

BEEFMASTER

GENOMIC BREEDING VALUE REPORT

September 2026



VERSFELD BEEFMASTERS

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BEEFMASTER
CATTLE BREEDERS' SOCIETY OF SA
BEESTELERSGENOOTSAP VAN SA



EBVs, EBVi's and GEBVs

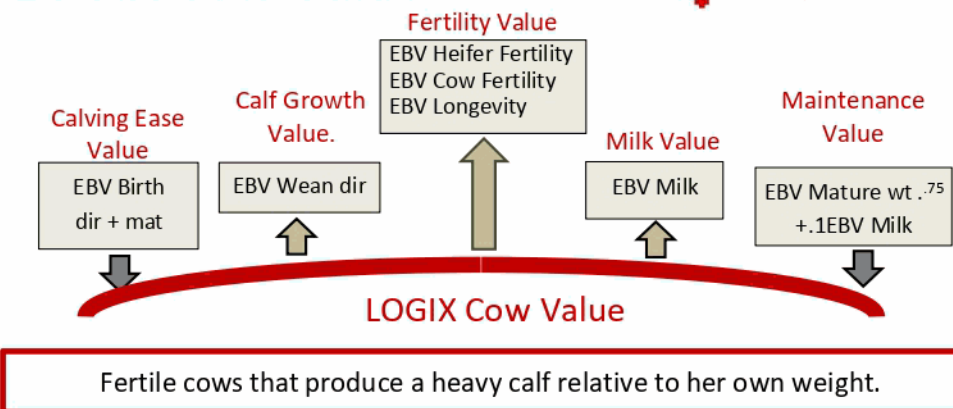
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

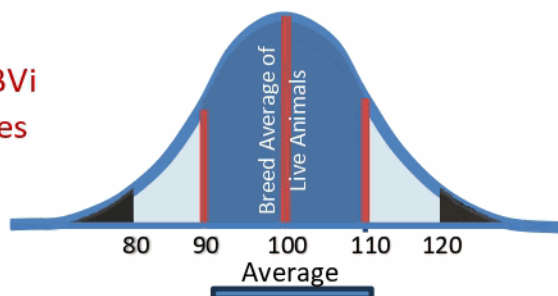
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

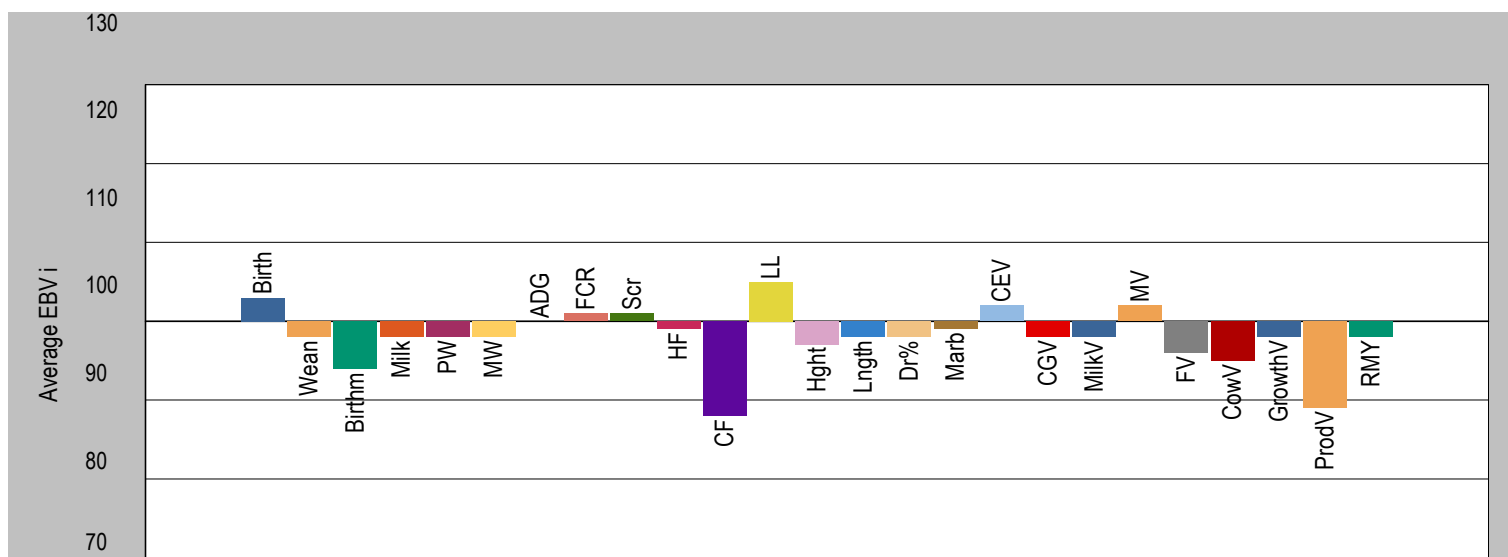
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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
Prewean Growth	Birth Weight	0.04	103	0.34
	Wean Weight	11.2	98	12.1
	Birth Mat.	0.20	94	-0.05
	Milk (Wn.Mat.)	-1.8	98	-1.4
Postwean Growth	Postwean Wt	17.8	98	19.0
	Mature Weight	5	98	7
	ADG	71	100	72
	FCR	-40	101	-39
Fertility	Scrotal Circumf.	11.9	101	11.1
	Heifer Fertility	-6.4	99	-7.5
	Cow Fertility	-1.7	88	-4.1
	Longevity	17.9	105	14.8
Frame	Height	-1	97	1
	Length	11	98	13
Carcass	EMA	0.67	98	0.85
	Fat	0.29	103	0.11
	Marbling	0.26	99	0.30

Selection Value	Ave. Herd
Calving Ease	102
Calf Growth	98
Milk	98
Maintenance	102
Fertility	96
Cow Value	95
Growth Value	98
Production Value	89
Carcass Value	98

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

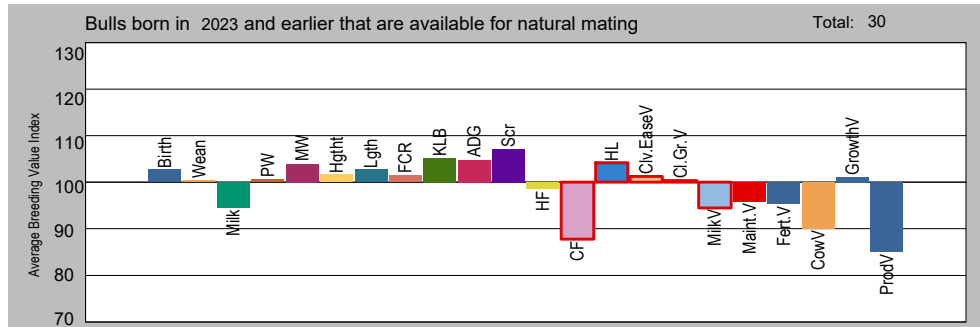
What does a sub-selection value above breed average (100) mean?:

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

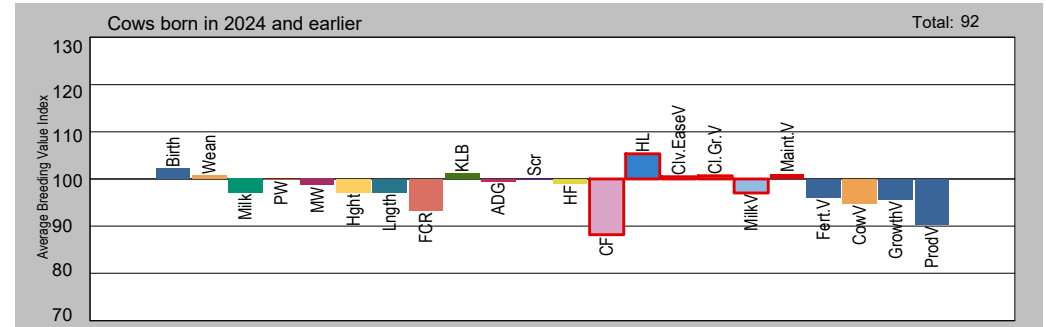
Genetic Windows

Animals available for breeding

Bulls on the farm

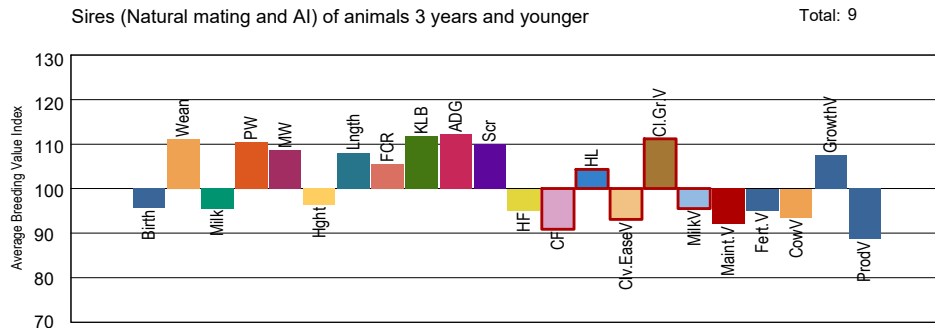


Cow Herd

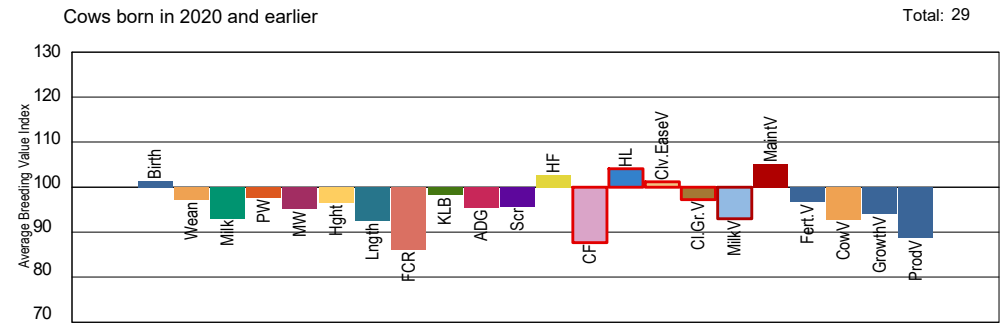


Results of previous selection decisions

Sires of young animals

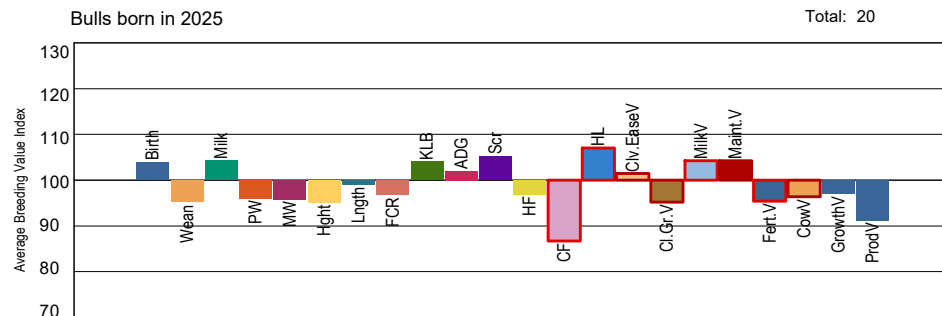


Cows older than 6 years

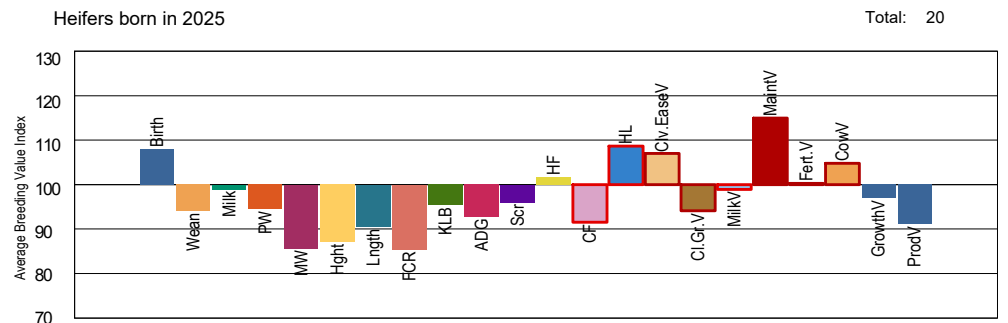


Selection possibilities

Bull calves



Heifer calves

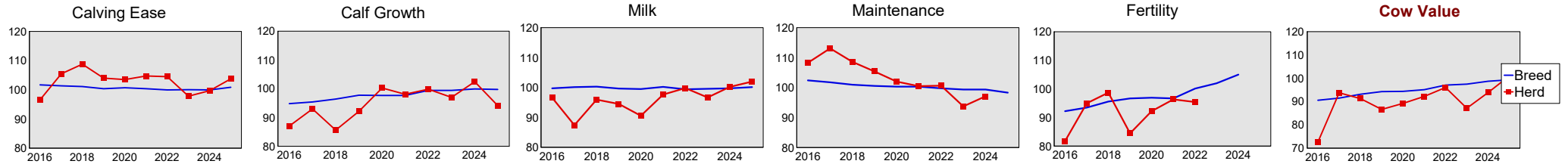


Summary of Cow Herd

			Selection Values (SV)							Calf Weight		Dam		Growth & Efficiency				Fertility				Frame			
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
Cows in Breed Average:			100	99	100	101	100	100	99	100	100	99	99	100	99	99	99	99	99	99	100	100	100	99	99
2009	1	★★★	109	95	68	98	89	71	82	65	107	95	102	68	91	102	74	79	76	101	87	91	89	73	
2012	1	★★★★☆	111	99	87	125	99	108	91	102	109	99	103	87	97	77	94	93	105	103	86	111	89	94	
2013	1	★★★★☆	103	92	114	126	110	124	101	118	98	92	116	114	91	73	91	88	95	108	103	113	95	99	
2014	3	★★★★	112	88	82	110	106	94	86	87	109	88	118	82	85	89	87	90	88	114	103	100	90	83	
2015	4	★★★★☆	106	86	95	116	88	86	92	81	108	86	93	95	88	87	96	103	84	97	76	102	97	90	
2016	5	★★★★☆	108	87	101	120	111	109	85	101	109	87	95	101	87	83	80	81	91	110	97	105	93	84	
2017	6	★★★★	101	101	90	98	100	93	99	93	101	101	100	90	104	102	102	107	102	108	89	107	99	94	
2018	5	★★★★	108	95	93	105	101	99	91	95	110	95	92	93	94	95	94	95	98	100	97	108	95	93	
2019	5	★★★★☆	86	106	104	98	85	86	99	83	88	106	97	104	107	103	102	104	102	92	75	100	101	99	
2020	6	★★★★	100	93	102	105	98	94	99	83	100	93	98	102	99	95	92	92	94	106	91	103	98	94	
2021	13	★★★★	103	98	98	105	96	96	93	91	106	98	90	98	96	95	98	101	102	101	83	110	91	93	
2022	10	★★★★	103	97	103	105	95	97	95	93	105	97	93	103	95	95	95	95	93	94	94	101	93	95	
2023	13	★★★★	99	104	98	94	95	92	101	89	101	104	94	98	102	106	105	105	107	94	90	106	104	104	
2024	30	★★★★	99	104	99	98	95	96	97	92	101	104	92	99	103	101	102	102	102	98	89	104	98	100	
2025	20	★★★★☆	107	94	99	115	100	105	97	91	108	94	94	99	95	86	93	96	96	102	92	109	87	91	
Cows in Herd Average:			104	96	96	108	98	97	94	91	104	96	98	96	96	93	94	95	96	102	90	105	95	92	

Genetic Trends for On-Farm Traits

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



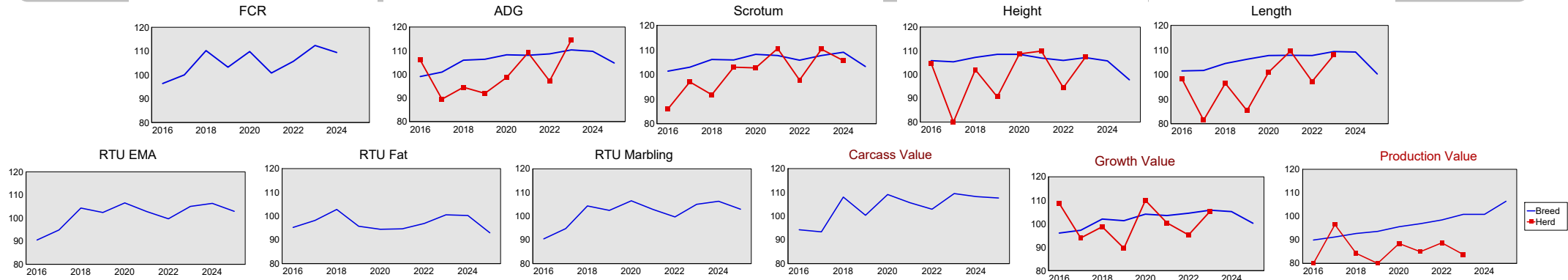
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity		Ferti-lity		
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	
2016	19	0.40	0.26	97	17	4.6	87	17	-2.36	97	8	10.8	4	-2	108	3	-6.3	3	1.8	18	10.8	82	73
2017	21	-0.17	0.12	105	20	8.1	93	20	-4.96	87	9	10.5	1	-7	113	4	-7.0	6	-2.4	19	10.7	95	94
2018	31	-0.23	-0.16	109	14	3.8	86	14	-2.58	96	9	4.6	3	-13	109	3	-14.9	1	-1.6	31	12.1	99	91
2019	29	0.13	-0.13	104	27	7.5	92	27	-2.95	95	15	12.4	1	-20	105	4	-3.6	4	1.4	28	11.5	85	87
2020	31	0.06	0.00	104	28	12.3	100	28	-4.09	91	8	18.5	3	-5	102	4	-8.2	3	-0.3	26	13.8	92	89
2021	41	-0.23	0.29	105	35	11.0	98	35	-2.09	98	23	17.0	13	2	100	13	-7.9	6	-1.2	28	14.7	96	92
2022	32	-0.17	0.23	105	28	12.0	100	28	-1.49	100	26	18.0	1	0	101	10	-3.4			11	12.4	95	96
2023	46	0.34	0.20	98	45	10.4	97	45	-2.38	97	20	20.2			94								87
2024	52	0.13	0.31	100	45	13.5	102	45	-1.34	100	30	21.6			97								94
2025	42	-0.12	0.24	104	35	8.7	94	35	-0.86	102													101

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility								Cow Value
	Birth Weight		Calv. Ease	Dir EBV	Mat EBV	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity			
	Number	EBV				Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	Number	
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			
2017				2	35	90	2	9.3	97	2	-11	80	2	-4	82									94	97
2018				4	52	95	4	6.4	92	4	2	102	4	10	97									99	84
2019				5	43	92	5	12.9	103	5	-4	91	5	-1	85									90	76
2020				3	67	99	3	12.4	103	3	7	109	3	14	101									110	89
2021				5	106	109	5	17.2	111	5	7	110	5	23	110									100	85
2022				5	62	97	5	10.0	98	5	-2	94	5	11	97									95	89
2023				6	125	115	6	17.0	110	6	6	107	6	21	108									105	84
2024							5	14.2	106																
2025																									

