

BEEFMASTER

GENOMIC BREEDING VALUE REPORT

September 2026



NORVAL BEEFMASTER

Herd Number: 718926

E-mail: norvalbeefmasterstud@gmail.com



BEEFMASTER
CATTLE BREEDERS' SOCIETY OF SA
BEESTELERSGENOOTSAP VAN SA



EBVs, EBVi's and GEBVs

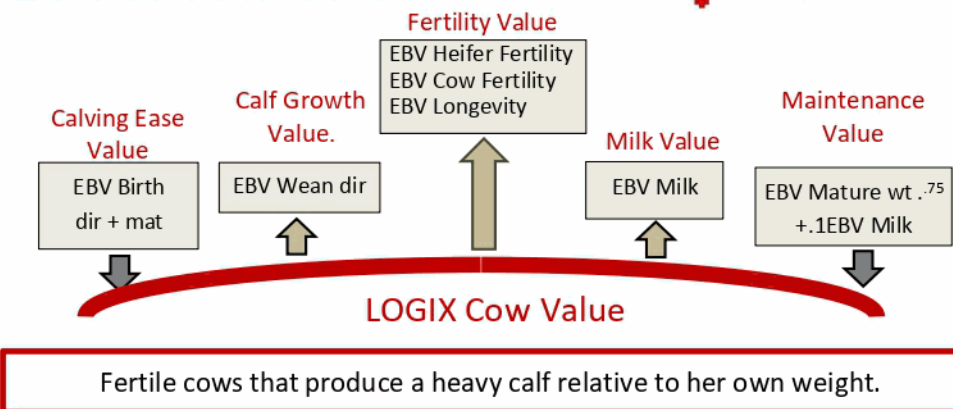
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

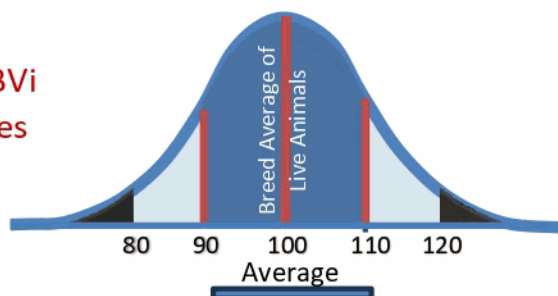
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

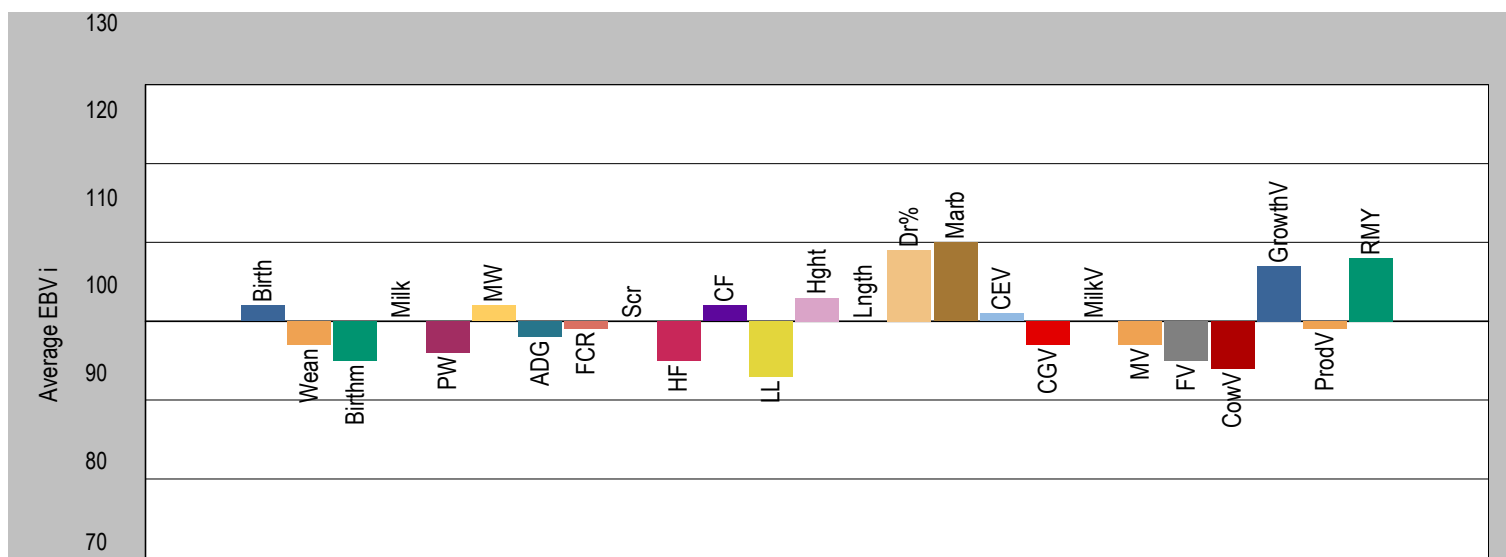
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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	EMA:	Eye Muscle Area
FCR:	Feed Conversion Ratio	RMY:	Carcass Value
		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	0.16	102	0.34
	Wean Weight	10.6	97	12.1
	Birth Mat.	0.13	95	-0.05
	Milk (Wn.Mat.)	-1.3	100	-1.4
Postwean Growth	Postwean Wt	16.2	96	19.0
	Mature Weight	9	102	7
	ADG	64	98	72
	FCR	-38	99	-39
Fertility	Scrotal Circumf.	10.9	100	11.1
	Heifer Fertility	-3.3	95	-7.5
	Cow Fertility	-4.5	102	-4.1
	Longevity	10.4	93	14.8
Frame	Height	3	103	1
	Length	13	100	13
Carcass	EMA	1.77	109	0.85
	Fat	0.12	100	0.11
	Marbling	0.87	110	0.30

Selection Value	Ave. Herd
Calving Ease	101
Calf Growth	97
Milk	100
Maintenance	97
Fertility	95
Cow Value	94
Growth Value	107
Production Value	99
Carcass Value	108

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

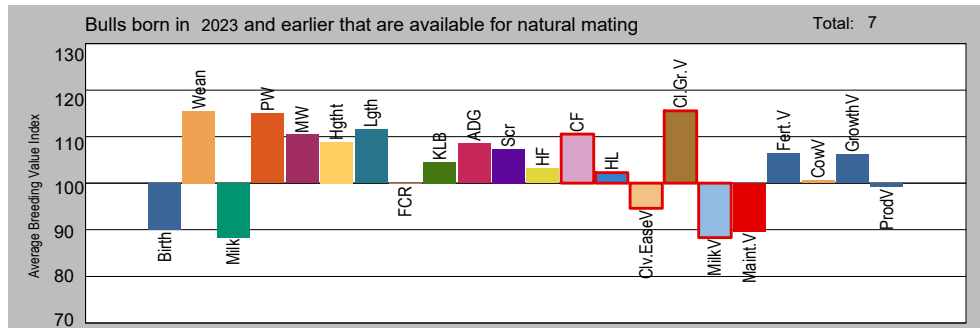
What does a sub-selection value above breed average (100) mean?:

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

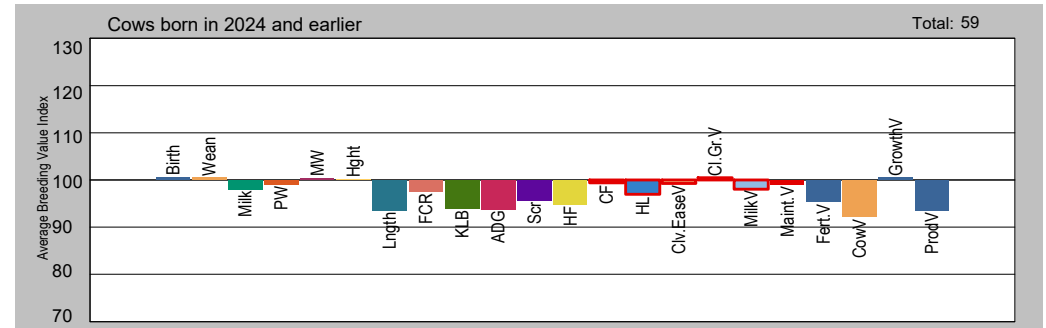
Genetic Windows

Animals available for breeding

Bulls on the farm

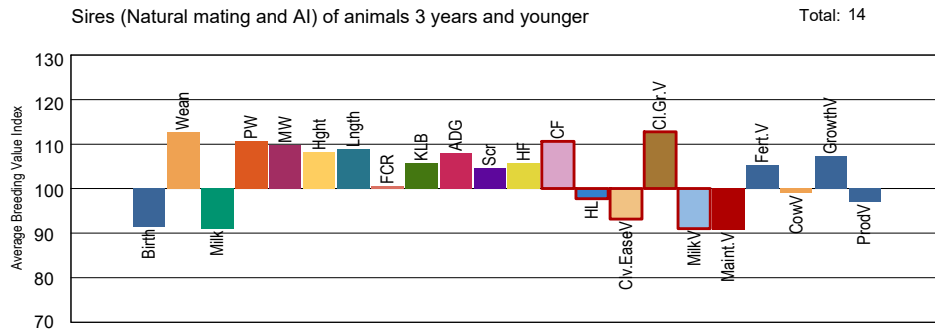


Cow Herd

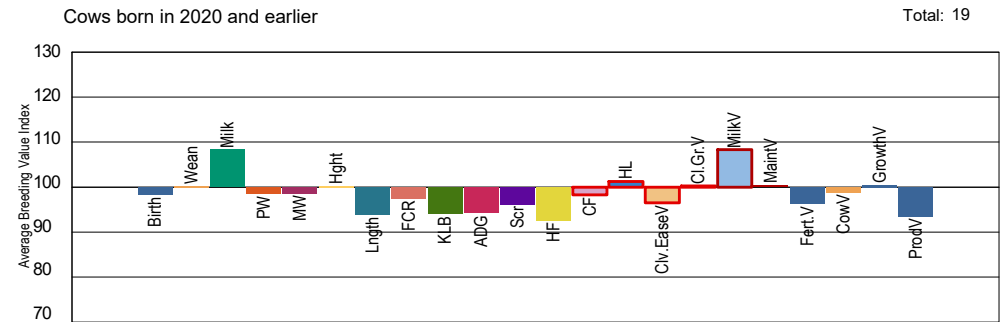


Results of previous selection decisions

Sires of young animals

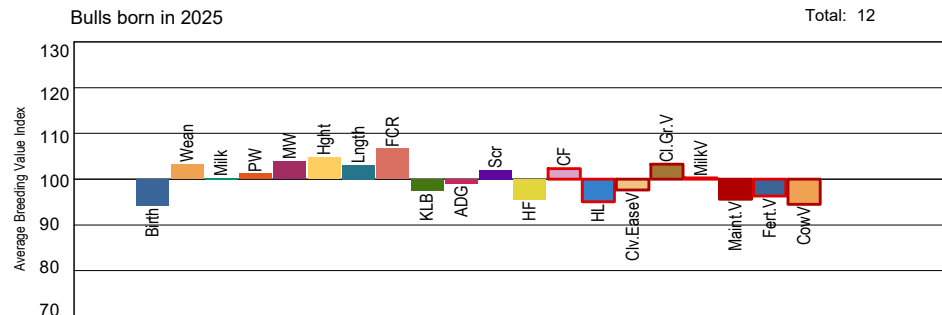


Cows older than 6 years

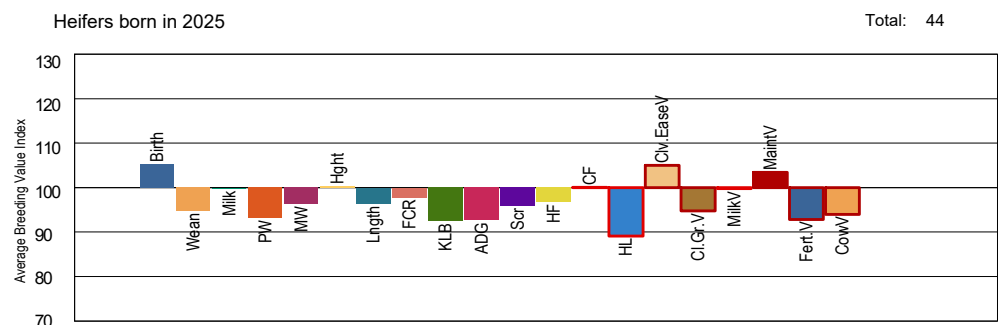


Selection possibilities

Bull calves



Heifer calves

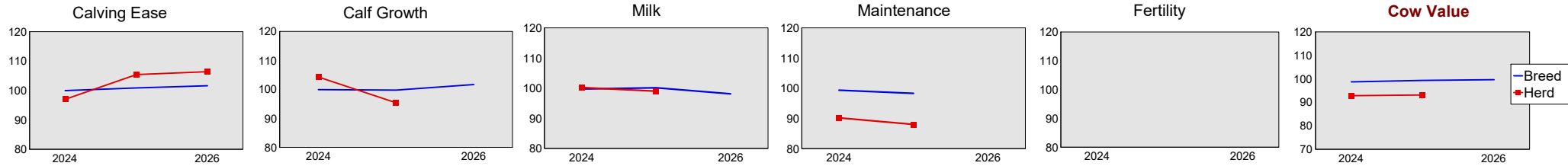


Summary of Cow Herd

			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 Fertility	Cow Fertility	Longevity	Height	Length	
Cows in Breed Average:			100	99	100	101	100	100	99	100	100	99	99	100	99	99	99	99	99	99	100	100	100	99	99
2012	2		103	96	115	110	104				110	96	76	115	94	91				107		95			
2014	1		74	115	119	85	106				84	115	74	119	112	113				98		111			
2015	6	★★★★☆	100	98	111	100	99	102			102	98	96	111	96	98	91	89	95	98	108	96	106	96	
2016	2	★★★★	81	112	102	96	95	94	96	86	85	112	102	102	109	105	98	96	99	88	99	98	89	95	
2017	7	★★★★	93	101	111	97	93	95	105	101	97	101	89	111	101	102	95	95	95	89	88	105	97	93	
2018	8	★★★★☆	103	95	113	105	96	101			104	95	95	113	93	95	90	92	93	94	98	98	96	87	
2019	10	★★★★	95	95	111	101	91	94			99	95	87	111	92	97	100	99	102	91	99	92	107	102	
2020	11	★★★★	101	91	109	105	94	92			104	91	91	109	90	96	85	86	89	101	98	88	94	87	
2021	17	★★★★	111	84	102	110	88	90			111	84	97	102	83	90	83	84	89	91	96	90	93	86	
2022	17	★★★★	104	96	96	105	93	91			106	96	91	96	93	95	89	90	93	92	98	89	98	89	
2023	25	★★★☆☆	102	98	93	100	92	87			102	98	97	93	97	100	99	99	97	91	99	92	103	99	
2024	13	★★★★☆	95	101	101	98	93	81			98	101	91	101	100	101				96	101	95			
2025	44	★★★★	105	95	100	103	93	94			105	95	96	100	93	96	93	93	96	97	100	89	100	96	
2026	5	★★★★	105	102	91	96	103	97			106	102	95	91	102	103	94	94	99	100	109	100	101	97	
Cows in Herd Average:			98	99	105	101	96	93	101	94	101	99	91	105	97	99	92	92	95	95	99	96	99	93	

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.



