -19.4 50	125 -11.8 15	95 21.4 38	85 7 31	88 16 30	88 -1.79 23	86 -1.39 20	85 -1.89 19
SF 220100 94204732 SF 220100	2	JRE 160194 SF 150030	104 75	102 71	102 51	101 21	109 38	107 46	82 21	100 41	89 28	103 0.87 76	106 0.17 58	99 24 21	102 16.6 71	102 6.7 51	104 83 48		102 31.3 62	84 30 37		92 10.0 42	138 -32.6 56	99 -5.5 20	103 26.3 46	84 7 42	89 18 40	90 -1.51 29	82 -1.83 26	96 -0.91 25
SF 220113 94189602 SF 220113	1	PSS 166077 JS 180055	121 74	96 70	92 47	103 28	124 36	108 46	84 20	101 41	92 10	117 -0.43 76	126 -0.66 48	97 23 28	96 13.7 70	92 3.7 47	93 58 48		99 28.7 61	93 76 35		81 4.5 40	148 -40.8 55	113 -8.8 18	104 27.1 43	92 13 40	90 19 38	92 -1.26 14	100 0.37 7	99 -0.65 5
SF 220154 97743579 SF 220154		TZ 160112 SF 160250	107 70	78 63	90 49	118 29	109 36	82 44				105 0.71 72	118 -0.33 46	82 7 29	78 4.7 63	90 2.9 49	82 32 47		71 5.0 48	73 -33 34		89 8.8 38	108 -8.3 50	108 -7.7 23	81 11.7 45	77 1 38	75 0 37			

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ID Number Name																													
SF 220163	JRE 180077		96	96	79	95	106	79			87	94	130	105	96	79	79	86	82		97	87	110	84	99	94	84	82	99
97743595	SF 150134		69	62	42	19	24	36			30	1.66	-0.85	30	13.3	-0.5	27	17.4	16		12.4	9.4	-8.3	13.5	18	24	-2.26	-1.80	-0.71
SF 220163												71	40	19	62	42	41	47	33		37	31	16	42	38	36	32	29	28
SF 220250	JRE 160190		72	108	78	89	132	83	82	81	87	65	107	111	108	78	85	95	83		97	128	127	81	104	93	89	70	87
97742050	SF 170056		72	68	42	25	36	44	21	39	31	4.28	0.14	37	19.2	-0.8	41	25.6	20		12.2	-24.4	-12.3	11.4	22	23	-1.70	-3.22	-1.72
SF 220250												74	53	25	68	42	45	50	39		41	52	19	45	42	41	32	30	29
SF 220640	JRE 120120		73	117	95	85	97	95	88	91	96	75	95	115	117	95	103	111	89	90	120	79	103	92	110	104	87	81	84
97742183	SF 130205		70	68	49	27	29	43	23	39	30	3.35	0.63	41	23.6	4.6	81	39.5	54	-65	23.4	15.7	-6.4	19.3	26	37	-1.92	-2.01	-1.95
SF 220640												72	46	27	68	49	48	50	35	8	39	36	22	44	39	38	31	28	28
SF 220700	TZ 160112		103	91	97	107	104	92				100	117	93	91	97	93	84	83		104	90	107	84	90	88			
97743561	SF 130271		72	68	45	27	36	45				1.09	-0.30	18	10.8	5.1	59	15.8	23		15.9	6.3	-7.4	13.3	11	17			
SF 220700												74	54	27	68	45	47	48	34		38	49	22	44	38	37			
SF 220960	JRE 130140		101	87	105	92	88	85			86	101	98	108	87	105	91	85	84		103	79	93	85	112	96	69	96	83
97743744	SF 110046		68	67	43	18	22	37			28	1.00	0.51	34	9.1	7.8	55	16.7	27		15.3	15.7	-4.0	14.5	28	27	-4.08	-0.20	-2.04
SF 220960												71	38	18	67	43	43	46	31		36	28	15	40	37	35	30	27	26
SF 221400	PSS 166101		71	113	86	78	91	81			95	72	96	122	113	86	92	105	93		105	80	96	92	105	98	92	82	87
97744106	SF 180193		72	67	45	25	36	44			11	3.64	0.61	49	22.1	1.8	56	34.4	75		16.4	14.5	-4.8	19.1	22	30	-1.30	-1.79	-1.70
SF 221400												74	54	25	67	45	46	48	30		34	51	20	42	35	33	12	10	10
GMO 230001	JRE 190098	2	99	98	102	117	102	104			96	99	103	83	98	102	107	95	98		98	90	105	93	105	102	97	100	92
94984226	GMO 130015		71	70	48	14	30	41			23	1.24	0.30	8	14.5	6.8	92	25.9	102		12.9	6.5	-6.9	19.7	23	35	-0.75	0.33	-1.27
ANGELINA												73	49	14	70	48	44	50	30		35	41	18	43	36	34	25	21	20
GMO 230003	JRE 190098	1	93	91	92	124	68	82			85	93	97	76	91	92	97	90	86		79	82	71	97	89	88	86	97	90
94984242	GMO 160049		71	70	46	15	32	41			24	1.71	0.55	1	11.2	3.7	67	21.1	40		3.9	13.1	1.2	22.3	10	16	-2.05	0.01	-1.43
BEAUTIFUL												73	47	15	70	46	44	50	30		35	41	22	43	36	34	26	22	21
GMO 230007	JRE 190098	1	92	84	100	125	88	85			88	93	90	75	84	100	98	82	90		83	90	90	96	91	90	89	99	90
94984283	GMO 110008		72	71	50	15	32	42			23	1.71	0.84	0	7.7	6.0	69	14.2	61		5.5	6.4	-3.3	21.7	12	19	-1.71	0.24	-1.46
KARLIN												74	50	15	71	50	45	52	31		37	43	21	45	38	36	25	21	21
GMO 230011	JRE 190098	1	92	89	96	132	85	88			84	93	89	68	89	96	102	88	86		80	102	83	97	89	87	85	97	88
95246237	GMO 140056		71	71	49	16	32	42			24	1.74	0.92	-8	10.1	5.0	79	19.3	38		4.1	-3.4	-1.7	22.3	10	16	-2.09	-0.02	-1.58
SANITA												73	49	16	71	49	45	51	31		36	42	23	44	37	35	26	22	21
JS 230007	JS 160002	2	110	94	96	95	105	96	92	93	98	108	112	105	94	96	91	95	99		93	102	105	106	91	93	100	103	105
95692430	CN 170028		74	70	53	25	34	45	22	40	10	0.44	-0.07	31	12.6	5.0	55	25.2	109		10.5	-3.0	-7.0	28.7	12	23	-0.29	0.76	-0.15
JS 230007												76	55	25	70	53	49	54	39		43	41	28	49	43	41	12	7	6
JS 230008	JS 160002	1	98	98	99	98	108	97	87	93	94	98	101	102	98	99	97	98	94		89	101	109	101	86	91	101	106	110
95692448	JS 160009		74	69	51	25	36	45	20	40	18	1.34	0.38	28	14.6	5.9	69	28.1	80		8.5	-2.4	-7.9	25.5	8	21	-0.20	1.04	0.25
JS 230008												76	56	25	69	51	48	50	36		40	44	28	48	39	38	20	16	16