Breed

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi					
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 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.
BOS 166103		BOS 066337 BOS 088340	74	124	89	83	106	93	117	93	79	124	93	89	126	119	125	114	112	119	100	99	86	114	124	156	131	107	81
BOS166103			96	96	93	91	92	86	92	87	2.12	25.9	0.23	-4.6	39.2	29	163	-54	17.9	-22.6	-4.1	14.4	-7	27	3.24	3.35	2.08	15	10
BOS 166109		BOS 066337 BOS 099268	85	109	92	91	120	103	102	99	81	109	121	92	107	108	106	85	74	121	120	108	92	116	102	133	135	17	27
BOS166109			92	93	91	89	90	83	88	84	1.92	17.2	-0.89	-3.8	24.4	16	93	-23	-3.9	-23.6	-8.1	19.7	-3	28	1.05	2.04	2.31	2	11
BOS 177663		BOS 100441 BOS 100738	86	122	91	85	85	84	114	84	83	122	112	91	123	116	120	114	102	72	89	103	71	103	145	37	68	134	118
BOS177663			96	97	93	92	92	86	92	87	1.72	24.6	-0.54	-4.0	37.1	25	145	-54	12.1	14.7	-1.8	16.8	-15	16	5.28	-3.58	-1.53	28	16
FRJ 100094		FRJ 050154 FRJ 040052	98	94	74	95	91	68	106	67	94	94	112	74	90	104	111	114	79	96	102	84	91	93	103	94	108	34	35
FRJ100094			85	88	76	45	63	67	46	63	0.82	8.7	-0.55	-8.7	11.0	12	112	-55	-0.7	-4.2	-4.4	5.1	-4	7	1.14	-0.27	0.75	6	4
FRJ 110138		FXF 080081 FRJ 080004	87	78	109	120	62	63	109	63	92	78	87	109	83	81	110	101	58	93	37	94	105	96	101	77	118	149	139
FRJ110138			96	97	93	89	89	85	88	86	0.96	-0.5	0.44	1.1	6.2	-15	108	-40	-13.0	-2.1	8.6	11.0	4	10	0.92	-1.26	1.34	42	35
FRJ 130118		MAJ 070476 FRJ 050011	118	75	115	133	116	125	78	115	113	75	108	115	73	64	86	86	84	132	111	98	57	66	85	88	103	195	185
FRJ 130118			96	97	92	68	82	80	50	74	97	97	91	92	94	68	86	10	90	86	65	94	67	65	42	37	36	23	39
FRJ 130193		FRJ 100161 FRJ 080530	107	110	94	91	109	108	96	102	100	110	118	94	109	108	112	112	153	101	112	108	116	113	110	72	90	66	50
FRJ130193			91	91	85	63	71	74	44	68	0.31	17.8	-0.77	-3.0	26.2	17	116	-52	41.2	-8.1	-6.6	19.9	11	25	1.79	-1.50	-0.30	11	18
FRJ 140016		FXF 080081 FRJ 040109	88	123	93	78	98	93	122	94	84	123	117	93	122	126	120	105	93	101	87	108	124	127	127	80	124	47	47
FRJ 140016			89	91	84	67	72	75	44	69	1.67	25.1	-0.72	-3.4	36.3	36	146	-45	7.2	-8.5	-1.4	19.8	15	39	3.52	-1.05	1.67	5	15
FRJ 140031		SP 090111 FRJ 110017	110	98	59	89	92	66	90	61	105	98	112	59	99	113	101	99	104	111	96	80	95	92	92	79	94	31	19
FRJ 140031			84	83	73	58	63	67	42	62	-0.04	11.2	-0.52	-13.0	18.3	22	77	-38	13.6	-16.1	-3.2	2.4	-1	5	0.10	-1.09	-0.03		6
FRJ 150045		FXF 090168 FRJ 070049	103	90	93	96	98	83	112	82	147	90	54	93	95	102	116	108	96	74	114	104	96	103	106	102	107	28	28
FRJ150045			88	89	82	63	69	72	40	66	-3.61	6.3	1.76	-3.3	14.9	10	130	-48	8.8	12.9	-6.8	17.5	-1	16	1.44	0.25	0.67		7
FRJ 160077		FXF 120091 FRJ 080525	124	111	58	90	98	88	122	89	123	111	92	58	115	111	118	105	153	90	104	101	109	107	112	75	126	149	137
FRJ160077			95	96	91	74	77	80	48	74	-1.61	18.7	0.25	-13.2	30.8	20	136	-45	41.2	0.1	-4.8	15.6	7	20	2.01	-1.37	1.78	32	51

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny					
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.			
FRJ 180483				FRJ 150008		87	134	83	72	103	97	122	98	92	134	88	83	126	136	127	126	105	102	103	104	125	128	136	74	46	27	27
FRJ 130894		88		90	83																										80	81
FRJ180483																																
FXF 080283				FXF 020049		100	98	95	111	64	74	95	70	97	98	107	95	96	91	100	86	111	91	44	87	93	88	93	121	126	194	170
FXF 010056		96		97	93																										84	84
FXF080283																																
HU 060039				FRJ 010005		128	89	47	88	92	59	81	53	122	89	108	46	89	115	78	58	70	107	87	92	87	83	70	97	100	35	34
HU 030256		87		89	82																										68	69
HU 060039																																
MAJ 070476				BOS 022082		103	80	104	126	107	106	110	103	100	80	107	104	85	74	105	84	108	113	93	112	87	91	89	67	110	66	66
MAJ 040675		93		94	92																										72	80
MAJ 070476																																
RLR 140083				RLR 111153		118	115	50	82	115	91	91	86	113	115	110	50	107	123	93	89	76	113	132	93	95	93	98	125	123	121	123
FXF 070136		95		96	92																										90	90
RLR 140083																																
SP 090111				WN 060055		134	89	67	127	123	120	78	109	126	89	126	67	89	75	84	83	109	144	118	99	86	82	77	87	80	69	64
SP 020048		94		95	93																										90	90
SP090111																																
V 210022				WO 160019		106	105	111	100	100	112	99	107	110	105	86	111	109	98	105	90	109	96	96	110	102	108	106	118	107	21	15
SP 150065		78		81	60																										43	45
V210022																																
V8 160085				BOS 122346		92	102	61	93	108	75	95	72	88	102	114	61	97	108	99	102	114	103	105	110	88	89	94	119	116	251	181
BOS 099243		98		98	96																										94	95
HILUX V8 16 0085																																
VYF 120114				FXF 070291		84	109	109	84	106	98	122	99	79	109	118	109	117	117	130	121	153	98	118	100	126	119	123	96	111	79	77
FXF 080707		92		93	88																										73	75
VYF120114																																
WO 090427				WO 040069		86	100	129	103	88	101	118	100	98	100	65	129	112	95	128	132	80	93	65	116	98	95	109	89	99	44	43
WO 050215		92		93	90																										86	86
WO090427																																
WO 100124				WO 080137		98	127	126	82	118	139	136	139	103	127	86	126	141	118	144	111	153	112	133	98	129	147	134	135	115	76	91
WO 040077		96		97	95																										93	93
WO100124																																

Sires

Bull				Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID	Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
WO 100125		WO 080479	WO 020215	100	102	99	96	81	83	98	79	101	102	95	99	100	102	100	92	110	70	81	102	97	102	103	103	96	10	8
WO100125				79	80	74	62	65	67	44	62	0.23	13.2	0.14	-1.6	19.4	9	72	-31	16.8	16.0	-0.3	16.2	0	15	1.18	0.26	0.06		
												81	80	73	74	72	62	53	32	56	68	53	74	57	55	36	34	33	3	15
WO 120217		WO 100172	WO 080686	108	124	85	113	121	137	110	132	110	124	90	85	131	90	106	96	108	125	98	128	95	107	113	119	93	457	437
WO120217				99	99	98	97	97	90	94	91	-0.48	25.9	0.34	-5.6	42.9	-5	96	-35	15.5	-27.2	-3.7	32.0	-1	20	2.09	1.20	-0.09	1	142
												99	99	98	98	98	97	95	94	95	98	96	98	95	95	94	94	94		496
WO 140037		WO 120217	WO 120097	94	137	105	76	100	115	117	114	93	137	104	105	148	128	104	79	117	89	98	111	98	118	121	135	105	38	37
WO140037				88	89	80	69	69	73	48	68	0.89	33.6	-0.23	-0.1	56.0	39	86	-16	20.6	1.5	-3.7	21.9	0	31	2.91	2.17	0.60		
												90	89	80	80	77	69	54	35	62	73	55	80	62	60	27	24	24	3	10
WO 140688		WO 040263		95	94	81	117	86	79			101	94	80	81	93	86	83		84	107	90	76	92	86				10	8
WO140688				70	72	61	35	45	53			0.21	8.6	0.74	-6.6	13.4	-8	10		2.0	-13.0	-2.0	-0.1	-3	0					
												74	72	58	61	44	35	12		14	43	26	66	14	13				4	11
WO 160019		QJA10201M	WO 130816	113	111	103	96	90	106	103	102	116	111	84	103	107	102	105	88	98	81	89	107	101	111	111	114	107	125	113
WO160019				92	95	82	60	63	73	40	66	-1.03	18.5	0.59	-0.5	24.4	10	90	-26	10.1	7.2	-1.8	19.1	2	24	1.93	0.94	0.69	9	21
												95	95	83	82	83	60	68	6	78	76	36	77	77	74	17	15	14		33
WO 160516		WO 120032	WO 080723	71	137	103	74	87	92	110	90	60	137	96	103	138	131	117	111	119	73	77	117	122	120	114	85	95	4	4
WO160516				74	75	71	58	58	62	26	55	3.69	33.7	0.10	-0.7	48.7	42	135	-51	22.2	13.8	0.5	25.2	14	32	2.27	-0.74	-0.01		
												76	75	69	71	64	58	34	14	44	59	50	65	38	36	22	20	19	4	10
WO 160727		WO 090427	WO 080375	102	88	125	117	117	126	94	119	107	88	84	125	101	83	105	104	95	135	96	113	81	92	93	124	82	14	13
WO160727				90	91	89	87	87	81	84	82	-0.21	5.3	0.57	5.7	20.0	-12	91	-44	8.2	-34.6	-3.3	22.9	-10	6	0.13	1.50	-0.72		
												91	91	88	89	88	87	86	83	86	87	85	88	86	86	83	83	83	2	5
WO 170069		WO 140179	WO 090011	70	101	117	92	89	82	105	80	77	101	87	117	100	105	124	131	140	113	56	110	92	100	95	115	101	33	28
WO170069				93	94	91	90	90	84	90	85	2.21	12.7	0.47	3.4	19.2	13	159	-73	33.9	-17.5	4.7	21.2	-3	13	0.35	0.99	0.34	3	9
												94	94	91	91	92	90	90	89	91	90	88	91	91	91	87	87	87		12
WO 190476		WO 160019	WO 090429	121	97	98	122	102	119	95	112	118	97	102	98	95	80	91	71	87	94	101	111	79	94	94	105	111	3	3
WO190476				86	86	83	80	81	76	80	77	-1.13	10.1	-0.13	-1.9	15.0	-16	40	-8	3.5	-2.4	-4.2	21.6	-11	8	0.23	0.39	0.94		
												87	86	83	83	82	80	80	79	81	81	79	83	81	81	79	79	79		1
WO 190499		WO 170069	WO 120061	88	95	108	87	87	76	113	76	93	95	87	108	99	112	124	117	138	109	68	99	99	111	109	117	99	48	47
WO 190499				91	92	85	83	84	80	83	81	0.89	9.1	0.44	1.0	18.0	21	157	-57	32.5	-14.4	2.4	14.1	1	24	1.71	1.08	0.23	2	
												93	92	85	85	86	83	84	82	85	83	82	86	85	84	81	81	81		
WO 190624		S 144231	WO 100055	100	76	125	127	116	121	79	110	102	76	93	125	87	70	79	65	75	136	99	108	60	67	77	105	98	59	39
WO190624				85	87	62	42	48	61	20	53	0.20	-1.6	0.21	5.6	9.1	-27	-6	-1	-3.2	-35.8	-3.9	19.7	-22	-18	-1.45	0.41	0.17		
												91	87	63	62	55	42	28	12	30	48	32	65	30	29	16	14	14	1	1

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	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty						Grwth Test
WO 190798		WO 160843 WO 161025	85	110	111	85	92	91	98	87	88	110	93	111	113	115	108	111	119	106	82	98	105	104	98	110	101	2	2
WO190798			61	65	48	37	39	47	27	43	1.31	18.0	0.22	1.7	29.2	24	100	-51	21.7	-12.3	-0.4	13.5	4	17	0.63	0.69	0.34	1	
WO 200905		WO 080164	83	116	108	89	72	82	97	78	89	116	86	108	112	109	112	116	120	76	72	89	114	117	105	118	110	10	7
WO200905			68	70	47	37	40	49	25	44	1.25	21.4	0.49	1.0	28.0	18	117	-57	22.5	10.9	1.6	8.1	10	30	1.34	1.15	0.84		
WO 210065		WO 190476 WO 190552	109	92	106	123	105	117			111	92	91	106	95	78	93	82	92	98	96	118	81	92	89	111	100	29	25
WO210065			77	83	51	34	36	53			-0.59	7.7	0.31	0.2	15.1	-18	46	-20	6.8	-6.0	-3.3	26.2	-9	6	-0.25	0.75	0.30		
Z 120313		Z 000371	85	103	97	102	101	94			96	103	69	97	111	96	93		109	100	99	103	115	100	82	113	114	69	54
Z120313			91	91	86	74	69	76			0.64	13.8	1.17	-2.2	27.4	3	48		16.4	-7.5	-4.0	16.9	10	14	-0.91	0.88	1.10		
Z 150394		FXF 040408 Z 120051	92	100	95	96	85	78	93	74	92	100	103	95	101	102	96	87	101	94	77	97	95	92	95	98	102	16	13
Z150394			77	79	63	55	62	62	32	56	1.03	12.3	-0.19	-2.8	19.4	9	59	-25	11.7	-2.5	0.6	12.6	-1	6	0.32	0.00	0.41		

Growth Tests

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

Animal				Weight		Frame				Growth				Carcass				
Test Code	Sex	Test no	Sire ID	Cow	Wean	End-	Length	Height	Length/	Scrotum	Intake	ADG	FCR	Growth	EMA	Fat	Marbling	Carcass
Test station		ID	Dam ID	Value	dir	weight			Height					Value				Value
202401 B12 M			0657984BMA															
VERSFELD BEEFMASTERS	V	240005	BOS 166103 FRJ 170216	94	109	107	107	94	121	95	97	106	99	102	110	111	109	108
				51	68	23	20	-2	1.18	8.2	0.19	95	-38	29	1.84	0.75	0.79	30
		97446124				50	46	47	46	71	8	47	8		31	28	27	
	V	240017	WO 160019 V 150005	87	95	100	99	99	100	77	103			103	103	100	110	101
				51	68	17	12	1	1.13	-2.1		83		26	1.16	0.08	0.87	10
		97446199				48	47	48	48	71		44			11	9	9	
	V	240026	WO 160019 V 160310	98	99	104	106	108	99	113	102			97	96	94	80	96
				45	63	21	19	6	1.13	18.5		78		20	0.42	-0.22	-0.82	8
		97446264				37	37	38	38	68		34			8	7	7	
	V	240030	WO 190499 Z 200071	91	97	109	109	106	107	127	96	111	109	101	97	109	103	103
				43	65	25	21	5	1.15	26.5	0.20	113	-49	22	0.58	0.66	0.48	10
		97418438				29	29	30	30	66	16	26	16		10	9	9	
	V	240039	V 210022 WO 190380	101	125	121	120	115	114	116	88	116	109	107	117	114	109	119
				46	65	36	33	10	1.17	20.1	0.35	132	-49	24	2.49	0.90	0.82	14
		98105067				35	35	37	36	67	13	32	13		15	14	14	