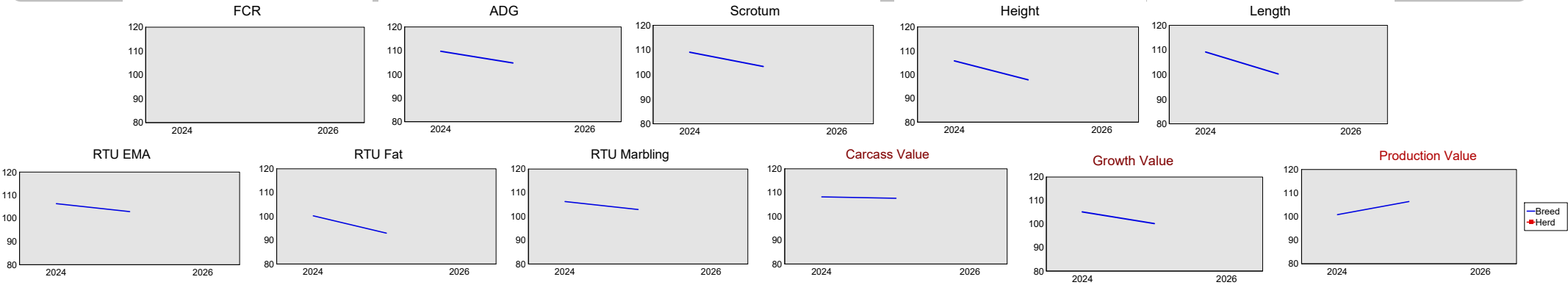
Herd

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	Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility	
	Number	Dir EBV			Number	EBV		Number	EBV	Number	EBV			Number	EBV	Number	EBV	Number	EBV		
2024	31	0.47	0.10	97	23	14.6	104	23	-1.33	100	17	25.9	90							93	
2025	66	-0.05	-0.01	105	79	9.4	95	79	-1.69	99	2	31.1	88							93	
2026	12	-0.19	0.06	106																	

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility						Cow Value		
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight	Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility			
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV		Number	EBV	Number	EBV	Number	EBV			Number	EBV
2016	13219	0.14	0.07	102	12679	9.1	95	12679	-1.48	100	8440	15.3	1794	3	102	3547	-3.4	2382	-3.3	17317	7.0	92	91
2017	13995	0.13	0.10	101	13543	9.5	95	13543	-1.37	100	9155	16.1	1876	5	102	3705	-3.9	2610	-3.3	17744	7.7	93	92
2018	14638	0.19	0.05	101	14085	10.0	96	14085	-1.34	100	9471	16.9	2043	6	101	3752	-4.9	2671	-3.5	18478	8.4	96	93
2019	14156	0.27	0.02	100	13892	10.8	98	13892	-1.52	100	9219	18.0	2528	6	101	4491	-5.8	3152	-3.8	18218	9.0	97	94
2020	15148	0.25	0.00	101	15376	10.8	98	15376	-1.55	99	10390	17.9	2588	6	100	4524	-5.8	3018	-3.8	19306	9.7	97	94
2021	16009	0.27	0.04	100	16004	10.8	98	16004	-1.35	100	10852	18.0	2635	6	100	4750	-5.2	2794	-3.8	18490	8.9	97	95
2022	17601	0.32	-0.01	100	16942	11.8	99	16942	-1.58	99	11576	19.5	2295	8	100	4355	-6.7	1065	-4.2	8636	9.8	100	97
2023	18573	0.32	-0.02	100	18307	11.8	99	18307	-1.53	100	11750	19.7	741	11	99	2183	-7.2	100	-4.8			102	98
2024	18117	0.35	-0.05	100	16963	12.1	100	16963	-1.48	100	9904	20.0	3	6	99	166	-7.7					105	99
2025	17947	0.27	-0.03	101	15468	12.0	100	15468	-1.38	100	2468	22.0			98								99
2026	5644	0.19	0.00	102	192	13.1	102	192	-1.95	98													100

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			
2024																									
2025																									
2026																									

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						
2017	62	-38	100	1015	76	101	979	12.8	103	953	4	105	953	15	102	101	0.00	91	0.00	98	0.00	95	93	97	91	
2018	16	-50	110	835	94	106	830	14.6	106	830	6	107	830	18	105	33	1.18	103	0.28	103	0.55	104	108	102	93	
2019	13	-43	103	772	95	106	773	14.5	106	767	6	108	766	19	106	32	0.58	97	-0.14	96	0.44	102	100	101	94	
2020	15	-50	110	1035	102	108	1026	15.8	108	960	6	108	960	21	108	60	1.56	107	-0.22	94	0.67	107	109	104	96	
2021	20	-40	101	1162	102	108	1151	15.5	108	1048	5	107	1048	21	108	148	1.41	106	-0.20	95	0.46	103	106	104	97	
2022	20	-45	106	1222	104	109	1266	14.4	106	1115	5	106	1115	21	108	147	1.11	103	-0.08	97	0.28	100	103	104	99	
2023	10	-52	112	1270	110	110	1263	15.5	108	1127	5	107	1127	22	109	250	1.52	107	0.14	101	0.58	105	109	106	101	
2024	11	-49	109	918	108	110	945	16.3	109	790	5	106	790	22	109	127	1.57	107	0.12	100	0.66	106	108	105	101	
2025				54	90	105	58	13.0	103	58	0	98	58	14	100	25	1.70	109	-0.30	93	0.47	103	108	100	106	
2026																										

Sires

Bull			Selection Values								Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease	Calf Grwth	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	
			Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
AHD 140147		AHD 100113	83	120	69	83	93	74	112	74	80	120	116	69	125	121	114	104	107	81	109	93	103	114	117	98	111	93	66	
140147			94	94	91	85	88	83	83	83	2.02	23.9	-0.70	-10.0	38.7	31	121	-43	15.1	7.4	-5.8	10.5	3	27	2.55	0.00	0.94	16	51	
AHD 200053		AHD 170168 AHD 160135	85	115	82	88	112	95			87	115	100	82	114	112	109		104	112	116	100	107	103	113	108		23	19	
20 0053			79	82	59	21	46	54			1.45	20.6	-0.07	-6.5	30.0	21	104		13.2	-17.1	-7.4	14.9	5	16	2.15	0.57		1	1	
AHD 200104		AHD 170037 AHD 120038	108	115	76	96	108	105	105	101	106	115	103	76	108	103	111	109	100	103	117	100	107	107	110	106	117	13	10	
20 0104			88	88	84	81	83	78	81	79	-0.19	20.5	-0.17	-8.0	25.5	11	113	-49	11.1	-9.7	-7.5	14.9	6	20	1.88	0.46	1.26			
											89	88	84	84	86	81	81	81	81	83	81	85	81	81	81	81	81			
BOS 133079		WO 100126 BOS 088142	95	114	101	75	105	97	105	94	101	114	82	101	114	129	102	85	95	107	101	105	98	112	118	83	120	1	36	
BOS133079			74	89	83	53	72	69	40	63	0.26	20.3	0.64	-1.3	29.6	41	79	-23	8.1	-12.7	-4.3	17.8	1	25	2.65	-0.88	1.41	1	41	
											75	89	70	83	74	53	59	19	63	79	52	85	57	56	41	37	36			
BOS 133309		BOS 099241 BOS 088064	119	108	78	94	110	105	92	99	111	108	121	78	107	105	92	82	89	119	104	103	88	101	99	92	105	1	117	
BOS133309			81	96	90	59	83	76	38	68	-0.58	16.6	-0.87	-7.6	24.3	13	42	-19	5.0	-22.2	-5.0	16.7	-5	14	0.71	-0.39	0.55	1	92	
											82	96	76	90	87	59	57	14	62	88	70	91	58	56	29	27	27			
BOS 177085		BOS 144090 BOS 144200	71	133	99	72	117	108	120	107	53	133	142	99	130	135	127	122	103	105	120	115	124	133	115	118	113	23	30	
BOS177085			79	87	73	61	60	67	50	64	4.28	31.2	-1.72	-1.7	42.5	47	170	-63	13.0	-11.6	-8.0	24.3	16	44	2.35	1.16	1.03	5	16	
											83	87	66	73	70	61	60	35	67	64	43	72	68	66	36	32	31			
BOS 233486		BOS 177085 BOS 166026	70	124	99	83	99	93	111	91	53	124	143	99	119	118	114	108	117	87	102	108	105	116	112	112	108	13	11	
BOS233486			86	87	83	82	82	77	81	78	4.28	26.0	-1.77	-1.7	33.9	27	124	-48	21.0	2.7	-4.4	19.6	4	29	2.06	0.82	0.77			
											87	87	83	83	82	82	82	80	82	82	81	84	82	82	80	80	80			
CM 180238	X	120105 CM 150210	106	108	93	97	102	104			110	108	87	93	109	102	101	98	103	106	110	90	100	99	101	114	109		6	
CM18238			66	70	56	29	47	50			-0.47	16.9	0.46	-3.3	26.2	9	76	-37	12.9	-12.2	-6.2	8.9	2	13	0.97	0.92	0.80	2	2	
											69	70	56	56	60	29	16	5	22	53	25	64	16	16	6	6	6			
FCK 180014		FCK 140116 FCK 120052	84	108	110	89	108	102	111	100	86	108	138	110	105	110	111	103	97	133	101	91	114	114	110	110	104	51	44	
FCK180014			93	93	89	87	88	83	86	84	1.52	16.6	-1.55	1.3	22.8	18	113	-43	9.5	-32.9	-4.2	9.5	10	27	1.83	0.68	0.51	4	4	
											94	93	89	89	90	87	86	85	86	88	86	90	86	86	85	85	85			
FFB 120079		BOS 033044 FFB 080022	94	111	106	100	106	112	88	105	93	111	103	106	111	98	95	103	97	100	120	95	109	102	90	91	76		7	
FFB120079			71	77	76	39	60	60	26	53	0.91	18.4	-0.18	0.3	27.3	4	56	-43	9.3	-7.8	-8.0	11.6	7	16	-0.15	-0.43	-1.09	7	25	
											72	77	69	76	60	39	38	13	40	65	46	69	40	40	20	19	18			
JAN 155002		BOS 100121 BOS 100179	106	120	67	89	130	115	123	114	99	120	119	67	122	112	117	95	115	141	117	115	117	120	117	96	134	189	153	
155002			96	96	90	71	74	79	36	70	0.42	23.6	-0.79	-10.6	35.7	21	135	-34	19.6	-39.5	-7.6	24.1	11	33	2.48	-0.14	2.25	54	92	
											97	96	91	90	78	71	56	13	60	85	53	85	61	59	32	29	28			

Sires

Bull				Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID	Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	FCR	Scrotal	Heifer	Cow	Long-evi	Height	Length	EMA	Fat	Marbling	Birth	Wean
				Ease Value	Grwth Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty							Grwth Test
PD 100079		2516	PD 070073	95	111	108	96	87	98	94	93	96	111	98	108	113	101	106	108	102	83	86	102	97	96	105	117	108	48	42
10 079				91	93	90	82	86	81	80	81	0.65	18.5	0.04	1.0	28.8	9	94	-47	12.4	5.7	-1.3	16.0	0	10	1.35	1.09	0.74		
												92	93	87	90	88	82	81	80	81	87	82	90	81	81	80	80	80	16	38
PD 110244			PD 080268	99	112	94	99	95	100			102	112	93	94	98	99	114		115	91	105	94	110	105	112	92	114	168	140
11 244				96	96	93	23	78	73			0.21	19.0	0.22	-3.0	17.3	6	122		19.9	-0.3	-5.0	11.1	7	18	2.08	-0.33	1.08		
												97	96	92	93	87	23	23		23	88	54	92	24	22	6	5	5	53	177
PD 140155		PD 080174	PD 040117	100	96	106	119	106	114			98	96	106	106	92	82	91		94	101	118	97	103	90				16	16
PD14-0155				70	80	69	21	53	55			0.53	9.9	-0.30	0.3	13.2	-13	39		7.6	-8.2	-7.6	13.1	3	4					
												75	80	54	69	60	21	6		8	54	32	72	7	7				6	13
PR 190026		PB 160059	PR 160019	90	114	65	91	108	85	105	83	100	114	74	65	108	110	110	111	112	108	111	101	110	105	105	107	109	113	106
PR 190026				96	97	94	93	94	87	92	88	0.36	19.9	0.99	-11.2	25.1	19	110	-51	18.0	-13.3	-6.3	15.4	7	18	1.37	0.54	0.81		
												97	97	94	94	94	93	92	92	92	94	93	95	92	92	92	92	92	9	9
RG 220099		JAN 155002	RG 180037	131	97	76	96	122	111	104	107	127	97	101	76	100	103	95	76	99	126	121	107	102	99	91	94	110	42	25
22 099				90	90	84	81	82	78	80	78	-1.92	10.3	-0.08	-8.1	18.9	11	53	-13	10.5	-28.0	-8.3	19.0	3	12	-0.03	-0.24	0.88		
												92	90	84	84	82	81	80	79	80	82	80	84	80	80	79	79	79		
ROCK150262		BOS 110026	ROCK080412	86	123	101	86	132	127			86	123	103	101	122	114	124	121	127	121	149	106	115	121	122	103	110	48	47
				86	90	83	23	64	65			1.49	25.2	-0.19	-1.0	36.4	23	160	-62	26.3	-24.1	-13.9	18.5	10	33	3.00	0.26	0.88	16	48
												90	90	72	83	78	23	22	10	23	69	41	81	23	22	15	14	14		
SUN 150012		PD 110244	SUN 110004	106	105	88	99	103	100			110	105	83	88	95	100	100		105	105	103	101	108	99				26	18
15-12				79	81	68	11	56	56			-0.51	14.9	0.62	-4.8	15.3	7	74		13.8	-11.6	-4.7	15.7	6	13				8	8
												84	81	62	68	62	11	11		12	65	31	72	12	11					
SUN 170003		PD 100079	SUN 120006	105	100	102	95	89	90			102	100	105	102	100	103	98	104	99	86	88	99	103	96					2
SUN 170003				61	67	57	23	41	47			0.13	11.9	-0.25	-0.8	18.8	10	64	-44	10.6	3.3	-1.8	14.4	3	10				1	1
												64	67	50	57	39	23	15	11	16	41	24	59	16	16					
TR 150021			TR 120079	117	102	108	94	106	114	97	107	125	102	70	108	96	104	100	93	104	109	119	88	100	99	103	108	111	24	21
MR WENTZEL				85	86	79	75	77	74	75	74	-1.71	13.2	1.13	0.8	16.2	11	70	-31	13.6	-14.8	-7.9	7.3	2	12	1.12	0.55	0.94	3	6
												87	86	79	79	82	75	75	75	75	77	75	79	75	75	75	75	75		
TR 210017			TR 160017	93	119	97	89	102	104	112	102	93	119	102	97	116	110	114	102	117	109	109	90	118	118	111	98	113	11	6
MR ROB				83	79	77	75	76	71	74	72	0.94	23.1	-0.14	-2.3	31.6	19	122	-41	20.6	-14.9	-5.8	8.5	12	31	1.97	0.00	1.01	1	1
												84	79	78	77	76	75	74	74	75	75	74	78	75	75	74	74			
TR 211112			TR 120062	121	79	100	128	107	111	82	102	127	79	76	100	77	72	77	63	89	124	107	89	86	77	77	96	100	9	4
MR XODUS				81	80	76	74	75	71	74	72	-1.87	0.0	0.91	-1.5	1.6	-25	-11	1	5.0	-26.2	-5.5	8.0	-6	-9	-1.38	-0.12	0.28		
												82	80	76	76	78	74	74	74	74	74	74	77	74	74	74	74	74		