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Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
JS 230010	1	JS 160002	102	106	90	79	110	96			104	100	115	121	106	90	90	106	105			95	90	114	99	96	100	108		
95692463		JS 140048	75	72	55	27	36	47			6	1.09	-0.20	47	18.6	3.0	52	35.0	140			11.3	6.8	-9.1	23.9	16	32	0.64		
JS 230010												76	57	27	72	55	51	53	34			38	44	27	50	37	36	9		
JS 230024	1	JS 160002	118	90	91	102	113	96	84	91	91	115	116	98	90	91	87	92	91			81	110	111	111	81	86	99	106	109
95694972		JS 160010	74	71	54	31	38	48	20	42	18	-0.20	-0.26	23	10.5	3.4	44	22.6	65			4.5	-9.5	-8.4	31.8	4	14	-0.47	1.09	0.14
JS 230024												76	56	31	71	54	52	54	36			39	47	29	49	39	37	20	17	16
JS 230030	2	JS 160002	110	103	101	87	101	104	104	103	108	109	104	113	103	101	98	106	110			94	87	105	109	103	105	111	107	101
96164017		CN 190072	73	71	51	21	32	44	21	39	17	0.36	0.27	39	16.9	6.5	71	35.1	168			10.7	9.0	-7.0	30.6	21	38	1.04	1.19	-0.55
VIGOREX DIANA 5TH												75	53	21	71	51	48	53	38			42	40	24	48	42	40	19	15	14
JS 230042		JS 160002	89	96	102	89	116				82	87	122	111	96	102	95	83	75			96	63	129	110	81	89	77	64	68
98515885			46	45	38	20	28				16	2.31	-0.49	37	13.6	6.7	62	15.3	-21			11.8	28.4	-12.6	31.5	5	19	-3.14	-3.97	-3.23
JS 230042												47	40	20	45	38	34	38	31			34	34	23	41	33	32	17	15	14
SF 230012	2	JRE 200007	110	81	95	122	102	89	73	84	82	109	101	78	81	95	90	82	84			78	120	96	105	70	73	87	105	104
95925996		SF 200009	72	71	45	26	26	41	21	37	28	0.29	0.38	3	6.1	4.6	51	14.0	26			3.1	-18.3	-4.9	27.8	-4	-2	-1.94	0.92	-0.25
THOR 2ND												74	43	26	71	45	47	62	37			42	34	18	40	43	41	30	26	25
SF 230028		JRE 190076	76	116	95	81	115	99	101	98	104	79	88	119	116	95	101	112	100			111	103	115	84	107	104	103	95	107
95926341		SF 200180	71	72	41	26	26	41	20	37	32	3.03	0.95	46	23.4	4.7	78	40.5	115			19.2	-4.2	-9.4	13.5	24	37	-0.03	-0.26	0.02
SF 230028												73	41	26	72	41	46	62	36			40	33	18	38	39	38	34	31	30
SF 230048		JRE 180032	125	70	77	139	84	75	58	68	69	136	133	61	70	77	71	71	66			81	73	91	90	62	68	69	76	75
95931762		SF 170001	73	71	52	26	33	45	24	41	34	-2.09	-1.00	-15	0.7	-1.2	8	5.1	-67			4.8	20.7	-3.5	17.6	-10	-9	-4.09	-2.52	-2.66
SF 230048												75	51	26	71	52	50	64	44			48	43	23	45	47	46	35	32	31
SF 230056		JS 190015	109	88	80	117	118	88			76	107	117	83	88	80	81	85	73			75	111	116	94	70	69	80	93	89
95931937		SF 200228	71	72	44	25	28	42			22	0.52	-0.28	8	9.4	-0.1	31	16.9	-32			1.9	-10.4	-9.6	20.6	-4	-8	-2.75	-0.51	-1.48
SF 230056												73	43	25	72	44	47	62	29			32	36	20	38	31	30	23	20	19
SF 230101		JRE 190103	99	93	96	105	104	92	87	89	90	99	97	95	93	96	94	92	89			110	100	104	87	94	91	94	94	108
95929832		SF 180167	73	70	44	25	26	41	22	37	34	1.21	0.57	20	12.0	5.0	61	23.4	56			18.7	-1.3	-6.7	15.4	15	21	-1.10	-0.43	0.08
SF 230101												75	44	25	70	44	46	62	39			43	34	19	40	40	39	36	33	32
SF 230135		JRE 180032	112	92	88	111	106	94	77	88	82	109	124	89	92	88	89	89	80			104	72	114	86	85	89	77	70	71
95932216		SF 170052	71	49	43	22	27	35	23	33	34	0.35	-0.60	14	11.5	2.4	50	20.0	7			15.9	21.6	-9.2	14.8	8	18	-3.07	-3.22	-2.99
SF 230135												73	46	22	49	43	38	44	42			46	36	18	40	46	44	35	32	31
JS 240007	1	MS 210038	106	98	102	111	109	107				105	101	89	98	102	105	101	97			87	96	111	104	88	92			
97335103		JS 210035	70	67	39	17	26	38				0.68	0.38	14	14.5	6.9	86	30.5	98			7.4	1.6	-8.4	26.9	10	22			
JS 240007												72	41	17	67	39	41	42	20			23	35	17	36	22	21			
JS 240012	3	JS 200026	71	126	96	80	109	105				68	95	120	126	96	109	121	107			110	92	112	107	104	110			
97335145		JS 210033	69	66	38	19	22	36				3.96	0.66	46	28.3	5.0	95	48.1	152			18.6	5.0	-8.6	29.5	22	44			
JS 240012												71	39	19	66	38	41	34	25			30	31	13	35	29	27			