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
V 200013 91001370 V 200013		WO 140037 V 110135	116 60	106 62	100 52	85 36	99 36	101 46	110 44	99 46	107 12	113 -0.75 63	102 -0.15 50	116 25 36	106 15.6 62	100 -1.3 52	98 38 50	111 27.4 48	100 71 60	89 -27 18	111 17.2 71	95 -3.4 38	95 -3.1 27	107 19.4 44	98 1 73	102 15 69	105 1.31 13	106 0.45 12	87 -0.44 12
V 200021 90983958 20021		FRJ 160077 V 151002	106 61	95 63	82 55	96 37	92 41	78 48	110 38	78 46	94 15	109 -0.39 63	90 0.34 52	103 10 37	95 9.4 63	82 -6.6 55	77 -12 52	96 16.0 53	101 77 64		128 26.9 73	88 1.8 45	93 -2.7 29	100 14.8 50	115 10 71	103 16 67	94 0.26 16	72 -1.53 14	89 -0.31 13
WO 200905 91019364 WO200905		WO 080164	83 68	116 70	108 47	89 37	72 40	82 49	97 25	78 44	114 17	89 1.25 74	86 0.49 48	109 18 37	116 21.4 70	108 1.0 47	118 84 51	112 28.0 56	112 117 30	116 -57 18	120 22.5 32	76 10.9 38	72 1.6 30	89 8.1 52	114 10 32	117 30 32	105 1.34 18	118 1.15 16	110 0.84 16
V 210022 92280346 V210022		WO 160019 SP 150065	106 78	105 81	111 60	100 43	100 45	112 58	99 36	107 54	107 21	110 -0.47 83	86 0.50 61	98 5 43	105 15.2 81	111 1.7 60	114 76 61	109 25.8 60	105 91 49	90 -28 18	109 16.2 60	96 -4.1 50	96 -3.2 27	110 20.8 58	102 3 56	108 21 54	106 1.42 22	118 1.17 20	107 0.67 20
WO 210065 92350560 WO210065		WO 190476 WO 190552	109 77	92 83	106 51	123 34	105 36	117 53			89 10	111 -0.59 84	91 0.31 54	78 -18 34	92 7.7 83	106 0.2 51	105 55 56	95 15.1 40	93 46 25	82 -20 10	92 6.8 28	98 -6.0 38	96 -3.3 20	118 26.2 50	81 -9 28	92 6 27	89 -0.25 11	111 0.75 10	100 0.30 9
V 220002 93366805 V 220002		WO 160019 V 150020	103 59	96 59	99 54	108 37	82 40	87 46	99 26	83 42	96 10	107 -0.25 60	86 0.49 54	93 -1 37	96 9.7 59	99 -1.7 54	96 32 50	95 15.0 50	100 73 44		86 3.0 49	90 0.3 45	67 2.6 24	104 17.3 52	102 3 48	100 13 47	99 0.79 10	95 -0.17 9	97 0.12 9
V 220011 93727600 V 22 0011		WO 160019 V 160004	108 63	103 65	99 53	92 35	97 37	97 47	91 20	91 42	97 8	110 -0.52 66	90 0.34 51	107 15 35	103 13.9 65	99 -1.8 53	97 36 51	101 20.2 51	95 52 34		93 7.2 40	98 -5.9 44	93 -2.7 21	104 17.1 46	101 2 38	101 15 37	94 0.26 9	98 -0.04 8	94 -0.05 7
V 220026 94009545 V220026		WO 160019 V 170021	114 64	113 66	98 54	93 38	97 43	108 49	105 25	104 44	112 12	116 -1.03 67	86 0.49 54	105 13 38	113 19.3 66	98 -1.9 54	108 61 53	113 28.7 55	107 98 38	99 -38 8	104 13.6 44	85 4.4 48	92 -2.4 29	115 24.1 52	110 7 43	114 27 42	110 1.84 13	107 0.51 12	93 -0.10 11
V 220028 94009529 V220028		WO 160019 HU 099112	109 66	104 69	86 59	94 42	93 42	89 52	95 24	84 46	94 13	110 -0.49 69	94 0.19 57	105 13 42	104 14.2 69	86 -5.3 59	89 16 57	98 17.8 56	92 44 41		89 4.9 47	91 -0.2 48	88 -1.7 25	105 18.1 54	98 0 47	95 9 45	93 0.15 14	100 0.11 12	101 0.33 11
V 220030 94009552 V220030	1	WO 160019 WO 120396	109 66	103 69	98 59	114 44	97 43	109 52	96 27	103 47	102 14	110 -0.49 69	95 0.16 57	89 -6 44	103 13.7 69	98 -1.9 59	105 54 57	100 19.2 58	98 63 40	85 -22 10	100 11.1 46	93 -2.3 49	86 -1.3 27	113 22.8 53	93 -3 45	100 14 44	103 1.11 14	114 0.92 13	100 0.32 12
V 220032 94009578 V220032		WO 160019 FRJ 120230	128 66	103 68	87 58	99 40	95 43	103 51	101 27	98 46	102 11	129 -2.05 69	89 0.38 57	100 7 40	103 14.0 68	87 -5.2 58	91 20 55	101 19.7 58	99 68 46		105 13.8 51	88 2.1 48	93 -2.6 26	108 20.0 54	91 -4 50	97 11 49	107 1.52 12	108 0.55 10	108 0.77 10
V 220035 94537057 V220035	3	WO 190798 WO 190380	81 58	120 62	100 45	78 33	96 32	90 43	97 40	86 42	109 12	83 1.75 62	98 0.02 42	125 35 33	120 23.7 62	100 -1.5 45	108 61 47	119 33.7 44	108 100 57	112 -52 12	117 21.0 69	98 -6.2 30	92 -2.5 25	103 16.5 40	107 6 71	107 20 67	104 1.25 12	110 0.67 11	103 0.48 11

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ID Number Name																																							
V 230001 95243762 VERSFELD				V	200302								107 18	83 17	109 25										91 9.4 18														
V 230002 95817805 V230002				WO	160019 V 180001								101 64	103 65	99 55	95 35	95 36	95 48	96 22	90 43	102 8	104 -0.02 67	90 0.34 54	103 10 35	103 13.9 65	99 -1.8 55	99 40 52	100 19.3 46	101 76 36	102 12.5 42	93 -2.3 42	90 -2.0 19	107 19.2 47	102 2 41	103 16 40	100 0.89 8	101 0.18 7	97 0.13 7	
V 230005 95817169 V230005				1	V8 160085 V 140014								108 67	94 69	71 60	91 44	109 45	81 53	94 28	77 48	95 10	105 -0.05 69	106 -0.29 59	109 18 44	94 8.6 69	71 -9.6 60	65 -40 58	88 10.0 54	98 66 47	97 -36 6	102 12.4 50	105 -11.7 51	112 -6.4 31	104 17.2 54	93 -2 51	93 7 50	94 0.27 11	107 0.54 10	113 1.05 9
V 230009 95817334 V230009				1	V8 160085 V 190015								103 66	88 68	81 57	112 47	109 46	92 53	92 40	87 50	87 14	98 0.46 68	113 -0.56 57	91 -4 47	88 5.0 68	81 -6.8 57	72 -24 57	85 7.1 59	97 61 66	97 -35 6	106 14.5 74	112 -16.9 51	107 -5.5 33	104 17.5 54	83 -8 75	82 -3 72	90 -0.10 14	102 0.22 13	108 0.73 12
V 230010 95817185 V230010				1	V8 160085 SP 150065								98 68	102 70	88 60	96 48	107 46	95 54	95 35	90 50	101 22	98 0.51 70	100 -0.07 60	102 10 48	102 13.2 70	88 -4.9 60	89 16 59	103 21.1 54	103 84 49	97 -36 18	119 22.0 53	105 -11.4 52	105 -5.1 32	108 19.8 54	95 -2 53	98 12 52	98 0.67 22	121 1.32 21	112 0.96 20
V 230013 95817193 V230013					V8 160085 V 140005								99 67	97 68	71 59	93 40	102 43	76 52	99 28	73 47	98 10	95 0.72 69	112 -0.52 58	107 15 40	97 10.5 68	71 -9.6 59	69 -31 56	93 13.8 54	99 69 48	101 -40 5	101 11.4 51	106 -12.3 48	97 -3.4 29	103 16.9 53	95 -1 52	93 7 51	95 0.35 10	104 0.31 9	102 0.39 8
V 230015 95817359 V230015					V8 160085 V 160105								93 61	98 63	86 54	90 38	101 37	80 47	86 38	74 45	98 8	93 0.89 63	100 -0.04 52	109 18 38	98 10.9 63	86 -5.3 54	81 -2 52	94 14.3 51	99 67 63		98 10.0 72	96 -4.0 40	99 -3.8 24	108 19.5 47	90 -4 74	94 7 70	95 0.37 9	99 0.03 8	87 -0.42 8
V 230016 95817326 V230016					V8 160085 V 170013								92 65	101 67	80 56	88 42	95 43	73 51	96 26	70 46	97 8	92 1.02 68	102 -0.12 56	113 22 42	101 12.7 67	80 -7.0 56	78 -9 55	99 18.6 50	102 80 43	105 -44 5	108 15.6 46	102 -9.3 48	89 -1.9 29	100 15.1 52	99 1 47	95 9 46	94 0.25 9	108 0.57 8	108 0.73 8
V 230017 95817318 V230017				1	V 210022 V 150005								105 61	98 64	99 49	96 33	92 36	90 46	110 39	88 45	108 12	109 -0.42 65	85 0.55 49	102 10 33	98 10.9 64	99 -1.7 49	94 28 49	99 18.5 50	114 123 61	106 -45 9	93 6.9 71	101 -8.6 40	79 0.1 24	104 17.1 45	113 9 73	108 21 69	108 1.68 13	103 0.29 12	113 1.06 11
V 230019 95817151 V230019				2	WO 190499 V 200024								84 60	96 64	103 42	92 32	92 35	78 44	108 26	77 40	104 12	87 1.42 65	95 0.14 44	106 14 32	96 10.0 64	103 -0.5 42	94 29 46	99 18.4 54	115 125 31	108 -48 17	113 18.4 36	109 -14.3 37	71 1.7 23	105 17.7 44	101 2 35	104 17 33	104 1.24 13	105 0.37 11	104 0.53 11
V 230021 95817268 V230021					V 210022 Z 200071								112 59	94 64	103 45	117 28	103 31	113 43			93 12	112 -0.67 64	94 0.17 43	85 -10 28	94 8.7 64	103 -0.6 45	102 46 46	96 15.6 37	94 51 26	87 -24 9	103 12.7 35	107 -12.9 36	101 -4.3 20	101 15.5 38	99 1 30	98 12 29	89 -0.23 12	109 0.62 11	104 0.53 11
V 230032 95817300 V230032				1	WO 190499 HU 099112								103 64	96 68	85 52	90 36	88 36	73 48	101 28	71 44	96 14	104 -0.02 68	93 0.23 51	110 19 36	96 10.0 68	85 -5.5 52	79 -8 52	96 15.8 44	103 83 34	92 -30 17	110 16.8 40	104 -10.6 38	78 0.4 23	95 11.4 47	99 1 39	97 11 37	93 0.16 14	102 0.20 13	97 0.13 12

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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																													
V 230034 95817458 V230034	1	WO 190499 V 150020	95 62	93 66	96 47	95 30	81 34	70 45	116 42	71 44	113 10	100 0.32 66	85 0.53 47	103 11 30	93 8.1 66	96 -2.7 47	86 9 48	97 17.1 50	131 184 60	130 -72 16	127 26.8 71	102 -8.8 33	58 4.3 22	100 14.8 46	121 14 73	116 28 69	114 2.26 11	97 -0.06 10	97 0.11 10
V 230035 95817367 V230035	1	WO 190499 V 150007	95 63	89 66	93 49	97 34	84 38	69 47	102 29	68 43	97 12	98 0.49 67	92 0.25 48	101 8 34	89 6.0 66	93 -3.4 49	81 -4 50	93 13.6 43	108 103 37	101 -40 17	101 11.8 42	101 -8.5 39	65 3.1 27	101 15.5 47	100 1 41	99 12 40	98 0.68 12	106 0.47 11	105 0.56 11
V 230040 95817409 V230040		FRJ 180483 FRJ 170216	103 62	119 66	84 48	78 26	104 33	96 44	104 37	93 43	114 24	102 0.15 66	100 -0.07 47	126 37 26	119 23.0 66	84 -6.0 48	94 28 47	111 27.4 54	109 105 63		107 15.1 73	106 -11.9 35	94 -2.9 21	110 21.0 44	116 11 70	120 32 66	118 2.63 26	72 -1.50 23	67 -1.57 23
V 230041 95817433 V230041	1	WO 190499 HU 099181	83 63	102 67	101 50	92 38	90 36	79 48	105 28	77 44	103 10	87 1.41 67	92 0.26 49	107 15 38	102 13.0 67	101 -1.2 50	97 36 52	102 20.8 43	110 108 36	102 -42 17	108 15.9 42	100 -7.4 38	84 -0.8 23	95 12.0 47	102 2 41	106 19 39	100 0.82 11	103 0.29 10	101 0.35 10
V 230051 96229018 V 230051	1	WO 190499 WO 170433	86 63	104 65	116 49	87 36	90 36	89 47	124 43	90 46	128 12	92 0.97 67	85 0.54 49	112 21 36	104 14.2 65	116 3.1 49	110 64 50	109 25.9 50	137 208 60	131 -73 17	131 28.5 71	96 -4.3 39	72 1.6 24	111 21.6 46	121 13 72	128 40 68	126 3.37 13	111 0.73 12	104 0.52 11
V 230054 96229034 V 230054		WO 190499 Z 160112	98 63	98 64	95 47	98 31	100 36	91 45	102 25	88 41	104 12	101 0.29 67	92 0.26 48	100 7 31	98 11.1 64	95 -2.9 47	92 23 47	102 20.5 42	110 107 30	103 -43 16	124 25.0 37	119 -22.5 38	82 -0.6 24	102 16.2 46	105 4 35	107 20 33	99 0.73 13	112 0.81 11	104 0.55 11
V 240005 97446124 V 240005		BOS 166103 FRJ 170216	98 65	109 68	89 55	87 40	105 43	94 51	102 29	91 47	108 30	98 0.53 69	102 -0.12 53	114 23 40	109 17.4 68	89 -4.5 55	93 26 54	110 26.5 56	106 95 47	99 -38 8	95 8.2 71	117 -20.5 47	91 -2.2 32	107 18.9 51	94 -2 47	107 20 46	110 1.84 31	111 0.75 28	109 0.79 27
V 240011 97446157 V 240011		WO 160019 V 190013	109 64	105 66	100 52	94 37	81 41	89 49	102 24	86 44	106 10	113 -0.70 67	86 0.49 53	105 12 37	105 14.8 66	100 -1.4 52	101 45 52	101 20.2 50	106 94 41		106 14.8 46	77 10.4 47	76 0.8 26	103 16.8 50	110 7 45	110 22 44	105 1.39 10	107 0.52 9	101 0.36 9
V 240012 97418388 V 240012		WO 190499 V 200302	98 55	94 59	107 40	87 22	94 24	84 38	102 22	81 35	105 10	100 0.32 60	92 0.25 39	112 21 22	94 8.9 59	107 0.6 40	93 26 40	96 15.6 32	112 116 25	115 -55 16	121 23.3 30	98 -6.0 23	80 -0.1 14	108 19.8 36	111 8 28	110 23 27	101 0.99 10	97 -0.06 9	79 -0.88 8
V 240015 97418396 V 240015		V 210001	101 48	83 53	103 30	115 23	84 22	83 33			77 10	101 0.24 54	98 0.02 29	87 -8 23	83 2.1 53	103 -0.6 30	87 12 35	83 5.7 24	85 17 19	89 -27 17	96 9.0 21	103 -9.5 27	78 0.4 12	88 7.1 28	84 -8 21	81 -5 20	71 -1.95 10	101 0.17 9	97 0.12 9
V 240017 97446199 V 240017		WO 160019 V 150005	103 66	95 68	102 56	100 40	88 43	87 51	103 26	84 46	101 10	107 -0.22 69	87 0.47 56	98 5 40	95 9.0 68	102 -0.8 56	95 31 55	92 13.2 56	103 83 44		77 -2.1 71	98 -5.7 49	73 1.4 27	103 16.7 52	99 1 48	99 12 47	103 1.16 11	100 0.08 9	110 0.87 9
V 240018 97418404 V 240018		V 160105	97 45	89 49	109 31							100 0.31 50	91 0.31 27		89 5.9 49	109 1.0 31		87 9.3 6	89 32 14		91 6.0 18			88 7.2 23	102 2 18	96 9 17			

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ID Number Name																													
V 240019 97446207 V 240019	1	BOS 166103 FRJ 180063	93 64	112 68	96 55	94 43	101 44	100 51	109 28	97 46	113 30	101 0.27 68	77 0.84 52	104 11 43	112 18.9 68	96 -2.6 55	106 55 55	113 29.4 54	116 131 46	107 -47 8	109 16.5 49	96 -4.5 48	101 -4.2 32	106 18.6 51	95 -1 45	111 24 44	114 2.25 31	131 1.90 28	120 1.43 27
V 240025 97446256 V 240025		WO 160019 V 190004	100 65	110 67	99 54	97 39	80 42	89 50	106 26	87 45	110 10	104 0.01 68	88 0.43 54	101 9 39	110 18.1 67	99 -1.8 54	108 60 53	107 24.5 52	106 95 43		103 12.9 49	78 9.7 49	72 1.5 27	104 17.1 51	104 4 49	110 23 47	108 1.64 11	110 0.71 9	113 1.03 9
V 240026 97446264 V 240026		WO 160019 V 160310	116 61	99 63	100 53	97 30	93 33	98 45	97 20	93 40	96 8	117 -1.11 64	89 0.38 50	101 9 30	99 11.4 63	100 -1.5 53	96 33 49	96 15.6 48	102 78 34		113 18.5 68	87 2.5 38	89 -1.8 17	108 19.9 44	108 6 38	106 19 37	96 0.42 8	94 -0.22 7	80 -0.82 7
V 240030 97418438 V 240030		WO 190499 Z 200071	97 61	97 65	99 44	100 29	97 31	91 43	101 22	87 39	103 10	98 0.50 66	97 0.08 43	98 5 29	97 10.2 65	99 -1.7 44	95 30 46	98 17.3 46	111 113 26	109 -49 16	127 26.5 66	110 -15.7 34	89 -1.9 21	96 12.2 39	106 5 30	109 21 29	97 0.58 10	109 0.66 9	103 0.48 9
V 240031 97418446 V 240031	1	WO 190499 V 210036	98 61	97 65	106 43	98 33	93 33	91 44	106 26	89 40	106 12	102 0.15 66	88 0.42 44	100 7 33	97 10.4 65	106 0.1 43	100 41 47	97 16.7 42	111 114 33	100 -39 16	117 20.5 38	102 -9.4 37	79 0.1 20	104 17.5 42	96 -1 36	106 19 35	105 1.36 12	109 0.62 11	102 0.42 10
V 240035 97418487 V 240035		V 210022 V 190102	103 55	94 58	109 41	100 21	97 26	97 38			91 10	106 -0.17 59	89 0.38 39	97 4 21	94 8.5 58	109 1.2 41	101 44 40	95 15.3 32	93 48 25	90 -29 9	99 10.5 30	94 -3.0 27	91 -2.3 14	107 19.3 36	101 2 28	97 11 27	91 -0.05 11	96 -0.13 10	79 -0.88 10
V 240036 97418495 V 240036		V 210022 V 170017	97 59	101 62	101 44	103 24	87 31	90 42			96 10	102 0.19 64	84 0.57 43	95 2 24	101 12.5 62	101 -1.2 44	102 46 43	101 20.0 36	96 56 25	89 -27 9	99 10.6 30	88 2.3 34	91 -2.2 18	94 10.9 42	101 2 28	101 14 27	91 0.00 11	106 0.46 10	104 0.52 10
V 240037 97418503 V 240037		WO 200905 V 220001	103 58	102 60	102 41	99 27	82 30	88 41			102 10	107 -0.21 62	87 0.47 42	98 5 27	102 13.1 60	102 -1.0 41	102 47 43	100 18.8 38	104 85 26	98 -37 9	104 13.5 28	86 3.5 30	82 -0.4 21	93 10.2 39	98 0 27	103 16 26	99 0.75 11	105 0.43 10	105 0.61 10
V 240039 98105067 V 240039	2	V 210022 WO 190380	90 61	125 65	96 48	82 35	100 34	101 46	107 24	98 42	119 14	93 0.92 65	93 0.21 47	120 30 35	125 26.6 65	96 -2.6 48	112 69 49	128 40.4 47	116 132 32	109 -49 13	116 20.1 67	91 -0.8 34	100 -4.1 26	108 19.5 42	115 10 37	120 33 35	117 2.49 15	114 0.90 14	109 0.82 14
V 240044 97924278 V 240044	2	V 210022 V 210011	103 60	101 63	103 44	97 33	100 34	101 44	99 27	96 41	102 14	106 -0.19 64	88 0.40 44	100 8 33	101 12.8 63	103 -0.6 44	102 46 47	104 22.0 40	106 94 32	99 -38 19	115 19.8 38	104 -10.3 39	86 -1.3 22	113 22.6 41	94 -2 36	98 12 35	100 0.84 15	112 0.78 14	101 0.35 14
V 240046 97924294 V 240046	13	V 210022 V 210013	107 60	102 63	109 45	103 31	94 32	106 43	96 22	100 39	100 12	110 -0.51 64	86 0.49 45	95 2 31	102 13.2 63	109 1.2 45	110 67 46	102 20.3 40	99 70 30	89 -27 9	100 11.2 37	91 -0.5 38	85 -1.0 18	111 21.9 41	102 3 34	104 17 33	100 0.81 12	104 0.35 11	95 -0.01 11
V 240056 97924385 V 240056	1	V 210022 V 170013	101 59	100 53	105 45	92 28	92 33	91 41	95 20	87 37	98 10	105 -0.11 63	87 0.47 45	106 13 28	100 12.3 53	105 0.0 45	100 43 42	103 21.5 38	101 76 28	94 -33 9	102 12.4 34	99 -7.0 36	84 -0.8 21	100 14.8 41	102 2 32	100 14 31	97 0.54 11	107 0.51 10	101 0.37 10