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID  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.	
TR 220005		AHD 140147  TR 140005	70	133	90	80	101	95	120	95	62	133	94	90	132	123	128	121	120	86	115	101	122	131	133	106	117	6	2
MR BEAU			84	84	82	78	79	75	77	75	3.46	31.2	0.17	-4.2	43.4	34	173	-62	22.3	3.8	-7.1	15.4	14	43	4.06	0.48	1.25		
											85	84	81	82	82	78	77	77	77	79	78	81	77	77	77	77	77		
TR 220008		 TR 200088	76	120	101	86	103	99	109	96	78	120	99	101	121	114	105	91	96	111	114	86	115	112	109	88	106	5	4
MR QUINNIE			80	80	76	74	75	71	74	72	2.12	24.0	-0.02	-1.0	35.1	24	90	-29	9.1	-16.4	-6.8	6.0	10	25	1.69	-0.62	0.61		
											81	80	76	76	77	74	74	74	74	74	74	76	74	74	74	74	74		
WO 080044		 WO 050389  WO 060163	92	99	112	123	87	104	99	100	93	99	98	112	101	78	101	98	77	68	104	97	83	96	98	78	93		78
WO080044			92	96	94	88	91	85	86	85	0.88	11.6	0.03	2.0	19.6	-19	75	-37	-1.8	17.6	-4.9	12.7	-8	10	0.66	-1.16	-0.09	1	25
											92	96	91	94	92	88	88	84	89	92	88	94	89	88	85	85	85		117

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

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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																														
BOS 199246 89732796 BOS199246	2	BOS 133309 BOS 111314		110 49	106 86	85 64	101 38	112 62	109 56	90 24	102 50	91 18	105 -0.09 50	111 -0.50 46	98 5	106 15.5	85 -5.5	93 26	107 24.3 69	92 42 36	82 -19 10	86 3.4 39	116 -20.2 76	104 -4.8 41	109 20.6 70	93 -3 37	97 11 37	96 0.43 18	98 -0.03 17	102 0.38 16
TR 210017 95571782 MR ROB		TR 160017		93 83	119 79	97 77	89 75	102 76	104 71	112 74	102 72	112 74	93 0.94 84	102 -0.14 78	110 19 75	119 23.1 79	97 -2.3 77	111 67 77	116 31.6 76	114 122 74	102 -41 74	117 20.6 75	109 -14.9 75	109 -5.8 74	90 8.5 78	118 12 75	118 31 75	111 1.97 74	98 0.00 74	113 1.01 74
RG 220099 94661444 22 099	1	JAN 155002 RG 180037		131 90	97 90	76 84	96 81	122 82	111 78	104 80	107 78	90 79	127 -1.92 92	101 -0.08 84	103 11 81	97 10.3 90	76 -8.1 84	74 -19 85	100 18.9 82	95 53 80	76 -13 79	99 10.5 80	126 -28.0 82	121 -8.3 80	107 19.0 84	102 3 80	99 12 80	91 -0.03 79	94 -0.24 79	110 0.88 79
TR 220005 96049408 MR BEAU		AHD 140147 TR 140005		70 84	133 84	90 82	80 78	101 79	95 75	120 77	95 75	130 77	62 3.46 85	94 0.17 81	123 34 78	133 31.2 84	90 -4.2 82	114 74 81	132 43.4 82	128 173 77	121 -62 77	120 22.3 77	86 3.8 79	115 -7.1 78	101 15.4 81	122 14 77	131 43 77	133 4.06 77	106 0.48 77	117 1.25 77
AHD 230027 95694519 AHD 230027		PR 190026 AHD 160090		85 87	124 88	78 83	88 80	115 82	102 77	100 80	98 78	107 79	92 1.02 88	82 0.65 83	113 22 80	124 25.8 88	78 -7.7 83	99 41 84	122 36.2 82	108 100 80	110 -50 79	105 14.0 80	109 -14.8 82	120 -8.1 80	107 19.2 83	113 9 80	108 21 80	108 1.69 79	100 0.12 79	110 0.88 79
BOS 233486 96224134 BOS233486	2	BOS 177085 BOS 166026		70 86	124 87	99 83	83 82	99 82	93 77	111 81	91 78	117 80	53 4.28 87	143 -1.77 83	118 27 82	124 26.0 87	99 -1.7 83	114 75 84	119 33.9 82	114 124 82	108 -48 80	117 21.0 82	87 2.7 82	102 -4.4 81	108 19.6 84	105 4 82	116 29 82	112 2.06 80	112 0.82 80	108 0.77 80
TR 230004 96221940 MR BARRY		AHD 140147 TR 150043		103 60	106 60	93 51	91 17	94 35	90 42				98 0.47 63	113 -0.57 51	108 16 17	106 15.3 60	93 -3.4 51	95 30 43	109 25.8 56				89 0.9 38	103 -4.6 19	94 11.1 49					
NBS 240023 98230485 NBS 240023		AHD 140147 TR 200017		106 61	104 50	85 50	92 17	94 36	87 40				104 -0.01 63	104 -0.22 52	108 16 17	104 14.3 50	85 -5.7 50	87 11 39	105 23.3 46				88 2.2 39	102 -4.5 19	97 12.8 50					
NBS 240030 98230501 NBS 240030		AHD 140147 TR 140005		82 83	124 84	99 82	79 78	100 79	98 75	118 77	97 75	124 77	85 1.54 84	95 0.13 81	124 34 78	124 26.2 84	99 -1.7 82	112 70 81	125 38.2 82	122 152 77	113 -53 77	111 17.1 77	88 1.7 79	108 -5.6 78	105 17.6 81	117 11 77	125 37 77	125 3.30 77	97 -0.07 77	113 1.02 77
NBS 240033 98230527 NBS 240033		AHD 140147 TR 200025		74 82	129 83	93 81	80 77	103 79	96 74	113 76	95 74	116 76	68 3.01 83	106 -0.27 80	123 34 77	129 28.6 83	93 -3.5 81	111 68 80	129 41.4 82	115 127 76	105 -45 76	110 17.1 77	89 1.3 79	120 -8.0 77	98 13.5 80	120 13 77	124 36 77	118 2.61 76	95 -0.16 76	114 1.09 76
NBS 240034 98230535 NBS 240034		AHD 140147 TR 210045		96 82	118 83	89 81	86 77	99 79	96 74	115 76	95 74	118 76	92 0.99 83	113 -0.58 80	115 24 77	118 22.4 83	89 -4.5 81	102 46 80	119 33.7 82	116 130 77	105 -44 76	110 16.9 77	84 5.4 79	116 -7.3 77	98 13.6 80	114 9 77	120 33 77	118 2.62 76	106 0.47 76	112 1.00 76
NBS 240035 98230543 NBS 240035		AHD 140147 TR 180015		101 82	115 83	103 81	90 77	110 79	114 74	109 76	111 74	112 76	101 0.29 83	99 -0.02 80	109 17 77	115 20.6 83	103 -0.5 81	112 71 80	118 33.1 82	109 105 77	101 -40 76	103 12.8 77	99 -6.5 79	124 -8.8 77	100 14.8 80	109 6 77	112 25 77	112 2.06 76	111 0.74 76	112 1.00 76

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Green: >120 High
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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	
NBS 240039 98230550 NBS 240039		AHD 140147 TR 190006	70 62	123 64	103 53	79 17	101 36	94 44				71 2.78 65	95 0.16 51	123 34 17	123 25.6 64	103 -0.4 53	114 76 45	124 37.2 58				86 3.8 40	109 -5.9 19	107 18.9 48						
NBS 240041 98230576 NBS 240041		TR 150021 G-TR 200020	101 80	107 81	105 78	104 75	110 76	117 72	100 75	112 73	102 75	106 -0.16 81	83 0.63 77	94 1 75	107 16.2 81	105 0.1 78	113 73 78	103 21.1 80	105 89 75	98 -37 75	110 16.9 75	108 -13.8 76	123 -8.6 75	94 10.9 77	107 6 75	105 18 75	106 1.42 75	104 0.34 75	111 0.92 75	
NBS 250043 99397267 NBS 250043		BOS 233486 TR 200009	81 57	110 60	110 43	87 19	93 24	90 39			108 10	78 2.17 62	116 -0.67 40	112 21 19	110 17.8 60	110 1.4 43	111 68 41	106 23.7 30	107 98 17	108 -48 10	111 17.2 19	87 2.6 25	100 -4.2 14	97 13.0 34	109 7 19	112 25 19	103 1.13 10	102 0.25 9	99 0.26 9	
NBS 250045 99397283 NBS 250045		BOS 233486 TR 140005	76 58	123 62	109 46	82 20	103 24	102 40			119 10	65 3.28 62	111 -0.49 42	119 29 20	123 25.2 62	109 1.0 46	119 88 43	118 33.3 34	118 136 17	114 -54 10	117 20.8 19	91 -0.5 25	105 -5.0 14	110 21.0 34	117 11 19	122 34 19	117 2.53 10	102 0.22 9	100 0.28 9	
NBS 250053 99397317 NBS 250053		RG 220099 TR 230024	105 61	104 65	83 44	94 22	110 31	97 42			95 8	104 0.00 66	99 -0.03 45	105 13 22	104 14.3 65	83 -6.3 44	86 9 44	106 23.8 38	98 65 15		99 10.8 16	110 -15.0 36	112 -6.6 17	102 15.9 40	102 3 16	102 15 16	95 0.37 8	95 -0.20 7	107 0.71 7	
NBS 250060 99397325 NBS 250060		RG 220099 TR 210138	121 58	94 60	88 41	94 21	107 26	99 39			90 8	117 -1.04 62	107 -0.35 42	105 12 21	94 8.6 60	88 -4.8 41	80 -5 41	94 14.8 26	94 52 15		99 10.8 16	111 -15.7 26	107 -5.5 15	101 15.6 36	109 6 16	100 14 16	89 -0.20 8	85 -0.76 7	84 -0.64 7	
NBS 250082 99397341 NBS 250082		RG 220099 TR 230016	113 60	96 64	80 43	100 22	107 31	95 42			87 8	111 -0.61 65	101 -0.10 43	99 6 22	96 9.8 64	80 -7.0 43	78 -10 43	99 18.0 35	91 39 15		93 7.4 16	110 -15.6 36	109 -5.9 17	99 14.3 39	94 -2 16	94 7 16	87 -0.38 8	94 -0.27 7	105 0.57 7	
NBS 250107 99579617 NBS 250107		BOS 233486 TR 160017	78 58	126 61	108 43	80 21	99 24	102 39			119 10	57 3.92 62	115 -0.66 42	121 31 21	126 27.0 61	108 0.7 43	121 91 42	122 35.9 30	118 137 17	112 -52 10	118 21.4 19	90 0.4 25	105 -5.0 14	103 16.9 34	117 12 19	123 35 19	116 2.44 10	104 0.33 9	107 0.70 9	
NBS 250136 99684581 NBS 250136		RG 220099 TR 200017	116 60	98 46	91 41	100 21	106 26	104 36			88 8	113 -0.76 64	102 -0.14 45	99 6 21	98 11.0 46	91 -3.8 41	90 18 36	98 17.6 29	92 44 15		97 9.1 16	110 -15.5 26	109 -5.8 15	99 13.9 37	102 2 16	97 11 16	87 -0.47 8	94 -0.26 7	104 0.52 7	
NBS 250137 99871949 NBS 250137		BOS 233486 TR 220079	90 56	103 44	106 31	95 19	90 23	88 33			96 10	87 1.39 61	111 -0.48 37	103 10 19	103 13.8 44	106 0.2 31	105 53 31	100 18.8 31	97 60 17	98 -37 10	102 12.0 19	87 2.7 23	97 -3.4 14	93 10.7 33	98 0 19	100 14 19	91 -0.03 10	102 0.20 9	99 0.25 9	
NBS 250210 99616377 NBS 250210		SUN 170004	87 32	106 56	110 37	91 11	80 25	82 31				90 1.13 33	93 0.24 30	107 16 11	106 15.5 56	110 1.4 37	109 64 35	104 21.9 24	103 85 7	113 -53 5	105 13.8 8	77 10.2 29	90 -2.0 14	86 6.3 33	115 10 8	109 22 8				
NBS 250226 99616450 NBS 250226		SUN 180020	96 29	99 56	105 35	105 6	83 24	89 29				98 0.50 31	94 0.18 24	94 1 6	99 11.6 56	105 0.1 35	104 53 32	94 14.6 24				82 6.4 27	97 -3.4 13	84 4.6 31						

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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				32	58	41	6	28	32	32	33	6	58	41	35	28	6	6.0	13	5.2	-5.3	-3.8	4.6	-2	-1	6	6				
NBS 250231 99616716 SUN 150022 NBS 250231				102	88	108	114	90	94				105	89	88	88	108	97		83	84		90	97	99	84	93	85			
				32	58	41	6	28	32				-0.10	0.37	-7	4.9	0.8	34	6.0	13		5.2	-5.3	-3.8	4.6	-2	-1				
													32	33	6	58	41	35	28	6		6	30	18	35	6	6				
NBS 250233 99616427 SUN 180030 NBS 250233				107	92	105	105	88	92				106	100	94	92	105	97		91	88	95	91	94	98	83	97	90			
				31	56	37	12	25	31				-0.14	-0.05	0	7.7	-0.1	34	12.3	28	-34	6.2	-2.7	-3.6	4.5	0	4				
													32	27	12	56	37	35	23	7	5	8	28	16	32	8	8				
NBS 260003 99871998 RG 220099 TR 230042 NBS 260003				98	112	84	87	106	96		104	98	100	113	112	84	93		113	106		106	100	113	102	110	111	105	95	110	
				61	52	40	23	30	39		8	0.51	-0.05	22	19.1	-5.8	25	29.2	95		14.6	-7.6	-6.7	16.0	7	23	1.36	-0.16	0.84		
													66	45	23	52	40	38	38	15		16	35	17	38	16	16	8	7	7	
NBS 260011 6020088503 RG 220099 TR 230022 NBS 260011				121	95	79	94	103	91		92	118	101	105	95	79	74		98	96		98	99	107	101	102	99	93	90	96	
				60	52	39	22	30	38		8	-1.16	-0.11	13	9.5	-7.3	-19	17.5	56		10.0	-7.0	-5.6	15.5	2	12	0.19	-0.48	0.05		
													65	44	22	52	39	38	37	15		16	36	17	38	16	16	8	7	7	
NBS 260012 6020088511 RG 220099 TR 210014 NBS 260012				125	90	85	102	105	98		79	121	102	97	90	85	76		91	85		91	111	104	99	98	89	80	83	80	
				58	45	38	21	24	35		8	-1.42	-0.15	4	6.3	-5.5	-14	11.9	18		6.2	-15.9	-4.9	14.4	0	3	-1.07	-0.87	-0.85		
													62	42	21	45	38	35	27	15		16	24	15	34	16	16	8	7	7	
NBS 260024 6020203433 RG 220099 TR 200090 NBS 260024				117	92	100	97	103	99		85	116	97	101	92	100	89		93	90		96	109	106	95	104	95	85	84	82	
				56	43	35	21	24	33		8	-0.99	0.06	9	7.3	-1.5	15	13.5	36		8.6	-14.4	-5.2	11.5	4	9	-0.61	-0.81	-0.74		
													60	40	21	43	35	33	23	15		16	24	15	34	16	16	8	7	7	
NBS 260028 6020354459 TR 220004 NBS 260028				90	89	109						94	90		89	109	100		86				85		72						
				47	19	24						0.86	0.34		5.6	1.1	43	8.6				4.2		-2.7							
												53	28		19	24	16	16				6		14							
NBS 260033 6020354467 TR 220032 NBS 260033				75								79	94											77							
				45								2.07	0.18										0.4								
												50	28										14								