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass				
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
JS 240013 97335152 JS 240013	3	JS 200026 JS 210036	105 69	97 66	101 38	107 19	108 22	104 36				104 0.74 71	104 0.25 41	93 18 19	97 14.1 66	101 6.4 38	102 79 41		98 27.9 32	96 93 24		94 10.7 29	99 -0.6 31	110 -8.0 14	106 28.6 35	91 12 28	95 26 26			
JS 240023 97628093 JS 240023	3	JRE 210064 JS 150017	77 72	122 66	88 42	86 18	85 24	95 37	107 21	96 34	113 14	78 3.11 74	101 0.38 42	114 40 18	122 26.4 66	88 2.3 42	102 80 42		118 45.4 40	114 188 35		126 26.4 41	82 13.5 32	89 -3.2 15	98 23.2 38	118 33 41	113 48 39	116 1.61 17	111 1.63 11	100 -0.63 10
JS 240033 97629869 JS 240033	1	JS 160002 JS 140048	97 75	110 70	88 55	78 27	110 36	96 47			106 6	95 1.56 76	115 -0.19 57	122 48 27	110 20.4 70	88 2.4 55	91 54 51		109 37.3 48	106 145 34		96 11.9 38	89 7.1 44	114 -9.2 27	99 23.8 48	97 17 37	101 33 36	109 0.76 9		
JS 240034 97628184 JS 240034	1	JS 160002 JS 140053	91 74	102 70	89 55	93 25	102 36	89 46	89 20	87 41	95 8	91 1.90 76	102 0.37 56	107 33 25	102 16.7 70	89 2.7 55	91 54 50		100 30.1 50	94 82 36		87 7.4 40	89 7.8 44	106 -7.2 28	106 28.7 48	85 7 37	90 19 35	99 -0.44 11	104 0.77 5	
JS 240035 97628192 JS 240035	3	JRE 210064 JS 170039	73 72	123 66	84 45	96 23	79 26	93 40	105 22	94 36	109 16	74 3.45 74	103 0.31 44	104 30 23	123 26.7 66	84 1.2 45	104 83 45		117 44.7 42	110 167 39		120 23.4 45	80 14.5 34	82 -1.5 17	102 25.9 38	116 31 45	109 44 42	109 0.69 18	113 1.91 14	100 -0.59 12
JS 240036 97845317 JS 240036	3	JS 160002 JS 140015	102 74	101 70	90 55	106 28	94 35	95 46	97 23	94 41	102 16	100 1.08 76	110 0.00 56	94 20 28	101 15.8 70	90 3.0 55	95 63 51		100 30.2 48	106 146 40		98 12.9 45	79 15.9 44	100 -5.7 26	104 27.1 48	92 13 45	95 26 43	102 -0.10 19	111 1.67 14	106 -0.06 13
JS 240044 97628242 JS 240044	2	JRE 210064 JS 150031	93 73	109 54	98 45	104 22	85 26	102 36	105 21	101 33	110 12	93 1.73 75	100 0.45 46	96 22 22	109 20.1 54	98 5.6 45	108 92 40		109 37.9 42	111 170 36		120 23.7 42	93 4.1 35	86 -2.3 18	94 20.4 38	118 33 42	111 45 40	113 1.26 14	114 2.04 10	99 -0.65 9
JS 240050 97751036 JS 240050	4	JRE 210064 JS 170003	88 72	106 52	84 44	103 20	86 26	87 35	97 21	87 32	103 13	88 2.19 74	106 0.19 44	97 23 20	106 18.5 52	84 1.2 44	94 60 39		101 30.7 40	105 138 37		104 16.0 42	96 1.3 34	85 -2.3 17	105 27.8 37	108 25 41	102 34 39	108 0.68 16	107 1.20 10	100 -0.59 8
JVJ 240013 97680078 JVJ 240013	3	JHB 210009 JVJ 210008	75 65	130 63	109 39	80 6	94 19	115 32				77 3.17 67	90 0.88 38	120 46 6	130 30.0 63	109 9.0 39	120 121 36		129 54.9 39				93 3.8 27	95 -4.6 11	112 32.4 31					
JVJ 240016 97680144 JVJ 240016	4	JHB 210009 JVJ 200015	87 65	118 63	109 39	84 5	107 20	113 32				88 2.20 67	94 0.71 39	116 42 5	118 24.2 63	109 9.0 39	114 106 36		117 44.8 42			111 19.0 10	98 0.1 28	108 -7.6 13	114 34.2 31	113 29 11	113 49 9			
JVJ 240022 97680201 JVJ 240022	3	JHB 210009 JVJ 210025	80 65	120 59	105 38	83 6	94 18	106 30				81 2.81 67	94 0.71 38	117 43 6	120 25.1 59	105 7.6 38	111 101 34		116 44.1 37				103 -4.3 27	93 -4.0 10	113 33.3 30					
JVJ 240024 97680185 JVJ 240024	3	JHB 210009 JVJ 200009	89 65	115 61	111 40	84 6	103 21	112 32				90 2.00 67	92 0.79 39	116 42 6	115 22.7 61	111 9.6 40	113 104 36		115 43.1 42			109 18.0 11	98 -0.1 29	104 -6.7 13	116 35.8 31	113 29 12	112 48 10			