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ID Number Name																													
V 250004 99348633 25 004	6	WO 210065 V 220001	114 59	96 63	97 42	115 26	98 28	107 41			96 8	116 -0.99 64	89 0.38 43	88 -7 26	96 9.6 63	97 -2.3 42	96 33 44	97 16.5 33	100 71 24	88 -26 6	95 8.5 27	94 -3.0 30	96 -3.3 17	107 18.9 38	88 -6 25	97 11 25	97 0.52 9	103 0.30 8	103 0.48 8
V 250007 99348666 25 007		WO 210065 V 220009	105 57	90 62	102 38	113 20	102 26	102 39			87 6	106 -0.13 62	97 0.08 38	89 -6 20	90 6.4 62	102 -0.9 38	94 27 40	88 10.0 28	91 39 17	87 -25 5	90 5.7 19	100 -7.5 32	101 -4.3 13	104 17.1 33	89 -5 19	92 6 18	85 -0.61 6	103 0.28 5	102 0.43 5
V 250008 99348674 25 008	7	WO 210065 V 220027	104 60	101 64	108 42	112 27	104 30	116 42			99 12	107 -0.25 65	88 0.42 42	89 -5 27	101 12.6 64	108 0.9 42	111 69 44	103 21.1 32	100 72 25	87 -25 10	102 12.5 28	99 -6.5 36	97 -3.6 17	114 23.5 38	92 -3 28	101 15 27	98 0.70 12	115 0.97 11	104 0.51 11
V 250009 99348682 25 009	6	WO 210065 V 220014	99 59	101 64	100 41	116 27	99 30	107 42			97 10	98 0.48 64	101 -0.09 41	86 -9 27	101 12.9 64	100 -1.4 41	107 58 44	101 19.8 33	98 65 24	84 -21 11	102 12.0 27	95 -3.6 35	88 -1.7 16	114 23.5 38	91 -4 27	98 11 26	101 0.94 11	115 1.00 10	104 0.53 10
V 250010 99348690 25 010		WO 210065 V 200302	115 54	84 58	109 37	114 17	103 20	107 36			84 5	116 -0.99 59	92 0.26 36	88 -7 17	84 2.8 58	109 1.1 37	93 26 37	85 7.6 20	88 30 12	88 -26 5	92 6.5 14	96 -4.6 19	92 -2.4 10	118 25.9 31	93 -3 14	91 5 13	83 -0.80 5	93 -0.33 5	76 -1.05 5
V 250013 99348724 25 013	6	WO 210065 V 220034	112 58	95 62	104 39	111 23	99 27	108 40			94 6	114 -0.85 63	88 0.41 39	90 -4 23	95 9.3 62	104 -0.3 39	101 44 41	95 15.4 30	95 54 21	88 -26 5	95 8.1 24	91 -0.3 33	92 -2.5 13	113 23.0 36	93 -2 24	98 11 23	93 0.16 7	103 0.28 6	90 -0.24 6
V 250014 99348732 25 014	4	WO 210065 WO 170433	98 62	93 66	121 47	113 33	99 34	110 46			101 10	102 0.18 66	87 0.45 47	88 -6 33	93 8.2 66	121 4.5 47	115 77 49	100 18.8 36	111 111 28	107 -46 8	98 10.0 31	95 -3.4 37	83 -0.6 22	119 26.9 42	98 0 31	100 13 30	101 0.95 10	106 0.44 9	100 0.28 9
V 250015 99348740 25 015	6	WO 210065 V 220017	107 59	100 63	107 41	107 24	95 28	106 41			100 6	110 -0.47 64	87 0.45 41	93 0 24	100 12.1 63	107 0.7 41	108 60 43	99 18.3 32	100 72 21	92 -31 5	99 10.5 24	84 5.3 34	95 -3.1 14	108 19.6 37	99 1 24	105 18 23	97 0.53 7	109 0.61 6	104 0.54 6
V 250021 99361016 25 021		WO 190499 V 180005	98 62	89 66	106 48	108 34	91 36	90 46	101 27	86 42	97 14	102 0.20 66	88 0.43 48	93 -1 34	89 6.0 66	106 0.3 48	95 30 49	91 11.7 44	105 91 35	94 -33 16	112 18.1 40	104 -10.3 38	77 0.5 24	102 16.0 46	88 -6 36	97 10 35	98 0.61 14	101 0.19 13	100 0.30 13
V 250024 99361024 25 024		WO 190499 V 160105	92 57	87 60	114 42	93 22	91 25	81 39	93 24	76 36	94 10	97 0.60 61	87 0.48 41	104 12 22	87 4.9 60	114 2.5 42	95 30 41	89 10.9 33	102 80 29	105 -45 16	110 16.5 35	102 -9.0 23	77 0.5 14	102 16.1 38	95 -2 34	97 11 32	92 0.11 10	95 -0.17 9	75 -1.12 8
V 250025 99361032 25 025	14	WO 190499 V 210003	99 61	90 65	104 45	86 33	95 34	80 45	104 30	78 42	104 13	102 0.14 66	89 0.39 45	113 22 33	90 6.4 65	104 -0.2 45	86 10 48	90 11.4 42	114 124 33	112 -52 23	124 24.9 38	110 -15.6 37	79 0.2 22	104 17.0 43	94 -2 37	102 15 35	99 0.78 14	111 0.72 12	101 0.36 12
V 250027 99361057 25 027	1	WO 190499 V 140014	96 63	92 67	98 51	90 32	99 36	81 47	101 28	78 43	100 10	97 0.55 67	97 0.08 50	109 18 32	92 7.3 67	98 -1.9 51	85 6 50	90 11.6 46	107 99 34	102 -41 17	112 17.8 40	109 -14.5 38	92 -2.6 24	98 13.8 46	96 -1 39	101 14 37	99 0.76 11	106 0.43 10	104 0.50 10

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high Value <80 Value >120 Breeding values with an accuracy < 5% are not printed

Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
V 250029 99361073 25 029		WO 190499 V 180001	88 61	95 64	102 48	92 29	94 29	80 44	99 24	77 40	100 10	91 1.07 65	93 0.24 46	106 14 29	95 9.1 64	102 -0.8 48	92 23 47	96 16.1 37	108 100 27	108 -48 16	120 22.3 33	108 -13.4 29	79 0.2 17	103 16.5 41	97 0 32	100 13 30	97 0.55 10	102 0.22 9	92 -0.16 9	
V 250030 99361081 25 030	2	WO 190499 V 170015	94 63	103 66	92 50	96 35	103 39	93 47	106 27	91 43	104 14	96 0.65 67	95 0.14 50	102 9 35	103 13.7 66	92 -3.8 50	93 27 50	106 23.7 46	110 108 32	103 -43 18	123 24.2 39	117 -20.8 39	87 -1.4 30	107 19.4 47	94 -2 36	98 11 35	105 1.31 14	106 0.48 13	96 0.08 13	
V 250031 99361099 25 031	1	WO 190499 V 220029	104 59	96 64	111 42	89 27	82 31	83 42	106 25	81 39	109 10	108 -0.35 64	86 0.49 43	109 17 27	96 9.6 64	111 1.6 42	99 39 44	96 16.2 40	115 126 31	110 -50 16	121 22.9 37	82 6.8 35	75 1.0 17	102 15.8 40	107 6 35	112 25 34	107 1.49 10	106 0.44 9	91 -0.23 9	
V 250034 99348559 25 034	2	WO 210065 SP 150065	111 63	94 67	110 49	117 34	106 35	118 47	90 26	111 43	93 20	114 -0.81 67	87 0.45 48	85 -10 34	94 8.5 67	110 1.3 49	107 59 50	99 18.1 37	97 60 30	84 -21 18	106 14.3 33	104 -10.5 37	100 -4.0 23	112 22.4 44	88 -6 33	96 9 32	93 0.14 21	116 1.05 19	102 0.42 19	
V 250035 99348567 25 035	3	WO 210065 WO 190380	83 60	114 65	101 46	93 32	102 31	100 44			104 12	84 1.67 65	101 -0.09 44	105 13 32	114 20.4 65	101 -1.2 46	112 69 48	115 30.9 34	105 90 24	100 -39 11	104 13.4 30	95 -3.5 30	99 -3.8 24	112 22.3 39	99 1 27	106 19 26	103 1.11 12	109 0.63 11	104 0.50 11	
V 250039 99840035 V250039		WO 200905 V 160244	110 56	93 42	90 40	105 21	80 25	80 34			87 8	112 -0.62 60	91 0.30 42	94 1 21	93 8.3 42	90 -4.3 40	85 6 34	91 12.0 32	90 35 21	97 -36 9	98 10.2 24	83 6.2 25	77 0.6 15	96 12.3 34	98 0 24	93 6 23	84 -0.75 9	94 -0.22 8	78 -0.96 8	
V 250041 99840050 V250041		WO 200905 V 190013	92 58	101 48	108 39	97 28	72 32	78 38			96 10	97 0.62 62	89 0.38 42	100 7 28	101 12.8 48	108 0.9 39	106 57 38	98 17.8 39	100 71 27	99 -38 9	109 16.0 29	78 9.9 34	65 2.9 24	94 10.8 39	105 4 29	101 14 28	93 0.13 11	107 0.50 10	98 0.20 10	
V 250043 99840068 V250043		WO 210065 V 150018	108 62	90 55	101 44	118 30	94 32	100 42			95 8	108 -0.31 66	97 0.05 47	84 -11 30	90 6.4 55	101 -1.1 44	95 31 43	91 12.4 36	104 86 30	99 -38 5	92 6.4 32	92 -1.1 32	83 -0.6 21	112 22.3 42	98 0 31	96 9 30	97 0.56 8	101 0.15 7	107 0.69 7	

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																														
HU 099112 70269121 HU099112		HU 060039 HU 020549		109 78	95 78	68 84	98 55	89 55	71 65	82 29	65 58	69 20	107 -0.28 78	102 -0.13 77	102 9	95 9.5 78	68 -10.3 84	67 -37 72	91 11.9 60	74 -21 46	53 12 7	76 -2.8 52	101 -8.3 60	87 -1.4 36	91 9.0 68	89 -5 53	73 -12 51	69 -2.20 21	85 -0.79 18	92 -0.18 17
WO 120396 76424704 WO120396	7	WO 100125 WO 100189		111 77	99 77	87 82	125 63	99 57	108 66	91 33	102 59	97 21	109 -0.38 77	103 -0.17 76	77 -19 63	99 11.5 77	87 -5.0 82	96 34 74	97 16.7 64	94 52 42	86 -24 19	105 14.1 48	103 -9.8 63	86 -1.2 41	111 21.4 67	89 -5 48	94 8 46	97 0.59 22	114 0.93 20	95 0.03 20
FRJ 130111 77481034 FRJ 130111		MAJ 070476 FRJ 050063		103 78	92 77	114 81	126 60	110 60	124 66	101 36	118 60	93 26	98 0.53 78	116 -0.68 76	73 -23 60	92 7.5 77	114 2.6 81	116 80 73	91 11.8 70	91 38 60	64 0 6	95 8.5 66	108 -13.7 66	103 -4.8 46	113 22.6 67	95 -1 39	99 13 38	96 0.45 28	91 -0.44 25	124 1.67 24
FRJ 140088 79900759 FRJ140088	1	SP 090111 FRJ 110130		126 78	84 77	77 82	138 61	113 60	116 66	75 34	105 60	70 20	124 -1.62 78	138 -1.57 76	59 -39 61	84 2.9 77	77 -7.9 82	75 -16 73	85 7.5 67	79 -6 52	73 -9 13	98 9.7 57	124 -26.5 67	103 -4.7 45	106 18.8 68	83 -9 42	71 -14 41	75 -1.56 21	79 -1.11 18	81 -0.79 18
V 140005 80610694 V 140005		FRJ 100094 SR 100111		97 73	95 73	83 78	96 24	96 49	77 56	98 30	74 51	93 6	93 0.94 74	113 -0.58 70	103 10 24	95 9.0 73	83 -6.1 78	78 -11 58	92 12.5 62	94 51 49	94 -33 6	83 1.6 55	110 -15.0 53	88 -1.7 33	97 12.9 62	97 -1 55	91 5 53	92 0.05 7	87 -0.65 6	85 -0.55 6
V 140014 80610314 V 140014	2	FRJ 100094 FRJ 060054		113 76	84 77	87 81	95 44	110 55	88 62	86 30	81 56	83 11	111 -0.55 77	102 -0.15 74	104 12 44	84 3.0 77	87 -5.2 81	69 -31 67	78 2.2 64	88 29 48	82 -19 8	83 1.5 52	109 -14.7 61	117 -7.6 38	98 13.4 65	89 -5 52	86 0 51	86 -0.49 12	94 -0.25 10	107 0.69 10
SP 150065 82236407 SP150065	3	WO 100124 SP 080098		118 78	95 78	111 81	113 58	107 57	122 65	88 47	113 61	94 40	122 -1.48 79	81 0.69 75	89 -6 58	95 9.0 78	111 1.7 81	107 59 72	102 20.7 62	97 60 56	81 -18 35	116 20.1 61	109 -14.8 64	103 -4.7 41	106 18.8 67	90 -4 60	96 9 59	93 0.19 41	120 1.30 38	103 0.47 37
V 150007 82576141 150007		FRJ 110138 MAJ 080509		101 74	83 74	79 76	117 51	81 58	68 62	88 35	63 57	74 14	101 0.27 75	98 0.01 71	86 -8 51	83 2.4 74	79 -7.3 76	67 -37 67	86 8.4 58	88 28 56	76 -13 11	60 -11.6 60	95 -3.3 63	61 3.8 44	103 16.9 66	95 -2 60	80 -6 59	83 -0.86 14	95 -0.20 13	108 0.76 12
V 150018 82576166 150018		FRJ 110138 FRJ 060178		101 75	90 72	98 71	112 49	83 51	83 59	109 30	82 53	100 10	99 0.41 76	106 -0.28 73	90 -4 49	90 6.3 72	98 -2.0 71	89 17 64	90 11.3 60	115 126 54		91 6.0 57	86 3.7 52	69 2.1 36	106 18.5 66	114 9 56	100 13 55	105 1.38 11	90 -0.45 10	114 1.09 10
V 150024 82576158 150024	2	FRJ 110138 FRJ 060054		105 73	75 68	90 73	120 53	82 54	72 59	83 32	66 54	72 14	109 -0.42 74	85 0.54 70	83 -13 53	75 -2.1 68	90 -4.1 73	69 -31 65	74 -1.0 58	82 7 54	68 -4 7	68 -7.3 56	98 -5.9 55	69 2.1 39	94 11.3 67	90 -5 56	82 -4 55	81 -1.06 14	84 -0.80 13	110 0.87 13
V 160105 95246344 16 0105				99 43	86 41	114 58							104 -0.01 42	83 0.60 47		86 3.8 41	114 2.4 58		85 7.3 12	86 22 29		86 3.2 35			105 17.8 38	97 0 37	90 4 34			
V 160117 95246336 16 0117				101 36	87 35	130 51							103 0.11 35	94 0.19 40		87 4.8 35	130 7.0 51		87 8.9 16					105 18.1 39						

Breeding Values and Accuracies: Cows

Green: >120 High
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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				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	
V 160244				128	75	73	123						125	100	80	75	73	52		74	67		77	89	103		82	68			
86933926				58	48	65	32						-1.70	-0.04	-16	-2.6	-9.1	-70		-1.3	-46		-2.2	1.5	16.6		-9	-17			
V160244													57	63	32	48	65	48		28	28		35	32	46		36	34			
V 160310				112	84	102							111	98		84	102			83			98		108						
86933918				48	47	64							-0.61	0.03		2.7	-0.9			5.7			9.8		19.7						
V160310													47	52		47	64			28			33		37						
Z 160112	Z 120313			100	102	85	117	111	109	85	101	87	100	100	86	102	85	94		105	88	79	104	130	97	104	101	93	82	106	107
84061613	Z 120099			74	73	73	42	54	59	22	52	16	0.35	-0.07	-8	13.0	-5.5	27		22.8	28	-16	13.5	-31.3	-3.4	17.3	2	7	-0.91	0.46	0.69
Z160112													76	69	42	73	73	63		55	34	6	42	61	37	63	41	39	17	15	14
FRJ 170216	FRJ 140016			117	100	88	92	103	97	93	92	93	111	112	107	100	88	86		99	93		94	113	83	113	107	104	95	66	85
85679744	FRJ 110263			73	73	76	47	52	60	29	54	18	-0.56	-0.55	15	12.4	-4.7	10		18.6	47		7.6	-17.7	-0.6	23.0	5	17	0.33	-1.86	-0.53
FRJ170216													74	71	47	73	76	65		64	49		60	60	36	60	41	39	20	17	17
FRJ 170248	VYF 120114			94	101	77	98	107	87	91	82	89	90	115	101	101	77	80		103	97	96	115	111	100	108	98	88	93	84	85
85956837	FRJ 130142			73	74	76	57	55	62	26	55	20	1.19	-0.63	8	12.9	-8.0	-6		21.6	62	-35	19.4	-15.7	-4.0	20.0	1	2	0.15	-0.80	-0.58
FRJ170248													74	69	57	74	76	69		64	43	6	47	62	40	63	30	29	22	19	19
V 170009	FRJ 140031			105	97	75	100	96	81	93	76	86	102	106	99	97	75	74		101	99	93	97	104	100	90	85	87	90	77	98
85910685	FRJ 140114			63	65	52	38	43	49	26	44	15	0.18	-0.30	6	10.4	-8.4	-18		19.5	69	-32	9.3	-10.9	-4.1	8.5	-7	1	-0.08	-1.23	0.18
170009													66	51	38	65	52	52		58	40	8	45	44	29	55	27	26	16	14	14
V 170013	WO 140688			91	98	100	86	83	72				95	90	113	98	100	91		100	97	99	96	103	72	90	101	93	88		
85910693	FRJ 080165			68	69	68	36	47	54				0.77	0.35	22	10.8	-1.4	20		18.9	61	-38	8.6	-9.8	1.5	8.7	2	6	-0.35		
170013													70	63	36	69	68	58		48	28	5	31	52	32	57	31	30	5		
V 170015	WO 120217			111	105	73	116	119	116	96	110	89	111	98	87	105	73	86		108	92	84	105	126	106	116	84	80	96	95	91
86395530	FRJ 100133			76	75	78	54	61	64	30	57	20	-0.54	0.02	-7	15.2	-9.1	9		25.4	45	-22	14.1	-27.8	-5.2	24.9	-8	-6	0.47	-0.17	-0.19
170015													76	74	54	75	78	69		64	42	15	48	65	52	67	46	44	21	19	19
WO 170433	1 WO 090427			90	103	128	95	92	103	120	103	118	97	81	102	103	128	124		112	133	132	107	88	72	122	118	113	118	101	101
85879476	WO 110225			75	74	76	56	55	62	33	56	16	0.61	0.69	9	13.8	6.4	98		28.3	191	-74	15.1	1.7	1.5	28.2	12	26	2.61	0.19	0.37
WO170433													76	73	56	74	76	69		60	49	12	55	63	40	63	55	53	17	16	15
FRJ 180063	FRJ 150045			114	100	102	117	96	113	98	107	100	124	61	85	100	102	108		101	103		103	73	102	113	100	103	100	105	107
87314480	FRJ 150010			73	74	75	57	54	62	26	55	20	-1.65	1.47	-10	12.3	-0.8	60		20.1	83		12.8	13.7	-4.4	22.8	2	16	0.86	0.40	0.68
FRJ180063													74	69	57	74	75	69		66	45		49	63	38	61	31	30	21	19	19
FRJ 180097	FRJ 130193			107	98	97	101	106	103	88	96	93	102	124	97	98	97	95		95	97		113	111	99	106	108	103	96	78	98
87314167	FRJ 150130			70	70	68	49	53	57	26	51	18	0.17	-1.01	4	10.8	-2.1	30		15.0	63		18.2	-16.1	-3.9	18.8	6	16	0.41	-1.20	0.17
FRJ180097													72	65	49	70	68	62		66	47		50	62	35	63	31	30	19	17	17
V 180001	WO 140688			107	88	91	101	100	87				109	90	97	88	91	78		87	88		99	107	90	106	92	85			
88983309	V 110135			68	60	73	33	34	50				-0.43	0.36	4	5.1	-4.0	-9		9.2	30		10.4	-13.0	-2.0	18.7	-3	-1			
V 180001													69	65	33	60	73	55		38	24		28	36	15	50	29	27			