Breeding Values and Accuracies: Cows

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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	
TR 120062	95423497			92	97	108	110	104					104	63	91	97	108	106	96				111		100						
WINTERBERGER MAIVE 2				58	53	66	16	20					-0.01	1.43	-3	10.5	0.7	56	16.0				-15.8		14.6						
												58	60	16	53	66	45	42				24		35							
TR 120079	95423505			113	94	121							115	88				108	91				102		89						
WINTERBERGER PRIDE 9				60	55	62							-0.95	0.42			8.6	4.6	60	12.2				-9.3		7.7					
												60	60			55	62	39	44				21		33						
TR 140005	95423513			74	115	119	85	106					84	74	113	115	119	123	112				98		111						
WINTERBERGER SATIN 3				62	62	75	8	20					1.62	0.97	23	20.7	4.0	96	28.4				-5.9		21.5						
												61	64	8	62	75	48	52				24		34							
SUN 150004	FFB 120079			106	102	102	100	109	111			87	102	108	98	102	102	103	101	90	99	94	108	117	99	107	97	84	83	64	
82466301	SUN 120009			60	70	77	20	49	52			10	0.13	-0.38	5	13.1	-0.9	48	19.8	37	-38	7.9	-13.8	-7.4	14.2	5	10	-0.71	-0.91	-1.73	
15-4													59	62	20	70	77	56	42	19	7	20	57	33	56	20	20	10	9	9	
SUN 150007	FFB 120079			108	93	104	102	102	101			84	106	104	96	93	104	95	93	87	96	92	102	111	94	104	94	82	82	63	
82466798	SUN 120021			60	56	67	20	40	45			10	-0.13	-0.22	3	8.0	-0.4	31	13.5	26	-35	6.6	-8.8	-6.2	11.4	4	7	-0.94	-0.94	-1.79	
15-7													59	62	20	56	67	48	36	19	7	20	39	25	57	20	20	10	9	9	
SUN 150008	FFB 120079			91	103	118	94	100	103			93	94	95	103	103	118	115	102	95	105	99	101	106	95	113	103	89	84	66	
82466335	SUN 110009			56	66	68	20	48	49			10	0.86	0.14	10	14.1	3.5	77	21.0	54	-44	10.3	-8.1	-5.2	11.4	9	16	-0.20	-0.85	-1.61	
15-8													56	58	20	66	68	51	41	19	7	20	53	33	58	20	20	10	9	9	
SUN 150022	PD 110244			96	100	106	104	109	108				102	84	95	100	106	105	92	95		100	110	111	101	102	92				
82466467	SUN 120005			65	74	80	11	54	54				0.21	0.58	1	11.9	0.2	54	13.2	53		11.0	-15.3	-6.4	15.7	3	6				
15-22													65	66	11	74	80	55	56	11		12	60	37	64	12	11				
SUN 150030	FFB 120079			79	97	120	100	83	85			82	91	71	97	97	120	113	97	86	95	91	71	94	96	103	92	80	82	63	
82466533	SUN 120018			57	66	68	22	46	49			10	1.11	1.08	4	10.5	4.2	74	16.6	22	-33	6.0	15.3	-2.8	12.2	3	6	-1.10	-0.96	-1.83	
15-30													57	59	22	66	68	52	42	19	7	20	55	26	58	20	20	10	9	9	
TR 150043	95423596			121	90	117		93					115	111					89				96		93						
WINTERBERGER PRIDE 15				54	44	59		13					-0.89	-0.49			6.4	3.3		10.9			-4.3		10.5						
													53	58			44	59		38			6		32						
BOS 166026	WO 080044			88	106	91	109	91	91	96	86	97	86	127	93	106	91	101	102	98	89	99	80	99	99	89	95	100	93	98	
83794248	BOS 033372			61	70	63	43	56	54	27	49	20	1.53	-1.11	-1	15.9	-4.0	45	20.8	64	-27	10.5	7.8	-3.9	13.9	-5	9	0.86	-0.28	0.19	
BOS166026													62	58	43	70	63	59	54	36	16	38	63	40	66	37	36	21	19	19	
TR 160017	95423604			73	117	113	83	98	96				83	77	117	117	113	119	115				95		97						
WINTERBERGER SATIN 5				63	55	65	17	18	41				1.77	0.84	26	22.1	2.3	86	30.5				-3.8		12.8						
												62	65	17	55	65	46	42					23		30						
BOS 177258	BOS 133079			88	113	107	83	111	105	105	101	108	92	91	118	113	107	109	111	108	95	98	106	110	110	101	110	112	95	117	
86299070	BOS 133183			45	73	75	34	55	53	24	47	22	1.01	0.28	28	19.6	0.4	63	27.9	100	-33	9.9	-12.2	-6.0	20.9	2	23	2.07	-0.20	1.28	
BOS177258													46	43	34	73	75	61	55	36	11	39	61	42	63	36	36	23	21	20	

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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																														
SUN 170001 86002540 SUN 170001		PD 100079 SUN 110001	112 64	90 71	101 75	101 33	108 49	104 55				109 -0.42 66	104 -0.22 58	97 3 33	90 6.5 71	101 -1.1 75	90 19 60		90 11.0 48	88 27 15	92 -31 11	90 5.7 16	124 -25.9 57	96 -3.3 30	104 17.1 61	92 -3 16	84 -2 16			
SUN 170004 86002615 SUN 170004		PD 100079 SUN 110006	83 65	108 69	122 71	89 23	89 49	94 52				89 1.28 67	86 0.49 59	108 17 23	108 16.6 69	122 4.8 71	120 90 54		108 25.2 48	105 90 15	112 -52 11	105 14.0 16	82 6.4 58	84 -0.8 28	107 19.3 60	111 8 16	105 18 16			
SUN 170006 86002557 SUN 170006		PD 100079 SUN 120004	104 65	95 66	105 64	111 23	76 48	87 50				104 0.02 67	97 0.05 58	90 -4 23	95 9.1 66	105 0.0 64	101 45 51		96 16.1 50	83 9 15	86 -24 11	86 3.3 16	71 15.0 55	69 2.2 31	103 16.6 58	86 -6 16	78 -7 16			
SUN 170008 86002573 SUN 170008		PD 100079 SUN 120018	79 65	101 70	117 73	91 33	89 48	85 54				90 1.18 67	72 1.05 59	107 15 33	101 12.8 70	117 3.2 73	110 66 59		101 20.1 48	95 55 15	101 -40 11	97 9.3 16	77 10.7 57	92 -2.5 27	105 17.8 60	100 2 16	93 7 16			
SUN 170010 86002599 SUN 170010		PD 100079 SUN 110005	105 65	95 71	110 76	102 33	78 51	87 55				105 -0.07 67	98 0.04 59	96 2 33	95 9.4 71	110 1.3 76	103 50 60		97 16.3 48	89 31 15	93 -32 11	91 6.1 16	66 19.2 61	77 0.6 32	105 17.8 60	93 -3 16	85 -1 16			
TR 170012 95423638 WINTERBERGER SATIN 6		TR 140005	80 61	106 60	112 74	102 12	97 17	100 43				89 1.23 60	77 0.84 64	96 2 12	106 15.7 60	112 1.9 74	117 82 49		103 21.6 50			95 -3.4 17		98 13.4 34						
SUN 180020 88320023 SUN 180020		PD 140155 SUN 150018	98 59	100 68	111 67	112 12	96 46	107 48				101 0.28 62	90 0.33 47	89 -5 12	100 11.9 68	111 1.6 67	112 71 49		94 14.2 48	93 47 6		97 9.4 7	89 1.3 54	100 -4.1 27	101 15.6 57	103 3 7	92 5 7			
SUN 180022 88319876 SUN 180022		PD 100079 SUN 120014	94 63	93 66	108 65	111 23	89 48	91 50				99 0.42 65	85 0.54 54	91 -3 23	93 7.9 66	108 0.8 65	101 45 51		93 13.4 45	84 13 15	88 -26 11	87 3.8 16	93 -1.7 55	85 -1.1 32	98 13.7 58	88 -6 16	80 -6 16			
SUN 180027 88319900 SUN 180027		PD 100079 SUN 120006	108 63	95 68	112 69	100 23	90 49	97 51				107 -0.25 65	99 -0.02 54	97 4 23	95 9.4 68	112 1.9 69	104 53 53		96 15.9 46	91 41 15	97 -35 11	94 7.5 16	85 4.4 57	89 -1.8 32	102 16.3 58	96 -1 16	89 3 16			
SUN 180030 88319926 SUN 180030		PD 100079 SUN 110001	113 63	96 68	105 70	100 24	105 49	108 51				110 -0.50 65	104 -0.20 54	98 4 24	96 9.9 68	105 0.0 70	99 41 54		97 16.5 46	91 40 15	96 -35 11	93 7.3 16	108 -13.6 56	105 -5.2 32	101 15.5 59	96 -1 16	88 2 16			
SUN 180036 88319975 SUN 180036		PD 140155 SUN 120021	91 58	96 63	115 63	108 11	102 34	105 43				92 1.03 61	99 -0.01 47	93 -1 11	96 9.7 63	115 2.9 63	110 66 46		93 13.7 38				98 -5.7 30	110 -6.0 19	98 13.5 54					
TR 180004 95423620 JEANET 7			121 50	73 46	116 62							116 -0.98 49	109 -0.41 53		73 -3.5 46	116 3.2 62			73 -1.7 32						94 11.3 36					

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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																															
TR 180015 95423646 PRIDE 22		TR 150043	110 54	97 54	125 70		97 16					108 -0.37 53	102 -0.12 57		97 10.6 54	125 5.7 70		96 16.2 44				91 -0.2 11		95 11.8 37							
TR 180021 95423653 MAIVE 6		TR 120062	88 55	107 48	109 62	99 16	95 18	99 37				97 0.56 54	74 0.98 58	99 6 16	107 16.2 48	109 1.2 62	114 76 42		105 22.6 38				97 -5.4 16		95 11.5 38						
OBS 190123 89065304 OBS19123		ROCK150262 OBS 160515	88 68	119 69	98 66	90 13	120 50	116 50		110 8		89 1.21 70	98 0.02 60	108 17 13	119 22.9 69	98 -1.8 66	113 72 49		115 30.4 52	114 122 12	114 -55 5	117 20.8 13	120 -23.0 60	126 -9.2 32	103 16.8 59	113 9 13	112 25 12	111 1.93 8	93 -0.27 7	98 0.17 7	
OBS 190135 89394654 OBS19135		PD 110244 OBS 150010	103 67	103 70	106 68	100 19	82 53	92 52		99 10		101 0.27 69	106 -0.28 59	98 5 19	103 14.0 70	106 0.2 68	108 60 52		94 14.1 55	104 86 19	101 -41 6	101 11.8 20	67 18.2 62	86 -1.2 35	103 16.5 61	108 6 20	103 16 20	100 0.83 10	97 -0.09 9	99 0.22 9	
SUN 190004 89538359 SUN 190004		SUN 120016	120 53	73 53	97 34		85 32					121 -1.42 56	89 0.37 42		73 -3.3 53	97 -2.2 34		73 -1.8 24				102 -8.9 44	87 -1.4 12	81 2.8 41							
SUN 190005 89538367 SUN 190005		SUN 150024	95 52	96 60	108 58	103 10	86 40	88 42		85 5		94 0.86 55	105 -0.24 40	95 2 10	96 9.7 60	108 0.9 58	103 49 43		94 14.3 34	88 28 10		92 6.8 10	68 17.3 50	114 -6.8 26	84 5.0 45	103 3 10	95 9 10	79 -1.24 5	89 -0.55 5	83 -0.68 5	
SUN 190023 89538532 SUN 190023		SUN 110001	107 52	84 58	104 58	113 15	92 34	92 41				108 -0.33 55	95 0.13 42	89 -6 15	84 2.7 58	104 -0.2 58	89 16 44		83 5.7 26			101 -8.0 46	98 -3.6 15	86 6.0 40							
SUN 190035 89907059 SUN 190035		SUN 170004	93 54	94 58	126 57	97 11	80 37	88 41				99 0.41 57	83 0.63 42	99 6 11	94 8.4 58	126 5.9 57	113 74 42		93 13.6 34	94 51 7	103 -42 5	97 9.2 8	82 6.8 48	83 -0.6 20	89 8.1 43	104 4 8	98 11 8				
TR 190006 95423661 PRIDE 23		TR 150021	89 58	102 55	134 64							102 0.16 58	58 1.61 57		102 13.3 55	134 8.0 64		100 18.7 46				97 -4.8 27		108 20.0 26							
TR 190018 95423687 PRIDE 24		TR 180003	80 58	79 51	124 52							90 1.16 59	76 0.89 56		79 -0.3 51	124 5.3 52		78 1.8 46				90 0.6 5		85 5.7 37							
TR 190025 95423703 SATIN 7		TR 170012	95 62	93 60	104 66	115 16	91 21	94 43				102 0.21 62	80 0.74 60	87 -7 16	93 8.3 60	104 -0.3 66	100 43 47		92 12.9 50			95 -3.4 25		90 8.8 37							
TR 190027 95423729 SATIN 8		TR 140005	81 55	106 59	110 64	92 6	91 16	89 38				88 1.30 54	82 0.66 58	105 13 6	106 15.7 59	110 1.5 64	111 68 43		102 20.6 49			87 3.0 12		95 11.4 34							

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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																														
SUN 200001 91570788 SUN 20 0001		SUN 180017	111 32	88 44	108 53	110 11	84 22	92 31				108 -0.37 33	104 -0.20 28	92 -3 11	88 5.2 44	108 0.9 53	96 33 36		87 9.4 23	85 18 7	92 -31 5	89 4.9 8	93 -2.1 21	90 -2.0 12	82 3.7 33	94 -2 8	87 1 8			
SUN 200013 91570705 SUN 20 0013		SUN 120005	110 49	80 61	100 63		111 31					110 -0.51 54	94 0.17 33		80 0.5 61	100 -1.4 63			78 1.7 25				138 -37.3 47	105 -5.1 6	90 8.3 41					
TR 200009 95423745 PRIDE 27		TR 120079	117 61	86 51	119 65		86 19					121 -1.45 62	79 0.76 59		86 4.0 51	119 4.0 65			84 6.6 42				90 0.4 23		84 4.6 33					
TR 200017 95423752 WINTERBERGER MAIVE 8		TR 180021	109 56	96 40	105 56							108 -0.30 55	101 -0.08 58		96 9.7 40	105 0.0 56	100 43 33		93 13.9 34				94 -3.1 21		86 6.4 36					
TR 200020 95423778 SATIN 10		TR 170012	82 50	100 49	117 63	115 32						90 1.20 49	83 0.64 53	87 -8 32	100 12.2 49	117 3.3 63	120 89 48		98 17.2 38				92 -1.5 8		85 5.4 34					
TR 200025 95423786 WINTERBERGER MAIVE 9		TR 120062	89 50	100 48	115 63	110 64	96 20	103 45				96 0.63 49	80 0.73 53	91 -3 64	100 11.8 48	115 2.7 63	115 77 58		98 17.3 36				95 -3.9 24		92 9.7 34					
TR 200045 95443388 F2045			93 44	88 42	106 57							102 0.17 43	75 0.95 47		88 4.9 42	106 0.3 57			87 8.6 24						99 14.4 30					
TR 200047 95443396 TR200047			98 43	90 36	117 50							103 0.11 42	86 0.50 46		90 6.2 36	117 3.5 50			89 10.4 24						100 14.8 30					
TR 200088 95423737 SATIN 9		TR 160017	81 59	110 49	96 60	86 64	92 15	81 45				81 1.94 61	107 -0.34 54	114 23 64	110 17.8 49	96 -2.4 60	100 41 58		107 24.8 36				102 -8.6 12		81 2.8 32					
TR 200090 95443404 F2090			103 37	87 25	123 38							105 -0.05 36	94 0.20 39		87 4.3 25	123 5.1 38									83 4.1 30					
TR 200108 95423760 KIRSTEN 16			122 44	75 40	90 55							119 -1.28 43	100 -0.07 47		75 -2.1 40	90 -4.4 55			75 -0.5 24						89 7.8 30					
EP 210015 93037539 EP 210015		SUN 150013	102 54	90 57	105 50	113 6	86 37	90 39				106 -0.13 57	87 0.46 44	89 -5 6	90 6.3 57	105 -0.1 50	96 33 38		87 8.6 38	84 15 6		90 5.5 6	91 -0.4 51	91 -2.3 17	88 7.2 43	94 -2 6	86 0 6			