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
JVJ 240026 97774970 JVJ 240026	1	JHB 210009 JVJ 200007	71 65	124 49	103 37	85 10	102 23	108 30				74 3.47 67	91 0.83 38	115 41 10	124 27.4 49	103 7.1 37	114 108 32	122 49.0 42	108 156 15			113 20.2 18	93 4.0 30	105 -6.9 16	106 29.0 30	111 27 18	111 46 17			
JVJ 240028 97774996 JVJ 240028	3	JHB 210009 JVJ 190011	88 65	115 48	104 39	88 9	98 22	108 30				89 2.09 67	97 0.56 39	112 38 9	115 23.0 48	104 7.5 39	110 99 32	113 40.7 41				93 4.5 28	100 -5.7 15	108 30.2 31						
SF 240188 97732101 SF 240188		SF 160054	112 66	60 60	105 32		97 8					115 -0.19 69	65 1.93 35		60 -4.1 60	105 7.8 32	79 27 31	63 -1.7 7				100 -1.8 12	97 -5.0 5	67 1.6 26						
SF 240202 98411200 SF 240202		AJS 200018 SF 200276	100 69	106 69	97 41	82 23	101 24	99 39			103 20	99 1.19 72	104 0.29 39	118 44 23	106 18.4 69	97 5.3 41	96 66 44	106 35.4 44	100 115 30			115 21.0 34	90 6.6 32	104 -6.8 17	86 14.9 35	111 27 28	105 38 27	99 -0.42 21	96 -0.10 19	99 -0.69 18
SF 240207 98411259 SF 240207		AJS 170061 SF 160033	108 72	86 68	98 46	92 24	90 27	84 41	85 21	82 37	92 18	107 0.49 74	99 0.46 45	108 34 24	86 8.7 68	98 5.5 46	86 42 46	88 19.2 43	93 73 37			97 12.5 42	78 16.2 35	96 -4.7 19	74 6.6 42	99 18 42	93 23 40	91 -1.41 20	90 -0.82 17	92 -1.26 16
SF 240214 98411341 SF 240214		SF 180125	118 66	80 63	99 37	97 21	96 22	86 36			83 19	118 -0.50 69	90 0.85 35	103 28 21	80 5.6 63	99 5.9 37	83 37 40	84 16.3 24	80 6 20			106 16.6 23	93 4.4 27	97 -5.1 17	76 7.9 28	101 20 24	86 14 23	76 -3.27 20	98 0.13 18	91 -1.35 17
SF 240220 98411390 SF 240220		SF 160110	89 65	104 60	89 32						80 14	90 1.99 68	91 0.84 34		104 17.6 60	89 2.8 32	91 53 31	102 31.8 10	72 -38 19			99 13.2 23			68 2.9 26	84 7 24	77 2 22	76 -3.27 15	81 -1.95 13	76 -2.57 12
SF 240224 98411481 SF 240224		SF 220100	107 66	95 35	92 25	102 11	106 19	94 24			82 14	107 0.48 69	96 0.62 29	98 24 11	95 12.8 35	92 3.6 25	91 53 24	97 27.7 31	79 0 19			96 11.9 21	124 -21.3 28	99 -5.5 10	79 10.2 26	85 8 21	79 6 20	85 -2.17 14	91 -0.76 13	94 -1.08 12
GMO 250002 98938772 GABBY	4	JA 210029 GMO 190027	92 70	100 55	93 40	107 8	85 24	90 32				92 1.86 72	100 0.42 43	93 18 8	100 15.6 55	93 4.0 40	98 70 34	99 29.2 42				99 13.2 10	100 -1.7 33	84 -1.9 15	106 28.6 36	93 13 11	93 24 8			
GMO 250005 98938806 JO	2	JA 210029 GMO 190053	108 70	95 52	98 42	102 12	92 25	96 33				107 0.46 72	102 0.33 43	98 24 12	95 12.9 52	98 5.7 42	96 65 35	96 26.7 40	99 110 10			93 10.7 15	98 -0.1 34	92 -3.9 16	102 26.1 36	95 15 15	98 29 14			
GMO 250006 98938814 BEAUTY	3	JA 210029 GMO 190012	100 70	103 55	111 42	96 10	85 26	106 34				101 1.06 72	93 0.73 43	104 30 10	103 17.0 55	111 9.7 42	110 97 36	107 35.5 41	107 150 11			107 17.4 15	87 8.9 35	87 -2.7 16	110 31.2 36	101 20 16	102 35 15			
GMO 250010 98938855 JOYCE	1	JA 210029 GMO 200033	96 70	101 55	87 40	100 13	100 24	90 33				95 1.54 72	109 0.05 41	100 26 13	101 15.9 55	87 2.0 40	91 54 36	99 29.0 40	103 129 12			105 16.4 17	101 -2.2 33	100 -5.7 15	110 31.1 36	99 18 16	101 33 15			