Breeding Values and Accuracies: Cows

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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																															
V 180005		FRJ 130118	108	84	103	128	95	103	87	96	80	111	87	71	84	103	96		82	85	67	85	98	88	105	73	80	84	86	100	
87580585		HU 099121	73	73	75	52	54	61	29	55	20	-0.60	0.44	-26	3.1	-0.7	34		5.4	17	-3	2.7	-5.9	-1.6	18.0	-14	-6	-0.72	-0.72	0.31	
V 180005												74	69	52	73	75	67		60	50	5	54	61	39	63	45	43	22	19	19	
ZCW 180268		RLR 140083	106	107	72	80	110	87	92	82	91	105	100	124	107	72	75		104	96	92	91	109	108	109	104	96	86	123	102	
92275270		ZCW 100108	69	72	69	50	52	58	28	52	40	-0.12	-0.06	35	16.3	-9.3	-17		22.2	57	-30	6.1	-14.5	-5.6	20.1	4	10	-0.49	1.46	0.40	
180268												69	69	50	72	69	64		54	44	10	48	60	35	61	48	47	41	38	37	
V 190003		FXF 080283	92	103	103	94	85	84	103	82	101	88	112	104	103	103	103		100	105	99	104	105	68	97	104	99	100	106	109	
89225619	1	V 140005	71	72	72	44	55	58	29	52	12	1.29	-0.53	12	14.0	-0.4	49		19.2	90	-38	13.4	-11.2	2.3	13.2	4	12	0.86	0.43	0.79	
V 190003												72	67	44	72	72	63		62	48	7	52	60	42	63	52	51	13	12	11	
V 190004		FXF 080283	87	105	98	110	70	78	101	75	96	90	93	92	105	98	106		103	97	74	99	77	54	100	95	97	95	104	115	
89443360		HU 099121	70	71	69	49	54	58	32	53	13	1.16	0.23	-2	14.8	-1.9	55		21.2	62	-10	10.5	10.2	5.1	14.5	-1	11	0.33	0.35	1.13	
V 190004												72	65	49	71	69	63		60	53	7	59	61	39	62	59	58	14	12	12	
V 190013		FXF 080283	104	86	108	111	72	77	86	71	79	106	91	91	86	108	93		85	87	81	97	79	58	98	95	84	80	96	87	
89225668		V 151002	67	65	62	42	50	53	27	48	12	-0.15	0.29	-3	3.7	0.7	25		7.3	24	-19	9.5	8.8	4.3	13.6	-1	-2	-1.08	-0.15	-0.44	
V 190013												68	63	42	65	62	56		53	44	7	48	56	36	59	48	47	13	11	11	
WO 190326		WO 160727	73	108	119	97	100	101	104	98	103	80	87	100	108	119	122		115	111	114	98	106	97	101	101	104	96	103	84	
89274229		WO 070571	68	70	67	47	45	55	20	48	15	1.98	0.45	7	16.7	3.9	95		30.4	113	-54	10.0	-12.3	-3.4	15.2	2	17	0.48	0.27	-0.61	
WO190326												70	62	47	70	67	61		51	31	6	35	48	31	55	36	35	16	14	14	
WO 190380		WO 160516	74	130	91	77	100	92	103	89	112	74	104	128	130	91	110		130	111	111	111	93	100	106	110	113	111	106	104	
89274831	3	WO 080250	70	71	73	54	49	59	32	54	20	2.52	-0.21	39	29.5	-3.8	65		42.3	114	-51	17.2	-2.1	-4.1	18.5	7	26	1.89	0.43	0.55	
WO190380												71	66	54	71	73	66		54	41	19	54	46	44	56	47	45	22	19	19	
V 200009		WO 140037	94	111	96	92	96	95	95	90	93	95	98	107	111	96	104		117	84	71	93	97	87	107	92	94	92	106	80	
90983875		SR 100111	64	68	57	35	42	50	28	46	13	0.75	0.02	15	18.6	-2.5	52		31.8	13	-7	7.4	-5.4	-1.5	19.3	-3	7	0.07	0.46	-0.86	
V 200009												67	55	35	68	57	53		54	35	18	39	42	29	55	39	38	14	12	12	
V 200024		Z 150394	77	101	97	97	92	78	103	76	94	78	103	101	101	97	96		101	105	98	88	107	76	102	102	96	99	92	109	
90772203	4	V 150005	66	66	57	46	50	53	23	47	16	2.12	-0.19	8	12.5	-2.3	33		20.2	90	-37	4.0	-13.3	0.8	16.3	2	9	0.74	-0.34	0.83	
20024												68	58	46	66	57	56		54	37	7	41	58	36	55	39	39	17	15	15	
V 200105			109	81	98							112	90		81	98									95						
95246286			43	41	58							-0.62	0.35		1.3	-2.1									11.4						
20 0105												42	47		41	58									30						
V 200114			104	85	115							107	91		85	115			84						102						
95246302			36	35	51							-0.21	0.28		3.4	2.8			6.8						16.1						
20 0114												35	40		35	51			16						29						
V 200302			110	83	112							110	97		83	112									119						
95169355			36	35	51							-0.48	0.05		2.5	1.9									26.3						
V 200302												35	40		35	51									27						

Breeding Values and Accuracies: Cows

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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																																
Z 200071 90579392 Z200071		Z	160112	103 62	94 63	94 64	125 34	106 42	110 49			84 8	100 0.35 64	108 -0.36 55	76 -20 34	94 8.7 63	94 -3.0 64	98 37 54		92 13.1 44	87 26 17		100 11.2 37	114 -18.8 52	109 -5.9 29	92 10.1 44	101 2 21	93 7 19	77 -1.42 8	100 0.13 7	104 0.51 7	
V 210001 92287838 V210001		WO	170069 SP 180113	93 63	93 66	94 56	108 46	96 43	87 51	88 38	81 48	86 20	93 0.91 66	102 -0.12 51	93 -1 46	93 8.1 66	94 -3.1 56	88 15 56		94 14.6 47	96 59 37	97 -36 34		113 18.4 41	120 -22.9 54	70 1.9 25	106 18.7 49	82 -9 41	83 -3 40	82 -0.88 20	110 0.69 19	98 0.18 18
V 210003 92287846 V210003	1	WO	170069 V 140014	97 68	91 70	103 67	85 48	104 49	85 56	95 39	80 53	95 18	98 0.47 70	95 0.13 61	115 24 48	91 6.8 70	103 -0.6 67	85 8 62		86 8.5 56	105 91 43	107 -46 32		111 17.3 47	111 -16.2 59	91 -2.3 33	109 20.3 56	89 -5 47	92 6 45	90 -0.18 19	104 0.36 18	103 0.49 17
V 210004 92287853 V210004		WO	170069 V 160244	108 64	83 64	85 58	120 43	93 43	85 51	81 37	78 48	80 18	111 -0.58 66	86 0.49 55	83 -13 43	83 2.1 64	85 -5.6 58	73 -22 55		81 4.2 46	91 41 38	100 -39 32		105 13.8 43	107 -13.1 54	69 2.1 24	110 21.3 50	82 -9 43	79 -7 41	74 -1.66 18	92 -0.35 17	72 -1.31 16
V 210005 92651819 V210005	1	WO	170069 V 180010	86 65	90 67	118 58	99 49	101 48	93 53	91 40	87 50	89 21	89 1.25 68	93 0.21 55	98 5 49	90 6.0 67	118 3.7 58	103 49 58		88 10.1 56	102 78 44	104 -43 32		114 19.2 48	118 -21.8 59	80 0.0 30	109 20.4 54	78 -11 45	83 -3 43	86 -0.57 22	102 0.20 20	101 0.34 19
V 210006 92280262 V210006		WO	160019 V 160004	106 65	98 67	106 60	95 41	106 43	105 51	86 20	97 45	90 8	108 -0.30 67	92 0.27 56	102 10 41	98 11.0 67	106 0.4 60	101 43 56		96 15.8 53	88 30 34			88 4.2 40	113 -17.9 57	96 -3.3 21	106 18.6 50	94 -2 38	94 8 37	87 -0.38 9	96 -0.12 8	91 -0.21 7
V 210008 92287861 V210008		WO	170069 V 180001	98 67	93 66	102 60	108 45	100 45	96 53	93 36	91 50	95 18	101 0.21 69	88 0.43 59	93 -1 45	93 8.1 66	102 -1.0 60	95 31 57		92 13.2 50	105 92 37	113 -53 32		119 21.8 42	120 -23.3 55	71 1.7 28	113 22.7 52	91 -4 42	92 5 40	87 -0.40 18	101 0.14 17	92 -0.17 16
V 210011 92287887 V210011	4	WO	170069 V 170015	96 67	98 68	97 61	97 50	101 50	91 55	97 39	87 52	94 20	98 0.49 69	93 0.23 58	101 8 50	98 11.0 68	97 -2.4 61	93 26 60		100 19.0 54	104 85 41	104 -43 33		119 21.7 46	111 -16.3 60	77 0.6 35	117 25.2 55	83 -9 45	85 -1 44	91 -0.04 21	104 0.35 19	94 -0.04 19
V 210013 92280296 V210013		WO	160019 FRJ 110289	112 68	102 69	103 64	105 42	89 44	101 53	94 22	96 47	96 10	115 -0.94 70	84 0.58 62	94 1 42	102 13.1 69	103 -0.6 64	105 54 58		98 17.2 53	95 56 36			93 7.2 42	84 4.7 56	76 0.8 24	114 23.2 52	104 4 38	102 15 37	95 0.38 10	90 -0.45 9	83 -0.65 8
V 210018 92280312 V210018		WO	160019 FRJ 120230	128 70	103 71	84 68	100 47	89 48	97 56	94 27	92 50	92 11	129 -2.07 72	86 0.49 63	99 6 47	103 13.9 71	84 -5.9 68	89 16 62		101 19.8 58	91 39 46			98 10.0 51	77 10.7 59	87 -1.4 29	110 21.2 57	82 -9 50	88 2 49	98 0.70 12	106 0.45 10	105 0.57 10
V 210025 92280361 V210025	1	WO	160019 V 160012	97 67	106 69	96 62	117 49	89 47	101 55	104 26	98 49	104 11	102 0.17 69	85 0.55 58	85 -10 49	106 15.6 69	96 -2.4 62	109 63 60		105 22.7 56	108 102 44	98 -37 5		89 4.6 49	89 1.4 59	78 0.4 27	108 19.9 55	107 5 48	107 20 47	106 1.46 12	99 0.04 10	108 0.77 10
V 210030 92307735 V210030		WO	160019 V 151010	105 64	104 66	99 64	106 40	97 42	104 51	94 22	98 45	100 8	110 -0.49 66	81 0.68 58	94 0 40	104 14.3 66	99 -1.7 64	104 52 57		100 19.2 52	98 64 37			100 11.2 43	79 9.1 54	99 -3.8 22	113 23.0 49	105 4 42	105 18 41	98 0.68 8	95 -0.17 7	82 -0.74 7

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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
V 210036		WO 160019		103	101	104	116	98	111	97	105	98	106	91	86	101	104	110	97	97	97	97	94	96	91	110	90	98	99	100	104
92280411		V 180005		67	69	62	46	46	54	25	48	13	-0.14	0.31	-9	12.7	-0.2	66	16.7	61	61	61	7.5	-4.1	-2.2	21.2	-5	11	0.79	0.13	0.54
V210036													69	59	46	69	62	59	56	42	42	47	60	26	53	44	43	14	12	12	
V 210039		WO 160019		112	109	83	104	90	96	95	91	93	113	91	96	109	83	95	104	92	92	92	89	82	90	104	98	95	92	100	100
92280445		HU 099112		70	72	68	48	47	57	24	50	13	-0.78	0.28	2	17.1	-6.2	31	22.1	43	43	47	6.4	-2.1	17.5	0	8	0.10	0.11	0.31	
V210039													72	63	48	72	68	63	58	41	41	47	59	28	55	47	45	14	12	11	
V 220001		WO 160019		112	101	90	106	91	96	100	92	99	114	90	94	101	90	93	100	102	89	95	91	95	93	90	98	101	95	105	
93366797		FRJ 140114		65	64	65	39	42	51	25	46	14	-0.82	0.33	0	12.5	-4.1	26	18.9	81	-27	8.3	-0.4	-3.1	10.7	-5	12	0.90	-0.20	0.56	
V 220001													66	63	39	64	65	56	52	42	5	47	47	27	52	43	41	14	13	12	
V 220007		WO 180001		102	82	104	115	86	84				105	91	87	82	104	87	78	78		87	90	87	93	86	78				
93727535		V 180001		54	56	50	17	29	39				-0.07	0.31	-8	1.5	-0.4	10	2.3	-8		3.7	0.7	-1.5	10.6	-7	-7				
V 22 0007													57	43	17	56	50	41	32	12		14	46	8	34	14	14				
V 220009		V 140014		101	87	99	102	97	86			81	99	103	96	87	99	85	81	85		85	102	106	88	92	87	77	94	103	
93727550		V 140014		56	59	53	22	36	43			6	0.39	-0.17	3	4.8	-1.8	6	4.6	16		2.5	-9.1	-5.4	7.5	-4	1	-1.36	-0.25	0.47	
V 22 0009													59	46	22	59	53	45	42	24		26	51	19	39	26	25	6	5	5	
V 220014		WO 160019		109	101	90	115	92	100	99	96	96	106	103	87	101	90	97	98	95	75	104	94	79	110	91	94	105	118	105	
93727576		LV 150016		67	69	62	42	44	53	32	49	18	-0.20	-0.17	-7	12.5	-4.1	34	17.5	54	-12	13.2	-2.5	0.2	21.0	-4	7	1.37	1.16	0.58	
V 22 0014													69	58	42	69	62	58	54	41	19	47	57	24	52	46	45	20	17	17	
V 220017		WO 160019		96	103	116	97	84	95	91	89	99	101	88	100	103	116	115	99	96		96	72	92	97	103	105	94	104	104	
93792604		WO 140733		66	69	62	34	42	51	20	45	8	0.29	0.43	7	14.1	3.1	79	18.6	57		8.7	14.3	-2.6	12.8	3	18	0.25	0.34	0.53	
V220017													69	57	34	69	62	55	52	34		40	55	20	51	39	37	8	7	7	
V 220020	1	BOS 166109		97	98	78	104	117	97	95	91	91	94	111	96	98	78	79	95	96	85	79	124	115	104	82	89	93	107	115	
93792638		V 140021		64	68	62	35	48	52	24	46	23	0.87	-0.49	3	10.8	-7.6	-8	15.2	58	-22	-1.0	-26.0	-7.0	17.4	-9	3	0.15	0.52	1.18	
V220020													67	55	35	68	62	55	53	38	6	41	58	32	53	42	40	24	22	21	
V 220027		WO 160019		109	107	107	100	103	114	97	109	105	114	80	98	107	107	112	108	103	87	109	99	99	110	98	106	104	118	106	
94009511		SP 150065		69	71	64	43	47	55	33	51	21	-0.84	0.72	5	16.1	0.4	71	25.4	83	-25	16.2	-7.0	-3.8	20.8	0	19	1.28	1.15	0.63	
V220027													71	60	43	71	64	59	52	44	18	50	60	27	54	49	47	22	20	20	
V 220029		WO 160019		115	92	120	99	76	91	92	86	95	117	88	98	92	120	107	90	97		96	58	80	104	105	101	95	93	79	
94009537		V 170110		62	64	58	30	39	47	22	42	8	-1.06	0.42	5	7.3	4.2	59	11.0	60		8.8	25.7	0.0	17.2	4	15	0.38	-0.30	-0.91	
V220029													64	54	30	64	58	51	48	37		43	54	17	46	42	41	8	7	7	
V 220034		WO 160019		111	97	105	100	91	97	88	91	91	114	87	97	97	105	100	94	91		91	85	87	108	98	96	91	93	78	
94258829		V 190102		62	63	57	30	39	47	20	42	8	-0.83	0.45	4	10.1	-0.1	41	14.5	38		6.3	4.6	-1.5	19.7	0	9	-0.04	-0.27	-0.93	
V 220034													64	53	30	63	57	50	48	34		39	54	17	45	38	37	8	7	7	
V 220036	1	WO 190624		82	100	116	109	111	112			94	86	92	92	100	116	116	109	102	99	92	120	102	106	88	94	93	106	94	
94537065		WO 190326		64	68	55	32	39	48			10	1.46	0.25	-2	12.3	3.0	80	25.7	79	-37	6.7	-23.3	-4.5	18.6	-6	7	0.20	0.43	-0.05	
V220036													68	52	32	68	55	52	44	21	7	23	51	22	45	23	23	11	10	10	