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ID Number Name																														
EP 210022 93037521 EP 210022		SUN 170008	98 54	89 59	111 50	104 17	85 35	85 41				103 0.05 57	82 0.66 42	94 1 17	89 5.7 59	111 1.8 50	98 38 42		88 9.8 34	85 17 7	92 -30 5	89 4.7 8	84 4.7 50	91 -2.3 13	91 9.0 42	94 -2 8	87 1 8			
EP 210031 93037497 EP 210031		SUN 180010	105 52	85 56	106 33	119 11	86 34	92 35				106 -0.15 56	96 0.11 39	82 -13 11	85 3.3 56	106 0.1 33	94 28 33		81 4.6 34				90 0.7 47	94 -2.8 14	87 6.5 40					
SUN 210002 91570861 SUN 210002		SUN 180002	113 49	92 61	80 62	116 6	99 35	94 41				112 -0.66 55	99 -0.01 29	88 -7 6	92 7.3 61	80 -7.1 62	77 -13 43		88 9.5 34	81 1 6		87 3.4 6	100 -7.1 48	114 -6.8 18	87 7.0 40	92 -3 6	84 -2 6			
SUN 210019 94848496 SUN 210019		SUN 120009	113 49	83 57	91 57		86 31					113 -0.74 53	94 0.18 33		83 2.5 57	91 -4.0 57			83 5.7 24				94 -2.7 46	91 -2.3 6	85 5.8 40					
TR 210009 95443537 A2109			122 45	81 37	94 52							118 -1.17 44	104 -0.22 48		81 0.9 37	94 -3.1 52			80 3.3 23				99 -6.8 22		94 11.1 30					
TR 210012 95443529 A2112			98 48	86 36	108 50							104 -0.01 47	81 0.69 50		86 3.8 36	108 0.9 50			85 7.2 12				92 -1.4 22		101 15.5 31					
TR 210013 95443545 A2113			105 44	84 26	113 38							107 -0.27 43	92 0.28 47		84 3.1 26	113 2.1 38								96 12.2 30						
TR 210014 95443552 A2114			121 44	82 34	94 48							118 -1.13 43	103 -0.18 47		82 1.6 34	94 -3.1 48			81 4.3 27					92 9.8 30						
TR 210033 95423836 WINTERBERGER MS PRADA 6		TR 180003	101 53	76 51	102 48							104 0.03 55	90 0.34 47		76 -1.8 51	102 -0.9 48			74 -1.4 48				93 -1.8 21		77 0.6 29					
TR 210045 95423828 WINTERBERGER MS RENELLA 5		TR 180015	117 58	91 59	112 63		86 18					115 -0.89 59	102 -0.12 53		91 6.9 59	112 2.1 63			88 9.6 51				77 10.8 22		88 7.6 30					
TR 210064 95443412 M2164			136 45	75 42	88 58							126 -1.85 44	119 -0.81 48		75 -2.6 42	88 -4.9 58			74 -1.1 16					91 9.0 12						
TR 210103 95423802 WINTERBERGER MS SATIN 11		TR 190027	90 41	96 38	118 43	98 6						94 0.82 40	90 0.33 43		99 6 6	96 10.0 38	118 3.5 43	110 65 29		93 13.9 29			82 6.3 6		81 3.2 20					

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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																														
TR 210136 95443305 B2136			105 44	83 36	102 50							109 -0.40 43	86 0.48 47		83 2.2 36	102 -0.9 50							95 11.6 30							
TR 210138 95443354 B2138			125 44	80 37	101 52							119 -1.23 43	110 -0.44 48		80 0.4 37	101 -1.1 52				79 2.8 23			99 -6.5 22	91 9.2 30						
TR 210163 95443347 B2163			130 44	78 36	101 50							121 -1.45 43	117 -0.71 47		78 -0.9 36	101 -1.2 50							93 10.2 30							
TR 211003 95510780 A2103			108 44	78 43	104 58							111 -0.55 43	89 0.37 48		78 -0.7 43	104 -0.3 58				78 1.7 33			85 4.4 22	98 13.6 30						
EP 220001 94675584 EP 220001		SUN 160091	90 18	102 52	108 44							94 0.84 18	92 0.28 20		102 13.2 52	108 0.8 44		101 19.6 24				65 19.8 46	84 4.6 31							
EP 220004 94685732 EP 220004	CM 180238 SUN 160055		116 40	92 59	98 52	103 14	97 36	98 38				115 -0.90 41	98 0.04 37	96 2 14	92 7.2 59	98 -1.9 52	90 18 42	92 12.5 42	88 28 8		93 7.2 11	104 -10.9 51	100 -4.0 13	92 10.1 44	96 -1 8	89 3 8				
EP 220017 94675683 EP 220017	CM 180238 SUN 180036		99 44	102 51	103 52	102 16	102 31	103 37				101 0.23 46	93 0.22 37	96 3 16	102 13.0 51	103 -0.7 52	104 51 40	101 19.6 36	94 52 8		98 9.9 11	102 -9.3 30	110 -6.0 16	94 11.0 46	102 2 8	95 8 8				
SUN 220005 94993755 SUN 220005	SUN 150012 SUN 201945		102 59	100 63	89 54	99 14	96 42	90 44				104 0.02 64	93 0.23 42	99 6 14	100 12.2 63	89 -4.4 54	90 18 44	94 14.7 44	90 36 12		94 7.6 13	104 -10.5 57	97 -3.5 19	93 10.6 49	98 0 13	89 3 13				
SUN 220008 94948825 SUN 220008	SUN 180005		101 49	91 57	104 48	115 8	79 33	86 37				100 0.31 55	101 -0.08 30	87 -7 8	91 7.1 57	104 -0.3 48	98 37 38	89 10.4 34	83 10 5		88 4.2 5	67 18.6 51	102 -4.4 12	81 3.3 37	96 -1 5	87 1 5				
SUN 220017 94995198 SUN 220017	SUN 150012 SUN 190017		117 58	89 63	89 53	118 8	101 41	102 42				118 -1.13 63	91 0.32 40	85 -10 8	89 6.0 63	89 -4.6 53	83 2 41	85 7.5 42	79 -3 7		86 3.1 8	112 -16.5 56	101 -4.3 19	92 10.1 47	89 -5 8	80 -6 7				
SUN 220019 94995206 SUN 220019	SUN 150012 SUN 190033		125 58	97 62	93 53	112 10	90 40	103 42				125 -1.76 63	91 0.30 39	90 -4 10	97 10.2 62	93 -3.4 53	93 25 42	93 13.6 42	89 32 7		94 7.5 7	94 -2.8 56	93 -2.7 17	91 9.4 47	97 0 7	89 2 7				
SUN 220020 94995214 SUN 220020	SUN 150012 SUN 190040		119 59	97 63	79 54	99 14	99 41	91 44				119 -1.24 64	94 0.17 41	100 7 14	97 10.3 63	79 -7.4 54	77 -12 44	91 12.0 44	92 42 12		95 8.4 13	108 -13.4 57	98 -3.8 19	95 11.9 47	100 2 13	91 5 13				

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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																													
SUN 220026 94948874 SUN 220026		SUN 170023	89 51	96 56	102 47	105 11	81 34	79 38				93 0.92 56	90 0.33 32	94 1 11	96 9.8 56	102 -0.7 47	98 38 38	94 14.5 35	88 30 7	96 -35 5	92 6.5 8	91 -0.7 51	87 -1.5 16	80 2.6 34	98 0 8	91 5 8			
SUN 220036 94995255 SUN 220036		SUN 150012 SUN 201950	98 59	100 63	87 54	99 14	104 41	92 44				101 0.27 64	91 0.30 42	99 7 14	100 11.8 63	87 -5.0 54	87 12 44	93 13.7 44	91 38 12		94 7.9 13	118 -21.7 57	102 -4.5 19	93 10.7 48	99 1 13	90 3 13			
SUN 220042 94995271 SUN 220042		SUN 150012 SUN 201944	101 59	106 64	79 55	98 17	89 42	82 45				102 0.13 64	95 0.15 42	101 9 17	106 15.6 64	79 -7.3 55	87 11 45	100 18.8 45	95 54 13		97 9.4 14	87 2.7 57	92 -2.4 21	96 12.1 48	100 1 14	92 6 13			
SUN 220044 94996337 SUN 220044		SUN 150012 SUN 190010	111 55	95 63	93 53	111 7	79 39	87 41				111 -0.59 60	96 0.09 39	91 -3 7	95 9.2 63	93 -3.3 53	91 21 41	89 10.9 42	86 22 6		92 6.7 6	72 14.5 56	86 -1.3 15	93 10.7 46	98 0 6	88 2 6			
TR 220004 96106760 SATIN 15		TR 190025	99 56	84 38	106 47	116 8						107 -0.27 58	75 0.95 48	85 -10 8	84 3.0 38	106 0.3 47	92 24 31	83 5.9 32			89 1.5 13		82 3.7 29						
TR 220026 96057716 PRETTY 24		TR 190006	92 55	97 48	117 33							95 0.79 57	95 0.16 46		97 10.4 48	117 3.3 33		95 14.9 44			87 2.7 13		86 6.3 24						
TR 220032 95423844 WINTERBERGER MS PRADA 7			91 44									100 0.34 43	74 0.96 47										92 9.9 28						
TR 220067 96048392 MAIVE 11		AHD 140147 TR 200017	99 63	112 61	77 58	89 17	93 36	83 44				97 0.55 65	105 -0.27 56	112 20 17	112 19.0 61	77 -7.9 58	88 13 45	111 27.5 55			86 3.3 39	103 -4.8 19	94 11.2 49						
TR 220079 96106745 PRIDE 28		TR 200009	120 56	81 48	112 34							126 -1.79 58	75 0.93 48		81 1.0 48	112 1.9 34		79 2.9 44			87 2.6 11		76 -0.3 28						
AHD 230067 95596748 AHD 230067		AHD 200103	108 54	98 40	95 45	110 12	92 23	97 33				108 -0.36 58	97 0.08 41	92 -2 12	98 11.1 40	95 -2.8 45	96 32 32	98 17.2 28			100 -7.4 27	98 -3.8 8	85 5.7 34						
AHD 230087 95632543 AHD 230087		AHD 200119	94 55	105 56	79 48	110 10	90 31	85 38				98 0.47 58	87 0.47 43	92 -2 10	105 14.7 56	79 -7.4 48	88 14 38	99 18.1 50	89 32 6		91 6.0 6	93 -2.3 49	94 -2.8 12	91 9.0 33	95 -2 6	91 5 6			
AHD 230094 95724423 AHD 230094		AHD 200070	95 55	97 57	103 49	105 13	93 32	92 39				97 0.55 59	93 0.23 43	94 1 13	97 10.1 57	103 -0.6 49	100 41 40	94 14.0 50			95 -3.5 49	99 -3.8 13	92 9.9 34						

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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																														
AHD 230198 95868790 AHD 230198	6	AHD 200053 AHD 160144	92 65	105 67	86 58	97 16	108 43	94 47			96 12	95 0.71 68	91 0.29 54	102 10 16	105 15.1 67	86 -5.4 58	91 21 47	103 21.7 58	99 68 10		100 11.3 14	111 -15.8 54	104 -4.9 27	105 17.7 48	98 0 11	94 8 11	102 1.02 12	99 0.06 12		
AHD 230207 95724530 AHD 230207		AHD 200079	113 53	73 53	91 34	131 30	78 29	78 37				113 -0.72 57	95 0.15 41	68 -29 30	73 -3.8 53	91 -3.8 34	71 -25 39	72 -3.0 49				89 1.4 48	86 -1.2 11	79 1.6 29						
AHD 230214 96685698 AHD 230214		AHD 200288	108 52	89 51	99 27		64 27					105 -0.09 56	105 -0.25 39		89 5.5 51	99 -1.6 27	89 17 27	86 8.4 48				55 28.0 45	84 -0.9 7	77 0.3 30						
AHD 230221 96743984 AHD 230221		AHD 200104 AHD 190094	95 60	114 62	91 45	91 14	109 32	104 41				96 0.66 64	98 0.04 44	108 16 14	114 20.4 62	91 -4.0 45	102 48 40	110 26.5 57	114 125 8		104 13.1 8	105 -11.4 35	116 -7.3 19	102 16.0 43	111 8 8	113 25 8				
AHD 230260 96746532 AHD 230260		FCK 180014 AHD 180016	102 65	105 68	102 58	95 27	105 43	106 49			102 8	96 0.64 68	123 -0.95 54	103 10 27	105 15.3 68	102 -0.8 58	105 53 51	104 22.0 58	105 90 12	100 -39 5		97 9.2 14	121 -23.9 55	100 -4.0 25	97 12.6 48	108 6 13	105 18 13	103 1.17 8	103 0.30 7	100 0.30 6
CP 230002 95113189 CP 230002		SUN 170003 SUN 150004	109 43	97 61	98 57	101 15	100 33	100 40			87 5	106 -0.15 44	107 -0.32 40	97 4 15	97 10.3 61	98 -1.9 57	95 29 44	97 16.4 29	90 36 12	97 -36 6		94 7.4 13	99 -6.6 35	101 -4.3 20	102 16.0 44	101 2 13	92 6 13	85 -0.58 5	89 -0.56 5	71 -1.33 5
TR 230011 96223300 MS PRETTY 25		TR 190006	93 52	95 52	119 34							101 0.27 55	78 0.81 41		95 9.1 52	119 4.0 34		92 12.7 47				75 12.2 43		87 6.7 21						
TR 230012 96223276 MS PRIDE 30		TR 200009	126 53	77 53	106 48							127 -1.92 56	88 0.43 42		77 -1.0 53	106 0.4 48		75 -0.2 46				85 4.2 43		77 0.4 24						
TR 230013 96223177 MS MAIVE 12		TR 200025	110 51	87 53	92 47	118 32						115 -0.89 54	82 0.64 40	84 -11 32	87 4.6 53	92 -3.6 47	84 3 44	85 7.8 46				87 2.4 43		81 3.0 24						
TR 230014 96223185 MS MAIVE 13		AHD 140147 TR 120062	86 64	107 64	87 60	97 18	97 41	86 47				89 1.22 66	94 0.19 56	102 9 18	107 16.1 64	87 -4.9 60	94 29 47	109 25.8 58				94 -3.1 53	104 -4.8 19	96 12.6 50						
TR 230016 96223193 MS SATIN 17		AHD 140147 TR 210004	99 61	93 63	84 57	109 17	90 40	80 45				98 0.46 63	100 -0.07 52	93 -1 17	93 8.1 63	84 -5.9 57	80 -5 46	96 15.9 51				94 -3.2 54	97 -3.5 19	87 7.0 48						
TR 230019 96223284 MS AMY 1		AHD 140147 TR 200808	92 60	102 50	87 52	94 17	91 36	78 40				93 0.94 62	100 -0.07 51	105 13 17	102 13.4 50	87 -5.1 52	88 14 40	104 22.4 42				88 1.9 38	98 -3.6 19	94 10.9 50						