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ID Number Name				Calv. Ease V	Calv Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
GMO 250014 98938897 JOAN	2	JA 210029	GMO 200021	108 68	98 55	103 40	102 12	87 24	101 33				107 0.49 70	100 0.46 41	98 23 12	98 14.4 55	103 7.1 40	102 79 36	102 31.5 42	102 126 11		98 12.7 15	94 2.9 34	87 -2.6 15	101 24.9 36	100 19 15	101 33 14			
MS 250008 99050445 HAZEL	2	GMO 180009	MS 190019	95 71	99 57	88 41	99 6	83 30	84 35				95 1.59 73	105 0.21 48	101 27 6	99 15.0 57	88 2.4 41	90 52 35	97 26.9 50	101 118 20		98 12.9 24	81 13.7 42	87 -2.6 18	94 20.6 40	102 20 25	106 39 23			
MS 250017 99113631 BELLE	1	JA 180004	MS 210076	128 73	84 57	101 43	95 21	104 28	97 37				125 -1.10 75	118 -0.34 47	105 30 21	84 7.6 57	101 6.4 43	87 45 40	82 14.2 52	95 83 7		105 16.3 10	113 -12.4 40	101 -6.0 17	102 25.9 40	98 17 10	97 28 9			
YS 250005 99472490 YS 250005	2	JA 180004	SF 220154	110 58	91 55	93 39	107 25	99 28	93 37				108 0.43 59	118 -0.36 41	93 19 25	91 11.2 55	93 4.0 39	91 53 40	88 19.8 48	91 66 17		102 14.7 20	104 -4.6 39	97 -5.1 16	92 18.9 39	92 13 20	92 21 20			
YS 250006 99240582 YS 250006	10	SF 220011	SF 220022	127 69	89 43	86 33	104 13	104 16	95 26				123 -0.94 72	125 -0.62 36	96 21 13	89 10.2 43	86 1.7 33	83 35 30	93 23.9 36	95 88 31		91 9.6 38	85 10.8 29		107 29.1 25	81 5 39	91 21 36			
YS 250007 99211237 YS 250007		SF 220002	SF 220700	103 69	99 48	100 33	99 17	108 22	101 30			92 12	101 0.99 72	111 -0.02 36	101 26 17	99 14.8 48	100 6.3 33	99 73 33	96 26.8 38	88 52 34		112 19.4 39	90 6.3 30	112 -8.7 13	86 14.9 30	96 16 40	95 26 38	89 -1.61 14	84 -1.57 11	86 -1.78 11
YS 250012 99210858 YS 250012	2	JRE 210064	JS 220030	88 70	114 51	90 36	96 18	100 22	100 32	102 20	99 30	109 14	88 2.17 73	103 0.32 38	104 30 18	114 22.2 51	90 3.0 36	101 78 35	112 40.5 40	110 164 35		114 20.7 41	99 -1.2 29	100 -5.9 14	106 28.8 33	109 26 40	106 40 38	115 1.46 16	118 2.56 11	104 -0.24 10
YS 250013 99210866 YS 250013	2	JRE 210064	JS 210035	94 70	109 52	95 39	102 20	106 24	105 34	103 21	103 31	110 14	94 1.66 73	101 0.41 40	98 23 20	109 19.9 52	95 4.7 39	105 85 37	108 37.1 38	112 174 37		113 20.0 43	99 -1.2 33	107 -7.3 15	105 28.1 33	109 26 41	107 41 39	116 1.63 16	116 2.25 11	105 -0.21 10
YS 250018 99210874 YS 250018	2	JRE 210064	JS 210036	74 70	120 51	94 37	108 18	98 22	105 32	109 20	105 30	112 10	76 3.29 73	95 0.65 38	92 17 18	120 25.5 51	94 4.1 37	114 107 35	117 44.3 36	112 175 35		120 23.7 40	99 -1.1 31	98 -5.4 12	102 26.0 31	120 34 40	113 49 38	115 1.50 12	116 2.23 8	104 -0.28 6
YS 250020 99210882 YS 250020	2	JRE 210064	JS 210012	83 70	115 52	77 39	93 18	91 24	87 33	102 20	88 30	107 10	83 2.68 73	110 -0.01 40	107 33 18	115 23.0 52	77 -1.3 39	91 54 36	111 39.1 38	108 155 35		109 18.4 40	89 7.4 33	93 -4.0 15	102 26.0 33	111 27 40	104 37 38	111 0.95 13	116 2.24 8	101 -0.52 7
YS 250022 99476723 YS 250022		SF 210024	SF 180174	95 68	97 45	102 36	80 20	113 18	93 29			92 15	96 1.49 71	97 0.57 38	120 47 20	97 14.2 45	102 6.9 36	93 58 34	94 24.5 35	84 29 34		113 20.1 39	83 11.9 24	119 -10.2 13	83 12.9 28	103 21 35	99 30 33	89 -1.66 16	81 -1.97 14	85 -1.85 14