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Index EBV Acc	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																															
JAN 230017 95019022 JAN 230017		JAN 177021		108 55	86 40	108 48	120 18	77 26	89 35			79 10	108 -0.34 58	96 0.12 44	81 -14 18	86 4.3 40	108 0.7 48	98 38 35	85 7.3 23	84 13 15		91 6.1 16	86 3.4 26	85 -1.0 15	79 1.8 37	96 -1 16	91 4 16	74 -1.73 11	98 -0.03 10	92 -0.14 9	
V 230004 95817631 V230004		WO 160019 V 160310		114 60	101 63	100 53	99 30	95 34	101 45	92 20	95 40	93 8	115 -0.95 63	90 0.36 50	99 6 30	101 12.5 63	100 -1.5 53	99 40 49	98 17.6 51	95 55 34		100 10.8 42	87 2.8 38	89 -1.8 17	111 21.8 46	103 3 38	100 14 37	93 0.17 8	94 -0.25 7	79 -0.88 7	
V 230006 95817615 V230006		WO 160019 V 200114		104 59	102 61	109 49	97 30	93 33	101 44	92 20	94 39	95 8	107 -0.24 62	89 0.38 47	100 7 30	102 13.4 61	109 1.0 49	108 61 47	100 19.1 50	95 55 34		96 8.6 39	86 3.7 38	90 -2.0 17	109 20.1 45	103 3 38	102 15 37	95 0.36 8	94 -0.22 7	80 -0.84 7	
V 230007 95817623 V230007		WO 160019 V 170015		109 66	109 68	88 57	105 41	106 45	111 52	100 26	106 47	101 12	111 -0.55 69	92 0.26 57	95 1 41	109 17.5 68	88 -4.7 57	101 44 55	108 25.2 58	99 69 40	87 -24 8		102 12.3 46	103 -9.8 50	97 -3.6 31	115 23.9 54	93 -3 45	96 9 43	104 1.23 13	105 0.39 12	99 0.26 12
V 230008 95817177 V230008		V8 160085 V 160117		93 60	104 62	91 52	88 38	102 38	88 47	96 24	83 42	100 8	92 0.97 62	104 -0.23 51	112 20 38	104 14.4 62	91 -4.0 52	90 19 51	100 19.4 52	103 83 41		112 17.9 43	92 -1.4 40	102 -4.4 24	111 21.7 49	108 6 44	103 16 43	96 0.47 9	99 0.04 8	89 -0.33 8	
V 230018 95817144 V230018		WO 190499 V 200106		92 55	90 59	111 40	96 22	91 25	84 38	93 22	79 35	91 10	97 0.62 60	88 0.44 39	101 9 22	90 6.5 59	111 1.8 40	97 35 40	92 13.1 43	100 71 25	102 -41 16		111 17.4 30	101 -8.3 23	78 0.3 14	102 16.3 39	97 0 28	96 10 27	89 -0.20 10	95 -0.21 9	74 -1.17 8
V 230020 95817250 V230020	1	WO 190499 WO 200633		86 59	98 65	112 40	84 32	90 30	80 43	98 23	76 39	101 10	91 1.08 65	87 0.45 40	116 25 32	98 11.0 65	112 1.8 40	99 40 46	99 18.2 48	107 98 26	105 -44 17		118 21.2 32	100 -7.4 27	78 0.3 20	101 15.6 42	97 0 30	103 16 29	97 0.54 11	110 0.68 10	93 -0.11 9
V 230030 95817482 V230030		BOS 177663 ZCW 180268		100 65	114 68	80 53	84 41	99 42	88 50	102 28	85 46	100 36	98 0.47 68	104 -0.23 54	119 28 41	114 20.1 68	80 -7.1 53	89 16 54	113 29.1 56	107 99 48	103 -42 5		96 8.8 51	90 0.3 48	98 -3.8 24	109 20.6 53	87 -6 51	99 13 50	115 2.33 38	64 -1.98 35	84 -0.59 34
V 230036 95817375 V230036	3	FRJ 180483 FRJ 180063		101 62	120 66	90 47	88 30	101 34	104 45	112 24	101 41	117 26	109 -0.39 66	74 0.96 46	112 20 30	120 23.6 66	90 -4.2 47	106 56 48	115 30.8 54	118 136 41		106 14.4 45	86 3.5 36	103 -4.8 21	112 22.2 46	115 10 25	118 31 24	120 2.81 27	90 -0.48 24	77 -1.00 23	
V 230037 95817383 V230037		FRJ 180483 FRJ 180097		99 60	117 65	89 45	84 27	106 34	102 44	106 24	99 40	112 25	97 0.56 65	106 -0.29 44	117 27 27	117 22.2 65	89 -4.5 45	100 42 46	111 27.7 54	113 121 42		109 16.4 46	106 -11.8 35	102 -4.4 20	109 20.3 46	118 12 25	116 29 24	117 2.49 26	76 -1.30 24	72 -1.28 23	
V 230045 95817417 V230045		FRJ 180483 FRJ 170248		90 62	119 66	79 48	84 31	107 34	93 45	106 24	91 41	109 26	90 1.15 66	102 -0.12 46	118 28 31	119 23.2 66	79 -7.3 48	94 28 48	115 30.9 54	112 115 41		109 16.3 45	105 -11.7 35	102 -4.5 22	110 21.1 46	111 8 24	107 20 23	114 2.22 27	79 -1.11 24	65 -1.69 23	
V 230049 96048319 V 230049	1	WO 190499 V 150018		95 62	90 63	104 47	99 34	87 35	80 45	109 28	79 42	103 10	97 0.62 66	97 0.08 49	99 5 34	90 6.5 63	104 -0.2 47	92 23 48	92 13.2 44	116 130 37	113 -53 16		112 17.8 42	98 -6.2 34	67 2.5 23	106 18.7 48	103 3 40	102 15 39	104 1.25 11	103 0.28 10	105 0.59 10

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ID Number Name																															
V 230052		WO 190499		91	96	115	88	84	80	105	78	107	95	91	111	96	115	101		97	116	118	124	88	78	99	115	113	104	96	79
96229026		V 170110		56	58	42	22	26	39	24	36	10	0.74	0.32	19	9.6	2.8	45		16.6	129	-59	24.8	2.0	0.4	14.1	10	26	1.23	-0.11	-0.90
V 230052													60	41	22	58	42	41		34	28	16	35	25	14	38	34	32	10	9	8
V 240003		BOS 166103		96	104	88	93	103	91	98	87	99	100	89	106	104	88	90		105	105	102	104	113	95	103	87	97	101	121	107
97446108		V 180001		63	65	54	36	39	48	26	44	28	0.36	0.39	14	14.2	-4.7	18		22.7	90	-42	13.3	-18.0	-3.0	16.6	-6	11	0.94	1.31	0.67
V 240003													67	51	36	65	54	52		52	41	8	45	40	27	49	45	44	29	26	26
V 240004		FRJ 180483		96	118	94	82	104	100	105	97	111	99	90	120	118	94	103		112	110		98	107	100	105	112	113	113	85	69
97446116		V 210006		59	63	42	24	30	41	22	37	24	0.43	0.33	30	22.6	-3.2	49		28.0	107		9.8	-12.6	-4.2	17.6	8	26	2.15	-0.75	-1.46
V 240004													64	41	24	63	42	43		52	39		43	33	15	42	27	26	25	22	22
V 240006		FRJ 180483		90	116	92	86	101	95	107	92	112	95	89	114	116	92	102		111	116	119	112	111	87	107	108	110	111	87	69
97446090		V 210008		59	63	42	25	31	42	30	40	24	0.76	0.40	24	21.3	-3.7	47		27.5	131	-60	17.7	-15.7	-1.5	19.4	6	22	1.97	-0.64	-1.48
V 240006													64	42	25	63	42	43		52	39	16	44	33	17	43	28	27	26	23	23
V 240007		BOS 166103		88	104	104	109	108	110	105	106	101	88	105	92	104	104	110		105	103	84	100	115	100	106	85	101	105	122	126
97446132		FRJ 130111		66	69	57	44	46	53	30	48	30	1.34	-0.24	-2	14.4	-0.2	66		22.9	83	-22	10.9	-19.4	-4.1	18.3	-7	14	1.34	1.39	1.75
V 240007													69	55	44	69	57	57		60	50	8	54	49	34	54	47	46	32	29	28
V 240008		FRJ 180483		106	116	77	92	111	105	105	101	104	108	91	107	116	77	93		113	105	101	101	116	103	109	99	98	111	83	66
97446223		V 170015		62	66	49	29	38	46	26	42	26	-0.35	0.32	16	21.2	-7.8	26		29.3	90	-40	11.4	-19.6	-4.7	20.4	1	11	1.92	-0.86	-1.61
V 240008													66	48	29	66	49	48		54	41	8	45	37	28	48	30	29	27	24	23
V 240009		WO 190499		96	91	105	109	91	91	100	87	97	100	88	92	91	105	97		92	105	94	112	103	78	102	87	96	97	101	100
97418370		V 180005		63	66	48	34	36	46	27	42	14	0.34	0.41	-2	7.2	0.1	35		12.7	89	-32	17.8	-9.5	0.3	15.9	-6	10	0.54	0.19	0.28
V 240009													67	48	34	66	48	49		51	35	16	40	38	24	47	36	35	14	13	13
V 240010		WO 160019		112	97	107	98	92	98	91	92	95	115	86	100	97	107	102		94	94		95	86	90	105	102	100	94	94	80
97446140		V 200114		59	61	49	30	33	44	20	39	8	-0.89	0.49	7	10.6	0.7	46		14.6	51		8.1	3.5	-2.0	17.8	3	14	0.27	-0.23	-0.86
V 240010													62	47	30	61	49	47		50	34		39	38	17	45	38	37	8	7	7
V 240013		WO 160019		100	103	95	98	93	92	98	88	99	100	101	100	103	95	98		100	96		88	96	88	102	95	97	98	100	95
97446165		V 140005		65	68	57	33	41	50	25	45	8	0.36	-0.08	7	14.0	-2.7	38		18.7	59		4.4	-4.4	-1.6	16.1	-1	11	0.69	0.11	0.00
V 240013													68	55	33	68	57	53		57	42		48	46	24	52	47	46	9	8	8
V 240014		WO 160019		102	110	101	93	88	95	105	92	109	102	98	105	110	101	107		105	108	97	103	92	79	102	106	108	108	110	109
97446173		V 190003		65	67	55	38	42	50	25	45	10	0.13	0.04	13	17.6	-1.0	59		23.2	100	-35	13.1	-1.0	0.1	16.1	5	21	1.62	0.71	0.79
V 240014													68	54	38	67	55	53		57	42	5	47	48	27	52	47	45	11	9	9
V 240016		BOS 166103		85	112	82	90	107	90	103	87	104	85	103	110	112	82	93		114	110	104	112	115	100	104	91	100	108	120	108
97446181		FRJ 170248		65	68	55	44	44	51	28	46	30	1.58	-0.19	18	19.1	-6.4	25		29.8	108	-43	18.1	-18.9	-4.1	17.2	-4	13	1.60	1.26	0.73
V 240016													69	52	44	68	55	56		58	45	8	49	47	32	53	45	44	31	28	27
V 240021		WO 190499		97	91	118	91	91	87	98	83	98	100	90	107	91	118	100		92	106	109	116	99	80	102	104	103	95	96	77
97418412		V 160117		55	59	40	22	26	38	22	35	10	0.33	0.35	15	6.8	3.7	43		12.9	94	-48	20.5	-6.3	-0.1	16.1	4	17	0.39	-0.14	-1.03
V 240021													60	39	22	59	40	40		44	25	16	30	23	14	40	28	27	10	9	8

Breeding Values and Accuracies: Cows

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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
V 240022 97446215 V 240022		WO 160019 V 150113		100 61	98 63	104 53	96 30	91 34	90 45	88 24	83 41	95 8	107 -0.25 64	77 0.84 50	101 8 30	98 10.7 63	104 -0.2 53	99 39 49	94 14.5 52	95 53 39	90 5.6 45	86 3.9 38	90 -2.1 17	103 16.6 48	104 4 45	102 15 43	96 0.42 8	95 -0.18 7	80 -0.85 7	
V 240023 97446231 V 240023		WO 160019 V 150024		107 65	92 66	99 55	113 40	86 43	91 50	90 26	86 45	88 10	111 -0.57 68	85 0.53 55	90 -5 40	92 7.6 66	99 -1.8 55	93 26 54	90 11.2 56	90 36 43	80 -0.3 48	90 0.1 47	78 0.3 27	101 15.4 54	91 -4 48	92 6 46	92 0.11 11	99 0.03 10	107 0.70 9	
V 240024 97446249 V 240024	4	BOS 166103 WO 120396		95 66	108 69	89 57	105 44	103 45	101 52	100 30	97 48	104 30	96 0.68 69	97 0.06 54	94 1 44	108 16.7 69	89 -4.4 57	100 43 57	109 25.9 58	105 90 45	95 -34 12	105 13.8 49	112 -17.2 48	92 -2.4 33	105 17.7 54	82 -9 49	99 12 48	106 1.49 31	134 2.09 28	111 0.95 28
V 240028 97446272 V 240028	1	BOS 166103 HU 099112		94 66	104 69	82 58	97 42	98 44	85 52	92 28	80 47	84 30	96 0.70 69	96 0.09 55	102 9 42	104 14.1 69	82 -6.3 58	87 11 56	105 22.9 57	90 35 46	73 -10 8	85 2.7 50	114 -18.3 47	90 -2.2 32	95 12.0 54	76 -12 50	82 -4 49	87 -0.44 31	118 1.16 28	107 0.71 27
V 240032 97418453 V 240032	4	WO 200905 V 210003		86 57	107 61	105 42	87 31	88 33	84 42	97 24	80 38	105 12	90 1.16 62	92 0.26 41	113 22 31	107 16.2 61	105 0.0 42	104 52 45	102 20.7 48	110 107 26	112 -53 19	116 20.4 28	93 -1.8 35	82 -0.5 22	99 14.2 42	103 3 28	106 19 28	98 0.68 13	111 0.77 12	107 0.69 12
V 240033 97418461 V 240033		WO 200905 V 200106		89 52	103 55	110 36	93 19	82 23	84 35			97 8	94 0.82 57	87 0.46 34	104 12 19	103 14.0 55	110 1.3 36	108 60 37	100 18.8 40	99 67 15	106 -45 9	106 14.5 16	83 5.6 19	82 -0.4 15	95 11.4 36	109 7 16	104 17 16	92 0.06 9	96 -0.12 8	81 -0.76 8
V 240034 97418479 V 240034	4	WO 200905 V 210005		84 57	104 60	113 39	93 31	87 32	87 41	94 23	83 37	102 14	88 1.29 62	90 0.35 39	104 12 31	104 14.4 60	113 2.1 39	111 68 43	101 19.8 48	107 98 26	110 -50 18	117 21.0 29	97 -5.0 35	76 0.7 21	99 14.2 41	97 -1 28	100 14 27	96 0.41 14	110 0.68 13	105 0.60 12
V 240038 98262330 V 240038	1	WO 200905 V 210025		91 57	111 61	102 40	102 31	82 32	92 42			107 10	97 0.62 62	85 0.54 40	96 3 31	111 18.7 61	102 -0.9 40	114 75 44	109 25.7 48	108 102 27	105 -44 9	103 12.6 29	83 6.0 35	75 1.0 20	101 15.3 41	109 6 29	110 23 28	104 1.22 11	108 0.57 10	108 0.76 9
V 240040 97418511 V 240040		WO 200905 V 140014		99 60	106 63	93 48	89 29	92 35	86 44	95 20	82 39	103 10	101 0.26 64	93 0.21 46	110 19 29	106 15.3 63	93 -3.4 48	94 28 47	99 18.5 50	104 88 28	104 -44 10	105 14.0 30	91 -0.2 36	96 -3.3 24	96 12.2 45	106 5 30	107 20 30	100 0.82 11	107 0.50 10	110 0.86 9
V 240041 97418529 V 240042	3	WO 200905 SP 150065		99 61	107 64	109 48	97 35	91 36	100 46	94 26	95 42	106 21	104 0.03 65	84 0.56 46	101 8 35	107 16.4 64	109 1.1 48	113 73 49	107 24.8 49	106 96 32	101 -40 19	119 22.2 34	92 -0.9 37	89 -1.8 25	100 14.8 46	105 4 34	109 22 33	101 0.95 22	120 1.25 20	107 0.70 20
V 240045 97924286 V 240045	13	V 210022 V 210030		99 60	109 63	105 45	100 30	99 32	108 43	98 22	102 39	105 12	103 0.06 64	86 0.49 44	97 4 30	109 17.3 63	105 0.0 45	114 74 46	108 25.4 48	103 82 31	93 -32 9	106 14.3 37	86 3.4 37	98 -3.7 18	112 22.5 41	105 4 35	108 21 34	104 1.20 12	107 0.52 11	95 0.00 10
V 240047 97924302 V 240047	13	V 210022 V 210039		107 61	108 64	97 46	104 32	96 34	106 45	95 22	100 40	97 12	110 -0.49 65	89 0.37 45	95 1 32	108 16.9 64	97 -2.2 46	107 59 47	108 25.2 50	96 59 32	80 -17 9	97 9.4 38	89 0.8 39	93 -2.6 19	108 19.9 44	98 0 36	99 12 35	97 0.55 13	109 0.61 12	103 0.44 11