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ID Number Name																														
TR 230020		AHD 140147	107	101	80	93	94	82				104	106	106	101	80	80		103				94	99	95					
96223201		TR 210009	62	62	57	17	41	45				-0.01	-0.31	14	12.5	-7.1	-5		21.2				-2.9	-4.0	11.5					
MS ALICE 1												64	54	17	62	57	45		56				54	19	49					
TR 230021		AHD 140147	116	96	80	94	95	84				109	114	105	96	80	76		97				96	100	93					
96223219		TR 210138	62	63	57	17	41	45				-0.43	-0.59	13	9.9	-7.1	-15		17.0				-4.7	-4.1	10.5					
MS BELLE 1												64	54	17	63	57	46		56				54	19	49					
TR 230022		AHD 140147	97	100	85	92	84	71				94	108	108	100	85	83		102				72	94	96					
96223326		TR 211003	62	62	51	17	41	44				0.80	-0.37	16	12.0	-5.6	2		20.3				14.1	-2.8	12.1					
MS AVA 1												64	54	17	62	51	43		58				54	19	49					
TR 230024		AHD 140147	89	108	85	93	95	83				92	94	106	108	85	92		110				92	104	93					
96223318		TR 190025	65	66	60	17	41	47				1.01	0.20	14	16.9	-5.7	23		27.2				-1.5	-4.9	10.4					
MS SATIN 18												67	56	17	66	60	48		60				54	19	50					
TR 230030		AHD 140147	112	97	89	95	83	81				105	117	103	97	89	86		98				63	98	98					
96223235		TR 210045	64	65	53	17	41	45				-0.05	-0.74	11	10.6	-4.4	8		17.4				21.6	-3.6	13.6					
MS RENELLA 7												66	55	17	65	53	45		55				54	19	49					
TR 230031		AHD 140147	90	102	90	94	94	81				91	99	105	102	90	90		105				85	96	104					
96223243		TR 210012	63	62	49	17	41	44				1.06	-0.02	13	13.3	-4.2	19		22.8				4.5	-3.3	17.5					
MS ANNA 1												65	54	17	62	49	43		49				54	19	49					
TR 230042		AHD 140147	72	124	91	80	91	81				76	97	123	124	91	106		124				74	105	97					
96223375		TR 160017	65	63	53	18	40	45				2.35	0.08	33	26.3	-4.0	56		37.6				12.8	-5.1	13.0					
MS SATIN 19												67	57	18	63	53	45		58				52	19	49					
TR 230048		TR 150021	107	98	111	96						115	70	101	98	111	105		95				108		99					
96223383		TR 140005	61	62	55	11						-0.95	1.13	8	11.1	1.6	53		14.8				-13.5		14.0					
MS SATIN 20												64	49	11	62	55	43		54				44		29					
TR 230049		TR 150021	109	85	107							115	79		85	107			81				106		84					
96231576		TR 210033	59	60	49							-0.90	0.79		3.5	0.5			4.7				-12.4		5.0					
MS PRADA 8												63	45		60	49			54				43		27					
TR 230060		TR 210017	131	92	78	103						124	110	96	92	78	73		91				105		91					
96340245		TR 210064	56	53	48	8						-1.64	-0.46	3	7.6	-7.6	-23		12.4				-11.4		9.5					
MS MAIZY 1												60	43	8	53	48	36		26				6		23					
NBS 240026		AHD 140147	81	114	90	87	94	83				83	99	113	114	90	99		115				84	104	98					
98230774		TR 190027	61	65	53	17	36	44				1.77	-0.03	22	20.4	-4.2	41		30.9				5.2	-4.9	13.4					
MS SATIN 22												64	52	17	65	53	45		60				38	19	50					
NBS 240029		AHD 140147	90	104	93	85	93	79				85	117	115	104	93	91		106				84	101	98					
98230782		TR 180004	60	63	52	17	36	43				1.57	-0.74	25	14.6	-3.4	21		23.3				5.1	-4.3	13.6					
MS JEANET 14												63	50	17	63	52	44		58				38	19	50					

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ID Number Name																														
NBS 240032 98230790 MS AVA 2		AHD 140147 TR 211003	97 60	98 62	86 51	92 17	91 36	76 43				96 0.66 63	103 -0.16 49	107 16 17	98 10.9 62	86 -5.2 51	82 0 43		100 18.8 58				83 6.1 39	97 -3.4 19	100 14.6 49					
NBS 240036 98230808 MS FRANCIS 1		AHD 140147 TR 200047	78 60	113 61	95 49	87 17	94 35	84 42				78 2.16 63	106 -0.29 49	113 22 17	113 19.5 61	95 -2.8 49	102 47 42		114 30.1 58				85 4.4 38	100 -4.2 19	101 15.2 49					
NBS 240038 98230816 MS PRIDE 31		AHD 140147 TR 200009	84 63	113 63	96 53	87 17	92 36	85 44				84 1.67 66	104 -0.21 52	112 21 17	113 19.4 63	96 -2.5 53	103 49 44		115 30.4 59				84 5.4 39	104 -4.9 19	93 10.5 49					
NBS 240044 98230824 MS FIA 1		TR 220008 TR 200045	73 51	109 55	106 35	92 16						79 2.10 57	91 0.29 32	106 14 16	109 17.4 55	106 0.4 35	110 66 35		109 25.9 49						96 12.4 26					
NBS 240046 98230840 MS SATIN 23		TR 150021 TR 160017	87 59	112 61	112 43	88 16						96 0.68 63	77 0.85 43	110 19 16	112 19.2 61	112 2.1 43	116 81 40		107 24.3 54				102 -9.2 21		95 11.9 27					
NBS 240047 98230857 MS SATIN 24		TR 150021 TR 170012	104 58	97 61	112 46	107 16						113 -0.71 62	72 1.05 43	93 -1 16	97 10.5 61	112 2.0 46	109 63 41		93 13.8 55				105 -11.8 20		96 12.1 29					
NBS 240054 98230873 MS AVERY 2		TR 220008 TR 210014	107 51	97 54	97 31	99 16						107 -0.23 57	98 0.03 32	99 6 16	97 10.3 54	97 -2.3 31	93 25 34		97 17.0 49						93 10.4 26					
TR 240003 96550363 MS KIRSTEN 18		TR 211112 TR 200108	129 53	70 51	96 34	124 8						130 -2.17 58	86 0.51 34	77 -19 8	70 -5.0 51	96 -2.6 34	70 -30 31		70 -4.3 36				112 -16.8 6		89 8.2 28					
TR 240010 96550397 MS SATIN 21		TR 211112 TR 210103	108 51	87 35	108 28	116 8						113 -0.73 56	82 0.66 32	85 -10 8	87 4.4 35	108 0.8 28	97 35 24		84 7.0 28				103 -9.9 7		86 6.1 26					
TR 240012 96617097 MS MAIVE 16		TR 150021 TR 180021	87 57	111 45	112 40	96 8						95 0.75 61	78 0.80 41	101 9 8	111 18.4 45	112 2.0 40	120 88 31		106 23.9 37				103 -10.1 20		91 9.4 30					
TR 240014 96617113 MS PRADA 10		TR 211112 TR 220032	106 54	83 29	107 18	119 8						114 -0.80 58	74 0.98 41	83 -12 8	83 2.4 29	107 0.5 18	93 26 18		82 5.1 24				109 -14.6 6		94 10.8 28					
NBS 250005 98510217 NORVAL CFJ MS PRETTY 26	13	TR 150021 TR 220026	111 54	97 45	111 31							116 -0.97 59	80 0.74 37		97 10.4 45	111 1.7 31			93 13.8 38				98 -6.1 19		88 7.6 24					

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			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
NBS 250021 99397002 MS MAIVE 18		BOS 233486 TR 230014	79 57	111 62	94 41	93 21	98 30	89 40			99 10	75 2.39 62	118 -0.76 39	105 13 21	111 18.8 62	94 -3.2 41	103 49 41	110 27.1 36	99 69 17	92 -30 10	102 12.4 19	92 -1.4 35	102 -4.4 17	102 16.2 38	94 -2 19	100 13 19	100 0.82 10	100 0.08 9	97 0.10 9
NBS 250029 99397010 MS PRIDE 32		BOS 233486 TR 230012	100 55	97 61	102 37	100 19	89 26	89 38			89 10	95 0.74 61	114 -0.63 35	98 4 19	97 10.5 61	102 -0.8 37	98 38 39	94 14.4 32	91 38 17	91 -29 10	96 9.0 19	87 2.7 31	95 -3.2 14	93 10.3 32	91 -4 19	93 7 19	85 -0.61 10	100 0.13 9	97 0.11 9
NBS 250032 99397028 MS HONEY 1	1	RG 220099 AHD 230260	126 61	96 65	89 43	100 24	114 32	111 43			89 8	120 -1.35 66	108 -0.39 44	98 5 24	96 9.7 65	89 -4.6 43	85 7 44	97 16.6 38	94 51 16		93 7.1 18	125 -27.0 36	109 -5.9 19	102 16.1 40	99 1 18	95 9 17	92 0.04 9	98 -0.04 8	103 0.46 8
NBS 250034 99400632 MS HARPER 1		RG 220099 AHD 230067	122 59	94 61	87 39	108 21	107 26	106 39			83 8	121 -1.37 64	98 0.03 40	94 0 21	94 8.8 61	87 -5.2 39	83 3 40	96 15.8 27	87 26 15		89 5.0 16	114 -18.6 27	109 -5.9 15	97 12.9 36	93 -3 16	90 4 16	83 -0.82 8	93 -0.31 7	103 0.48 7
NBS 250051 99397242 MS BELLE 2		RG 220099 TR 230021	130 60	93 64	77 43	100 22	109 31	100 42			83 8	125 -1.73 65	105 -0.24 44	99 6 22	93 7.8 64	77 -7.7 43	72 -24 43	95 15.1 36	88 29 15		92 6.4 16	113 -17.6 36	109 -5.9 17	101 15.4 40	93 -3 16	90 4 16	86 -0.53 8	88 -0.57 7	93 -0.13 7
NBS 250054 99397044 MS RENELLA 8		RG 220099 TR 210045	121 60	97 63	94 45	98 21	104 26	104 41			92 8	118 -1.14 64	102 -0.15 44	100 7 21	97 10.2 63	94 -3.1 45	90 18 43	96 16.2 34	95 54 15		98 9.8 16	100 -7.7 26	112 -6.6 15	98 13.7 36	104 4 16	100 14 16	90 -0.12 8	98 -0.03 7	105 0.58 7
NBS 250059 99397051 MS MAIVE 19		RG 220099 TR 180021	111 60	107 62	88 44	93 21	109 26	105 40			98 8	114 -0.83 64	86 0.50 45	106 14 21	107 16.4 62	88 -4.8 44	94 27 42	107 24.5 30	101 76 15		104 13.5 16	109 -14.2 25	112 -6.5 15	101 15.6 37	110 7 16	106 19 16	98 0.64 8	94 -0.21 7	105 0.58 7
NBS 250061 99397069 MS PRIDE 33		BOS 233486 TR 120079	86 57	121 61	102 41	81 19	98 24	98 38			116 10	82 1.86 61	116 -0.70 41	120 30 19	121 24.4 61	102 -0.8 41	113 72 40	116 31.5 32	114 124 17	113 -54 10	117 21.1 19	89 0.8 25	107 -5.6 14	99 13.9 34	117 11 19	119 31 19	113 2.17 10	101 0.19 9	94 -0.04 9
NBS 250063 99397077 MS FRANCIS 2		BOS 233486 TR 200047	83 54	109 58	105 37	89 19	95 23	91 36			99 10	80 1.99 59	114 -0.62 36	109 17 19	109 17.2 58	105 0.1 37	108 60 38	106 23.5 25	101 74 17	103 -42 10	106 14.3 19	88 2.1 22	97 -3.5 14	104 17.2 34	106 5 19	105 18 19	96 0.49 10	94 -0.27 9	81 -0.77 9
NBS 250064 99397085 MS PRETTY 27		RG 220099 TR 190006	106 60	103 63	104 45	90 21	113 26	110 41			96 8	111 -0.62 64	80 0.73 45	109 17 21	103 14.0 63	104 -0.3 45	101 44 43	103 21.4 32	100 73 15		105 14.0 16	110 -15.3 27	114 -6.9 15	108 19.8 35	112 8 16	105 18 16	99 0.71 8	89 -0.55 7	87 -0.45 7
NBS 250071 99397093 MS MAIVE 20		RG 220099 TR 200025	114 59	98 62	93 44	101 27	109 26	107 41			89 8	116 -0.96 63	89 0.39 43	97 4 27	98 11.1 62	93 -3.3 44	92 23 44	99 18.1 30	93 46 15		97 9.5 16	110 -15.4 26	113 -6.8 15	100 14.8 36	104 4 16	99 12 16	89 -0.23 8	91 -0.39 7	102 0.39 7
NBS 250072 99397101 MS HESTER 1		AHD 230087	97 48	87 54	99 27	123 5	80 17	83 29				99 0.39 54	93 0.23 26	78 -18 5	87 4.4 54	99 -1.7 27	92 23 29	83 6.2 25				91 -0.6 25	88 -1.7 6	77 0.6 20					

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	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																														
NBS 250073 99397119 MS HETTIE 1		AHD 230094	102 48	87 54	105 27	117 6	81 17	87 30				104 0.04 54	93 0.21 26	85 -10 6	87 4.5 54	105 0.1 27	95 31 29	85 7.1 25				89 1.0 25	93 -2.6 6	78 1.0 20						
NBS 250081 99397127 MS AMY 2		RG 220099 TR 230019	108 60	100 62	83 41	97 22	107 29	96 41			87 8	107 -0.21 65	102 -0.13 43	101 9 22	100 12.0 62	83 -6.1 41	84 3 42	102 20.8 32	91 39 15			94 7.7 16	108 -13.5 30	109 -5.9 17	101 15.5 40	96 -1 16	93 7 16	89 -0.26 8	89 -0.54 7	94 -0.06 7
NBS 250086 99397135 MS PRADA 12		RG 220099 TR 230049	118 60	91 63	93 40	104 21	109 27	105 40			82 8	119 -1.22 65	91 0.32 41	95 1 21	91 7.0 63	93 -3.5 40	85 6 41	91 11.9 36	86 22 15			92 6.6 16	117 -20.4 32	112 -6.5 15	97 12.6 35	93 -2 16	88 2 16	83 -0.82 8	94 -0.27 7	99 0.25 7
NBS 250097 99583197 MS SATIN 25		RG 220099 TR 230048	121 60	94 64	95 42	101 21	114 27	111 41			86 8	124 -1.66 65	85 0.56 42	98 4 21	94 8.4 64	95 -2.8 42	88 14 42	94 14.1 36	90 37 15			94 8.0 16	119 -21.9 32	114 -6.9 15	103 16.9 35	95 -1 16	92 5 16	90 -0.14 8	94 -0.22 7	101 0.34 7
NBS 250108 99579534 MS ANNA 3		RG 220099 TR 210012	119 59	90 60	91 40	103 21	107 26	100 39		78 8	120 -1.33 63	89 0.37 43	96 3 21	90 6.2 60	91 -3.9 40	81 -2 40	91 12.1 24	84 13 15			90 5.6 16	109 -14.7 26	104 -4.9 15	104 17.5 36	97 -1 16	88 2 16	79 -1.19 8	83 -0.88 7	79 -0.88 7	
NBS 250109 99579559 MS SATIN 26		BOS 233486 TR 190027	77 56	110 61	107 42	92 19	95 24	91 38			101 10	73 2.59 60	113 -0.57 40	106 14 19	110 18.1 61	107 0.4 42	112 70 41	106 24.0 33	101 75 17	100 -39 10		104 13.3 19	89 1.5 23	99 -3.9 14	101 15.4 35	101 2 19	104 17 19	98 0.61 10	101 0.18 9	99 0.25 9
NBS 250115 99579542 MS SATIN 27		RG 220099 TR 190025	105 61	101 63	90 46	101 21	107 26	101 41			87 8	107 -0.24 65	93 0.22 46	97 4 21	101 12.4 63	90 -4.2 46	92 23 43	101 19.7 34	91 40 15			95 8.4 16	109 -14.4 27	110 -6.0 15	99 14.3 37	101 2 16	96 9 16	85 -0.61 8	93 -0.28 7	103 0.48 7
NBS 250121 99579567 MS SATIN 28		BOS 233486 TR 170012	76 57	119 61	103 46	90 21	98 24	97 40			108 10	70 2.85 61	111 -0.50 42	109 18 21	119 23.1 61	103 -0.6 46	116 80 43	115 30.5 34	107 99 17	106 -45 10		110 16.6 19	89 1.1 24	103 -4.7 14	103 16.4 34	108 6 19	111 24 19	104 1.29 10	103 0.27 9	102 0.42 9
NBS 250123 99579575 MS SATIN 29		RG 220099 TR 200020	96 59	106 62	97 45	100 27	107 25	104 41			95 8	97 0.56 63	96 0.12 44	98 5 27	106 15.5 62	97 -2.3 45	103 48 45	105 23.1 30	99 68 15			102 12.5 16	107 -13.0 24	115 -7.0 15	97 12.8 36	108 6 16	104 17 16	94 0.22 8	95 -0.17 7	107 0.70 7
NBS 250132 99684540 MS ALICE 2		RG 220099 TR 210009	133 58	85 45	83 40	101 21	107 26	98 36			80 8	132 -2.31 62	99 -0.01 42	98 4 21	85 3.5 45	83 -6.2 40	69 -31 35	86 8.5 26	85 19 15			92 6.4 16	113 -17.4 26	105 -5.0 15	101 15.6 36	99 1 16	90 4 16	81 -1.03 8	83 -0.87 7	80 -0.84 7
NBS 250144 99871972 MS PRADA 13		TR 210017 TR 190018	89 56	98 37	110 32	98 8						94 0.82 61	88 0.42 38	99 6 8	98 10.7 37	110 1.3 32	104 52 26	96 15.9 27				100 -7.2 6		88 7.1 25						
NBS 250149 99871980 MS PRETTY 28		RG 220099 TR 230011	113 59	96 49	98 34	97 21	101 26	98 36			88 8	115 -0.87 64	89 0.37 40	101 9 21	96 9.6 49	98 -2.1 34	91 21 35	96 15.6 33	93 46 15			98 9.9 16	101 -7.9 32	107 -5.5 15	97 12.8 32	104 4 16	98 11 16	88 -0.33 8	91 -0.41 7	95 0.03 7