Selection List on Cow Value

Bulls 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	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	TZ 200057	TARZAN	GMO 170065	TZ 170121	2.1	101 88	120 87	106 54	87 14	78 33	115 47	129 34	118 44
					★★★★								
1	TZ 230078	TZ230078	AJS 180041	TZ 170087	0.5	83 74	106 73	111 49	113 16	84 27	105 41	114 35	106 40

Selection List on Cow Value
Cows 2 years and older

ID Name Sorted on ID			Sire ID	Dam ID	% Inbreeding	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	GMO 190012	CHIME	TZ 150052	GMO 110035	2.6	9477	11175	12669	9310	8546	11950			
2	JS 150052	JS 150052	JRE 120058	JS 110026	2.1	10982	9478	11777	11145	9650	11161	9430	10655	
3	JVJ 240013	JVJ 240013	JHB 210009	JVJ 210008	3.1	7565	13063	10939	806	9419	11532			
4	JVJ 240016	JVJ 240016	JHB 210009	JVJ 200015	3.7	8765	11863	10939	845	10720	11332			
5	JVJ 240024	JVJ 240024	JHB 210009	JVJ 200009	3.0	8965	11561	11140	846	10321	11232			
6	LP 180043	LP180043	TL 150071	LP 120001	2.3	11180	9474	11472	10924	12146	11553			
7	SF 220037	SF 220037	JS 190015	SF 190138	0.0	10771	10068	10936	9014	12932	11239			
						★★★☆☆								
1	GMO 230001	ANGELINA	JRE 190098	GMO 130015	1.6	9971	9870	10248	11714	10230	10441			
2	JS 150031	JS 150031	JS 110024	JY 060078	0.5	11283	9277	10377	11542	8251	10061	9123	9653	
3	JS 210016	JS 210016	JS 180006	JS 170051	3.2	8874	11269	10258	10232	9736	10748	10821	10643	
4	JS 210021	JS 210021	JS 180006	JS 160043	8.7	9873	10258	9955	9128	11132	10042	10021	9838	
5	JS 210033	JS 210033	JS 180006	JS 140053	0.9	8174	10971	11459	8629	10736	10648	10520	10442	
6	JS 210035	JS 210035	JS 160002	JS 160004	0.8	10977	9471	9662	11334	12444	10552	8722	9946	
7	JS 210036	JS 210036	JS 180006	JS 170012	1.3	9775	9970	10157	12433	10938	10749			
8	JS 220023	JS 220023	JS 160002	JS 190001	1.9	9474	11770	8852	10526	10836	10946	9721	10541	
9	JS 230030	VIGOREX DIANA 5TH	JS 160002	CN 190072	2.1	11073	10371	10151	8721	10132	10444	10421	10339	
10	JS 240007	JS 240007	MS 210038	JS 210035	1.4	10670	9867	10239	11117	10926	10738			
11	JS 240012	JS 240012	JS 200026	JS 210033	3.4	7169	12666	9638	8019	10922	10536			
12	JS 240013	JS 240013	JS 200026	JS 210036	3.4	10569	9766	10138	10719	10822	10436			
13	JS 240044	JS 240044	JRE 210064	JS 150031	2.3	9373	10954	9845	10422	8526	10236	10521	10133	
14	JVJ 240022	JVJ 240022	JHB 210009	JVJ 210025	3.0	8065	12059	10538	836	9418	10630			
15	JVJ 240026	JVJ 240026	JHB 210009	JVJ 200007	1.3	7165	12449	10337	8510	10223	10830			
16	JVJ 240028	JVJ 240028	JHB 210009	JVJ 190011	2.9	8865	11548	10439	889	9822	10830			
17	MS 210058	TINA	GMO 160047	MS 130016	2.5	10077	10075	11061	8610	9142	10048			
18	SF 220100	SF 220100	JRE 160194	SF 150030	2.1	10475	10271	10251	10121	10938	10746	8221	10041	
19	SF 220113	SF 220113	PSS 166077	JS 180055	1.4	12174	9670	9247	10328	12436	10846	8420	10141	
						★★★★☆								