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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																													
V 240048 97924310 V 240048		V 210022 V 150007	105 61	94 65	95 49	114 33	91 38	94 46	90 25	88 42	86 12	107 -0.22 65	91 0.29 48	88 -6 33	94 8.4 65	95 -2.8 49	92 24 49	98 17.4 49	92 44 37	78 -16 10	81 0.3 42	96 -4.5 40	77 0.5 26	108 19.8 47	94 -2 41	89 3 40	90 -0.13 13	106 0.43 12	106 0.62 12
V 240049 97924328 V 240049	13	V 210022 V 210018	113 61	99 64	105 46	115 32	95 34	111 45	87 23	103 41	85 12	115 -0.92 65	88 0.41 45	87 -7 32	99 11.3 64	105 -0.1 46	107 58 47	102 20.5 50	85 18 34	66 -2 9	93 6.9 40	91 -0.4 39	87 -1.6 20	111 21.5 44	78 -12 38	83 -3 36	89 -0.18 12	109 0.65 11	100 0.31 11
V 240052 97924351 V 240052	2	V 210022 V 200024	93 60	103 52	104 42	98 32	97 35	96 41	101 22	92 37	101 14	95 0.74 64	94 0.17 44	99 6 32	103 13.6 52	104 -0.4 42	105 53 42	105 22.7 40	105 90 31	94 -32 10	98 10.1 36	102 -8.7 38	86 -1.2 23	107 19.4 44	102 3 34	102 15 33	102 1.08 14	105 0.41 13	108 0.75 12
V 240054 97924369 V 240054		V 210022 FRJ 180097	106 60	103 53	105 45	100 34	104 36	109 42	94 23	103 38	100 14	103 0.11 64	106 -0.31 46	97 4 34	103 13.7 53	105 0.0 45	107 58 44	103 21.3 44	101 77 34	90 -28 9	111 17.2 39	103 -10.1 40	97 -3.5 22	109 20.4 46	105 4 32	105 18 31	101 0.92 15	98 -0.02 13	102 0.42 13
V 240055 97924377 V 240055		V 210022 V 160244	113 57	92 47	93 44	114 23	94 27	97 37	82 20	89 34	84 10	113 -0.73 61	95 0.16 45	89 -6 23	92 7.3 47	93 -3.4 44	88 13 38	93 13.5 34	86 22 28	83 -21 9	93 7.0 35	92 -1.3 30	89 -1.8 14	106 18.7 37	92 -3 33	88 2 32	84 -0.71 11	95 -0.21 10	76 -1.05 10
V 240057 97924393 V 240057	1	V 210022 ZCW 180268	108 59	106 54	91 46	89 33	105 34	99 42	96 23	94 38	99 22	109 -0.45 63	92 0.25 47	111 20 33	106 15.3 54	91 -3.9 46	92 24 44	106 23.5 40	101 74 33	91 -29 10	100 11.1 38	102 -9.3 39	102 -4.4 22	109 20.5 42	103 3 37	102 15 36	96 0.47 23	121 1.31 22	104 0.53 21
V 240058 97924401 V 240058		V 210022 V 150018	106 61	97 54	104 47	105 33	91 34	97 43	104 24	94 39	104 12	107 -0.24 65	95 0.15 49	94 0 33	97 10.2 54	104 -0.3 47	101 44 45	98 17.8 42	110 108 37	103 -42 9	100 11.1 41	91 -0.2 36	82 -0.5 23	108 19.6 44	108 6 39	104 17 38	106 1.40 12	104 0.36 11	110 0.88 11
V 250001 99348609 25 001	1	WO 210065 V 200020	114 59	86 63	105 42	130 29	104 31	116 42			81 10	115 -0.92 64	92 0.27 41	68 -29 29	86 3.9 63	105 0.0 42	103 48 45	86 8.4 34	85 18 23	76 -13 7	94 7.9 26	106 -12.4 34	92 -2.4 19	112 22.3 39	75 -13 21	81 -5 21	84 -0.76 10	106 0.45 9	96 0.05 8
V 250002 99348617 25 002	6	WO 210065 V 220025	112 58	89 62	102 40	121 23	101 27	109 40			81 6	115 -0.88 63	88 0.43 40	81 -15 23	89 5.8 62	102 -0.9 40	96 34 42	89 10.5 30	83 12 21	74 -11 5	85 2.6 24	103 -9.6 33	92 -2.6 13	110 20.7 36	81 -10 24	84 -2 23	82 -0.93 7	101 0.14 6	86 -0.51 6
V 250003 99348625 25 003	1	WO 210065 Z 160112	115 61	85 66	99 46	128 27	108 33	114 44			74 10	116 -0.96 66	92 0.25 45	72 -24 27	85 3.5 66	99 -1.7 46	93 26 46	89 10.7 34	79 -5 21	66 -2 6	88 4.6 25	118 -21.9 36	93 -2.7 21	111 21.4 42	78 -11 25	79 -7 24	74 -1.74 10	106 0.46 9	98 0.21 9
V 250005 99348641 25 005		WO 210065 V 220020	104 59	96 63	91 41	117 24	111 30	109 41			89 12	103 0.11 64	101 -0.07 40	86 -9 24	96 10.0 63	91 -4.0 41	92 24 43	96 16.0 33	94 50 23	83 -20 6	85 2.6 25	111 -15.9 35	105 -5.2 18	111 21.6 38	81 -10 25	90 4 24	90 -0.13 13	109 0.63 12	107 0.72 12
V 250006 99348658 25 006	4	WO 210065 V 220036	97 58	94 63	112 39	118 24	108 28	115 40			89 8	100 0.31 64	91 0.30 39	83 -12 24	94 8.6 63	112 1.8 39	110 66 42	100 18.7 30	95 53 16	88 -26 6	90 5.5 18	110 -15.0 32	99 -3.8 15	112 22.1 36	82 -9 18	90 4 18	89 -0.26 8	108 0.56 7	96 0.07 7

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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																														
V 250011 99348708 25 011		WO 210065 V 200105	107 55	88 59	102 40	118 17	97 20	101 36			78 5	108 -0.36 60	91 0.29 38	84 -11 17	88 5.4 59	102 -0.9 40	94 29 39	89 10.7 20	83 9 12	81 -19 5	87 3.7 14	96 -4.5 19	92 -2.5 10	107 19.1 32	86 -7 14	84 -2 13	78 -1.29 5	92 -0.39 5	74 -1.17 5	
V 250012 99348716 25 012	6	WO 210065 V 210030	112 59	92 63	104 42	120 27	101 28	112 41			88 6	116 -0.99 64	84 0.56 41	81 -14 27	92 7.7 63	104 -0.4 42	102 46 44	92 13.2 32	89 33 22	81 -18 5	91 6.0 26	90 0.1 33	96 -3.2 15	116 24.5 36	86 -7 25	91 5 24	88 -0.36 7	102 0.22 6	88 -0.36 6	
V 250016 99348757 25 016		WO 210065 V 220007	102 56	89 61	105 37	119 19	96 24	101 38			80 5	104 -0.04 62	92 0.26 37	82 -13 19	89 5.6 61	105 0.1 37	98 38 39	88 9.9 26	85 18 14	83 -20 5	89 5.1 16	93 -2.4 30	92 -2.4 10	106 18.6 32	83 -8 16	85 -1 15	78 -1.30 5	100 0.10 5	94 -0.04 5	
V 250017 99348765 25 017		WO 210065 JAN 230017	110 57	91 61	105 36	121 19	92 23	104 37			85 8	111 -0.60 63	92 0.25 37	80 -15 19	91 6.8 61	105 -0.1 36	101 45 39	91 12.2 22	89 33 14	84 -22 5	93 6.9 16	91 -0.6 23	91 -2.3 12	99 14.3 33	90 -5 16	92 6 16	82 -0.91 8	105 0.37 7	96 0.10 7	
V 250019 99361115 25 019		WO 190499 FRJ 140088	117 64	86 68	94 51	121 39	100 38	103 49	90 28	97 45	85 14	111 -0.61 68	112 -0.53 50	81 -14 39	86 4.1 68	94 -3.2 51	85 7 53	89 10.5 46	95 56 36	90 -28 17	113 18.4 42	118 -21.3 41	84 -0.9 27	103 16.5 47	85 -8 36	85 -1 34	87 -0.44 14	97 -0.08 13	88 -0.41 12	
V 250020 99361107 25 020	1	WO 190499 V 140021	96 63	90 67	86 50	103 28	98 35	80 46	98 28	76 42	91 10	98 0.51 67	94 0.17 49	96 2 28	90 6.4 67	86 -5.4 50	77 -11 48	91 12.1 44	102 80 34	98 -37 17	108 15.8 40	115 -19.2 37	87 -1.4 22	97 12.9 46	83 -9 38	84 -2 37	94 0.22 10	98 0.01 10	96 0.08 9	
V 250026 99361040 25 026	1	WO 190499 V 210039	102 62	102 65	94 46	95 33	89 33	87 45	103 26	84 41	101 11	105 -0.07 66	89 0.39 46	103 10 33	102 13.4 65	94 -3.0 46	95 30 48	102 20.5 43	106 95 32	95 -33 16	112 18.0 38	95 -3.8 37	79 0.1 20	101 15.7 43	97 0 37	101 15 35	99 0.78 12	108 0.58 10	99 0.24 10	
V 250032 99348534 25 032	2	WO 210065 V 200025	102 59	101 64	86 42	114 29	98 32	98 43			88 10	101 0.24 64	102 -0.12 41	89 -5 29	101 12.5 64	86 -5.4 42	92 22 45	100 19.3 34	92 43 22	83 -20 7	90 5.1 24	103 -10.0 35	88 -1.6 20	107 19.3 40	84 -8 24	88 2 24	90 -0.17 10	106 0.44 9	100 0.29 9	
V 250033 99348542 25 033		WO 210065 Z 200071	106 59	94 64	100 42	124 25	106 28	114 41			85 6	105 -0.08 64	99 -0.03 40	76 -20 25	94 8.7 64	100 -1.5 42	103 49 44	94 14.7 30	89 32 15	84 -22 5	95 8.5 23	106 -12.1 32	103 -4.7 18	106 18.2 35	90 -5 17	91 5 17	82 -0.94 7	105 0.43 6	101 0.38 6	
V 250036 99348575 25 036		WO 210065 V 190003	102 60	99 64	102 45	110 28	97 34	104 44			96 8	102 0.19 65	100 -0.07 44	91 -3 28	99 11.7 64	102 -0.7 45	104 50 46	99 18.2 36	100 71 27	92 -30 6	99 10.5 30	101 -8.1 36	83 -0.6 23	111 21.6 42	94 -2 30	96 10 29	95 0.35 9	108 0.60 8	105 0.55 7	
V 250037 99348583 25 037	6	WO 210065 V 210018	120 60	104 64	90 43	109 29	99 31	109 43			97 8	121 -1.45 65	87 0.45 43	93 -1 29	104 14.3 64	90 -4.3 43	97 35 45	103 21.6 35	97 60 26	84 -22 5	99 10.8 29	85 4.5 35	94 -2.8 18	117 25.5 39	87 -6 29	96 9 28	99 0.73 8	110 0.66 7	105 0.56 7	
V 250038 99348591 25 038		WO 210065 FRJ 130111	109 63	96 66	105 49	122 35	109 35	122 47	99 20	116 42	95 14	107 -0.26 67	102 -0.12 48	79 -17 35	96 10.1 66	105 0.1 49	110 65 50	97 16.4 40	95 56 33	78 -15 6	97 9.4 36	101 -8.1 38	102 -4.4 25	118 26.2 43	92 -3 24	100 13 23	96 0.45 15	102 0.20 13	114 1.07 13	

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																													
ID	% Inbreeding	Sire ID										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
Number		Dam ID	Calv. Ease V	Calv Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value																		
Name																													
V 250040	4	WO 200905	96	102	104	97	86	88	95	83	104	101	85	101	102	104	103	100	109	115	119	98	71	101	103	104	96	109	101
99840043		V 210008	57	48	38	30	30	38	22	35	12	0.23	0.55	8	13.3	-0.4	49	18.9	104	-55	22.2	-6.2	1.7	15.4	3	18	0.47	0.65	0.33
V250040												62	40	30	48	38	39	38	24	18	26	33	21	36	26	26	13	12	11
V 250044		WO 210065	106	101	89	97	108	100			90	106	96	101	101	89	89	100	94	87	92	104	102	113	93	94	88	117	101
99840076		ZCW 180268	58	55	43	30	32	41			20	-0.20	0.10	9	12.4	-4.5	17	19.1	52	-25	6.4	-10.3	-4.5	23.1	-3	8	-0.37	1.11	0.35
V250044												62	45	30	55	43	43	34	25	7	28	35	20	40	28	27	21	20	19
V 250048	6	WO 210065	111	97	104	116	97	110			93	114	87	86	97	104	105	96	94	86	93	91	86	116	93	97	92	101	92
99840092		V 210013	58	54	41	28	29	39			6	-0.82	0.45	-9	10.2	-0.3	53	16.0	51	-24	7.0	-0.7	-1.2	24.7	-3	10	0.07	0.15	-0.18
V250048												62	42	28	54	41	41	33	22	5	25	34	16	36	24	23	7	6	6

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	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	V 210022	V210022	WO 160019	SP 150065	0.4	106 78	105 81	111 60	100 43	100 45	112 58	99 36	107 54	
2	V 230021	V230021	V 210022	Z 200071	0.4	112 59	94 64	103 45	117 28	103 31	113 43			
3	WO 210065	WO210065	WO 190476	WO 190552	0.2	109 77	92 83	106 51	123 34	105 36	117 53			
										★★★★☆				
1	V 200013	V 200013	WO 140037	V 110135	0.0	116 60	106 62	100 52	85 36	99 36	101 46	110 44	99 46	
2	V 220026	V220026	WO 160019	V 170021	0.3	114 64	113 66	98 54	93 38	97 43	108 49	105 25	104 44	
3	V 220030	V220030	WO 160019	WO 120396	0.6	109 66	103 69	98 59	114 44	97 43	109 52	96 27	103 47	
4	V 220032	V220032	WO 160019	FRJ 120230	0.0	128 66	103 68	87 58	99 40	95 43	103 51	101 27	98 46	
5	V 240019	V 240019	BOS 166103	FRJ 180063	0.5	93 64	112 68	96 55	94 43	101 44	100 51	109 28	97 46	
6	V 240039	V 240039	V 210022	WO 190380	2.2	90 61	125 65	96 48	82 35	100 34	101 46	107 24	98 42	
7	V 240044	V 240044	V 210022	V 210011	2.1	103 60	101 63	103 44	97 33	100 34	101 44	99 27	96 41	
8	V 240046	V 240046	V 210022	V 210013	12.6	107 60	102 63	109 45	103 31	94 32	106 43	96 22	100 39	
										★★★★				
1	V 220011	V 22 0011	WO 160019	V 160004	0.0	108 63	103 65	99 53	92 35	97 37	97 47	91 20	91 42	
2	V 220035	V220035	WO 190798	WO 190380	3.2	81 58	120 62	100 45	78 33	96 32	90 43	97 40	86 42	
3	V 230002	V230002	WO 160019	V 180001	0.0	101 64	103 65	99 55	95 35	95 36	95 48	96 22	90 43	
4	V 230009	V230009	V8 160085	V 190015	0.8	103 66	88 68	81 57	112 47	109 46	92 53	92 40	87 50	
5	V 230010	V230010	V8 160085	SP 150065	1.3	98 68	102 70	88 60	96 48	107 46	95 54	95 35	90 50	
6	V 230017	V230017	V 210022	V 150005	0.8	105 61	98 64	99 49	96 33	92 36	90 46	110 39	88 45	
7	V 230040	V230040	FRJ 180483	FRJ 170216	0.1	103 62	119 66	84 48	78 26	104 33	96 44	104 37	93 43	
8	V 230054	V 230054	WO 190499	Z 160112	0.4	98 63	98 64	95 47	98 31	100 36	91 45	102 25	88 41	
9	V 240005	V 240005	BOS 166103	FRJ 170216	0.4	98 65	109 68	89 55	87 40	105 43	94 51	102 29	91 47	
10	V 240026	V 240026	WO 160019	V 160310	0.0	116 61	99 63	100 53	97 30	93 33	98 45	97 20	93 40	
11	V 240030	V 240030	WO 190499	Z 200071	0.2	97 61	97 65	99 44	100 29	97 31	91 43	101 22	87 39	
12	V 240031	V 240031	WO 190499	V 210036	0.8	98 61	97 65	106 43	98 33	93 33	91 44	106 26	89 40	
13	V 240035	V 240035	V 210022	V 190102	0.0	103 55	94 58	109 41	100 21	97 26	97 38			
14	V 240036	V 240036	V 210022	V 170017	0.1	97 59	101 62	101 44	103 24	87 31	90 42			
15	V 240056	V 240056	V 210022	V 170013	0.7	101 59	100 53	105 45	92 28	92 33	91 41	95 20	87 37	

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc								
							★★★★															
1	V 220002	V 220002	WO 160019	V 150020	0.2		103	59	96	59	99	54	108	37	82	40	87	46	99	26	83	42
2	V 220028	V220028	WO 160019	HU 099112	0.3		109	66	104	69	86	59	94	42	93	42	89	52	95	24	84	46
3	V 230005	V230005	V8 160085	V 140014	0.5		108	67	94	69	71	60	91	44	109	45	81	53	94	28	77	48
4	V 230015	V230015	V8 160085	V 160105	0.0		93	61	98	63	86	54	90	38	101	37	80	47	86	38	74	45
5	V 230051	V 230051	WO 190499	WO 170433	1.3		86	63	104	65	116	49	87	36	90	36	89	47	124	43	90	46
6	V 240011	V 240011	WO 160019	V 190013	0.3		109	64	105	66	100	52	94	37	81	41	89	49	102	24	86	44
7	V 240012	V 240012	WO 190499	V 200302	0.0		98	55	94	59	107	40	87	22	94	24	84	38	102	22	81	35
8	V 240015	V 240015		V 210001	0.0		101	48	83	53	103	30	115	23	84	22	83	33				
9	V 240017	V 240017	WO 160019	V 150005	0.4		103	66	95	68	102	56	100	40	88	43	87	51	103	26	84	46
10	V 240025	V 240025	WO 160019	V 190004	0.3		100	65	110	67	99	54	97	39	80	42	89	50	106	26	87	45
11	V 240037	V 240037	WO 200905	V 220001	0.2		103	58	102	60	102	41	99	27	82	30	88	41				
12	WO 200905	WO200905		WO 080164	0.0		83	68	116	70	108	47	89	37	72	40	82	49	97	25	78	44
							★★★★															
1	V 200021	20021	FRJ 160077	V 151002	0.0		106	61	95	63	82	55	96	37	92	41	78	48	110	38	78	46
2	V 230013	V230013	V8 160085	V 140005	0.3		99	67	97	68	71	59	93	40	102	43	76	52	99	28	73	47
3	V 230016	V230016	V8 160085	V 170013	0.3		92	65	101	67	80	56	88	42	95	43	73	51	96	26	70	46
4	V 230019	V230019	WO 190499	V 200024	1.9		84	60	96	64	103	42	92	32	92	35	78	44	108	26	77	40
5	V 230032	V230032	WO 190499	HU 099112	1.0		103	64	96	68	85	52	90	36	88	36	73	48	101	28	71	44
6	V 230034	V230034	WO 190499	V 150020	0.6		95	62	93	66	96	47	95	30	81	34	70	45	116	42	71	44
7	V 230041	V230041	WO 190499	HU 099181	1.1		83	63	102	67	101	50	92	38	90	36	79	48	105	28	77	44
							★★★★															
1	V 230035	V230035	WO 190499	V 150007	0.7		95	63	89	66	93	49	97	34	84	38	69	47	102	29	68	43