Inbreeding in red is high

Value <80Value >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	
NBS 250201 99616492 NBS 250201	SUN 190004	112 26	78 26	102 17		79 17						113 -0.72 28	92 0.24 21		78 -0.4 26	102 -0.9 17		77 1.3 12				92 -1.0 22	88 -1.6 6	75 -0.8 24						
NBS 250202 99616609 NBS 250202	SUN 190023	105 26	84 54	105 31	115 7	82 18	85 27					106 -0.17 28	95 0.12 21	87 -8 7	84 2.7 54	105 0.1 31	91 20 31	82 5.2 12				91 -0.3 23	93 -2.7 8	77 0.4 23						
NBS 250203 99616617 NBS 250203	SUN 200032	118 24	77 51	101 31	118 7	81 12	84 25					117 -1.07 26	96 0.11 16	84 -11 7	77 -1.2 51	101 -1.2 31	80 -5 30	75 0.1 8				93 -1.7 9		75 -0.5 23						
NBS 250204 99616484 NBS 250204	OBS 190135	101 33	98 56	104 36	107 10	76 27	85 31				89 5	100 0.33 34	101 -0.11 30	94 0 10	98 10.7 56	104 -0.2 36	102 47 34	91 12.2 28	93 48 9		95 8.0 10	73 13.7 31	88 -1.7 17	84 5.2 33	102 3 10	97 10 10	85 -0.63 5	95 -0.16 5		
NBS 250207 99616625 NBS 250207	SUN 190035	93 27	97 54	112 31	98 5	75 20	80 27					97 0.62 29	90 0.32 21	99 6 5	97 10.5 54	112 2.1 31	106 57 30	95 15.1 17				78 9.8 24	89 -1.8 10	76 0.1 25						
NBS 250208 99616732 NBS 250208	SUN 150008	92 28	103 55	108 36	97 10	85 25	88 30				92 5	93 0.88 28	97 0.07 29	100 8 10	103 13.8 55	108 0.8 36	108 61 34	100 19.3 20	94 51 10		98 9.8 10	88 2.3 26	100 -4.1 16	79 1.9 32	110 7 10	103 16 10	85 -0.66 5	90 -0.48 5	85 -0.54 5	
NBS 250211 99616633 NBS 250211	SUN 220017	116 29	77 55	101 29		85 22						116 -1.02 31	92 0.27 20		77 -1.1 55	101 -1.0 29	84 4 29	75 -0.5 22				101 -7.9 28	92 -2.4 10	78 1.1 27						
NBS 250216 99616641 NBS 250216	SUN 200013	109 25	78 54	105 33		91 17						110 -0.45 27	94 0.17 16		78 -0.8 54	105 0.0 33		76 0.4 12				111 -16.3 23		77 0.2 24						
NBS 250217 99616658 NBS 250217	EP 220004	112 20	84 54	104 28	116 7	84 19	90 25					111 -0.62 20	96 0.10 18	86 -9 7	84 3.0 54	104 -0.3 28	90 19 30	83 6.2 22				84 1.7 6	95 -3.4 26	93 -2.6 7	78 1.1 25					
NBS 250218 99616666 NBS 250218	SUN 220005	101 30	94 55	97 29	110 7	83 22	85 28					103 0.10 32	95 0.16 21	92 -3 7	94 8.6 55	97 -2.3 29	93 25 30	90 11.0 22	83 11 6		88 4.3 7	92 -1.6 28	93 -2.7 10	78 1.3 28	94 -2 7	86 0 6				
NBS 250220 99616419 NBS 250220	SUN 180027	99 32	100 56	105 36	100 11	79 25	85 31					100 0.37 33	99 -0.01 27	98 5 11	100 11.9 56	105 -0.1 36	103 48 34	98 17.3 23	93 46 7	101 -41 5	96 8.6 8	79 8.7 28	92 -2.4 16	82 3.8 32	103 3 8	96 10 8				
NBS 250221 99616674 NBS 250221	EP 220017	103 22	90 53	105 28	115 8	86 16	92 25					104 0.00 23	94 0.18 18	87 -7 8	90 6.5 53	105 0.1 28	98 37 30	89 10.5 18				87 3.8 6	93 -2.0 15	98 -3.7 8	79 1.5 26					

Breeding Values and Accuracies: Cows

Green: >120 High
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Inbreeding in red is high

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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																														
NBS 250223 99616401 NBS 250223		SUN 180022		99 31	88 55	107 34	115 11	79 25	84 30				102 0.18 32	90 0.33 27	87 -8 11	88 5.0 55	107 0.6 34	97 34 33	87 8.7 22	79 -2 7	85 -23 5	84 2.2 8	87 2.6 27	87 -1.4 16	81 2.8 32	88 -6 8	80 -5 8			
NBS 250225 99616385 NBS 250225		SUN 150030		91 28	92 56	113 36	111 11	77 24	83 30		77 5		97 0.61 28	84 0.59 30	91 -4 11	92 7.3 56	113 2.1 36	104 52 34	90 11.5 21	81 4 10		87 3.6 10	76 11.7 27	92 -2.4 13	80 2.3 32	96 -1 10	87 1 10	72 -1.90 5	87 -0.64 5	80 -0.84 5
NBS 250228 99616690 NBS 250228		SUN 220019		111 29	96 55	97 29	114 5	80 21	91 27				111 -0.62 31	94 0.17 20	89 -6 5	96 9.6 55	97 -2.1 29	96 34 30	92 12.9 22				86 3.2 28	92 -2.4 8	77 0.7 27					
NBS 250238 99616682 NBS 250238		SUN 220008		103 25	86 54	106 27		74 18					103 0.07 28	98 0.03 15		86 3.9 54	106 0.3 27	96 32 28	84 6.3 17				75 12.0 26	94 -2.9 6	73 -2.1 22					
NBS 250239 99616369 NBS 250239		SUN 170001		105 32	91 56	102 39	111 17	89 26	92 33				104 -0.01 33	101 -0.08 29	91 -3 17	91 7.0 56	102 -0.9 39	94 29 37	89 10.7 24	82 9 7	89 -27 5	87 3.6 8	101 -8.4 29	93 -2.7 15	82 3.9 33	91 -4 8	84 -2 8			
NBS 250241 99871964 NBS 250241		EP 210022		102 48	86 30	109 25	112 8	77 19	82 24				105 -0.08 54	88 0.41 25	90 -5 8	86 3.8 30	109 1.0 25	95 29 21	84 6.8 17				83 5.8 25	90 -2.0 7	77 0.4 25					
NBS 250242 99579583 NBS 250242		EP 210031		106 47	83 28	106 17	118 6	78 18	85 22				107 -0.23 54	95 0.14 24	83 -12 6	83 2.5 28	106 0.2 17	92 23 17	81 4.0 18				86 3.8 24	91 -2.2 7	75 -0.5 24					
NBS 260018 6020088495 MS PRETTY 29		RG 220099 TR 220026		120 58	94 48	95 34	95 21	105 24	100 35		91 8		119 -1.25 63	94 0.17 41	103 11 21	94 8.4 48	95 -2.9 34	86 9 34	94 14.6 32	95 54 15		100 10.8 16	107 -12.7 25	110 -6.0 15	97 12.7 32	106 5 16	100 13 16	90 -0.13 8	91 -0.39 7	96 0.08 7
NBS 260025 6020203441 MS BOS 2		RG 220099 BOS 166026		121 60	98 54	82 44	101 30	106 36	102 42		93 12		116 -0.97 64	110 -0.45 45	98 5 30	98 10.9 54	82 -6.6 44	81 -2 43	98 17.2 36	96 58 23	83 -20 8	99 10.5 25	103 -10.1 39	110 -6.1 25	103 16.4 44	95 -1 25	97 10 24	96 0.42 13	94 -0.26 12	104 0.54 12
NBS 260026 6020203458 MS RENELLA 9	13	TR 220005 TR 230030		99 56	109 47	86 39	87 12	92 27	84 34				99 0.39 61	100 -0.04 40	113 22 12	109 17.2 47	86 -5.3 39	91 21 33	109 25.9 41				74 12.7 33	106 -5.4 13	99 14.5 35					
NBS 260029 6020431984 MS PRADA 14		TR 220005 TR 240014		80 55	109 37	99 30	95 9	100 20	92 28				87 1.45 60	85 0.55 36	103 11 9	109 17.1 37	99 -1.8 30	105 54 25	107 24.7 33				97 -5.4 20	106 -5.4 9	97 13.1 30					
NBS 260032 6020354475 MS MAIVE 21		RG 220099 TR 120062		103 59	101 49	94 45	101 22	113 26	107 38		86 8		107 -0.24 63	85 0.54 46	97 4 22	101 12.5 49	94 -3.1 45	95 30 39	101 20.0 32	91 39 15		97 9.4 16	118 -21.9 27	112 -6.5 15	103 16.8 35	102 3 16	94 8 16	90 -0.14 8	88 -0.58 7	91 -0.21 7

Selection List on Cow Value

Bulls 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID						nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★★★																
1	NBS 240035	NBS 240035	AHD 140147	TR 180015	0.0	HH	0	0	0	6	101	82	115	83	103	81	90	77	110	79	114	74	109	76	111	74
2	NBS 240041	NBS 240041	TR 150021	TR 200020	0.0	PcH	0	0	0	6	101	80	107	81	105	78	104	75	110	76	117	72	100	75	112	73
3	RG 220099	22 099	JAN 155002	RG 180037	0.6	HH	0	0	0	6	131	90	97	90	76	84	96	81	122	82	111	78	104	80	107	78
										★★★★★																
1	AHD 230027	AHD 230027	PR 190026	AHD 160090	0.0	HH	0	0	0	6	85	87	124	88	78	83	88	80	115	82	102	77	100	80	98	78
2	BOS 199246	BOS199246	BOS 133309	BOS 111314	1.9						110	49	106	86	85	64	101	38	112	62	109	56	90	24	102	50
3	TR 210017	MR ROB		TR 160017	0.0	PcH	0	0	0	6	93	83	119	79	97	77	89	75	102	76	104	71	112	74	102	72
										★★★★★																
1	BOS 233486	BOS233486	BOS 177085	BOS 166026	1.6	HH	1	0	0	6	70	86	124	87	99	83	83	82	99	82	93	77	111	81	91	78
2	NBS 240030	NBS 240030	AHD 140147	TR 140005	0.0	HH	0	0	0	6	82	83	124	84	99	82	79	78	100	79	98	75	118	77	97	75
3	NBS 240033	NBS 240033	AHD 140147	TR 200025	0.0	PcH	0	0	0	6	74	82	129	83	93	81	80	77	103	79	96	74	113	76	95	74
4	NBS 240034	NBS 240034	AHD 140147	TR 210045	0.0	HH	0	0	0	6	96	82	118	83	89	81	86	77	99	79	96	74	115	76	95	74
5	NBS 240039	NBS 240039	AHD 140147	TR 190006	0.0						70	62	123	64	103	53	79	17	101	36	94	44				
6	TR 220005	MR BEAU	AHD 140147	TR 140005	0.0	PcH	0	0	0	6	70	84	133	84	90	82	80	78	101	79	95	75	120	77	95	75
7	TR 230004	MR BARRY	AHD 140147	TR 150043	0.0						103	60	106	60	93	51	91	17	94	35	90	42				
										★★★★★																
1	NBS 240023	NBS 240023	AHD 140147	TR 200017	0.0						106	61	104	50	85	50	92	17	94	36	87	40				

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Myostatin Horned / Polled 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	OBS 190123	OBS19123	ROCK150262	OBS 160515	0.0	8868	11969	9866	9013	12050	11650			
2	SUN 150004	15-4	FFB 120079	SUN 120009	0.0	10660	10270	10277	10020	10949	11152			
						★★★★☆								
1	AHD 230221	AHD 230221	AHD 200104	AHD 190094	0.2	9560	11462	9145	9114	10932	10441			
2	AHD 230260	AHD 230260	FCK 180014	AHD 180016	0.1	10265	10568	10258	9527	10543	10649			
3	BOS 177258	BOS177258	BOS 133079	BOS 133183	0.4	8845	11373	10775	8334	11155	10553	10524	10147	
4	CP 230002	CP 230002	SUN 170003	SUN 150004	0.0	10943	9761	9857	10115	10033	10040			
5	EP 220017	EP 220017	CM 180238	SUN 180036	0.0	9944	10251	10352	10216	10231	10337			
6	SUN 150007	15-7	FFB 120079	SUN 120021	0.0	10860	9356	10467	10220	10240	10145			
7	SUN 150008	15-8	FFB 120079	SUN 110009	0.0	9156	10366	11868	9420	10048	10349			
8	SUN 150022	15-22	PD 110244	SUN 120005	0.0	9665	10074	10680	10411	10954	10854			
9	SUN 170001	SUN 170001	PD 100079	SUN 110001	0.0	11264	9071	10175	10133	10849	10455			
10	SUN 180020	SUN 180020	PD 140155	SUN 150018	0.1	9859	10068	11167	11212	9646	10748			
11	SUN 180030	SUN 180030	PD 100079	SUN 110001	0.0	11363	9668	10570	10024	10549	10851			
12	SUN 180036	SUN 180036	PD 140155	SUN 120021	0.0	9158	9663	11563	10811	10234	10543			
13	SUN 220017	SUN 220017	SUN 150012	SUN 190017	0.0	11758	8963	8953	1188	10141	10242			
14	SUN 220019	SUN 220019	SUN 150012	SUN 190033	0.0	12558	9762	9353	11210	9040	10342			
15	TR 170012	WINTERBERGER SATIN 6		TR 140005	0.0	8061	10660	11274	10212	9717	10043			
16	TR 200025	WINTERBERGER MAIVE 9		TR 120062	0.0	8950	10048	11563	11064	9620	10345			
						★★★★								
1	AHD 230067	AHD 230067		AHD 200103	0.0	10854	9840	9545	11012	9223	9733			
2	AHD 230094	AHD 230094		AHD 200070	0.0	9555	9757	10349	10513	9332	9239			
3	AHD 230198	AHD 230198	AHD 200053	AHD 160144	6.3	9265	10567	8658	9716	10843	9447			
4	BOS 166026	BOS166026	WO 080044	BOS 033372	0.0	8861	10670	9163	10943	9156	9154	9627	8649	
5	EP 210015	EP 210015		SUN 150013	0.0	10254	9057	10550	1136	8637	9039			
6	EP 210031	EP 210031		SUN 180010	0.0	10552	8556	10633	11911	8634	9235			
7	EP 220004	EP 220004	CM 180238	SUN 160055	0.0	11640	9259	9852	10314	9736	9838			
8	OBS 190135	OBS19135	PD 110244	OBS 150010	0.0	10367	10370	10668	10019	8253	9252			