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID			Name	Sire ID	Dam ID	% Inbreeding	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	GMO 190053	DOVE	NJB 150002	GMO 090052	1.8	9778	10266	9669	10515	10046	9949				
2	JS 140015	JS 140015	TZ 110010	JS 110033	1.4	9681	9679	9781	11748	7546	9161	10027	9154		
3	JS 220030	JS 220030	JS 160002	JS 160010	1.0	11076	9671	8954	10031	11338	9648	8620	9242		
4	JS 220036	JS 220036	JS 160002	JS 170027	1.4	9871	10770	9751	8724	9932	9944				
5	JS 230007	JS 230007	JS 160002	CN 170028	1.7	11074	9470	9653	9525	10534	9645	9222	9340		
6	JS 230008	JS 230008	JS 160002	JS 160009	1.1	9874	9869	9951	9825	10836	9745	8720	9340		
7	JS 230010	JS 230010	JS 160002	JS 140048	1.4	10275	10672	9055	7927	11036	9647				
8	JS 230024	JS 230024	JS 160002	JS 160010	1.0	11874	9071	9154	10231	11338	9648	8420	9142		
9	JS 240023	JS 240023	JRE 210064	JS 150017	2.8	7772	12266	8842	8618	8524	9537	10721	9634		
10	JS 240033	JS 240033	JS 160002	JS 140048	1.4	9775	11070	8855	7827	11036	9647				
11	JS 240035	JS 240035	JRE 210064	JS 170039	2.6	7372	12366	8445	9623	7926	9340	10522	9436		
12	JS 240036	JS 240036	JS 160002	JS 140015	2.8	10274	10170	9055	10628	9435	9546	9723	9441		
13	MS 210088	TOSCA	GMO 160047	MS 140055	2.7	9876	10573	8854	958	9242	9246				
14	SF 170149	EVERLY 1ST	JRE 120020	SF 110020	0.0	9577	9974	9270	10934	9944	9354	8630	9049		
15	SF 200276	SF 200276		SF 110024	0.0	11248	8567	9760	9821	11431	9143				
16	SF 220640	SF 220640	JRE 120120	SF 130205	0.0	7370	11768	9549	8527	9729	9543	8823	9139		
17	SF 220700	SF 220700	TZ 160112	SF 130271	0.0	10372	9168	9745	10727	10436	9245				
18	SF 230028	SF 230028	JRE 190076	SF 200180	0.0	7671	11672	9541	8126	11526	9941	10120	9837		
19	SF 230101	SF 230101	JRE 190103	SF 180167	0.0	9973	9370	9644	10525	10426	9241	8722	8937		
20	SF 230135	SF 230135	JRE 180032	SF 170052	0.0	11271	9249	8843	11122	10627	9435	7723	8833		
21	SF 240202	SF 240202	AJS 200018	SF 200276	0.0	10069	10669	9741	8223	10124	9939				
22	SF 240224	SF 240224		SF 220100	0.0	10766	9535	9225	10211	10619	9424				
						★★★									
1	GMO 190027	ASPEN	TZ 150052	GMO 150043	2.3	8978	9774	9464	11612	8546	8950				
2	GMO 200033	SILKY	JRE 150053	GMO 100062	1.9	10077	9774	8263	10116	11543	8949	10020	8943		
3	GMO 230003	BEAUTIFUL	JRE 190098	GMO 160049	1.2	9371	9170	9246	12415	6832	8241				
4	GMO 230007	KARLIN	JRE 190098	GMO 110008	1.0	9272	8471	10050	12515	8832	8542				
5	GMO 230011	SANITA	JRE 190098	GMO 140056	0.8	9271	8971	9649	13216	8532	8842				
6	JS 140048	JS 140048	TZ 110068	GA 060147	2.8	8483	11278	9279	6643	10746	8959				
7	JS 150017	JS 150017	JS 120031	AJS 120016	1.4	8379	11176	8371	8231	8244	8254	9521	8347		