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
							nt821	Q204X	F94L	Genomic tested	★★★★★☆☆															
1	FRJ 130111	FRJ 130111	MAJ 070476	FRJ 050063	0.0						103	78	92	77	114	81	126	60	110	60	124	66	101	36	118	60
2	SP 150065	SP150065	WO 100124	SP 080098	2.8						118	78	95	78	111	81	113	58	107	57	122	65	88	47	113	61
											★★★★★★															
1	FRJ 140088	FRJ140088	SP 090111	FRJ 110130	0.8						126	78	84	77	77	82	138	61	113	60	116	66	75	34	105	60
2	FRJ 180063	FRJ180063	FRJ 150045	FRJ 150010	0.0						114	73	100	74	102	75	117	57	96	54	113	62	98	26	107	55
3	V 170015	170015	WO 120217	FRJ 100133	0.1						111	76	105	75	73	78	116	54	119	61	116	64	96	30	110	57
4	V 210036	V210036	WO 160019	V 180005	0.1						103	67	101	69	104	62	116	46	98	46	111	54	97	25	105	48
5	V 220027	V220027	WO 160019	SP 150065	0.4						109	69	107	71	107	64	100	43	103	47	114	55	97	33	109	51
6	V 220036	V220036	WO 190624	WO 190326	1.1						82	64	100	68	116	55	109	32	111	39	112	48				
7	V 230007	V230007	WO 160019	V 170015	0.3						109	66	109	68	88	57	105	41	106	45	111	52	100	26	106	47
8	V 240007	V 240007	BOS 166103	FRJ 130111	0.3						88	66	104	69	104	57	109	44	108	46	110	53	105	30	106	48
9	V 240049	V 240049	V 210022	V 210018	12.8						113	61	99	64	105	46	115	32	95	34	111	45	87	23	103	41
10	Z 200071	Z200071		Z 160112	0.0						103	62	94	63	94	64	125	34	106	42	110	49				
											★★★★★☆☆															
1	FRJ 180097	FRJ180097	FRJ 130193	FRJ 150130	0.6						107	70	98	70	97	68	101	49	106	53	103	57	88	26	96	51
2	V 180005	V 180005	FRJ 130118	HU 099121	0.0						108	73	84	73	103	75	128	52	95	54	103	61	87	29	96	55
3	V 210006	V210006	WO 160019	V 160004	0.0						106	65	98	67	106	60	95	41	106	43	105	51	86	20	97	45
4	V 210013	V210013	WO 160019	FRJ 110289	0.0						112	68	102	69	103	64	105	42	89	44	101	53	94	22	96	47
5	V 210025	V210025	WO 160019	V 160012	0.7						97	67	106	69	96	62	117	49	89	47	101	55	104	26	98	49
6	V 210030	V210030	WO 160019	V 151010	0.0						105	64	104	66	99	64	106	40	97	42	104	51	94	22	98	45
7	V 220014	V 22 0014	WO 160019	LV 150016	0.1						109	67	101	69	90	62	115	42	92	44	100	53	99	32	96	49
8	V 230004	V230004	WO 160019	V 160310	0.0						114	60	101	63	100	53	99	30	95	34	101	45	92	20	95	40
9	V 230006	V230006	WO 160019	V 200114	0.0						104	59	102	61	109	49	97	30	93	33	101	44	92	20	94	39
10	V 230036	V230036	FRJ 180483	FRJ 180063	3.2						101	62	120	66	90	47	88	30	101	34	104	45	112	24	101	41
11	V 230037	V230037	FRJ 180483	FRJ 180097	0.1						99	60	117	65	89	45	84	27	106	34	102	44	106	24	99	40
12	V 240004	V 240004	FRJ 180483	V 210006	0.1						96	59	118	63	94	42	82	24	104	30	100	41	105	22	97	37
13	V 240008	V 240008	FRJ 180483	V 170015	0.3						106	62	116	66	77	49	92	29	111	38	105	46	105	26	101	42
14	V 240024	V 240024	BOS 166103	WO 120396	4.3						95	66	108	69	89	57	105	44	103	45	101	52	100	30	97	48

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									
								★★★★☆															
15	V 240041	V 240042	WO 200905	SP 150065	2.9		99	61	107	64	109	48	97	35	91	36	100	46	94	26	95	42	
16	V 240045	V 240045	V 210022	V 210030	12.6		99	60	109	63	105	45	100	30	99	32	108	43	98	22	102	39	
17	V 240047	V 240047	V 210022	V 210039	12.9		107	61	108	64	97	46	104	32	96	34	106	45	95	22	100	40	
18	V 240054	V 240054	V 210022	FRJ 180097	0.1		106	60	103	53	105	45	100	34	104	36	109	42	94	23	103	38	
19	WO 120396	WO120396	WO 100125	WO 100189	7.3		111	77	99	77	87	82	125	63	99	57	108	66	91	33	102	59	
20	WO 170433	WO170433	WO 090427	WO 110225	1.0		90	75	103	74	128	76	95	56	92	55	103	62	120	33	103	56	
21	WO 190326	WO190326	WO 160727	WO 070571	0.0		73	68	108	70	119	67	97	47	100	45	101	55	104	20	98	48	
22	Z 160112	Z160112	Z 120313	Z 120099	0.0		100	74	102	73	85	73	117	42	111	54	109	59	85	22	101	52	
								★★★★															
1	FRJ 170216	FRJ170216	FRJ 140016	FRJ 110263	0.0		117	73	100	73	88	76	92	47	103	52	97	60	93	29	92	54	
2	V 200009	V 200009	WO 140037	SR 100111	0.0		94	64	111	68	96	57	92	35	96	42	95	50	95	28	90	46	
3	V 210005	V210005	WO 170069	V 180010	0.9		86	65	90	67	118	58	99	49	101	48	93	53	91	40	87	50	
4	V 210008	V210008	WO 170069	V 180001	0.1		98	67	93	66	102	60	108	45	100	45	96	53	93	36	91	50	
5	V 210011	V210011	WO 170069	V 170015	3.7		96	67	98	68	97	61	97	50	101	50	91	55	97	39	87	52	
6	V 210018	V210018	WO 160019	FRJ 120230	0.0		128	70	103	71	84	68	100	47	89	48	97	56	94	27	92	50	
7	V 210039	V210039	WO 160019	HU 099112	0.3		112	70	109	72	83	68	104	48	90	47	96	57	95	24	91	50	
8	V 220001	V 220001	WO 160019	FRJ 140114	0.2		112	65	101	64	90	65	106	39	91	42	96	51	100	25	92	46	
9	V 220017	V220017	WO 160019	WO 140733	0.0		96	66	103	69	116	62	97	34	84	42	95	51	91	20	89	45	
10	V 220020	V220020	BOS 166109	V 140021	0.7		97	64	98	68	78	62	104	35	117	48	97	52	95	24	91	46	
11	V 220029	V220029	WO 160019	V 170110	0.0		115	62	92	64	120	58	99	30	76	39	91	47	92	22	86	42	
12	V 220034	V 220034	WO 160019	V 190102	0.0		111	62	97	63	105	57	100	30	91	39	97	47	88	20	91	42	
13	V 230045	V230045	FRJ 180483	FRJ 170248	0.4		90	62	119	66	79	48	84	31	107	34	93	45	106	24	91	41	
14	V 240003	V 240003	BOS 166103	V 180001	0.0		96	63	104	65	88	54	93	36	103	39	91	48	98	26	87	44	
15	V 240006	V 240006	FRJ 180483	V 210008	0.2		90	59	116	63	92	42	86	25	101	31	95	42	107	30	92	40	
16	V 240009	V 240009	WO 190499	V 180005	0.3		96	63	91	66	105	48	109	34	91	36	91	46	100	27	87	42	
17	V 240010	V 240010	WO 160019	V 200114	0.0		112	59	97	61	107	49	98	30	92	33	98	44	91	20	92	39	
18	V 240013	V 240013	WO 160019	V 140005	0.3		100	65	103	68	95	57	98	33	93	41	92	50	98	25	88	45	
19	V 240014	V 240014	WO 160019	V 190003	0.4		102	65	110	67	101	55	93	38	88	42	95	50	105	25	92	45	
20	V 240016	V 240016	BOS 166103	FRJ 170248	0.5		85	65	112	68	82	55	90	44	107	44	90	51	103	28	87	46	
21	V 240022	V 240022	WO 160019	V 150113	0.0		100	61	98	63	104	53	96	30	91	34	90	45	88	24	83	41	

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		Acc							
									★★★★																		
22	V	240023	V 240023	WO 160019	V 150024	0.2					107	65	92	66	99	55	113	40	86	43	91	50	90	26	86	45	
23	V	240038	V 240038	WO 200905	V 210025	0.5					91	57	111	61	102	40	102	31	82	32	92	42					
24	V	240048	V 240048	V 210022	V 150007	0.4					105	61	94	65	95	49	114	33	91	38	94	46	90	25	88	42	
25	V	240052	V 240052	V 210022	V 200024	1.7					93	60	103	52	104	42	98	32	97	35	96	41	101	22	92	37	
26	V	240055	V 240055	V 210022	V 160244	0.0					113	57	92	47	93	44	114	23	94	27	97	37	82	20	89	34	
27	V	240057	V 240057	V 210022	ZCW 180268	0.6					108	59	106	54	91	46	89	33	105	34	99	42	96	23	94	38	
28	V	240058	V 240058	V 210022	V 150018	0.4					106	61	97	54	104	47	105	33	91	34	97	43	104	24	94	39	
29	WO	190380	WO190380	WO 160516	WO 080250	2.6					74	70	130	71	91	73	77	54	100	49	92	59	103	32	89	54	
									★★★★☆																		
1	FRJ	170248	FRJ170248	VYF 120114	FRJ 130142	0.4					94	73	101	74	77	76	98	57	107	55	87	62	91	26	82	55	
2	JAN	230017	JAN 230017		JAN 177021	0.0					108	55	86	40	108	48	120	18	77	26	89	35					
3	V	140014	V 140014	FRJ 100094	FRJ 060054	1.6					113	76	84	77	87	81	95	44	110	55	88	62	86	30	81	56	
4	V	150018	150018	FRJ 110138	FRJ 060178	0.1					101	75	90	72	98	71	112	49	83	51	83	59	109	30	82	53	
5	V	170009	170009	FRJ 140031	FRJ 140114	0.4					105	63	97	65	75	52	100	38	96	43	81	49	93	26	76	44	
6	V	180001	V 180001	WO 140688	V 110135	0.0					107	68	88	60	91	73	101	33	100	34	87	50					
7	V	190003	V 190003	FXF 080283	V 140005	0.9					92	71	103	72	103	72	94	44	85	55	84	58	103	29	82	52	
8	V	210001	V210001	WO 170069	SP 180113	0.1					93	63	93	66	94	56	108	46	96	43	87	51	88	38	81	48	
9	V	210003	V210003	WO 170069	V 140014	1.3					97	68	91	70	103	67	85	48	104	49	85	56	95	39	80	53	
10	V	210004	V210004	WO 170069	V 160244	0.0					108	64	83	64	85	58	120	43	93	43	85	51	81	37	78	48	
11	V	220007	V 22 0007		V 180001	0.0					102	54	82	56	104	50	115	17	86	29	84	39					
12	V	220009	V 22 0009		V 140014	0.0					101	56	87	59	99	53	102	22	97	36	86	43					
13	V	230008	V230008	V8 160085	V 160117	0.0					93	60	104	62	91	52	88	38	102	38	88	47	96	24	83	42	
14	V	230018	V230018	WO 190499	V 200106	0.0					92	55	90	59	111	40	96	22	91	25	84	38	93	22	79	35	
15	V	230020	V230020	WO 190499	WO 200633	1.3					86	59	98	65	112	40	84	32	90	30	80	43	98	23	76	39	
16	V	230030	V230030	BOS 177663	ZCW 180268	0.0					100	65	114	68	80	53	84	41	99	42	88	50	102	28	85	46	
17	V	230049	V 230049	WO 190499	V 150018	0.6					95	62	90	63	104	47	99	34	87	35	80	45	109	28	79	42	
18	V	230052	V 230052	WO 190499	V 170110	0.0					91	56	96	58	115	42	88	22	84	26	80	39	105	24	78	36	
19	V	240021	V 240021	WO 190499	V 160117	0.0					97	55	91	59	118	40	91	22	91	26	87	38	98	22	83	35	
20	V	240028	V 240028	BOS 166103	HU 099112	1.5					94	66	104	69	82	58	97	42	98	44	85	52	92	28	80	47	
21	V	240032	V 240032	WO 200905	V 210003	3.8					86	57	107	61	105	42	87	31	88	33	84	42	97	24	80	38	

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								
											★★★★☆															
22	V	240033	V 240033	WO 200905	V 200106	0.0					89	52	103	55	110	36	93	19	82	23	84	35				
23	V	240034	V 240034	WO 200905	V 210005	3.8					84	57	104	60	113	39	93	31	87	32	87	41	94	23	83	37
24	V	240040	V 240040	WO 200905	V 140014	0.3					99	60	106	63	93	48	89	29	92	35	86	44	95	20	82	39
25	ZCW	180268	180268	RLR 140083	ZCW 100108	0.0					106	69	107	72	72	69	80	50	110	52	87	58	92	28	82	52
											★★★															
1	HU	099112	HU099112	HU 060039	HU 020549	0.0					109	78	95	78	68	84	98	55	89	55	71	65	82	29	65	58
2	V	140005	V 140005	FRJ 100094	SR 100111	0.0					97	73	95	73	83	78	96	24	96	49	77	56	98	30	74	51
3	V	150024	150024	FRJ 110138	FRJ 060054	2.0					105	73	75	68	90	73	120	53	82	54	72	59	83	32	66	54
4	V	170013	170013	WO 140688	FRJ 080165	0.0					91	68	98	69	100	68	86	36	83	47	72	54				
5	V	190004	V 190004	FXF 080283	HU 099121	0.0					87	70	105	71	98	69	110	49	70	54	78	58	101	32	75	53
6	V	190013	V 190013	FXF 080283	V 151002	0.0					104	67	86	65	108	62	111	42	72	50	77	53	86	27	71	48
7	V	200024	20024	Z 150394	V 150005	4.4					77	66	101	66	97	57	97	46	92	50	78	53	103	23	76	47
											★★★															
1	V	150007	150007	FRJ 110138	MAJ 080509	0.1					101	74	83	74	79	76	117	51	81	58	68	62	88	35	63	57

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	V	250008	25 008	WO 210065	V 220027	7.4				104	60	101	64	108	42	112	27	104	30	116	42				
2	V	250014	25 014	WO 210065	WO 170433	4.4				98	62	93	66	121	47	113	33	99	34	110	46				
3	V	250034	25 034	WO 210065	SP 150065	2.1				111	63	94	67	110	49	117	34	106	35	118	47	90	26	111	43
										★★★★★															
1	V	250004	25 004	WO 210065	V 220001	6.5				114	59	96	63	97	42	115	26	98	28	107	41				
2	V	250007	25 007	WO 210065	V 220009	0.2				105	57	90	62	102	38	113	20	102	26	102	39				
3	V	250009	25 009	WO 210065	V 220014	6.4				99	59	101	64	100	41	116	27	99	30	107	42				
4	V	250010	25 010	WO 210065	V 200302	0.0				115	54	84	58	109	37	114	17	103	20	107	36				
5	V	250013	25 013	WO 210065	V 220034	6.4				112	58	95	62	104	39	111	23	99	27	108	40				
6	V	250015	25 015	WO 210065	V 220017	6.4				107	59	100	63	107	41	107	24	95	28	106	41				
7	V	250035	25 035	WO 210065	WO 190380	2.6				83	60	114	65	101	46	93	32	102	31	100	44				
8	V	250043	V250043	WO 210065	V 150018	0.2				108	62	90	55	101	44	118	30	94	32	100	42				
										★★★★★															
1	V	250021	25 021	WO 190499	V 180005	0.3				98	62	89	66	106	48	108	34	91	36	90	46	101	27	86	42
2	V	250030	25 030	WO 190499	V 170015	2.2				94	63	103	66	92	50	96	35	103	39	93	47	106	27	91	43
										★★★★★															
1	V	250024	25 024	WO 190499	V 160105	0.0				92	57	87	60	114	42	93	22	91	25	81	39	93	24	76	36
2	V	250025	25 025	WO 190499	V 210003	13.5				99	61	90	65	104	45	86	33	95	34	80	45	104	30	78	42
3	V	250027	25 027	WO 190499	V 140014	1.0				96	63	92	67	98	51	90	32	99	36	81	47	101	28	78	43
4	V	250029	25 029	WO 190499	V 180001	0.1				88	61	95	64	102	48	92	29	94	29	80	44	99	24	77	40
5	V	250031	25 031	WO 190499	V 220029	0.6				104	59	96	64	111	42	89	27	82	31	83	42	106	25	81	39
6	V	250039	V250039	WO 200905	V 160244	0.0				110	56	93	42	90	40	105	21	80	25	80	34				
										★★★															
1	V	250041	V250041	WO 200905	V 190013	0.3				92	58	101	48	108	39	97	28	72	32	78	38				

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
							★★★★★																
1	V 250038	25 038	WO 210065	FRJ 130111	0.0		109	63	96	66	105	49	122	35	109	35	122	47	99	20	116	42	
							★★★★★																
1	V 250001	25 001	WO 210065	V 200020	1.4		114	59	86	63	105	42	130	29	104	31	116	42					
2	V 250003	25 003	WO 210065	Z 160112	0.7		115	61	85	66	99	46	128	27	108	33	114	44					
3	V 250006	25 006	WO 210065	V 220036	4.2		97	58	94	63	112	39	118	24	108	28	115	40					
4	V 250012	25 012	WO 210065	V 210030	6.4		112	59	92	63	104	42	120	27	101	28	112	41					
5	V 250033	25 033	WO 210065	Z 200071	0.4		106	59	94	64	100	42	124	25	106	28	114	41					
6	V 250048	V250048	WO 210065	V 210013	6.4		111	58	97	54	104	41	116	28	97	29	110	39					
							★★★★★																
1	V 250002	25 002	WO 210065	V 220025	6.4		112	58	89	62	102	40	121	23	101	27	109	40					
2	V 250005	25 005	WO 210065	V 220020	0.4		104	59	96	63	91	41	117	24	111	30	109	41					
3	V 250011	25 011	WO 210065	V 200105	0.0		107	55	88	59	102	40	118	17	97	20	101	36					
4	V 250016	25 016	WO 210065	V 220007	0.0		102	56	89	61	105	37	119	19	96	24	101	38					
5	V 250017	25 017	WO 210065	JAN 230017	0.2		110	57	91	61	105	36	121	19	92	23	104	37					
6	V 250019	25 019	WO 190499	FRJ 140088	0.1		117	64	86	68	94	51	121	39	100	38	103	49	90	28	97	45	
7	V 250036	25 036	WO 210065	V 190003	0.5		102	60	99	64	102	45	110	28	97	34	104	44					
8	V 250037	25 037	WO 210065	V 210018	6.5		120	60	104	64	90	43	109	29	99	31	109	43					
9	V 250044	V250044	WO 210065	ZCW 180268	0.4		106	58	101	55	89	43	97	30	108	32	100	41					
							★★★★★																
1	V 250032	25 032	WO 210065	V 200025	2.1		102	59	101	64	86	42	114	29	98	32	98	43					
							★★★★★																
1	V 250020	25 020	WO 190499	V 140021	0.9		96	63	90	67	86	50	103	28	98	35	80	46	98	28	76	42	
2	V 250026	25 026	WO 190499	V 210039	1.1		102	62	102	65	94	46	95	33	89	33	87	45	103	26	84	41	
3	V 250040	V250040	WO 200905	V 210008	3.7		96	57	102	48	104	38	97	30	86	30	88	38	95	22	83	35	

	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 18mnth 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.