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value							
Sorted on ID						nt821 Q204X F94L Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc							
							★★★														
9	SUN 170004	SUN 170004	PD 100079	SUN 110006	0.0		83	65	108	69	122	71	89	23	89	49	94	52			
10	SUN 180022	SUN 180022	PD 100079	SUN 120014	0.0		94	63	93	66	108	65	111	23	89	48	91	50			
11	SUN 180027	SUN 180027	PD 100079	SUN 120006	0.0		108	63	95	68	112	69	100	23	90	49	97	51			
12	SUN 190023	SUN 190023		SUN 110001	0.0		107	52	84	58	104	58	113	15	92	34	92	41			
13	SUN 200001	SUN 20 0001		SUN 180017	0.0		111	32	88	44	108	53	110	11	84	22	92	31			
14	SUN 210002	SUN 210002		SUN 180002	0.0		113	49	92	61	80	62	116	6	99	35	94	41			
15	SUN 220005	SUN 220005	SUN 150012	SUN 201945	0.0		102	59	100	63	89	54	99	14	96	42	90	44			
16	SUN 220020	SUN 220020	SUN 150012	SUN 190040	0.0		119	59	97	63	79	54	99	14	99	41	91	44			
17	SUN 220036	SUN 220036	SUN 150012	SUN 201950	0.0		98	59	100	63	87	54	99	14	104	41	92	44			
18	TR 160017	WINTERBERGER SATIN 5		TR 140005	0.0		73	63	117	55	113	65	83	17	98	18	96	41			
19	TR 180021	MAIVE 6		TR 120062	0.0		88	55	107	48	109	62	99	16	95	18	99	37			
20	TR 190025	SATIN 7		TR 170012	0.0		95	62	93	60	104	66	115	16	91	21	94	43			
							★★★														
1	AHD 230087	AHD 230087		AHD 200119	0.0		94	55	105	56	79	48	110	10	90	31	85	38			
2	EP 210022	EP 210022		SUN 170008	0.0		98	54	89	59	111	50	104	17	85	35	85	41			
3	NBS 240026	MS SATIN 22	AHD 140147	TR 190027	0.0		81	61	114	65	90	53	87	17	94	36	83	44			
4	NBS 240036	MS FRANCIS 1	AHD 140147	TR 200047	0.0		78	60	113	61	95	49	87	17	94	35	84	42			
5	NBS 240038	MS PRIDE 31	AHD 140147	TR 200009	0.0		84	63	113	63	96	53	87	17	92	36	85	44			
6	SUN 150030	15-30	FFB 120079	SUN 120018	0.0		79	57	97	66	120	68	100	22	83	46	85	49			
7	SUN 170006	SUN 170006	PD 100079	SUN 120004	0.0		104	65	95	66	105	64	111	23	76	48	87	50			
8	SUN 170008	SUN 170008	PD 100079	SUN 120018	0.0		79	65	101	70	117	73	91	33	89	48	85	54			
9	SUN 170010	SUN 170010	PD 100079	SUN 110005	0.0		105	65	95	71	110	76	102	33	78	51	87	55			
10	SUN 190005	SUN 190005		SUN 150024	0.0		95	52	96	60	108	58	103	10	86	40	88	42			
11	SUN 190035	SUN 190035		SUN 170004	0.0		93	54	94	58	126	57	97	11	80	37	88	41			
12	SUN 220008	SUN 220008		SUN 180005	0.0		101	49	91	57	104	48	115	8	79	33	86	37			
13	SUN 220042	SUN 220042	SUN 150012	SUN 201944	0.0		101	59	106	64	79	55	98	17	89	42	82	45			
14	SUN 220044	SUN 220044	SUN 150012	SUN 190010	0.0		111	55	95	63	93	53	111	7	79	39	87	41			
15	TR 190027	SATIN 8		TR 140005	0.0		81	55	106	59	110	64	92	6	91	16	89	38			
16	TR 200088	SATIN 9		TR 160017	0.0		81	59	110	49	96	60	86	64	92	15	81	45			
17	TR 220067	MAIVE 11	AHD 140147	TR 200017	0.0		99	63	112	61	77	58	89	17	93	36	83	44			

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value								
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc								
										★★★★															
18	TR 230014	MS MAIVE 13	AHD 140147	TR 120062	0.0						86	64	107	64	87	60	97	18	97	41	86	47			
19	TR 230016	MS SATIN 17	AHD 140147	TR 210004	0.0						99	61	93	63	84	57	109	17	90	40	80	45			
20	TR 230020	MS ALICE 1	AHD 140147	TR 210009	0.0						107	62	101	62	80	57	93	17	94	41	82	45			
21	TR 230021	MS BELLE 1	AHD 140147	TR 210138	0.0						116	62	96	63	80	57	94	17	95	41	84	45			
22	TR 230024	MS SATIN 18	AHD 140147	TR 190025	0.0						89	65	108	66	85	60	93	17	95	41	83	47			
23	TR 230030	MS RENELLA 7	AHD 140147	TR 210045	0.0						112	64	97	65	89	53	95	17	83	41	81	45			
24	TR 230031	MS ANNA 1	AHD 140147	TR 210012	0.0						90	63	102	62	90	49	94	17	94	41	81	44			
25	TR 230042	MS SATIN 19	AHD 140147	TR 160017	0.0						72	65	124	63	91	53	80	18	91	40	81	45			
										★★★															
1	AHD 230207	AHD 230207		AHD 200079	0.0						113	53	73	53	91	34	131	30	78	29	78	37			
2	NBS 240029	MS JEANET 14	AHD 140147	TR 180004	0.0						90	60	104	63	93	52	85	17	93	36	79	43			
3	NBS 240032	MS AVA 2	AHD 140147	TR 211003	0.0						97	60	98	62	86	51	92	17	91	36	76	43			
4	SUN 220026	SUN 220026		SUN 170023	0.0						89	51	96	56	102	47	105	11	81	34	79	38			
5	TR 230019	MS AMY 1	AHD 140147	TR 200808	0.0						92	60	102	50	87	52	94	17	91	36	78	40			
6	TR 230022	MS AVA 1	AHD 140147	TR 211003	0.0						97	62	100	62	85	51	92	17	84	41	71	44			

Selection List on Cow Value
Bull Calves younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			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	NBS 250045	NBS 250045	BOS 233486	TR 140005	0.0						76	58	123	62	109	46	82	20	103	24	102	40			
2	NBS 250107	NBS 250107	BOS 233486	TR 160017	0.0						78	58	126	61	108	43	80	21	99	24	102	39			
3	NBS 250136	NBS 250136	RG 220099	TR 200017	0.0						116	60	98	46	91	41	100	21	106	26	104	36			
											★★★★														
1	NBS 250043	NBS 250043	BOS 233486	TR 200009	0.0						81	57	110	60	110	43	87	19	93	24	90	39			
2	NBS 250053	NBS 250053	RG 220099	TR 230024	0.0						105	61	104	65	83	44	94	22	110	31	97	42			
3	NBS 250060	NBS 250060	RG 220099	TR 210138	0.0						121	58	94	60	88	41	94	21	107	26	99	39			
4	NBS 250082	NBS 250082	RG 220099	TR 230016	0.0						113	60	96	64	80	43	100	22	107	31	95	42			
5	NBS 250231	NBS 250231		SUN 150022	0.0						102	32	88	58	108	41	114	6	90	28	94	32			
6	NBS 250233	NBS 250233		SUN 180030	0.0						107	31	92	56	105	37	105	12	88	25	92	31			
7	NBS 260003	NBS 260003	RG 220099	TR 230042	0.0						98	61	112	52	84	40	87	23	106	30	96	39			
8	NBS 260011	NBS 260011	RG 220099	TR 230022	0.0						121	60	95	52	79	39	94	22	103	30	91	38			
9	NBS 260012	NBS 260012	RG 220099	TR 210014	0.0						125	58	90	45	85	38	102	21	105	24	98	35			
10	NBS 260024	NBS 260024	RG 220099	TR 200090	0.0						117	56	92	43	100	35	97	21	103	24	99	33			
											★★★★☆														
1	NBS 250137	NBS 250137	BOS 233486	TR 220079	0.0						90	56	103	44	106	31	95	19	90	23	88	33			
2	NBS 250210	NBS 250210		SUN 170004	0.0						87	32	106	56	110	37	91	11	80	25	82	31			
3	NBS 250226	NBS 250226		SUN 180020	0.0						96	29	99	56	105	35	105	6	83	24	89	29			

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			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	NBS 250032	MS HONEY 1	RG 220099	AHD 230260	0.9						126	61	96	65	89	43	100	24	114	32	111	43				
2	NBS 250064	MS PRETTY 27	RG 220099	TR 190006	0.0						106	60	103	63	104	45	90	21	113	26	110	41				
3	NBS 250097	MS SATIN 25	RG 220099	TR 230048	0.0						121	60	94	64	95	42	101	21	114	27	111	41				
											★★★★☆															
1	NBS 250034	MS HARPER 1	RG 220099	AHD 230067	0.0						122	59	94	61	87	39	108	21	107	26	106	39				
2	NBS 250051	MS BELLE 2	RG 220099	TR 230021	0.0						130	60	93	64	77	43	100	22	109	31	100	42				
3	NBS 250054	MS RENELLA 8	RG 220099	TR 210045	0.0						121	60	97	63	94	45	98	21	104	26	104	41				
4	NBS 250059	MS MAIVE 19	RG 220099	TR 180021	0.0						111	60	107	62	88	44	93	21	109	26	105	40				
5	NBS 250071	MS MAIVE 20	RG 220099	TR 200025	0.0						114	59	98	62	93	44	101	27	109	26	107	41				
6	NBS 250086	MS PRADA 12	RG 220099	TR 230049	0.0						118	60	91	63	93	40	104	21	109	27	105	40				
7	NBS 250108	MS ANNA 3	RG 220099	TR 210012	0.0						119	59	90	60	91	40	103	21	107	26	100	39				
8	NBS 250115	MS SATIN 27	RG 220099	TR 190025	0.0						105	61	101	63	90	46	101	21	107	26	101	41				
9	NBS 250123	MS SATIN 29	RG 220099	TR 200020	0.0						96	59	106	62	97	45	100	27	107	25	104	41				
10	NBS 260018	MS PRETTY 29	RG 220099	TR 220026	0.0						120	58	94	48	95	34	95	21	105	24	100	35				
11	NBS 260025	MS BOS 2	RG 220099	BOS 166026	0.5						121	60	98	54	82	44	101	30	106	36	102	42				
12	NBS 260032	MS MAIVE 21	RG 220099	TR 120062	0.0						103	59	101	49	94	45	101	22	113	26	107	38				
											★★★★★															
1	NBS 250061	MS PRIDE 33	BOS 233486	TR 120079	0.0						86	57	121	61	102	41	81	19	98	24	98	38				
2	NBS 250063	MS FRANCIS 2	BOS 233486	TR 200047	0.0						83	54	109	58	105	37	89	19	95	23	91	36				
3	NBS 250081	MS AMY 2	RG 220099	TR 230019	0.0						108	60	100	62	83	41	97	22	107	29	96	41				
4	NBS 250109	MS SATIN 26	BOS 233486	TR 190027	0.0						77	56	110	61	107	42	92	19	95	24	91	38				
5	NBS 250121	MS SATIN 28	BOS 233486	TR 170012	0.0						76	57	119	61	103	46	90	21	98	24	97	40				
6	NBS 250132	MS ALICE 2	RG 220099	TR 210009	0.0						133	58	85	45	83	40	101	21	107	26	98	36				
7	NBS 250149	MS PRETTY 28	RG 220099	TR 230011	0.0						113	59	96	49	98	34	97	21	101	26	98	36				
8	NBS 250217	NBS 250217		EP 220004	0.0						112	20	84	54	104	28	116	7	84	19	90	25				
9	NBS 250221	NBS 250221		EP 220017	0.0						103	22	90	53	105	28	115	8	86	16	92	25				
10	NBS 250228	NBS 250228		SUN 220019	0.0						111	29	96	55	97	29	114	5	80	21	91	27				
11	NBS 250239	NBS 250239		SUN 170001	0.0						105	32	91	56	102	39	111	17	89	26	92	33				

Selection List on Cow Value
Heifers younger than 2 years

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value						
Sorted on ID						nt821 Q204X F94L Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc						
											★★★★									
12	NBS 260029	MS PRADA 14	TR 220005	TR 240014	0.0		80	55	109	37	99	30	95	9	100	20	92	28		
											★★★★☆									
1	NBS 250021	MS MAIVE 18	BOS 233486	TR 230014	0.0		79	57	111	62	94	41	93	21	98	30	89	40		
2	NBS 250029	MS PRIDE 32	BOS 233486	TR 230012	0.0		100	55	97	61	102	37	100	19	89	26	89	38		
3	NBS 250072	MS HESTER 1		AHD 230087	0.0		97	48	87	54	99	27	123	5	80	17	83	29		
4	NBS 250073	MS HETTIE 1		AHD 230094	0.0		102	48	87	54	105	27	117	6	81	17	87	30		
5	NBS 250202	NBS 250202		SUN 190023	0.0		105	26	84	54	105	31	115	7	82	18	85	27		
6	NBS 250203	NBS 250203		SUN 200032	0.0		118	24	77	51	101	31	118	7	81	12	84	25		
7	NBS 250204	NBS 250204		OBS 190135	0.0		101	33	98	56	104	36	107	10	76	27	85	31		
8	NBS 250207	NBS 250207		SUN 190035	0.0		93	27	97	54	112	31	98	5	75	20	80	27		
9	NBS 250208	NBS 250208		SUN 150008	0.0		92	28	103	55	108	36	97	10	85	25	88	30		
10	NBS 250218	NBS 250218		SUN 220005	0.0		101	30	94	55	97	29	110	7	83	22	85	28		
11	NBS 250220	NBS 250220		SUN 180027	0.0		99	32	100	56	105	36	100	11	79	25	85	31		
12	NBS 250223	NBS 250223		SUN 180022	0.0		99	31	88	55	107	34	115	11	79	25	84	30		
13	NBS 250225	NBS 250225		SUN 150030	0.0		91	28	92	56	113	36	111	11	77	24	83	30		
14	NBS 250241	NBS 250241		EP 210022	0.0		102	48	86	30	109	25	112	8	77	19	82	24		
15	NBS 250242	NBS 250242		EP 210031	0.0		106	47	83	28	106	17	118	6	78	18	85	22		
16	NBS 260026	MS RENELLA 9	TR 220005	TR 230030	12.5		99	56	109	47	86	39	87	12	92	27	84	34		

	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.