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	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	
					★★								
8 JS 170039	JS170039	JS 120031	PKB 050314	1.1	73 82	125 77	72 77	90 43	71 48	83 60	96 28	84 54	
9 JS 240034	JS 240034	JS 160002	JS 140053	1.4	91 74	102 70	89 55	93 25	102 36	89 46	89 20	87 41	
10 JS 240050	JS 240050	JRE 210064	JS 170003	3.9	88 72	106 52	84 44	103 20	86 26	87 35	97 21	87 32	
11 MS 210018	TRISH	GMO 160047	MS 110051	1.9	96 77	98 73	91 57	93 15	106 44	89 48			
12 MS 210076	TOSLE	GMO 160047	MS 150055	0.0	113 76	83 72	94 61	95 7	121 41	89 46			
13 SF 160033	ELEKTRA 1ST		SF 130164	0.0	116 64	80 56	97 70	96 18	104 37	85 44	68 23	79 40	
14 SF 180125	HARPER 1ST	JRE 130140	SF 100140	0.0	108 76	77 74	109 75	99 43	88 43	82 57	79 23	79 50	
15 SF 220022	SF 220022	JRE 180032	JS 190033	3.0	121 76	92 57	67 52	112 27	98 38	82 44	85 23	80 40	
16 SF 220154	SF 220154	TZ 160112	SF 160250	0.0	107 70	78 63	90 49	118 29	109 36	82 44			
17 SF 220250	SF 220250	JRE 160190	SF 170056	0.0	72 72	108 68	78 42	89 25	132 36	83 44	82 21	81 39	
18 SF 220960	SF 220960	JRE 130140	SF 110046	0.0	101 68	87 67	105 43	92 18	88 22	85 37			
19 SF 221400	SF 221400	PSS 166101	SF 180193	0.0	71 72	113 67	86 45	78 25	91 36	81 44			
20 SF 230012	THOR 2ND	JRE 200007	SF 200009	1.8	110 72	81 71	95 45	122 26	102 26	89 41	73 21	84 37	
21 SF 230056	SF 230056	JS 190015	SF 200228	0.0	109 71	88 72	80 44	117 25	118 28	88 42			
22 SF 240207	SF 240207	AJS 170061	SF 160033	0.0	108 72	86 68	98 46	92 24	90 27	84 41	85 21	82 37	
23 SF 240214	SF 240214		SF 180125	0.0	118 66	80 63	99 37	97 21	96 22	86 36			
					★★								
1 JS 170003	JS 170003	JS 120031	JRE 040120	1.7	103 80	86 71	75 76	113 37	84 50	70 57	76 22	68 50	
2 MS 170029	CURLS 18	JC 120046	MS 130004	1.4	90 79	95 77	78 74	116 10	85 46	76 52			
3 MS 190019	LION 13	JRE 150046	MS 140046	3.3	85 78	110 73	66 60	86 8	79 42	71 47			
4 SF 200113	LILIBET 1ST		SF 130148	0.0	121 46	74 68	87 59	90 21	107 31	73 43			
5 SF 210930	SF 210930	JRE 180077	SF 130104	0.0	80 71	103 68	69 55	110 30	104 34	76 46			
6 SF 220163	SF 220163	JRE 180077	SF 150134	0.0	96 69	96 62	79 42	95 19	106 24	79 36			
7 SF 230048	SF 230048	JRE 180032	SF 170001	0.0	125 73	70 71	77 52	139 26	84 33	75 45	58 24	68 41	
					★								
1 JS 180016	JS 180016	CN 150033	JS 150062	1.6	111 80	93 78	58 76	91 44	97 46	67 59	94 29	70 53	
2 JS 210012	JS 210012	JS 160002	JS 160019	2.9	96 77	101 72	61 62	93 27	94 42	69 51			

Selection List on Cow Value
Bull Calves younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	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	YS 250029	YS 250029	JRE 210064	JS 150031	2.3	8173	11754	9445	10422	8526	10136	10521	10133
2	YS 250033	YS 250033	JRE 210064	JS 150052	3.0	9772	10754	10745	10223	9226	10837	10623	10634
						★★★☆☆							
1	YS 250015	YS 250015	SF 220002	SF 221400	0.6	7269	12148	8932	8517	10222	9530		
2	YS 250016	YS 250016	SF 200011	SF 160225	0.0	8467	9938	10435	9415	10018	9126		
						★★★							
1	YS 250024	YS 250024	JS 160002	JS 170039	2.8	9973	10759	8254	9128	9236	8944	9621	8939
2	YS 250147	CHAMPION		MS 210018	0.0	11038	8837	8928	988	10422	8524		

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	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	GMO 250006	BEAUTY	JA 210029	GMO 190012	3.1	10070	10355	11142	9610	8526	10634			
2	GMO 250014	JOAN	JA 210029	GMO 200021	2.1	10868	9855	10340	10212	8724	10133			
3	YS 250007	YS 250007	SF 220002	SF 220700	0.5	10369	9948	10033	9917	10822	10130			
4	YS 250012	YS 250012	JRE 210064	JS 220030	1.9	8870	11451	9036	9618	10022	10032	10220	9930	
5	YS 250013	YS 250013	JRE 210064	JS 210035	2.3	9470	10952	9539	10220	10624	10534	10321	10331	
6	YS 250018	YS 250018	JRE 210064	JS 210036	1.7	7470	12051	9437	10818	9822	10532	10920	10530	
						★★★★☆								
1	GMO 250002	GABBY	JA 210029	GMO 190027	4.4	9270	10055	9340	1078	8524	9032			
2	GMO 250005	JO	JA 210029	GMO 190053	1.6	10870	9552	9842	10212	9225	9633			
3	GMO 250010	JOYCE	JA 210029	GMO 200033	1.3	9670	10155	8740	10013	10024	9033			
4	MS 250017	BELLE	JA 180004	MS 210076	0.8	12873	8457	10143	9521	10428	9737			
5	YS 250005	YS 250005	JA 180004	SF 220154	1.9	11058	9155	9339	10725	9928	9337			
6	YS 250006	YS 250006	SF 220011	SF 220022	10.3	12769	8943	8633	10413	10416	9526			
7	YS 250022	YS 250022	SF 210024	SF 180174	0.0	9568	9745	10236	8020	11318	9329			
						★★								
1	MS 250008	HAZEL	GMO 180009	MS 190019	1.8	9571	9957	8841	996	8330	8435			
2	YS 250020	YS 250020	JRE 210064	JS 210012	2.2	8370	11552	7739	9318	9124	8733	10220	8830	

	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 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	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

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.

